



**rapid**<sup>®</sup>  
GERMAN TECHNOLOGY

## Informations

■ Rapid Group - An Innovative Company	4 - 5
■ Customer Informations	6 - 7
■ Contact Details	8 - 9
■ Reel Technology and Rapid-SCS®	10 - 21
■ Special Truck Bodies	52 - 53
■ Plant Construction	54 - 57
■ Tech. Informations For Cable- And Hose Reels	48 - 51
■ Tech. Informations For Oil Pumps	240
■ Index Of Articals	236 - 239
■ General Terms And Conditions (in German)	243

## Reeling Technology



■ Cable Reels, 230 V~ up to 400 V~	22 - 23
■ Cable Reels With Clips	23
■ Signalling Retractors	24
■ Hose Reels For Special Applications	25
■ Hose Reels For Compressed Air	26 - 31
■ Hose Reels For Water	32 - 33
■ Hose Reels For Oil And Diesel	34 - 35
■ Hose Reels For Grease	36
■ Hose Reels For EX-Protection	36
■ Hose Reels For High Pressure	37
■ Hose Reels For Technical Gases	38
■ Hose Reels For Vacuum	38
■ Hose Reels For Hydraulic And AdBlue®	39
■ Hose Reels For Hygienic Areas	39
■ Hoses and Reinforcements	40 - 42
■ Accessories for Hose Reels	42 - 47
■ Tech. Informations For Cable- And Hose Reels	48 - 51

## Storage Systems



■ Drain Pans	58 - 62
■ Accessories For Barrels	63
■ Multi-Perpose Pans	81
■ Filling Places / Canister Racks 20 Ltr., Manual	64 - 65
■ Filling Places / Barrel Racks 60 Ltr., Manual	66 - 68
■ Filling Places / Barrel Racks 60-200 Ltr., With Pump	74 - 75
■ Filling Places / Barrel Racks 200 Ltr., Manual	69
■ Filling Places 60-200 Ltr.	70 - 73
■ Racks For Jerry Cans	77
■ Storage Racks And Working Benches	76 - 77
■ Accessories For Barrels, Filling Places And Storage Racks	63
■ Tyre Storage Racks	78
■ Storage Racks With Bins And Tyre Service Racks	79
■ Material Container	80
■ Measuring Cups, Cans And Funnels	82 - 83
■ Oiler And Sprayer	84 - 85
■ Jerry Cans For Petrol And Water	86 - 87
■ Storage Tanks	88 - 91
■ Accessories For Storage Tanks	92 - 94

## Oil Conveying Systems



■ Oil Delivery Cabinets	95
■ Trolleys	96
■ Mobile Oil Dispenser	97
■ Mobile Oil Dispensing Sets Car	98 - 99
■ Stationary Oil Dispensing Sets Car	100 - 103
■ Mobile Oil Dispensing Sets - Truck Competence	104 - 105
■ Stationary Oil Dispensing Sets - Truck Competence	106 - 109
■ Stationary Oil Dispensing Sets With Carrying Unit	110 - 112
■ Digital Oil Dispensing Sets	113
■ Oil Bars	114
■ Cabinets, Pillars, Hanging Devices	114 - 115
■ Electric Drum And Container Pump	135
■ Gear Oil Carts, Filling Adapter	138 - 139
■ Gear Oil Dispensing Sets, Mobile And Stationary	140 - 142
■ Syringes, Oiler	143
■ Measuring Cups, Cans And Funnels	144 - 145
■ Hand Pumps And Accessories	147 - 151
■ Pneumatic Oil Conveying Pumps And Accessories	152 - 159
■ Electric Oil Conveying Pumps And Accessories	160 - 167
■ Smart pump control and monitoring	165
■ Hose Reels For Oil Supply And Accessories	168 - 171
■ Nozzles, Flow Meter And Accessories	172 - 175
■ Oil Management With Radio Technology	176 - 178
■ Oil Management Compact System	179
■ Specification Plates	193

## Diesel Supply



■ Diesel Dispensing Stations	120
■ Diesel Dispensing Sets	121
■ Accessories For Diesel Dispensing Sets	122
■ Diesel Pumps	123 - 124
■ Mobile Diesel Filling	124 - 125

## Petrol Supply



■ Pumps For Petrol	136 - 137
■ Jerry Cans For Petrol	146
■ Fuel Suction Units	191

## Coolant Supply



■ Mobile Coolant Dispensing Sets	116
■ Stationary Coolant Dispensing Sets	117
■ Mixing Devices	118 - 119

## AdBlue®-Supply



■ Pumps to decant AdBlue®	127
■ Hand Pumps for AdBlue® and Accessories	128 - 129
■ Dispensing Sets Car for AdBlue® and Accessories	130 - 131
■ Dispensing Sets Car for AdBlue® and Accessories	132
■ Drain Pans for IBC Container	133
■ Mobile AdBlue®-Filling	134

## Waste Oil Management



■ Mobile Waste Oil Container	180, 182 - 183
■ Mobile Waste Oil Evacuators	181 - 182
■ Mobile Oil Filter Units	183
■ Idle State Drain Pans	184
■ Mobile Collection Pans	184
■ Pit Pans And Accessories	184 - 185
■ Permanent Waste Oil Management	186 - 187
■ Waste Oil Interim Container	187
■ Stationary Waste Oil Evacuators	188
■ Waste Oil Center	189
■ Accessories For Waste Oil Evacuation	190
■ Fuel Suction Units	191
■ Double Diaphragm Transfer Pump And Accessories	192
■ Specification Plates	193

## Grease Conveying Systems



■ Hand Lever Grease Guns	194
■ Grease Filling Units, Hand Operated Versions	195
■ Grease Filling Units, Pneumatic	195
■ Stationary Lubricating Devices	196
■ Mobile Lubricating Devices	196
■ Pneumatic Grease Pumps and Accessoreis	197 - 198
■ Grease Barrel Lid	199
■ Grease Follower Plate	199
■ Hose Reels for Grease Supply	200 - 201
■ Grease Pistols and Accessories	201
■ Lubricating Nipple	199, 201
■ Push Type Gun Sets	198

## Parts Cleaner Devices



■ Cleaning Agents and Cleaner Devices	202
■ Stationary Small Parts Cleaner	203 - 204
■ Mobile Small Parts Cleaner	204 - 205
■ Dipping Basin	205
■ Drain Pans	206
■ Accessories For Small Parts Cleaner	206
■ Biological Parts Washer	207
■ Automatic Parts Washer And Accessories	208 - 211
■ Super Sonic Units And Accessories	212 - 214
■ Cleaning Agents	214
■ Cleaning Devices And Cleaning Tray	215

## Electric Mobility Charge Systems



■ Charge Systems For Car Workshops And Municipality	216 - 217
■ Battery Charger And Tester	218 - 223
■ Battery Disposal Box	224

## Air Conveying Systems



■ Compressed Air Units, Wall Units	226
■ Compressed Air Units, Stand Units	227
■ Air Tools	228 - 231
■ Connecting System For Compressed Air Mains	232 - 234
■ Accessories For Connecting System	234
■ Energy Supplying Units	234
■ Hose Bracket	45, 234
■ Safty Couplings	235

## Association





Factory Riedstadt

## About us

The Rapid Group has its origins in 1948 and builds its future on 75 years of experience. We see change in our industry as an opportunity. Through the direct dialogue with our customers, we have developed a unique understanding of customer requirements. This is how we ensure our success and set standards in the competition.

Due to the consequent focus on sustainability and on delivering premium quality, Rapid Group optimizes operations more effective, safer and more environmentally compatible than ever.

Rapid Group is one of the most successful manufacturers of tools and workshop facilities and ranks as a medium-sized industrial enterprise in Germany. With rapid®, Rapid-SCS®, PNEU-TEC®, TRELAWNY™ and HELVI® five of the strongest premium brands in the workshop industry are united within the company. Rapid Group's products set highest standards regarding ergonomics, technology and quality and thereby reflect the company's leading position in innovation and engineering.

## At your service

Applying a long-term perspective and acting responsibly are the foundations of the company's economic success. Ecological and social sustainability along the whole value chain, extensive product responsibility as well as resource conservation are strongly embedded in Rapid Group's strategy. The company aims at shaping the workflows of the future actively and innovatively.

The performance potential of Rapid Group's production network is based on its employees' exceptional commitment to and identification with the company and well as their profound know-how. Besides future-oriented technology and modern installation engineering, qualified staff is key to producing premium products. Systematic cross-linkage with internal and external partners as well as target-oriented transfer of knowledge ensure that customers receive their quality product on time today and in the future.



## Company principles

- We represent quality
- We appreciate employees and partner
- We respect human rights
- We accept responsibility
- We are result oriented
- We are flexible and innovative
- We are creative and networking
- We respect environment
- We set high value to corporate sustainability

## Employ our services for:

- Complex reeling methods
- For secure storage systems
- Central oil conveying systems
- For AdBlue®-supply
- Central grease conveying systems
- Central waste oil management
- Professional cleaning systems
- Future-oriented electric mobility
- Central air conveying systems
- Special truck bodies





Rapid Group trade fair and sales team

## We - for you

Rapid's sales team is at your service not only via print media and online, but we are also present at various exhibitions. By attending trade fairs we ensure close contact to our customers, their needs and we remain in touch with trade and ahead of our competition. Visit us at the international trade fair automechanika in Frankfurt or at AutoZum in Salzburg.

Our technical application consultants are at your service at national trade fairs and competitive exhibitions of our sales partners: CARAT GmbH & Co. KG in Kassel, Alliance Automotive Service GmbH in Münster, COPARTS GmbH in Göttingen und Frankfurt, Ernst Markmiller GmbH in Deggendorf, Johannes J. Matthies GmbH

& Co. KG in Hamburg, PV Automotive GmbH in Hannover, STAHLGRUBER GmbH in München, Nürnberg, Sindelfingen, Chemnitz und Frankfurt as well as WM SE in Dortmund, Berlin, München and Stuttgart.

**Visit us – we are at your service.**

**... and check out our YouTube channel „RapidGmbH“.**

## Orders /Requests

We ask you to direct first orders in writing by mail or by fax using the official letter of your company as these can be processed in this way only.

Our terms of payment and delivery are valid as well when ordering by phone

**Phone** +49 (61 58) 929 80-0  
**Telefax** +49 (61 58) 929 80-50  
**Internet** [www.rapid-group.de](http://www.rapid-group.de)  
**E-Mail** [info@rapid-group.de](mailto:info@rapid-group.de)

## Delivery times

Our permanent endeavour is to deliver all ordered products as soon as possible. Products we have in stock will be delivered in 1 - 3 days. Standard products have a delivery time of 10 - 14 days. The time of delivery for non-standard products is subject to agreement.

## Terms of delivery and payment

All deliveries are liable to our terms of delivery and payment, ex works, exclusive packaging. All information, pictures and descriptions serve for illustration purposes only.

**Terms of payment:**  
**10 days net**

## Packaging

When your order does not exceed the amount of EUR 150,00, we charge you a shipping flat rate of **EUR 8,00**

up to 150,00 EUR **3,5%** on good's amount  
 up to 500,00 EUR **3,0%** on good's amount  
 up to 2500,00 EUR **2,0%** on good's amount

## Shipments

All our shipments up to 30 kg are shipped on the quickest as well as the cheapest way with a **parcel service**. Shippments exceeding 30 kg are shipped with a **transport company**.

Thanks to the system **DIAD** (Delivrey Information Acquisition Device) we are able to locate shipments at any point of time or who at what time received the delivery at your company.

## Business hours

Monday - Thursday	8:00 am till 12.30 pm
and	1:30 pm till 4.30 pm
Friday	8:00 am till 2.30 pm

## Prices

Prices do not include taxes and are subject to change. Charges for calibration and freight are no subject to discount.

**All orders are subject to our general terms and conditions (refer to page 243).**

## Validity of catalog

With this current catalogue no. 75 (edition 07/2024) all previous catalogs are not valid anymore.

This applies for the prices as well as for the description of all goods.

# RAPID GROUP

*presents brands*



## Order management

Anette Bösz  
Igor Disterhof



+49 (6158) 92980-74  
+49 (6158) 92980-12



anette.boesz@rapid-group.de  
igor.disterhof@rapid-group.de

## Sales

Michael Mutz  
Michael Blocksdorf



+49 (171) 48 08 461  
+49 (171) 56 27 230



michael.mutz@rapid-group.de  
michael.blocksdorf@rapid-group.de

## Export

Michael Schiffer



+49 (6158) 92980-70



michael.schiffer@rapid-group.de

## Technical Support

Max Elter  
Patric Elsaesser



+49 (6158) 92980-13  
+49 (6158) 92980-11



max.elter@rapid-group.de  
patric.elsaesser@rapid-group.de

## Purchasing department

Jasmin Grasmück



+49 (6158) 92980-73



einkauf@rapid-group.de

## Production / CAD

Joachim Czerny  
Lars Richter



+49 (6158) 92980-15  
+49 (6158) 92980-16



joachim.czerny@rapid-group.de  
lars.richter@rapid-group.de

## Marketing / IT

Daniel Kieck



+49 (6158) 92980-71



daniel.kieck@rapid-group.de

## Accounts department

Sabina Lohmann



+49 (6158) 92980-21



sabina.lohmann@rapid-group.de

## Management

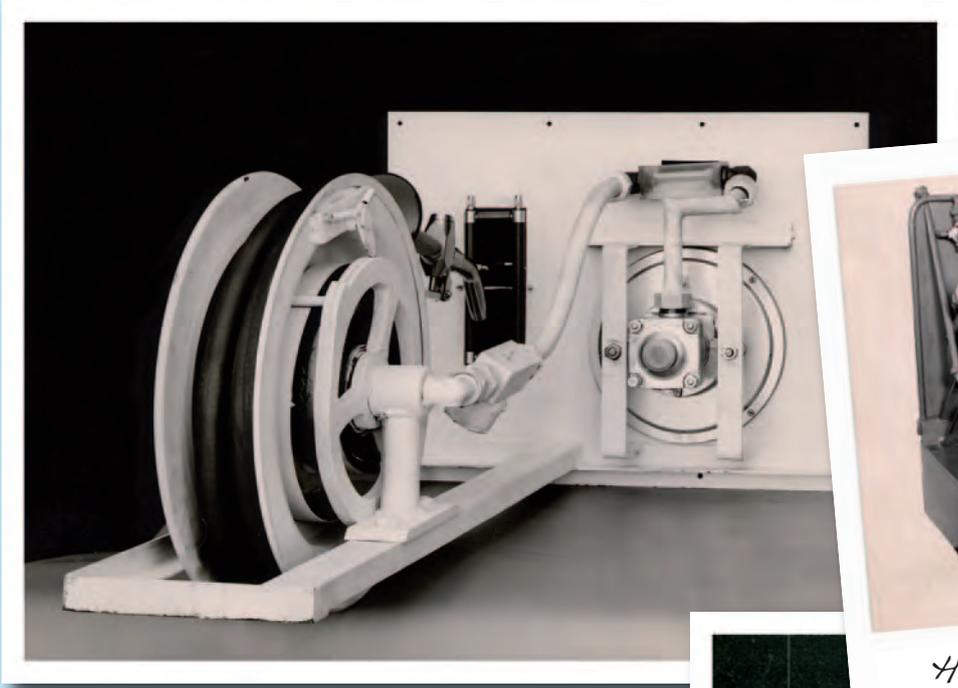
Reinhold Elter



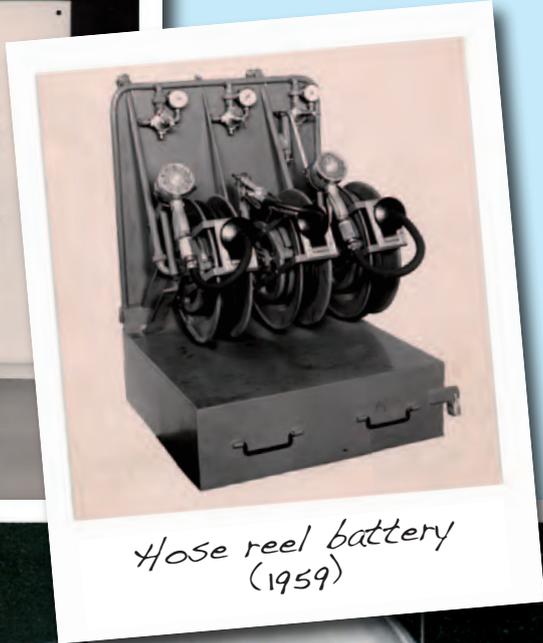
+49 (6158) 92980-60



reinhold.elter@rapid-group.de



◀ Oil dispensing unit (1957)



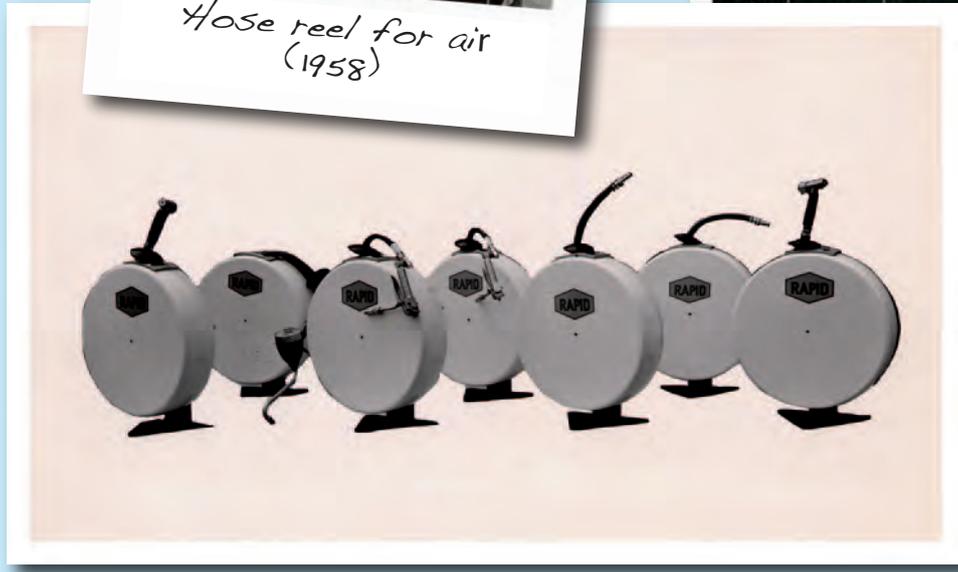
*Hose reel battery (1959)*



*Hose reel for air (1958)*



▲ Hose reel with special wall arm (1964)

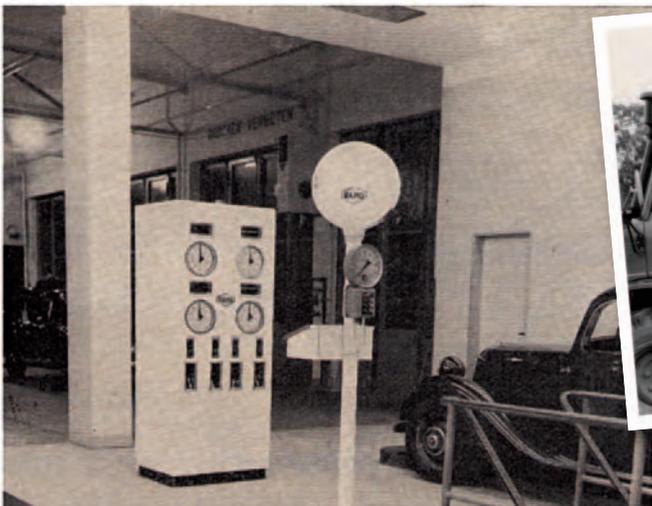


◀ Hose reels for compressed air, water, oil & grease (1964)

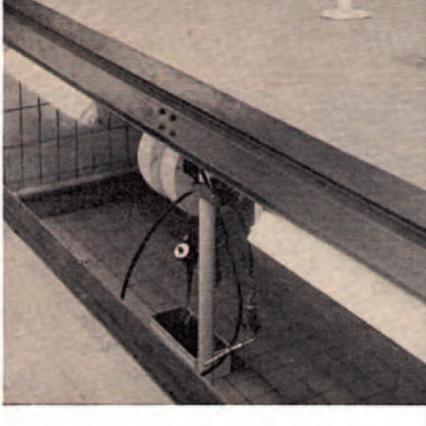
◀ Oil dispensing counter (1958)



*Foot grease gun  
(1950)*



▲ Mobile supply station  
(1958)



▲ Oil dispensing cabinet & hose reel in a car workshop

Maintenance body on DB Unimog (1978) ▶



# TYPE SERIES 0

■ Incl. cable up to max. 35 m /230 V  
or max. 30 m /400 V

■ Available with Schuko- or CEE-plug,  
hand lamp and ground clamp

■ Detachable multiple  
detents per rotation

■ Closed plastic housing,  
blue

■ Fully insulated, incl. protection  
against overheating

■ Optional with Rapid-SCS<sup>®</sup>

■ Protection  
category IP 24

■ Reeling up by  
retraction spring



**RAPID**  
**SCS**<sup>®</sup>  
Safety Control System

SCS is an registered trade mark with an intelligent safety system for spring operated automatic hose reels.

The system limits the retraction speed to an un-hazardous extent and prevents the hose to roll up accidentally uncontrolled and so, avoids damages and injuries.

# TYPE SERIES 1

■ Incl. PU-hose up to max. 15 m NPS 06 and NPS 08, 20 m NPS 10 and 15 m NPS 12

■ Closed plastic housing, blue

■ Multiple detents per rotation

■ Optional with Rapid-SCS®

■ Reeling up by retraction spring

■ Detachable multiple detents per rotation

■ Suitable for compressed air, up to 10 bar



**RAPID**  
**SCS**®  
 Safety Control System

SCS is a registered trade mark with an intelligent safety system for spring operated automatic hose reels.

The system limits the retraction speed to an un-hazardous extent and prevents the hose to roll up accidentally uncontrolled and so, avoids damages and injuries.

# TYPE SERIES 2

■ Freestanding, therefore usable without fixed installation due to its tare weight

■ Flexible use through comfortable carrying handle

■ Incl. PVC-hose  
30 m NPS 10

■ Multiple detents  
per rotation

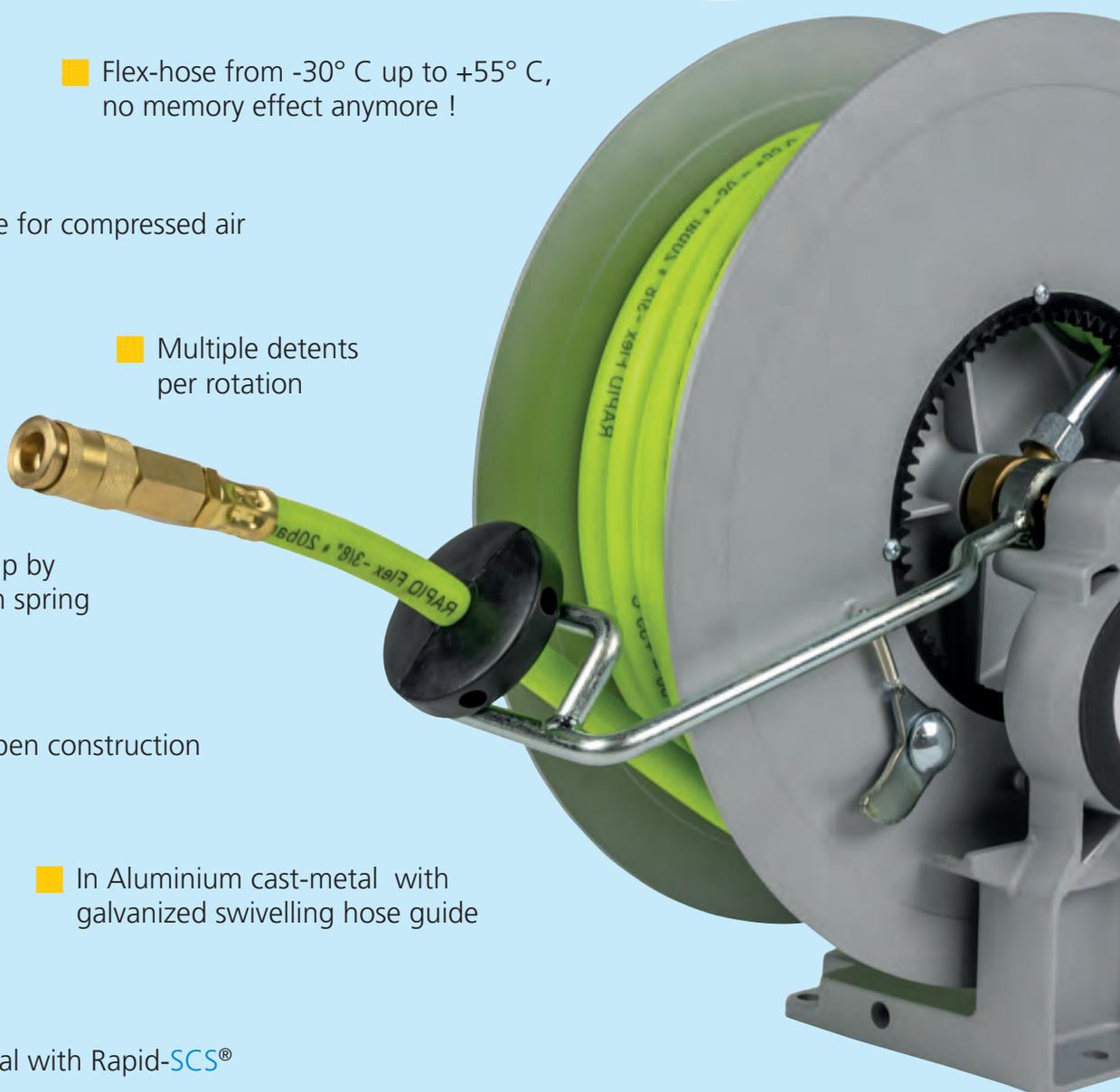
■ Reeling up by  
retraction spring

■ Suitable for  
compressed air up to 15 bar



# TYPE SERIES 3-Flex

- incl. special flex-hose up to max. 20 m NPS 10
- Flex-hose from -30° C up to +55° C, no memory effect anymore !
- Suitable for compressed air
- Multiple detents per rotation
- Reeling up by retraction spring
- Open construction
- In Aluminium cast-metal with galvanized swivelling hose guide
- Optional with Rapid-SCS®



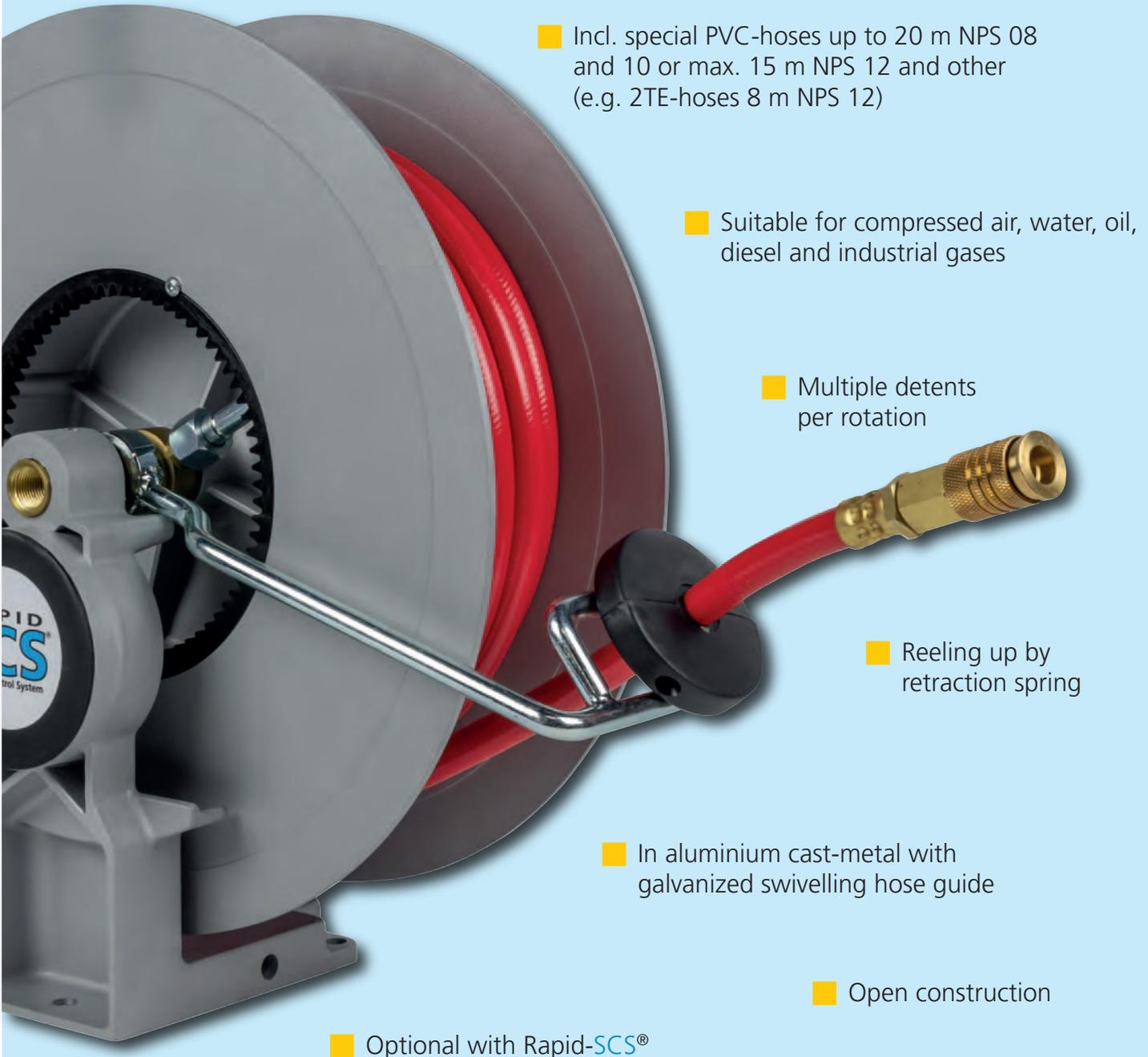
- Up to max. 20 bar

**RAPID**  
**SCS**®  
 Safety Control System

SCS is a registered trade mark with an intelligent safety system for spring operated automatic hose reels.

The system limits the retraction speed to an un-hazardous extent and prevents the hose to roll up accidentally uncontrolled and so, avoids damages and injuries.

# TYPE SERIES 3



■ Incl. special PVC-hoses up to 20 m NPS 08 and 10 or max. 15 m NPS 12 and other (e.g. 2TE-hoses 8 m NPS 12)

■ Suitable for compressed air, water, oil, diesel and industrial gases

■ Multiple detents per rotation

■ Reeling up by retraction spring

■ In aluminium cast-metal with galvanized swivelling hose guide

■ Open construction

■ Optional with Rapid-SCS<sup>®</sup>

■ Up to max. 20 bar

**RAPID**  
**SCS**<sup>®</sup>  
Safety Control System

SCS is a registered trade mark with an intelligent safety system for spring operated automatic hose reels.

The system limits the retraction speed to an un-hazardous extent and prevents the hose to roll up accidentally uncontrolled and so, avoids damages and injuries.

# TYPE SERIES 4

■ Incl. special PVC-hoses up to 20 m NPS 08 and 10 or max. 15 m NPS 12 and other (e.g. 2TE-hoses 8 m NPS 12)

■ Multiple detents per rotation

■ In aluminium cast, base made of galvanized steel sheet

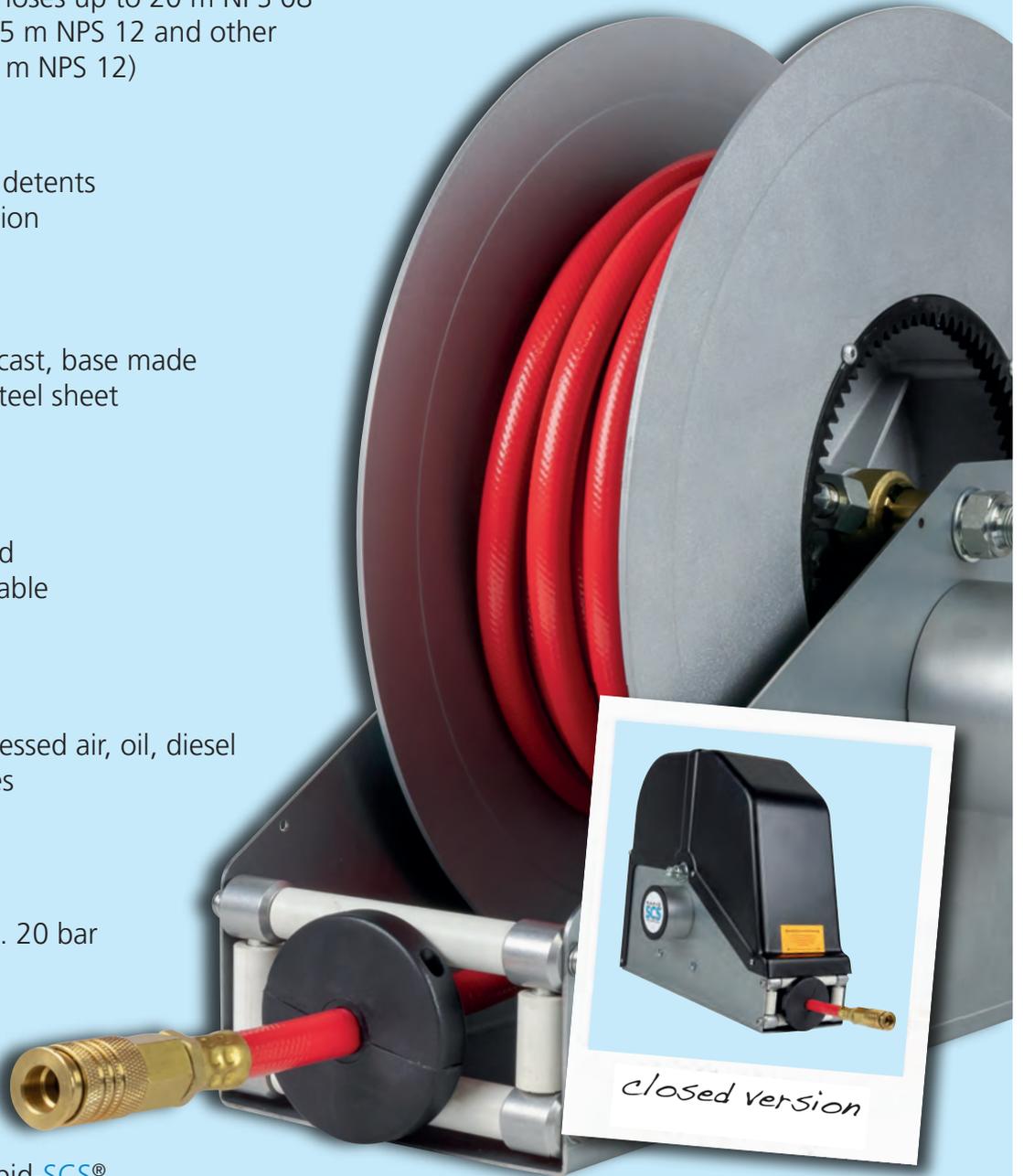
■ In open and closed construction available

■ Suitable for compressed air, oil, diesel and industrial gases

■ Up to max. 20 bar

■ Optional with Rapid-SCS®

■ Reeling up by retraction spring

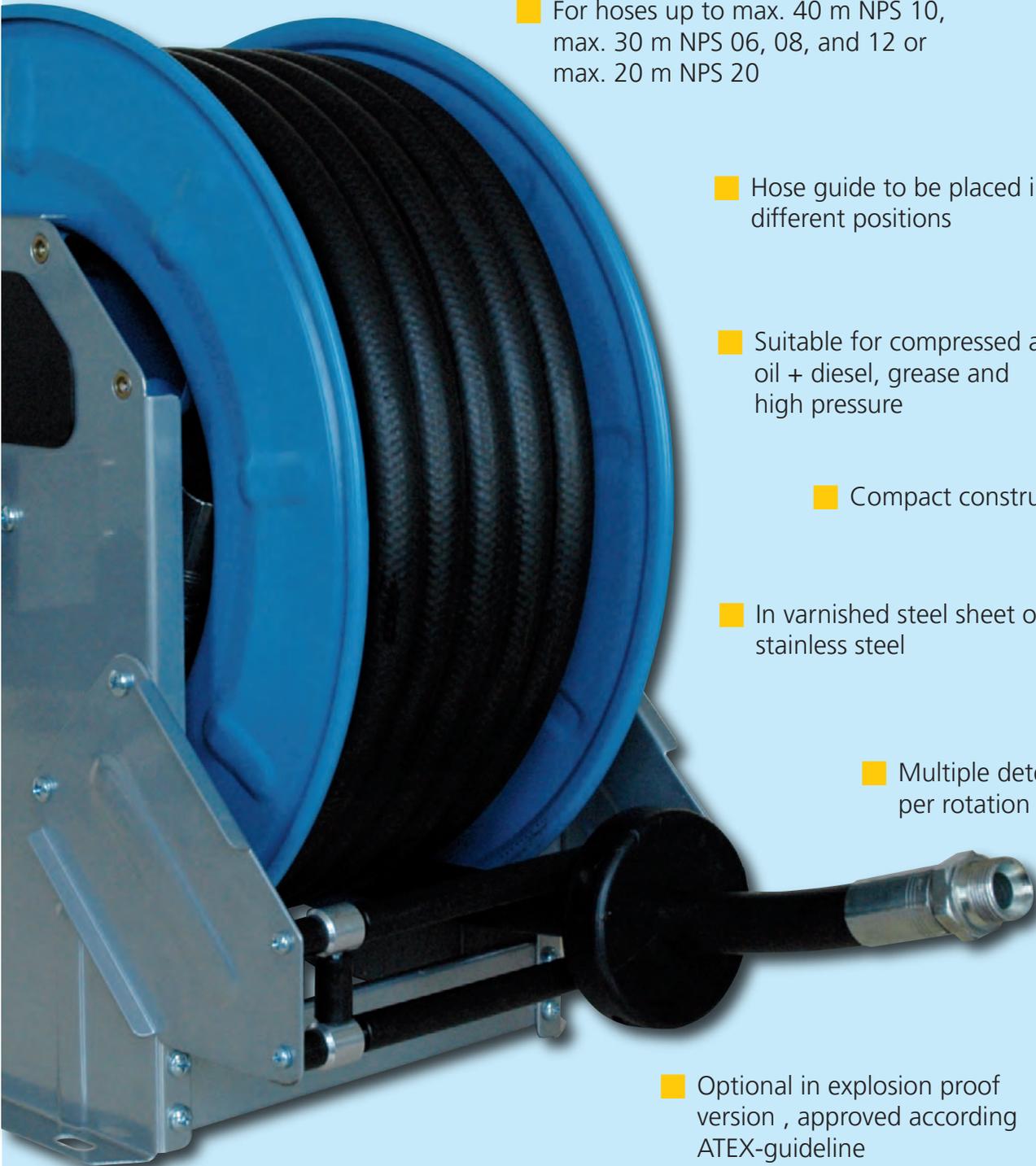


**RAPID**  
**SCS**®  
 Safety Control System

SCS is a registered trade mark with an intelligent safety system for spring operated automatic hose reels.

The system limits the retraction speed to an un-hazardous extent and prevents the hose to roll up accidentally uncontrolled and so, avoids damages and injuries.

# TYPE SERIES 5



■ For hoses up to max. 40 m NPS 10, max. 30 m NPS 06, 08, and 12 or max. 20 m NPS 20

■ Hose guide to be placed in different positions

■ Suitable for compressed air, water, oil + diesel, grease and high pressure

■ Compact construction

■ In varnished steel sheet or stainless steel

■ Multiple detents per rotation

■ Optional in explosion proof version, approved according ATEX-guideline

■ Reeling up by retraction spring

# TYPE SERIES 6

- For hoses up to max. 50 m NPS 12 and 25 max. 40 m NPS 20 or max. 20 m NPS 32

- Hose guide to be placed in different positions

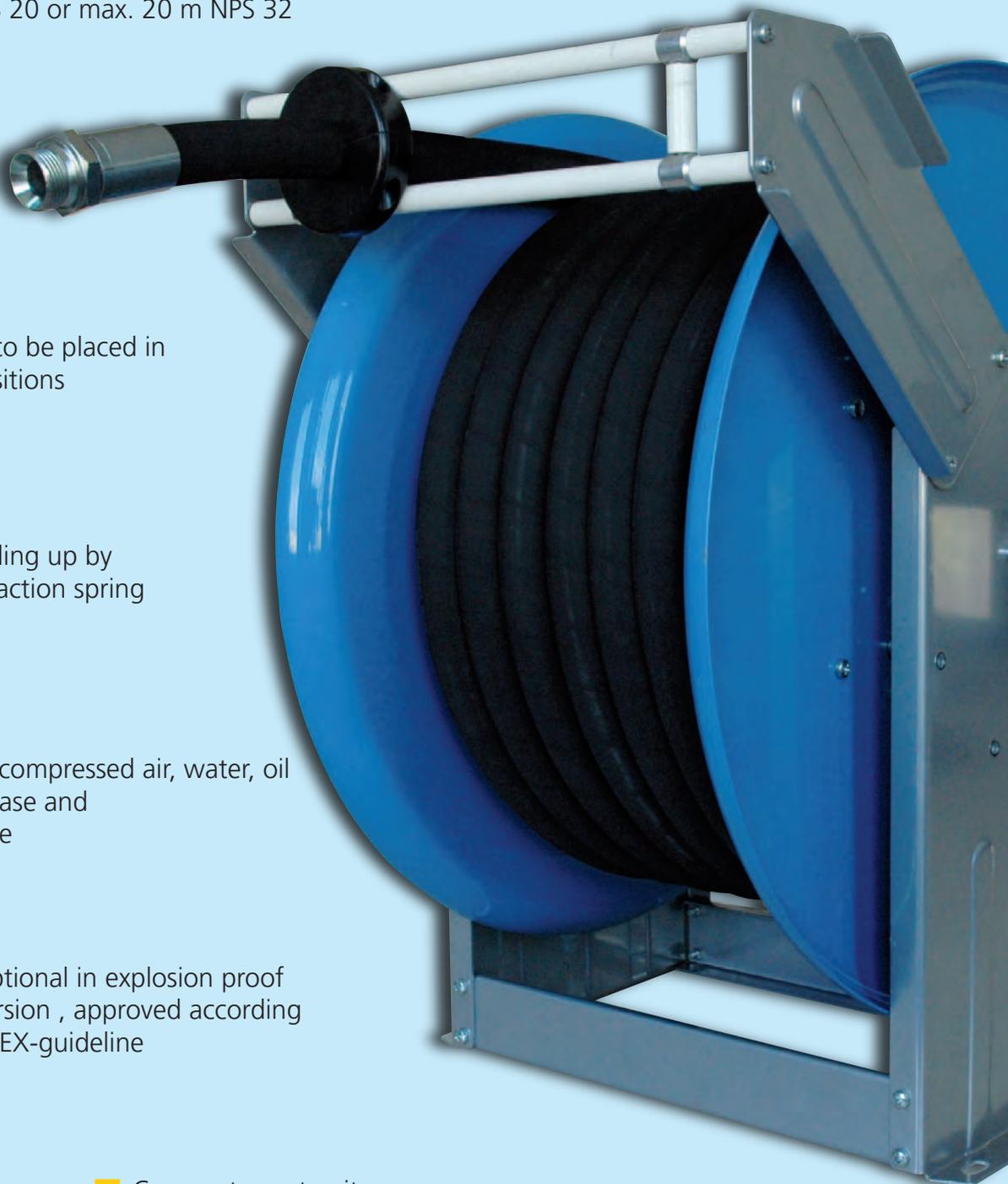
- Reeling up by retraction spring

- Suitable for compressed air, water, oil + diesel, grease and high pressure

- Optional in explosion proof version , approved according ATEX-guideline

- Compact construction

- Multiple detents per rotation



# TYPE SERIES 9

- Incl. hoses up to max. 20 m  
NPS 10 and 12 or max.  
10 m NPS 16

- In open and closed construction available

- Small construction

- Suitable for compressed air, water, oil + diesel, grease and high pressure industrial gases, vacuum, hydraulics, AdBlue as well as hygienic areas

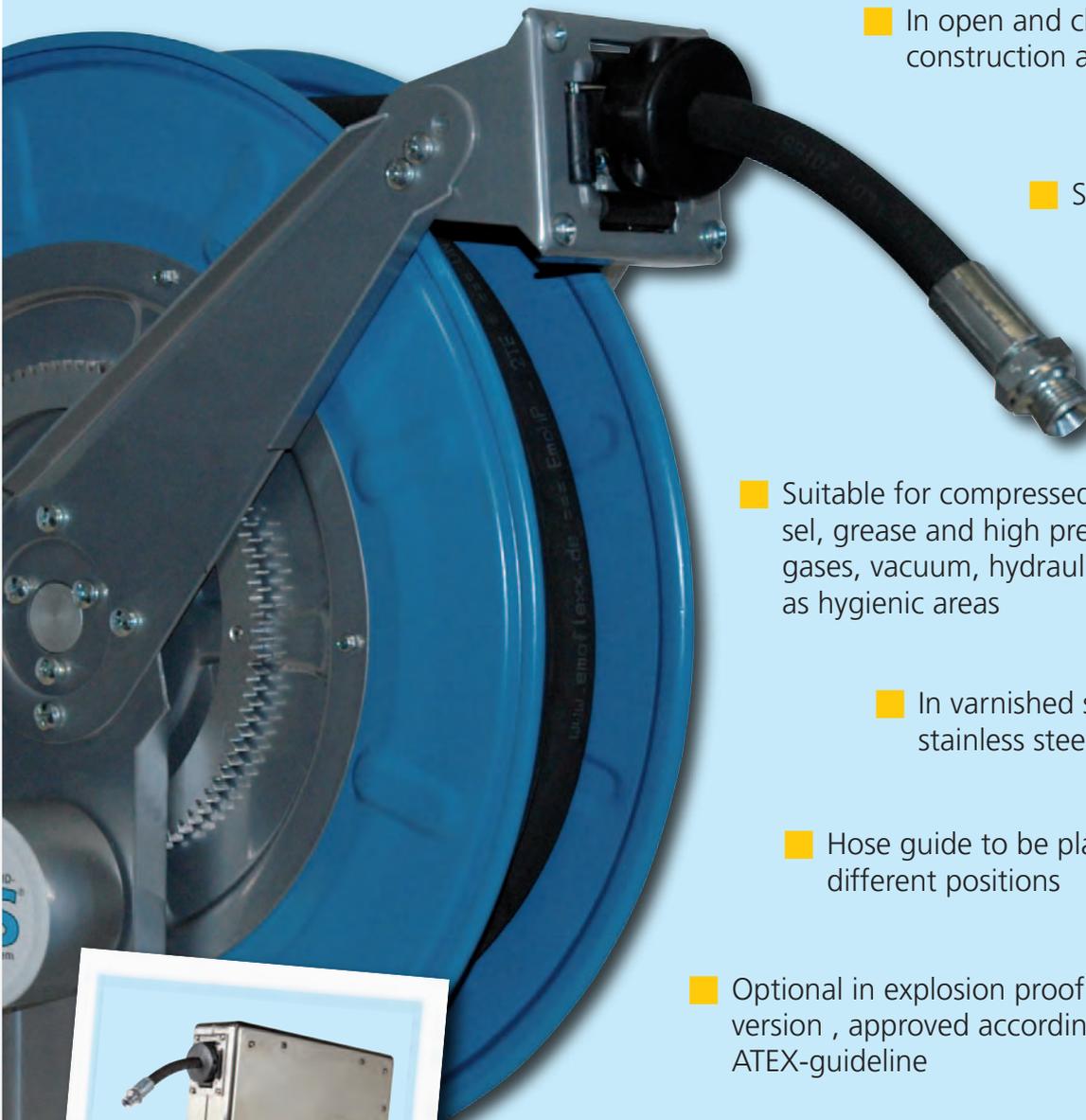
- In varnished steel sheet or stainless steel

- Hose guide to be placed in different positions

- Optional in explosion proof version, approved according ATEX-guideline

- Optional with Rapid-SCS<sup>®</sup>

- Reeling up by retraction spring



*closed version*

**RAPID**  
**SCS**<sup>®</sup>  
Safety Control System

SCS is a registered trade mark with an intelligent safety system for spring operated automatic hose reels.

The system limits the retraction speed to an un-hazardous extent and prevents the hose to roll up accidentally uncontrolled and so, avoids damages and injuries.

# TYPE SERIES 9-154

■ For hoses up to  
max. 25 m NPS 12, max. 20 m  
NPS 20 or max. 15 m NPS 25

■ Suitable for compressed air, water, oil  
+ diesel, high pressure as well as hy-  
gienic areas

■ Hose guide to be placed in  
different positions

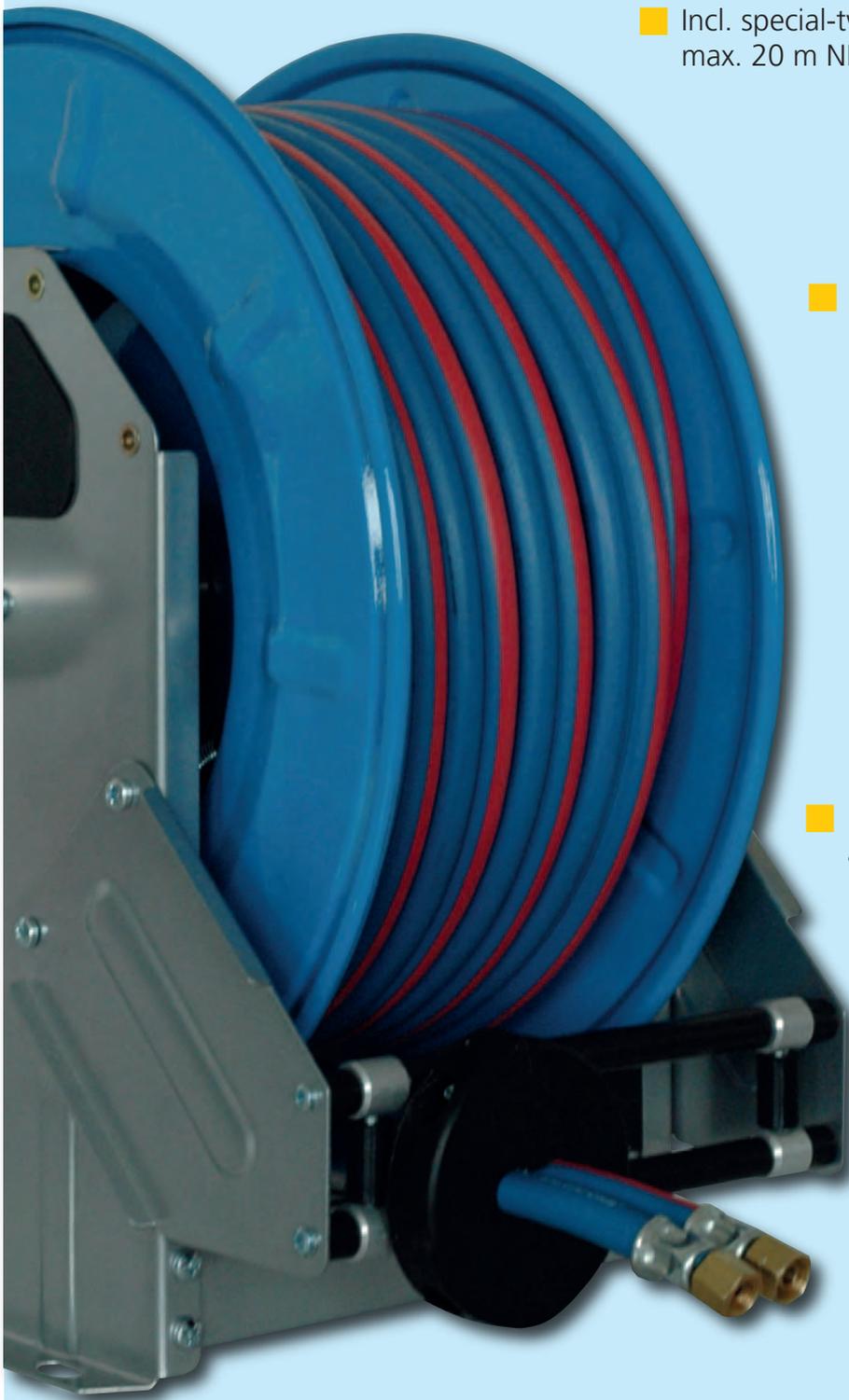
■ Reeling up by  
retraction spring

■ Small construction

■ In varnished steel sheet or  
stainless steel



# TYPE SERIES



■ Incl. special-twin hose up to max. 20 m NPS 06/09 to DIN 8541

■ Suitable for industrial gases

■ Reeling up by retraction spring

■ Media input on the left and right side

■ In varnished steel sheet

# TYPE SERIES 8

■ For hoses up to max. 30 m NPS 08 or max. 50 m NPS 12, NPS 20 and NPS 25

■ Optional with base or hose cart

■ Reeling up manually by crank

■ Suitable for compressed air, water, oil + diesel and high pressure

■ In varnished steel sheet or stainless steel



*Version with hose cart*



### Series 0 – 230 V~

- Automatic cable reel made out of PVC
- Protective system of the cable drum is IP 24
- Completely insulated, **overheating protection**
- With release spring and collector ring
- Incl. swivelling mounting bracket
- Detent can be disconnected
- **Incl. 5+1 m cable**, 1,5 mm<sup>2</sup>, safty plug and safty socket, 230 V~

Model	m	Cable	part no.	EUR/piece
0.06.05	5+1	H05VV-F3G 1,5	00 010	<b>154,16</b>



### Series 0 – 230 V~

- Automatic cable reel made out of PVC
- Protective system of the cable drum is IP 24
- Completely insulated, **overheating protection**
- With release spring and collector ring
- Incl. swivelling mounting bracket
- Detent can be disconnected
- **Incl. 10 m cable**, 1,5 mm<sup>2</sup>, safty plug and safty socket, 230 V~
- Optional: Rapid-SCS® - controlled reeling technology

Model	part no.	EUR/piece
Rapid-SCS Aufpreis BR 0	00 598	<b>65,61</b>

Model	m	Cable	part no.	EUR/piece
0.10.05	10	H05VV-F3G 1,5	00 001	<b>178,06</b>



### Series 0 – 230 V~

- Automatic cable reel made out of PVC
- Protective system of the cable drum is IP 24
- Completely insulated, **overheating protection**
- With release spring and collector ring
- Incl. swivelling mounting bracket
- Detent can be disconnected
- **Incl. 15 m cable**, 1,5 mm<sup>2</sup>, safty plug and safty socket, 230 V~
- Optional: Rapid-SCS® - controlled reeling technology

Model	part no.	EUR/piece
Rapid-SCS Aufpreis BR 0	00 599	<b>65,61</b>

Model	m	Cable	part no.	EUR/piece
0.15.05	15	H05VV-F3G 1,5	00 002	<b>201,96</b>



### Series 0 – 230 V~

- Automatic cable reel made out of PVC
- Protective system of the cable drum is IP 24
- Completely insulated, **overheating protection**
- With release spring and collector ring
- Incl. swivelling mounting bracket
- **Incl. 25 m cable 1,5 mm<sup>2</sup> or 20 m cable 2,5 mm<sup>2</sup>**, safty plug and safty socket, 230 V~
- Optional: Rapid-SCS® - controlled reeling technology

Model	part no.	EUR/piece
Rapid-SCS Aufpreis BR 0	00 596	<b>89,51</b>

Model	m	Cable	part no.	EUR/piece
0.25.05	25	H05VV-F3G 1,5	00 003	<b>333,41</b>
0.20.05	20	H07RN-F3G 2,5	00 013	<b>536,56</b>



### Series 0 – 230 V~

- Automatic cable reel made out of PVC
- Protective system of the cable drum is IP 24
- Completely insulated, **overheating protection**
- With release spring and collector ring
- Incl. swivelling mounting bracket
- **Incl. 35 m cable**, 1,5 mm<sup>2</sup>, safty plug and safty socket, 230 V~

Model	m	Cable	part no.	EUR/piece
0.35.05	35	H05VV-F3G 1,5	00 012	<b>381,21</b>



## Series 0 – 400 V~

- Automatic cable reel made out of PVC
- Protective system of the cable drum is IP 24
- Completely insulated, **overheating protection**
- With release spring and collector ring
- Incl. swivelling mouting bracket
- Incl. 10 m cable**, 1,5 mm<sup>2</sup>, CEE plug and CEE socket, 400 V~
- Optional: Rapid-SCS®** - controlled reeling technology

Model	part no.	EUR/piece
Rapid-SCS Aufpreis BR 0	00 597	<b>65,61</b>

Model	m	Cable	part no.	EUR/piece
0.10.07	10	H07RN-F5G 1,5	00 007	<b>417,06</b>



## Series 0 – 400 V~

- Automatic cable reel made out of PVC
- Protective system of the cable drum is IP 24
- Completely insulated, **overheating protection**
- With release spring and collector ring
- Incl. swivelling mouting bracket
- Incl. 20 m cable**, 1,5 mm<sup>2</sup> or **15 m cable** 2,5 mm<sup>2</sup>
- CEE plug and CEE socket, 400 V~
- Optional: Rapid-SCS®** - controlled reeling technology

Model	part no.	EUR/piece
Rapid-SCS Aufpreis BR 0	00 596	<b>89,51</b>

Model	m	Cable	part no.	EUR/piece
0.20.07	20	H07RN-F5G 1,5	00 004	<b>560,46</b>
0.15.07	15	H07RN-F5G 2,5	00 014	<b>656,06</b>



## Series 0 – 400 V~

- Automatic cable reel made out of PVC
- Protective system of the cable drum is IP 24
- Completely insulated, **overheating protection**
- With release spring and collector ring
- Incl. swivelling mouting bracket
- Incl. 30 m Cable**, 1,5 mm<sup>2</sup>, CEE plug and CEE socket, 400 V~

Model	m	Cable	part no.	EUR/piece
0.30.07	30	H07RN-F5G 1,5	00 011	<b>656,06</b>



## Series 0 – with earthing clip

- Automatic cable reel made out of PVC with earthing clip
- Protective system of the cable drum is IP 24
- With release spring and collector ring
- Incl. swivelling mouting bracket
- Incl. 15 m Cable**, Clamp and earthing clip, 230 V~
- Optional: Rapid-SCS®** - controlled reeling technology

Model	part no.	EUR/piece
Rapid-SCS Aufpreis BR 0	00 598	<b>65,61</b>

Model	m	Cable	part no.	EUR/piece
0.15.06-K	15	H07V-K 1G 6 mm <sup>2</sup>	00 050	<b>512,66</b>



## Series 0 – for battery charging

- Automatic cable reel, aluminum housing
- Connection to battery charger, to make battery charging easier
- For tradition batteries the user can replace the delivered clamps by proper connection
- IP Code 42, fully insulated
- Spring driven, slip ring
- Incl. swivelling mounting bracket
- Incl. cable (30 A, 48 V)** with battery clamps 230 V
- Optional: Rapid-SCS®** - controlled reeling technology

Model	m	Cable	part no.	EUR/piece
Rapid-SCS* Aufpreis BR 1	01	597	01 597	<b>65,61</b>

Model	m	Cable	part no.	EUR/piece
0.06.16-B	6	H05W-F 2G 16 mm <sup>2</sup>	00 052	<b>644,11</b>
0.09.16-B	9	H05W-F 2G 16 mm <sup>2</sup>	00 053	<b>895,06</b>

\* Just suitable for model 0.06.16-B



## Series 0 – with flashlight

- Automatic cable reel made out of PVC
- Protective system of the cable drum is IP 24
- Completely insulated, **overheating protection**
- With release spring and collector ring
- Incl. swivelling mouting bracket
- Detent can be disconnected
- Incl. 15 m cable**, safety plug and **flashlight (L)** in 230 V~ or (L 24) in 24 V~
- Optional: Rapid-SCS®** - controlled reeling technology

Model	part no.	EUR/piece
Rapid-SCS Aufpreis BR 0	00 599	<b>65,61</b>

Modell	m	Cable	part no.	EUR/piece
0.15.05-L*	15	H05VV-F2G 1,0	00 006	<b>237,81</b>
0.15.05-L 24*	15	H05VV-F2G 1,0	00 009	<b>285,61</b>

\* Delivery with 11 W energy saving lamp (lamp) ± 60 W



**Hose reel with warning ribbon**

- Automatic hose reel plastic housing for sign posting areas
- Multiple detent per round
- Fitted with 6 or 20 m warning ribbon 50 mm (width) red/white and stopper
- red/white for moving sources of danger
- **Optional:** Set of 3 pcs. mounting magnets type MM 30-3, for variable application

Model	m	part no.	EUR/piece
1.20.BA-R	20, red/white	01 080	<b>249,76</b>

Type	part no.	EUR/piece
MM 30-3 Montagemagnete	01 523	<b>29,76</b>

**Replacement banderole**

Type	part no.	EUR/m
BA-RW banderole, red/white	01 519	<b>3,95</b>



**Hose reel with warning ribbon**

- Automatic hose reel plastic housing for sign posting areas
- Multiple detent per round
- Fitted with 20 m warning ribbon 50 mm (width) yellow/black and stopper
- yellow/black for stationary sources of danger
- **Optional:** Set of 3 pcs. mounting magnets type MM 30-3, for variable application

Model	m	part no.	EUR/piece
1.20.BA-G	20, yellow/black	01 082	<b>249,76</b>

Type	part no.	EUR/piece
MM 30-3 Montagemagnete	01 523	<b>29,76</b>

**Replacement banderole**

Type	part no.	EUR/m
BA-SG banderole, yel./black	01 527	<b>3,95</b>



**Hose reel with warning ribbon**

- Automatic hose reel plastic housing, with increased shut-off effect due to serpentine tape guide
- Multiple detent per round
- Fitted with 10 m warning ribbon 50 mm (width) red/white
- Ideal for maintenance work, police, rescue and towing vehicles, theft protection, temporary cordoning off of zones, demarcation of access areas, access restrictions, etc.
- **Optional:** Set of 3 pcs. mounting magnets type MM 30-3, for variable application

Model	m	part no.	EUR/piece
1.10.BA-RS	20, red/white	01 083	<b>322,15</b>

Type	part no.	EUR/piece
MM 30-3 Montagemagnete	01 523	<b>29,76</b>



**Hose reel with barrier chain**

- Automatic hose reel aluminum die cast with zinc coated roller guide for sign posting areas
- Multiple detent per round
- Fitted with 20 m chain red/white and stopper
- **Optional: Rapid-SCS®** - controlled reeling technology

Model	part no.	EUR/piece
Rapid-SCS Aufpreis BR 3	03 599	<b>130,26</b>

Model	m	part no.	EUR/piece
3.20.GK-R	20, red/white	03 080	<b>321,46</b>



**Hose reel with barrier chain**

- Automatic hose reel aluminum die cast with zinc coated roller guide for sign posting areas
- Multiple detent per round
- Fitted with 20 m chain yellow/black and stopper
- **Optional: Rapid-SCS®** - controlled reeling technology

Model	part no.	EUR/piece
Rapid-SCS Aufpreis BR 3	03 599	<b>130,26</b>

Model	m	part no.	EUR/piece
3.20.GK-G	20, yellow/black	03 081	<b>321,46</b>

**Wussten Sie ...**

**dass Stürze die häufigste Unfallursache in Betrieben sind?**

**AKTION: SICHERER AUFTRITT**

Eine Initiative Ihrer Berufsgenossenschaften



## Series 1 - for hot water

- Automatic hose reel, stainless steel
- Multiple detents per round
- For washes with water and cleanser, Also suitable for cold water and compressed air
- Incl. LPU-hose**, NPS 08 or NPS 10 and buffer
- Max pressure 20 bar(25°C) / 10 bar (70°C)
- Incl. swivelling mounting bracket
- Incl. 1 m flexible connection

Model	m	NPS	part no.	EUR/piece
1.05.08-HW/E	5	08	01 013	<b>249,76</b>
1.03.10-HW/E	3	10	01 014	<b>249,76</b>



## Series 1 - for hot water

- Automatic hose reel, stainless steel
- Multiple detents per round
- For washes with water and cleanser, Also suitable for cold water and compressed air
- Incl. LPU-hose**, NPS 08 or NPS 10 and buffer
- Max pressure 20 bar(25°C) / 10 bar (70°C)
- Incl. swivelling mounting bracket
- Incl. 1 m flexible connection
- Optional: Rapid-SCS®** - controlled reeling technology

Model		part no.	EUR/piece
Rapid-SCS/E	Aufpreis BR 1-HW	01 595	<b>130,26</b>

Model	m	NPS	part no.	EUR/piece
1.15.08-HW/E	15	08	01 015	<b>357,31</b>
1.12.10-HW/E	12	10	01 016	<b>357,31</b>



## Series 0 - with LAN-Cable

- Automatic cable reel plastic case
- With LAN cable (LAN-CAT 5e)
- Protection class IP 24, entirely insulated
- With automatic spring rewind and slip ring
- Incl. Swivelling mounting bracket
- Incl. 15 m LAN cable**, 2 A
- Optional: Rapid-SCS®** - controlled reeling technology

Model		part no.	EUR/piece
Rapid-SCS	Aufpreis BR 0	00 598	<b>65,61</b>

Model	m	Cable	part no.	EUR/piece
0.15.LAN	15	4x (2x0,15) mm <sup>2</sup>	00 054	<b>811,41</b>



## Series 0 - for battery charging

- Automatic cable reel, aluminum housing
- Connection to battery charger, to make battery charging easier
- For tradition batteries the user can replace the delivered clamps by proper connection
- IP Code 42, fully insulated
- Spring driven, slip ring
- Incl. swivelling mounting bracket
- Incl. cable (30 A, 48 V)** with **battery clamps** 230 V
- Optional: Rapid-SCS®** - controlled reeling technology

Model		part no.	EUR/piece
Rapid-SCS	Aufpreis BR 1	01 597	<b>65,61</b>

Model	m	Cable	part no.	EUR/piece
0.06.16-B/1	6	H05W-F 2G 16 mm <sup>2</sup>	00 052	<b>644,11</b>



## Series 0 - for battery charging

- Automatic cable reel, aluminum housing
- Connection to battery charger, to make battery charging easier
- For tradition batteries the user can replace the delivered clamps by proper connection
- IP Code 42, fully insulated
- Spring driven, slip ring
- Incl. swivelling mounting bracket
- Incl. cable (30 A, 48 V)** with **battery clamps** 230 V

Modell	m	Kabel	part no.	EUR/piece
0.09.16-B	9	H05W-F 2G 16 mm <sup>2</sup>	00 053	<b>895,06</b>



## Series 0 - with earthing clip

- Automatic cable reel made out of PVC with earthing clip
- Protective system of the cable drum is IP 24
- With release spring and collector ring
- Incl. swivelling mouting bracket
- Incl. 15 m Cable, Clamp and earthing clip**, 230 V~
- Optional: Rapid-SCS®** - controlled reeling technology

Model		part no.	EUR/piece
Rapid-SCS	Aufpreis BR 0	00 598	<b>65,61</b>

Model	m	Cable	part no.	EUR/piece
0.15.06-K	15	H07V-K 1G 6 mm <sup>2</sup>	00 050	<b>512,66</b>



### Series 1

- Automatic cable reel made out of PVC
- Detent can be disconnected
- Multiple detent per round
- **Incl. 5+1 m PU-hose**, NPS 06 and buffer
- Pressure max. 10 bar
- Incl. swivelling mouting bracket
- Incl. 1 m connection hose

Model	m	NPS	part no.	EUR/piece
1.06.06	5+1	06	01 006	<b>130,26</b>



### Series 1

- Automatic cable reel made out of PVC
- Multiple detent per round
- **Incl. PU-hose**, NPS 06 or DN 08 and buffer
- Pressure max. 10 bar
- Incl. swivelling mouting bracket
- Incl. 1 m connection hose
- **Optional: Rapid-SCS®** - controlled reeling technology

Model	m	NPS	part no.	EUR/piece
Rapid-SCS	Aufpreis BR 1		01 599	<b>65,61</b>

Model	m	NPS	part no.	EUR/piece
1.08.08	8	08	01 001	<b>166,11</b>
1.12.06	12	06	01 007	<b>166,11</b>



### Series 1

- Automatic cable reel made out of PVC
- Multiple detent per round
- **Incl. PU-hose**, NPS 06, NPS 08 or and buffer
- Pressure max. 10 bar
- Incl. swivelling mouting bracket
- Incl. patentiertem Auslaufenster
- Incl. 1 m connection hose
- **Optional: Rapid-SCS®** - controlled reeling technology

Model	m	NPS	part no.	EUR/piece
Rapid-SCS	Aufpreis BR 1		01 597	<b>65,61</b>

Model	m	NPS	part no.	EUR/piece
1.12.08	12	08	01 004	<b>213,91</b>
1.15.06	15	06	01 008	<b>213,91</b>



### Series 1

- Automatic cable reel made out of PVC
- Multiple detent per round
- **Incl. PU-hose**, NPS 08 or NPS 10 and buffer
- Pressure max. 10 bar
- Incl. swivelling mouting bracket
- Incl. 1 m connection hose
- **Optional: Rapid-SCS®** - controlled reeling technology

Model	m	NPS	part no.	EUR/piece
Rapid-SCS	Aufpreis BR 1		01 596	<b>89,51</b>

Model	m	NPS	part no.	EUR/piece
1.15.08	15	08	01 002	<b>256,93</b>
1.15.10	15	10	01 010	<b>321,46</b>



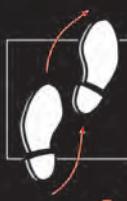
### Series 1

- Automatic cable reel made out of PVC
- Multiple detent per round
- **Incl. PU-hose**, NPS 10 or NPS 12 and buffer
- Pressure max. 10 bar
- Incl. swivelling mouting bracket
- Incl. 1 m connection hose
- **Optional: Rapid-SCS®** - controlled reeling technology

Model	m	NPS	part no.	EUR/piece
1.20.10	20	10	01 011	<b>345,36</b>
1.15.12	15	12	01 012	<b>369,26</b>

## Wussten Sie ...

dass Stürze die häufigste Unfallursache in Betrieben sind?



**AKTION: SICHERER AUFTRITT**

www.sicherer-auftritt.de  
06-Infoline: 01805/18 80 88  
Eine Initiative Ihrer Berufsgenossenschaften



## Series 2

- Automatic hose reel, varnished version, partly galvanized, self-supporting
- Fix outlet window with PVC rollers
- Multiple detent per round
- **Incl. 30 m Special-PVC-hose**, DN 10 and Buffer
- Max. pressure 15 bar / 20° C
- No assembly required, portable

Model	m	NPS	part no.	EUR/piece
2.30.10	30	10	02 002	<b>381,21</b>



## Series 3

- Automatic hose reel, cast aluminium drum with swivelling outlet stirrup
- Multiple detent per round
- **Incl. Special-PVC-hose**, NPS 10 or NPS 12 and buffer
- **Incl. quick release coupling**
- Max. pressure 15 bar / 20° C
- **Optional: Rapid-SCS®** - controlled reeling technology

Model	part no.	EUR/piece
Rapid-SCS Aufpreis BR 3	03 599	<b>130,26</b>

Model	m	NPS	part no.	EUR/piece
3.12.10/1	12	10	03 007	<b>304,73</b>
3.20.10/1	20	10	03 009	<b>364,48</b>
3.08.12/1	8	12	03 025	<b>321,46</b>
3.15.12/1	15	12	03 026	<b>376,43</b>



## Series 3

- Autom. hose reel cast aluminum drum with swivelling outlet stirrup
- Multiple detent per round
- **Incl. special flex hose** DN 10 and stopper
- Pressure max. 15 bar
- **Incl. quick release coupling**
- **Optional Rapid-SCS®** - controlled reeling technology

Model	part no.	EUR/piece
Rapid-SCS Aufpreis BR 3	03 599	<b>130,26</b>

Model	m	NPS	part no.	EUR/piece
3.10.10-Flex	10	10	03 030	<b>352,53</b>
3.15.10-Flex	15	10	03 031	<b>436,18</b>



## Series 3

- Automatic hose reel, cast aluminium drum with swivelling outlet stirrup
- Multiple detent per round
- **Incl. rubber hose** 1 TE, NPS 08 or NPS 10 and buffer
- **Incl. quick release coupling**
- Max. pressure 20 bar / 20° C
- **Optional: Rapid-SCS®** - controlled reeling technology

Model	part no.	EUR/piece
Rapid-SCS Aufpreis BR 3	03 599	<b>130,26</b>

Model	m	NPS	part no.	EUR/piece
3.10.08-TE/1	10	08	03 050	<b>321,46</b>
3.20.08-TE/1	20	08	03 051	<b>405,11</b>
3.10.10-TE/1	10	10	03 052	<b>328,63</b>
3.15.10-TE/1	15	10	03 053	<b>400,33</b>



## Series 4

- Automatic hose reel, cast aluminium drum
- Base made out of galvanised steel
- Outlet window with PVC rollers
- Multiple detent per round
- Incl. Special-PVC-hose**, NPS 10 or NPS 12 and buffer
- Incl. quick release coupling**
- Max. pressure 15 bar / 20° C
- Optional: Rapid-SCS®** - controlled reeling technology

Model		part no.	EUR/piece
Rapid-SCS	Aufpreis BR 4	04 599	<b>166,11</b>

Model	m	NPS	part no.	EUR/piece
4.10.10/1	10	10	04 007	<b>381,21</b>
4.20.10/1	20	10	04 009	<b>429,01</b>
4.08.12/1	8	12	04 023	<b>381,21</b>
4.15.12/1	15	12	04 024	<b>429,01</b>



## Series 4

- Automatic hose reel, cast aluminium drum
- Base made out of galvanised steel
- Outlet window with PVC rollers
- Multiple detent per round
- Incl. special flex hose** DN 10 and stopper
- Pressure max. 15 bar
- Incl. quick release coupling**
- Optional Rapid SCS®** - Controlled reeling technology

Model		part no.	EUR/piece
Rapid-SCS	Aufpreis BR 4	04 599	<b>166,11</b>

Model	m	NPS	part no.	EUR/piece
4.10.10-Flex	10	10	04 028	<b>429,01</b>
4.15.10-Flex	15	10	04 029	<b>512,66</b>



## Series 4

- Automatic hose reel, cast aluminium drum
- Base made out of galvanised steel
- Outlet window with PVC rollers
- Multiple detent per round
- Incl. rubber hose** 1 TE, NPS 08 or NPS 10 and buffer
- Incl. quick release coupling**
- Max. pressure 20 bar / 20° C
- Optional: Rapid-SCS®** - controlled reeling technology

Model		part no.	EUR/piece
Rapid-SCS	Aufpreis BR 4	04 599	<b>166,11</b>

Model	m	NPS	part no.	EUR/piece
4.10.08-TE/1	10	08	04 050	<b>393,16</b>
4.20.08-TE/1	20	08	04 051	<b>464,86</b>
4.10.10-TE/1	10	10	04 052	<b>405,11</b>
4.15.10-TE/1	15	10	04 053	<b>464,86</b>



## Series 9

- Automatic hose reel, varnished version, partly galvanized
- Variable Outlet window with PVC rollers
- Multiple detent per round
- Incl. PU-hose**, NPS 10 or NPS 12 and buffer
- Incl. quick release coupling**
- Max. pressure 15 bar / 20° C
- Optional: Rapid-SCS®** - controlled reeling technology

Model		part no.	EUR/piece
Rapid-SCS	Aufpreis BR 9	09 599	<b>166,11</b>

Model	m	NPS	part no.	EUR/piece
9.12.10-PU/2	12	10	09 130	<b>381,21</b>
9.20.10-PU/2	20	10	09 131	<b>500,71</b>
9.10.12-PU/2	10	12	09 132	<b>381,21</b>
9.20.12-PU/2	20	12	09 133	<b>500,71</b>



## Series 9/E

- Automatic hose reel, entirely made out of stainless steel (E)
- Variable Outlet window with PVC rollers
- Multiple detent per round
- Incl. PU-hose**, NPS 10 or NPS 12 and buffer
- Incl. quick release coupling**
- Max. pressure 15 bar / 20° C
- Optional: Rapid-SCS®** - controlled reeling technology

Model		part no.	EUR/piece
Rapid-SCS/E	Aufpreis BR 9/E	09 598	<b>213,91</b>

Model	m	NPS	part no.	EUR/piece
9.12.10-PU/E/3	12	10	09 134	<b>500,71</b>
9.20.10-PU/E/3	20	10	09 135	<b>632,16</b>
9.10.12-PU/E/3	10	12	09 136	<b>500,71</b>
9.20.12-PU/E/3	20	12	09 137	<b>632,16</b>



## Series 9

- Automatic hose reel, varnished version, partly galvanized
- Variable Outlet window with PVC rollers
- Multiple detent per round
- Incl. special flex hose** DN 10 and stopper
- Incl. quick release coupling**
- Max. pressure 15 bar
- Optional: Rapid-SCS®** - controlled reeling technology

Model		part no.	EUR/piece
Rapid-SCS	Aufpreis BR 9	09 599	<b>166,11</b>

Model	m	DN	part no.	EUR/piece
9.12.10-Flex/2	12	10	09 138	<b>417,06</b>
9.20.10-Flex/2	20	10	09 139	<b>572,41</b>



## Series 4 – G

- Automatic hose reel, cast aluminium drum
- Identical with Series 4, but:
- Enclosed version with PVC-cover (G)
- Incl. special-PVC-hose**, NPS 10 or NPS 12 and buffer
- Incl. quick release coupling**
- Max. pressure 15 bar / 20° C
- Optional: Rapid-SCS®** - controlled reeling technology

Model		part no.	EUR/piece
Rapid-SCS	Aufpreis BR4-G	04 599	<b>166,11</b>

Model	m	NPS	part no.	EUR/piece
4.20.10-G/1	20	10	04 019	<b>500,71</b>
4.15.12-G/1	15	12	04 026	<b>500,71</b>



## Series 4 – G

- Automatic hose reel, cast aluminium drum
- Identical with Series 4, but:
- Enclosed version with PVC-cover (G)
- Incl. special flex hose** DN 10 and stopper
- Pressure max. 15 bar
- Incl. quick release coupling**
- Optional Rapid SCS** - Controlled reeling technology

Model		part no.	EUR/piece
Rapid-SCS	Aufpreis BR4-G	04 599	<b>166,11</b>

Model	m	NPS	part no.	EUR/piece
4.15.10-G-Flex	15	10	04 031	<b>584,36</b>



## Series 4 – G

- Automatic hose reel, cast aluminium drum
- Identical with Series 4, but:
- Enclosed version with PVC-cover (G)
- Incl. rubber hose** 1 TE, NPS 08 or NPS 10 and buffer
- Incl. quick release coupling**
- Max. pressure 20 bar / 20° C
- Optional: Rapid-SCS®** - controlled reeling technology

Model		part no.	EUR/piece
Rapid-SCS	Aufpreis BR4-G	04 599	<b>166,11</b>

Model	m	NPS	part no.	EUR/piece
4.20.08-TE/G/1	20	08	04 061	<b>536,56</b>
4.15.10-TE/G/1	15	10	04 063	<b>536,56</b>



## Series 9/E

- Automatic hose reel, entirely made out of stainless steel (E)
- Variable Outlet window with PVC rollers
- Multiple detent per round
- Incl. special flex hose** DN 10 and stopper
- Incl. quick release coupling**
- Max. pressure 15 bar
- Optional: Rapid-SCS®** - controlled reeling technology

Model		part no.	EUR/piece
Rapid-SCS/E	Aufpreis BR 9/E	09 598	<b>213,91</b>

Modell	m	DN	part no.	EUR/piece
9.12.10-Flex/E/3	12	10	09 144	<b>548,51</b>
9.20.10-Flex/E/3	20	10	09 145	<b>703,86</b>



## Series 9

- Automatic hose reel, varnished version, partly galvanized
- Variable Outlet window with PVC rollers
- Multiple detent per round
- Incl. rubber hose** 1 TE, NPS 08 or NPS 10 and buffer
- Incl. quick release coupling**
- Max. pressure 20 bar / 20° C
- Optional: Rapid-SCS®** - controlled reeling technology

Model		part no.	EUR/piece
Rapid-SCS	Aufpreis BR 9	09 599	<b>166,11</b>

Modell	m	DN	part no.	EUR/piece
9.12.10-TE/2	12	10	09 140	<b>417,06</b>
9.20.10-TE/2	20	10	09 141	<b>560,46</b>
9.10.12-TE/2	10	12	09 142	<b>429,01</b>
9.20.12-TE/2	20	12	09 143	<b>560,46</b>



## Series 9/E

- Automatic hose reel, entirely made out of stainless steel (E)
- Variable Outlet window with PVC rollers
- Multiple detent per round
- Incl. rubber hose** 1 TE, NPS 08 or NPS 10 and buffer
- Incl. quick release coupling**
- Max. pressure 20 bar / 20° C
- Optional: Rapid-SCS®** - controlled reeling technology

Model		part no.	EUR/piece
Rapid-SCS/E	Aufpreis BR 9/E	09 598	<b>213,91</b>

Modell	m	DN	part no.	EUR/piece
9.12.10-TE/E/3	12	10	09 146	<b>548,51</b>
9.20.10-TE/E/3	20	10	09 147	<b>715,81</b>
9.10.12-TE/E/3	10	12	09 148	<b>560,46</b>
9.20.12-TE/E/3	20	12	09 149	<b>715,81</b>



## Series 9

- Automatic hose reel, varnished version, partly galvanized
- Variable Outlet window with PVC rollers
- Multiple detent per round
- **Incl. rubber hose** 2 TE, NPS 10, NPS 12 or NPS 16 and buffer
- Max. pressure 50 bar / 60 °C
- **Optional: Rapid-SCS®** - controlled reeling technology

Model		part no.	EUR/piece
Rapid-SCS	Aufpreis BR 9	09 599	<b>166,11</b>

Model	m	NPS	part no.	EUR/piece
9.12.10/2	12	10	09 001	<b>476,81</b>
9.20.10/2	20	10	09 002	<b>644,11</b>
9.10.12/2	10	12	09 003	<b>476,81</b>
9.15.12/2	15	12	09 004	<b>620,21</b>
9.20.12/2	20	12	09 005	<b>644,11</b>
9.10.16/2	10	16	09 007	<b>632,16</b>



## Series 9/E

- Automatic hose reel, entirely made out of stainless steel (E)
- Variable Outlet window with PVC rollers
- Multiple detent per round
- **Incl. rubber hose** 2 TE, NPS 10, NPS 12 or NPS 16 and buffer
- Max. pressure 50 bar / 60 °C
- **Optional: Rapid-SCS®** - controlled reeling technology

Model		part no.	EUR/piece
Rapid-SCS/E	Aufpreis BR 9/E	09 598	<b>213,91</b>

Model	m	NPS	part no.	EUR/piece
9.12.10/E/3	12	10	09 008	<b>608,26</b>
9.20.10/E/3	20	10	09 009	<b>775,56</b>
9.10.12/E/3	10	12	09 010	<b>608,26</b>
9.15.12/E/3	15	12	09 011	<b>751,66</b>
9.20.12/E/3	20	12	09 012	<b>775,56</b>
9.10.16/E/3	10	16	09 014	<b>763,61</b>



## Series 9 – GS

- Automatic hose reel, varnished, closed version (GS)
- Module cover for units (p. 46)
- Outlet window with PVC rollers
- Multiple detent per round
- **Incl. rubber hose** 2 TE, NPS 10, NPS 12 or NPS 16 and buffer,
- Max. pressure 50 bar / 60 °C
- **Optional: Rapid-SCS®** - controlled reeling technology

Model		part no.	EUR/piece
Rapid-SCS	Aufpreis BR 9-GS	09 597	<b>166,11</b>

Model	m	NPS	part no.	EUR/piece
9.12.10-GS/2	12	10	09 045	<b>584,36</b>
9.20.10-GS/2	20	10	09 046	<b>751,66</b>
9.10.12-GS/2	10	12	09 047	<b>584,36</b>
9.15.12-GS/2	15	12	09 048	<b>727,76</b>
9.10.16-GS/2	10	16	09 050	<b>739,71</b>



## Series 9 – GS

- Automatic hose reel, entirely made out of stainless steel (E), closed version (GS)
- Module cover for units (p. 46)
- Outlet window with PVC rollers
- Multiple detent per round
- **Incl. rubber hose**, NPS 12 or NPS 16 and buffer
- Max. pressure 50 bar / 60° C
- **Optional: Rapid-SCS®** - controlled reeling technology

Model		part no.	EUR/piece
Rapid-SCS/E	Aufpreis BR 9-GS/E	09 596	<b>213,91</b>

Model	m	NPS	part no.	EUR/piece
9.12.10-GS/E/1	12	10	09 108	<b>739,71</b>
9.20.10-GS/E/1	20	10	09 109	<b>907,01</b>
9.10.12-GS/E/1	10	12	09 110	<b>739,71</b>
9.15.12-GS/E/1	15	12	09 111	<b>883,11</b>
9.10.16-GS/E/1	10	16	09 113	<b>895,06</b>



## Series 9 – 154

- Automatic hose reel, varnished version
- Very narrow version 360 mm
- Variable Outlet window with PVC rollers
- Multiple detent per round
- Delivery without hose, incl. buffer
- Max. pressure 45 bar

Model	m	NPS	part no.	EUR/piece
9.25.12*	25	12	09 301	<b>1.014,56</b>
9.20.20*	20	20	09 302	<b>1.014,56</b>
9.15.25*	15	25	09 303	<b>1.014,56</b>

Plus freight costs for models series 9-154

49,-



## Series 9 – 154/E

- Automatic hose reel, entirely made out of stainless steel (E)
- Very narrow version 360 mm
- Variable Outlet window with PVC rollers
- Multiple detent per round
- Delivery without hose, incl. buffer
- Max. pressure 45 bar

Model	m	NPS	part no.	EUR/piece
9.25.12/E*	25	12	09 304	<b>1.528,41</b>
9.20.20/E*	20	20	09 305	<b>1.528,41</b>
9.15.25/E*	15	25	09 306	<b>1.528,41</b>

Plus freight costs for models series 9-154

49,-



## Series 5

- Automatic hose reel, varnished version, partly galvanized
- Variable Outlet window with PVC rollers
- Multiple detent per round
- Delivery without hose, incl. buffer
- Max. pressure 50 bar

Model	m	NPS	part no.	EUR/piece
5.40.10/1	40	10	05 010	<b>835,31</b>
5.40.12/1	40	12	05 011	<b>835,31</b>
5.20.16/1	20	16	05 012	<b>835,31</b>
5.30.16/1	30	16	05 013	<b>835,31</b>
5.20.20/1	20	20	05 014	<b>775,56</b>

Plus freight costs for Series 5 models 49,-



## Series 5/E

- Automatic hose reel, entirely made out of stainless steel (E)
- Variable Outlet window with PVC rollers
- Multiple detent per round
- Delivery without hose, incl. buffer
- Max. pressure 50 bar

Model	m	NPS	part no.	EUR/piece
5.40.10/E/1	40	10	05 015	<b>1.146,01</b>
5.40.12/E/1	40	12	05 016	<b>1.146,01</b>
5.20.16/E/1	20	16	05 017	<b>1.146,01</b>
5.30.16/E/1	30	16	05 018	<b>1.146,01</b>
5.20.20/E/1	20	20	05 019	<b>1.074,31</b>

Plus freight costs for Series 5 models 49,-



## Series 6

- Automatic hose reel, varnished version, partly galvanized
- Variable Outlet window with PVC rollers
- Multiple detent per round
- Delivery without hose, incl. buffer
- Max. pressure 40 bar
- Stainless steel version on request

Model	m	NPS	part no.	EUR/piece
6.50.12/1	50	12	06 022	<b>1.432,81</b>
6.30.20/1	30	20	06 004	<b>1.134,06</b>
6.40.20/1	40	20	06 005	<b>1.313,31</b>
6.20.25/1	20	25	06 006	<b>1.014,56</b>
6.30.25/1	30	25	06 007	<b>1.134,06</b>
6.40.25/1	40	25	06 008	<b>1.432,81</b>
6.50.25/1	50	25	06 009	<b>1.552,31</b>
6.20.32/1	20	32	06 010	<b>1.313,31</b>

Plus freight costs for Series 6 models 69,-



## Series 8

- Manual operated (H), drum and base steel sheet varnished with hand crank and lock
- Varnished hose cart (HSW) with sturdy trolley with 4 wheels, 2 of them lockable
- Delivery: with buffer, without hose
- Max. pressure 40 bar

Modell	m	NPS	part no.	EUR/piece
8.20.12-H	20	12	08 011	<b>321,46</b>
8.50.10-H	50	10	08 001	<b>715,81</b>
8.50.12-H	50	12	08 002	<b>775,56</b>
8.50.20-H	50	20	08 003	<b>775,56</b>
8.50.25-H	50	25	08 004	<b>895,06</b>
8.80.12-HE	80	12	08 020	<b>1.134,06</b>
8.50.20-HE	50	20	08 021	<b>1.134,06</b>
8.40.25-HE	40	25	08 022	<b>1.313,31</b>

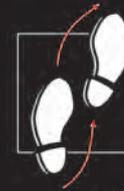
Plus freight costs for Series 8-H models 49,-

Plus freight costs for Series 8-HE models 69,-

Further models and measurements on request.

**Wussten Sie ...**

**dass Stürze die häufigste Unfallursache in Betrieben sind?**



**AKTION: SICHERER AUFTRITT**

Ein Initiative Ihrer Berufsgenossenschaften



## Series 1 - Cold water

- Automatic cable reel made out of PVC
- Detent can be disconnected
- Multiple detent per round
- **Incl. PVC-Hose**, NPS 12, buffer and shower
- Max. pressure 6 bar / 20° C
- Incl. Hose guide
- Incl. swivelling mounting bracket
- Incl. 1 m connection hose
- **Incl. Rapid-SCS®** - controlled reeling technology

Model	m	NPS	part no.	EUR/piece
1.20.12-W2-SCS	20	12	01 331	<b>249,76</b>



## Series 3 - W

- Automatic hose reel, cast aluminium drum with swivelling outlet stirrup
- Multiple detent per round
- **Incl. Special-water hose**, NPS 12, buffer, nozzle and safety coupling are made out of brass
- Max. pressure 12 bar / 20° C
- **Optional: Rapid-SCS®** - controlled reeling technology

Model	part no.	EUR/piece
Rapid-SCS Aufpreis BR 3	03 599	<b>130,26</b>

Model	m	NPS	part no.	EUR/piece
3.20.12-W/1	20	12	03 010	<b>345,36</b>



## Series 9

- Automatic hose reel, varnished version, partly galvanized
- Variable Outlet window with PVC rollers
- Multiple detent per round
- **Incl. rubber hose** 2 TE, NPS 10, NPS 12 or NPS 16 and buffer
- Max. pressure 50 bar / 60° C
- **Optional: Rapid-SCS®** - controlled reeling technology

Model	part no.	EUR/piece
Rapid-SCS Aufpreis BR 9	09 599	<b>166,11</b>

Model	m	NPS	part no.	EUR/piece
9.12.10/2	12	10	09 001	<b>476,81</b>
9.20.10/2	20	10	09 002	<b>644,11</b>
9.10.12/2	10	12	09 003	<b>476,81</b>
9.15.12/2	15	12	09 004	<b>620,21</b>
9.20.12/2	20	12	09 005	<b>644,11</b>
9.10.16/2	10	16	09 007	<b>632,16</b>



## Series 9/E

- Automatic hose reel, entirely made out of stainless steel (E)
- Variable Outlet window with PVC rollers
- Multiple detent per round
- **Incl. rubber hose** 2 TE, NPS 10, NPS 12 or NPS 16 and buffer
- Max. pressure 50 bar / 60° C
- **Optional: Rapid-SCS®** - controlled reeling technology

Model	part no.	EUR/piece
Rapid-SCS/E Aufpreis BR 9/E	09 598	<b>213,91</b>

Model	m	NPS	part no.	EUR/piece
9.12.10/E/3	12	10	09 008	<b>608,26</b>
9.20.10/E/3	20	10	09 009	<b>775,56</b>
9.10.12/E/3	10	12	09 010	<b>608,26</b>
9.15.12/E/3	15	12	09 011	<b>751,66</b>
9.20.12/E/3	20	12	09 012	<b>775,56</b>
9.10.16/E/3	10	16	09 014	<b>763,61</b>



## Series 9 - GS

- Automatic hose reel, varnished, closed version
- Module cover for units (p. 46)
- Outlet window with PVC rollers
- Multiple detent per round
- **Incl. rubber hose**, NPS 12 or NPS 16 and buffer
- Max. pressure 50 bar / 60° C
- **Optional: Rapid-SCS®** - controlled reeling technology

Model	part no.	EUR/piece
Rapid-SCS Aufpreis BR 9-GS	09 597	<b>166,11</b>

Model	m	NPS	part no.	EUR/piece
9.10.12-GS/2	10	12	09 047	<b>584,36</b>
9.15.12-GS/2	15	12	09 048	<b>727,76</b>
9.10.16-GS/2	10	16	09 050	<b>739,71</b>



## Series 9 - GS/E

- Automatic hose reel, entirely made out of stainless steel (E), closed version (GS)
- Module cover for units (p. 46)
- Outlet window with PVC rollers
- Multiple detent per round
- **Incl. rubber hose**, NPS 12 or NPS 16 and buffer
- Max. pressure 50 bar / 60° C
- **Optional: Rapid-SCS®** - controlled reeling technology

Model	part no.	EUR/piece
Rapid-SCS/E Aufpreis BR 9-GS/E	09 596	<b>213,91</b>

Model	m	NPS	part no.	EUR/piece
9.10.12-GS/E/1	10	12	09 110	<b>739,71</b>
9.15.12-GS/E/1	15	12	09 111	<b>883,11</b>
9.10.16-GS/E/1	10	16	09 113	<b>895,06</b>



**Series 9 – 154**

- Automatic hose reel, varnished version or entirely made out of stainless steel (E)
- Very narrow version 360 mm
- Variable Outlet window with PVC rollers
- Multiple detent per round
- Delivery without hose, incl. buffer
- Max. pressure 45 bar

Model	m	NPS	part no.	EUR/piece
9.25.12*	25	12	09 301	<b>1.014,56</b>
9.20.20*	20	20	09 302	<b>1.014,56</b>
9.15.25*	15	25	09 303	<b>1.014,56</b>
9.25.12/E*	25	12	09 304	<b>1.528,41</b>
9.20.20/E*	20	20	09 305	<b>1.528,41</b>
9.15.25/E*	15	25	09 306	<b>1.528,41</b>

Plus freight costs for models series 9-154

49,-



**Series 5**

- Automatic hose reel, varnished version, partly galvanized
- Variable Outlet window with PVC rollers
- Multiple detent per round
- Delivery without hose, incl. buffer
- Max. pressure 50 bar

Model	m	NPS	part no.	EUR/piece
5.40.10/1	40	10	05 010	<b>835,31</b>
5.40.12/1	40	12	05 011	<b>835,31</b>
5.20.16/1	20	16	05 012	<b>835,31</b>
5.30.16/1	30	16	05 013	<b>835,31</b>
5.20.20/1	20	20	05 014	<b>775,56</b>

Plus freight costs for models series 5

49,-



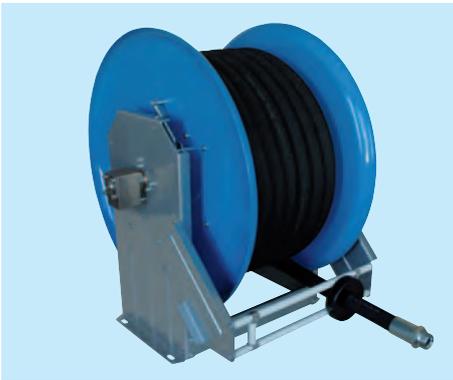
**Series 5/E**

- Automatic hose reel, entirely made out of stainless steel (E)
- Variable Outlet window with PVC rollers
- Multiple detent per round
- Delivery without hose, incl. buffer
- Max. pressure 50 bar

Model	m	NPS	part no.	EUR/piece
5.40.10/E/1	40	10	05 015	<b>1.146,01</b>
5.40.12/E/1	40	12	05 016	<b>1.146,01</b>
5.20.16/E/1	20	16	05 017	<b>1.146,01</b>
5.30.16/E/1	30	16	05 018	<b>1.146,01</b>
5.20.20/E/1	20	20	05 019	<b>1.074,31</b>

Plus freight costs for models series 5

49,-



**Series 6**

- Automatic hose reel, varnished version, partly galvanized
- Variable Outlet window with PVC rollers
- Multiple detent per round
- Delivery without hose, incl. buffer
- Max. pressure 40 bar
- **Stainless steel version on request**

Model	m	NPS	part no.	EUR/piece
6.50.12/1	50	12	06 022	<b>1.432,81</b>
6.30.20/1	30	20	06 004	<b>1.134,06</b>
6.40.20/1	40	20	06 005	<b>1.313,31</b>
6.20.25/1	20	25	06 006	<b>1.014,56</b>
6.30.25/1	30	25	06 007	<b>1.134,06</b>
6.40.25/1	40	25	06 008	<b>1.432,81</b>
6.50.25/1	50	25	06 009	<b>1.552,31</b>
6.20.32/1	20	32	06 010	<b>1.313,31</b>

Plus freight costs for models series 6

69,-



**Series 8**

- Manual operated (H), drum and base steel sheet varnished with hand crank and lock
- Varnished hose cart (HSW) with sturdy trolley with 4 wheels, 2 of them lockable
- Delivery: with buffer, without hose
- Max. pressure 40 bar

Model	m	NPS	part no.	EUR/piece
8.20.12-H	20	12	08 011	<b>321,46</b>
8.50.10-H	50	10	08 001	<b>715,81</b>
8.50.12-H	50	12	08 002	<b>775,56</b>
8.50.20-H	50	20	08 003	<b>775,56</b>
8.50.25-H	50	25	08 004	<b>895,06</b>
8.50.12-HSW	50	12	08 006	<b>1.014,56</b>
8.50.20-HSW	50	20	08 007	<b>1.014,56</b>
8.40.25-HSW	40	25	08 008	<b>1.134,06</b>

Plus freight costs for models series 8

49,-



**Baureihe 8/E**

- Manual operated, drum and base stainless steel
- Hand crank
- Delivery: with buffer, without hose
- Pressure: max. 200 (100)\* bar
- \*please refer to technical data page

Model	m	NPS	part no.	EUR/piece
8.80.12-HE	80	12	08 020	<b>1.134,06</b>
8.50.20-HE	50	20	08 021	<b>1.134,06</b>
8.40.25-HE	40	25	08 022	<b>1.313,31</b>

Plus freight costs for models series 8-HE

49,-

Further models and measurements on request.



## Series 3 and 4

- Automatic hose reel, cast aluminium drum
- Base made out of galvanised steel
- Enclosed version with PVC-cover (G)
- Outlet window with PVC rollers
- Multiple detent per round
- Incl. rubber hose**, NPS 12 and buffer
- Max. pressure 20 bar / 60° C
- Optional: Rapid-SCS®** - controlled reeling technology

Model		part no.	EUR/piece
Rapid-SCS	Aufpreis BR 3	03 599	<b>130,26</b>
Rapid-SCS	Aufpreis BR 4	04 599	<b>166,11</b>

Modell	m	DN	Best.-Nr.	EUR/Stück
3.08.12-0/1	8	12	03 012	<b>393,16</b>
4.08.12-0/1	8	12	04 010	<b>429,01</b>
4.08.12-0/G/1	8	12	04 020	<b>500,71</b>



## Series 9

- Automatic hose reel, varnished version, partly galvanized
- Variable Outlet window with PVC rollers
- Multiple detent per round
- Incl. rubber hose** 2 TE, NPS 10, NPS 12 or NPS 16 and buffer
- Max. pressure 50 bar / 60° C
- Optional: Rapid-SCS®** - controlled reeling technology

Model		part no.	EUR/piece
Rapid-SCS	Aufpreis BR 9	09 599	<b>166,11</b>

Model	m	NPS	part no.	EUR/piece
9.12.10/2	12	10	09 001	<b>476,81</b>
9.20.10/2	20	10	09 002	<b>644,11</b>
9.10.12/2	10	12	09 003	<b>476,81</b>
9.15.12/2	15	12	09 004	<b>620,21</b>
9.20.12/2	20	12	09 005	<b>644,11</b>
9.10.16/2	10	16	09 007	<b>632,16</b>



## Series 9/E

- Automatic hose reel, entirely made out of stainless steel (E)
- Variable Outlet window with PVC rollers
- Multiple detent per round
- Incl. rubber hose** 2 TE, NPS 10, NPS 12 or NPS 16 and buffer
- Max. pressure 50 bar / 60° C
- Optional: Rapid-SCS®** - controlled reeling technology

Model		part no.	EUR/piece
Rapid-SCS/E	Aufpreis BR 9/E	09 598	<b>213,91</b>

Model	m	NPS	part no.	EUR/piece
9.12.10/E/3	12	10	09 008	<b>608,26</b>
9.20.10/E/3	20	10	09 009	<b>775,56</b>
9.10.12/E/3	10	12	09 010	<b>608,26</b>
9.15.12/E/3	15	12	09 011	<b>751,66</b>
9.20.12/E/3	20	12	09 012	<b>775,56</b>
9.10.16/E/3	10	16	09 014	<b>763,61</b>



## Series 9 - GS

- Automatic hose reel, varnished, closed version
- Module cover for units (p. 46)
- Outlet window with PVC rollers
- Multiple detent per round
- Incl. rubber hose**, NPS 12 or NPS 16 and buffer
- Max. pressure 50 bar / 60° C
- Optional: Rapid-SCS®** - controlled reeling technology

Model		part no.	EUR/piece
Rapid-SCS	Aufpreis BR 9-GS	09 597	<b>166,11</b>

Model	m	NPS	part no.	EUR/piece
9.10.12-GS/2	10	12	09 047	<b>584,36</b>
9.15.12-GS/2	15	12	09 048	<b>727,76</b>
9.10.16-GS/2	10	16	09 050	<b>739,71</b>



## Series 9 - GS/E

- Automatic hose reel, entirely made out of stainless steel (E), closed version (GS)
- Module cover for units (p. 46)
- Outlet window with PVC rollers
- Multiple detent per round
- Incl. rubber hose**, NPS 12 or NPS 16 and buffer
- Max. pressure 50 bar / 60° C
- Optional: Rapid-SCS®** - controlled reeling technology

Model		part no.	EUR/piece
Rapid-SCS/E	Aufpreis BR 9-GS/E	09 596	<b>213,91</b>

Model	m	NPS	part no.	EUR/piece
9.10.12-GS/E/1	10	12	09 110	<b>739,71</b>
9.15.12-GS/E/1	15	12	09 111	<b>883,11</b>
9.10.16-GS/E/1	10	16	09 113	<b>895,06</b>



## Series 9 - 154

- Automatic hose reel, varnished version or entirely made out of stainless steel (E)
- Very narrow version 360 mm
- Variable Outlet window with PVC rollers
- Multiple detent per round
- Delivery without hose, incl. buffer
- Max. pressure 45 bar

Model	m	NPS	part no.	EUR/piece
9.25.12*	25	12	09 301	<b>1.014,56</b>
9.20.20*	20	20	09 302	<b>1.014,56</b>
9.15.25*	15	25	09 303	<b>1.014,56</b>
9.25.12/E*	25	12	09 304	<b>1.528,41</b>
9.20.20/E*	20	20	09 305	<b>1.528,41</b>
9.15.25/E*	15	25	09 306	<b>1.528,41</b>

Plus freight costs for models series 9-154

49,-



## Series 5

- Automatic hose reel, varnished version, partly galvanized
- Variable Outlet window with PVC rollers
- Multiple detent per round
- Delivery without hose, incl. buffer
- Max. pressure 50 bar

Model	m	NPS	part no.	EUR/piece
5.40.10/1	40	10	05 010	<b>835,31</b>
5.40.12/1	40	12	05 011	<b>835,31</b>
5.20.16/1	20	16	05 012	<b>835,31</b>
5.30.16/1	30	16	05 013	<b>835,31</b>
5.20.20/1	20	20	05 014	<b>775,56</b>

Plus freight costs for models series 5 49,-



## Series 5/E

- Automatic hose reel, entirely made out of stainless steel (E)
- Variable Outlet window with PVC rollers
- Multiple detent per round
- Delivery without hose, incl. buffer
- Max. pressure 50 bar

Model	m	NPS	part no.	EUR/piece
5.40.10/E/1	40	10	05 015	<b>1.146,01</b>
5.40.12/E/1	40	12	05 016	<b>1.146,01</b>
5.20.16/E/1	20	16	05 017	<b>1.146,01</b>
5.30.16/E/1	30	16	05 018	<b>1.146,01</b>
5.20.20/E/1	20	20	05 019	<b>1.074,31</b>

Plus freight costs for models series 5 49,-



## Series 6

- Automatic hose reel, varnished version, partly galvanized
- Variable Outlet window with PVC rollers
- Multiple detent per round
- Delivery without hose, incl. buffer
- Max. pressure 40 bar
- **Stainless steel version on request**

Model	m	NPS	part no.	EUR/piece
6.50.12/1	50	12	06 022	<b>1.432,81</b>
6.30.20/1	30	20	06 004	<b>1.134,06</b>
6.40.20/1	40	20	06 005	<b>1.313,31</b>
6.20.25/1	20	25	06 006	<b>1.014,56</b>
6.30.25/1	30	25	06 007	<b>1.134,06</b>
6.40.25/1	40	25	06 008	<b>1.432,81</b>
6.50.25/1	50	25	06 009	<b>1.552,31</b>
6.20.32/1	20	32	06 010	<b>1.313,31</b>

Plus freight costs for models series 6 69,-



## Series 8

- Manual operated (H), drum and base steel sheet varnished with hand crank and lock
- Varnished hose cart (HSW) with sturdy trolley with 4 wheels, 2 of them lockable
- Delivery: with buffer, without hose
- Max. pressure 40 bar

Model	m	NPS	part no.	EUR/piece
8.20.12-H	20	12	08 011	<b>321,46</b>
8.50.10-H	50	10	08 001	<b>715,81</b>
8.50.12-H	50	12	08 002	<b>775,56</b>
8.50.20-H	50	20	08 003	<b>775,56</b>
8.50.25-H	50	25	08 004	<b>895,06</b>
8.50.12-HSW	50	12	08 006	<b>1.014,56</b>
8.50.20-HSW	50	20	08 007	<b>1.014,56</b>
8.40.25-HSW	40	25	08 008	<b>1.134,06</b>

Plus freight costs for models series 8 49,-



## Series 8/E

- Manual operated, drum and base stainless steel
- Hand crank
- Delivery: with buffer, without hose
- Pressure: max. 200 (100)\* bar
- \*please refer to technical data page

Model	m	NPS	part no.	EUR/piece
8.80.12-HE	80	12	08 020	<b>1.134,06</b>
8.50.20-HE	50	20	08 021	<b>1.134,06</b>
8.40.25-HE	40	25	08 022	<b>1.313,31</b>

Plus freight costs for models series 8-HE 69,-  
Further models and measurements on request.

# Wussten Sie ...

## dass Stürze die häufigste Unfallursache in Betrieben sind?

AKTION: SICHERER AUFTRITT

www.sicherer-auftritt.de  
BG-Infoline: 01805/18 80 88  
Eine Initiative Ihrer Berufsgenossenschaften



## Series 9

- Automatic hose reel, varnished version, partly galvanized or entirely made out of stainless steel (E)
- Variable Outlet window with PVC rollers
- Multiple detent per round
- Incl. rubber hose 2 SN, NPS 06 and buffer**
- Max. pressure 400 bar
- Optional: Rapid-SCS® - controlled reeling technology**

Model		part no.	EUR/piece
Rapid-SCS	Aufpreis BR 9	09 599	<b>166,11</b>
Rapid-SCS/E	Aufpreis BR 9/E	09 598	<b>213,91</b>

Model	m	NPS	part no.	EUR/piece
9.12.06/2	12	06	09 015	<b>476,81</b>
9.20.06/2	20	06	09 016	<b>644,11</b>
9.12.06/E/3	12	06	09 017	<b>608,26</b>
9.20.06/E/3	20	06	09 018	<b>775,56</b>



## Series 9 - GS

- Automatic hose reel, varnished version or entirely made out of stainless steel (E), closed version (GS)
- Module cover for units (p. 30)
- Outlet window with PVC rollers
- Multiple detent per round
- Incl. rubber hose 2 SN, NPS 06 and buffer**
- Max. pressure 400 bar
- Optional: Rapid-SCS® - controlled reeling technology**

Model		part no.	EUR/piece
Rapid-SCS	Aufpreis BR 9-GS	09 597	<b>166,11</b>
Rapid-SCS/E	Aufpreis BR 9-GS/E	09 596	<b>213,91</b>

Model	m	NPS	part no.	EUR/piece
9.12.06-GS/2	12	06	09 051	<b>584,36</b>
9.20.06-GS/2	20	06	09 052	<b>739,71</b>
9.12.06-GS/E/1	12	06	09 120	<b>739,71</b>
9.20.06-GS/E/1	20	06	09 121	<b>895,06</b>



## Series 5

- Automatic hose reel, varnished version, partly galvanized or entirely made out of stainless steel (E)
- Variable Outlet window with PVC rollers
- Multiple detent per round
- Delivery without hose, incl. buffer
- Max. pressure 400 bar

Model	m	NPS	part no.	EUR/piece
5.30.06/1	30	06	05 032	<b>835,31</b>
5.30.06/E/1	30	06	05 033	<b>1.146,01</b>

Plus freight costs for models series 5

49,-

## Hose Reels For EX-Protection



## Series 9

- Automatic hose reel, varnished version, partly galvanized or entirely made out of stainless steel (E) for EX-protection zone 1, devices group II, cat. 2, Ex-group II A u. II 2B
- Suitable for hoses of NPS 12
- Delivery without hose, incl. buffer
- Max. pressure 40 bar

Model		part no.	EUR/piece
Ex-Schutz	Aufpreis	06 524	<b>352,53</b>

Model	m	NPS	part no.	EUR/piece
9.10.12/2*	10	12	09 202	<b>440,96</b>
9.15.12/2*	15	12	09 203	<b>572,41</b>
9.10.12/E/3*	10	12	09 209	<b>572,41</b>
9.15.12/E/3*	15	12	09 210	<b>823,36</b>

Attention:

Hose reels with Ex-protection are not suitable with Rapid-SCS®, Safety Control System.

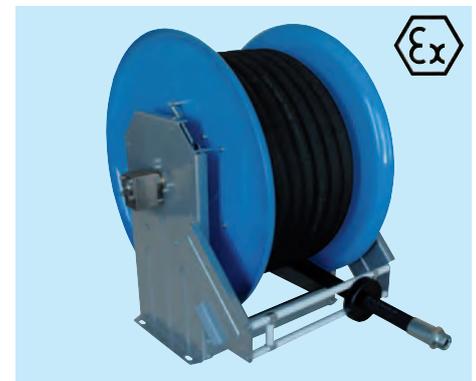


## Series 5

- Automatic hose reel, varnished version, partly galvanized or entirely made out of stainless steel (E) for EX-protection zone 1
- Variable Outlet window with PVC rollers
- Multiple detent per round
- Delivery without hose, incl. buffer
- Max. pressure 50 bar

Model		part no.	EUR/piece
Ex-Schutz	Aufpreis	06 524	<b>352,53</b>

Model	m	NPS	part no.	EUR/piece
5.40.10/1	40	10	05 010	<b>835,31</b>
5.40.12/1	40	12	05 011	<b>835,31</b>
5.20.16/1	20	16	05 012	<b>835,31</b>
5.30.16/1	30	16	05 013	<b>835,31</b>
5.20.20/1	20	20	05 014	<b>774,56</b>
5.40.10/E/1	40	10	05 015	<b>1.146,01</b>
5.40.12/E/1	40	12	05 016	<b>1.146,01</b>
5.20.16/E/1	20	16	05 017	<b>1.146,01</b>
5.30.16/E/1	30	16	05 018	<b>1.146,01</b>
5.20.20/E/1	20	20	05 019	<b>1.074,31</b>



## Series 6

- Automatic hose reel, varnished version, partly galvanized for EX-protection zone 1, devices group II, Kat. 2, Ex-group II A u. II 2B
- Suitable for hoses of NPS 12 - NPS 32
- Variable Outlet window with PVC rollers
- Multiple detent per round
- Delivery without hose, incl. buffer
- Max. pressure 40 bar
- Stainless steel version on request**

Model		part no.	EUR/piece
Ex-Schutz	Aufpreis	06 524	<b>352,53</b>

Model	m	NPS	part no.	EUR/piece
6.50.12/1	50	12	06 022	<b>1.432,81</b>
6.40.20/1	40	20	06 005	<b>1.313,31</b>
6.20.25/1	20	25	06 006	<b>1.014,56</b>
6.30.25/1	30	25	06 007	<b>1.134,06</b>
6.40.25/1	40	25	06 008	<b>1.432,81</b>
6.50.25/1	50	25	06 009	<b>1.552,31</b>
6.20.32/1	20	32	06 010	<b>1.313,31</b>

Plus freight costs for models series 6

69,-



## Series 9

- Automatic hose reel, varnished version, partly galvanized or entirely made out of stainless steel (E)
- Variable Outlet window with PVC rollers
- Multiple detent per round
- Incl. rubber hose** 1SN, NPS 08 and buffer
- Max. pressure 220 bar / 150 °C
- Optional: Rapid-SCS®** - controlled reeling technology

Model		part no.	EUR/piece
Rapid-SCS	Aufpreis BR 9	09 599	<b>166,11</b>
Rapid-SCS/E	Aufpreis BR 9/E	09 598	<b>213,91</b>

Model	m	NPS	part no.	EUR/piece
9.12.08-HD/2	12	08	09 019	<b>500,71</b>
9.20.08-HD/2	20	08	09 020	<b>668,01</b>
9.12.08/E/HD/3	12	08	09 021	<b>632,16</b>
9.20.08/E/HD/3	20	08	09 022	<b>799,46</b>



## Series 9 – GS

- Automatic hose reel, varnished version or entirely made out of stainless steel (E), closed version (GS)
- Module cover for units (p. 38)
- Outlet window with PVC rollers
- Multiple detent per round
- Incl. rubber hose** 1SN, NPS 08 and buffer
- Max. pressure 220 bar / 150 °C
- Optional: Rapid-SCS®** - controlled reeling technology

Model		part no.	EUR/piece
Rapid-SCS	Aufpreis BR 9-GS	09 597	<b>166,11</b>
Rapid-SCS/E	Aufpreis BR 9-GS/E	09 596	<b>213,91</b>

Model	m	NPS	part no.	EUR/piece
9.12.08-GS/HD/2	12	08	09 053	<b>608,26</b>
9.20.08-GS/HD/2	20	08	09 054	<b>668,01</b>
9.12.08-GS/HD/E/1	12	08	09 116	<b>739,71</b>
9.20.08-GS/HD/E/1	20	08	09 117	<b>811,41</b>



## Series 9 – 154

- Automatic hose reel, varnished version or entirely made out of stainless steel (E)
- Very narrow version 360 mm
- Variable Outlet window with PVC rollers
- Multiple detent per round
- Delivery without hose, incl. buffer
- Max. pressure 250 bar / 150 °C

Modell	m	NPS	part no.	EUR/piece
9.25.12-HD/2*	25	12	09 307	<b>1.134,06</b>
9.25.12/E-HD/2* 25	12	09 308	<b>1.671,81</b>	

Plus freight costs for models series 9-154 49,-



## Series 5

- Automatic hose reel, varnished version, partly galvanized or entirely made out of stainless steel (E)
- Variable Outlet window with PVC rollers
- Multiple detent per round
- Delivery without hose, incl. buffer
- Max. pressure 220 bar / 150 °C

Model	m	NPS	part no.	EUR/piece
5.30.08-HD/1	30	08	05 020	<b>835,31</b>
5.40.10-HD/1	40	10	05 021	<b>835,31</b>
5.40.12-HD/1	40	12	05 022	<b>835,31</b>
5.30.08-HD/E/1	30	08	05 023	<b>1.146,01</b>
5.40.10-HD/E/1	40	10	05 024	<b>1.146,01</b>
5.40.12-HD/E/1	40	12	05 025	<b>1.146,01</b>

Plus freight costs for models series 5 49,-

**Wussten Sie ...**

**dass Stürze die häufigste Unfallursache in Betrieben sind?**



**AKTION: SICHERER AUFTRITT**

www.sicherer-auftritt.de  
08-InfoLine: 01805/18 80 88

Eine Initiative Ihrer Berufsgenossenschaften



## Baureihe 8

- Manual operated (H), drum and base steel sheet varnished with hand crank and lock
- Varnished hose cart (HSW) with sturdy trolley with 4 wheels, 2 of them lockable
- Delivery: with buffer, without hose
- Max. pressure 220 bar / 150 °C

Modell	m	NPS	part no.	EUR/piece
8.20.08-HD/H	20	08	08 012	<b>381,21</b>
8.30.08-HD/H	30	08	08 009	<b>417,06</b>
8.50.08-HD/H	50	08	08 010	<b>895,06</b>
8.50.12-HD/HSW	50	12	08 023	<b>1.050,41</b>

Plus freight costs for models series 8 49,-



## Series 3 and 4

- Automatic hose reel for gas e.g. breath air, liquefied gas, acetylene, etc.
- Designed for hose lengths up to 15 m NPS 10, depending on hose diameter
- Delivery: without hose
- Pressure max. 20 bar
- Model 4.15.10-GA with plastic housing
- For special requirements please request
- Optional: Rapid-SCS®** - controlled reeling technology

Model		part no.	EUR/piece
Rapid-SCS	Aufpreis BR 3	03 599	<b>130,26</b>
Rapid-SCS	Aufpreis BR 4	04 599	<b>166,11</b>

Model	m	NPS	part no.	EUR/piece
3.15.10-A/1	15	10	03 011	<b>405,11</b>
4.15.10-GA/1	15	10	04 021	<b>524,61</b>



## Series 9

- Automatic hose reel, varnished version, partly galvanized or complete in stainless steel (E) für gas and oxygen
- Variable Outlet window with PVC rollers
- Connection on both sides
- Incl. special double hose**, NPS 6/6 according to DIN 8541 and buffer
- Max. pressure 20 bar
- Optional: Rapid-SCS®** - controlled reeling technology

Model		part no.	EUR/piece
Rapid-SCS	Aufpreis BR 9	09 599	<b>166,11</b>
Rapid-SCS/E	Aufpreis BR 9/E	09 598	<b>213,91</b>

Model	m	NPS	part no.	EUR/piece
9.10.6/6/2	10	06/06	09 067	<b>500,71</b>
9.15.6/6/2	15	06/06	09 068	<b>656,06</b>



## Baureihe 7

- Automatic hose reel, varnished version, partly galvanized für gas and oxygen
- Outlet window with PVC rollers
- Connection on both sides
- Incl. special double hose**, NPS 6/9 according to DIN 8541 and buffer
- Max. pressure 20 bar

Model	m	NPS	part no.	EUR/piece
7.10.6/9/1	10	06/09	07 001	<b>823,36</b>
7.15.6/9/1	15	06/09	07 002	<b>907,01</b>
7.20.6/9/1	20	06/09	07 003	<b>1.074,31</b>

Plus freight costs for models series 7

49,-

## Hose Reels For Vacuum



## Series 9

- Automatic hose reel, varnished version, partly galvanized or entirely made out of stainless steel (E)
- Variable Outlet window with PVC rollers
- Multiple detent per round
- Incl. 1 SN-rubber hose**, NPS 16 or NPS 20 and buffer
- Max. pressure 50 bar / 60° C
- Optional: Rapid-SCS®** - controlled reeling technology

Model		part no.	EUR/piece
Rapid-SCS	Aufpreis BR 9	09 599	<b>166,11</b>
Rapid-SCS/E	Aufpreis BR 9/E	09 598	<b>213,91</b>

Model	m	NPS	part no.	EUR/piece
9.08.16-V/2	8	16	09 064	<b>584,36</b>
9.08.20-V/2	8	20	09 069	<b>644,11</b>
9.08.16-V/E/3	8	16	09 087	<b>715,81</b>
9.08.20-V/E/3	8	20	09 088	<b>775,56</b>



## Series 9 – GS

- Automatic hose reel, varnished version, partly galvanized (GS) or komplett in stainless steel (GS/E)
- Module cover for units (p. 30)
- Outlet window with PVC rollers
- Multiple detent per round
- Incl. 1 SN-rubber hose**, NPS 16 or NPS 20 and buffer
- Max. pressure 50 bar / 60 °C
- Optional: Rapid-SCS®** - controlled reeling technology

Model		part no.	EUR/piece
Rapid-SCS	Aufpreis BR 9-GS	09 597	<b>166,11</b>
Rapid-SCS/E	Aufpreis BR 9-GS/E	09 596	<b>213,91</b>

Model	m	NPS	part no.	EUR/piece
9.08.16-VGS/2	8	16	09 065	<b>679,96</b>
9.08.20-VGS/2	8	20	09 070	<b>751,66</b>
9.08.16-VGS/E/1	8	16	09 114	<b>835,31</b>
9.08.20-VGS/E/2	8	20	09 115	<b>907,01</b>



## Series 5

- Automatic hose reel, varnished version, partly galvanized or entirely made out of stainless steel (E)
- Variable Outlet window with PVC rollers
- Multiple detent per round
- Incl. 10 m vacuum hose**, DN 20 and stopper
- Max. pressure 12 bar / 90 °C

Model	m	NPS	part no.	EUR/piece
5.10.20-V/1	10	20	05 026	<b>1.146,01</b>
5.10.20-V/E/1	10	20	05 027	<b>1.647,91</b>

Plus freight costs for models series 5

49,-



## Series 9 – HY

- Automatic hose reel steel sheet varnished or entirely stainless steel (E) designed for hydraulic systems
- On request with or without detents per round
- Variable outlet window with PVC rollers
- Incl. fitted twin hose**, NPS 06, 08 or 10
- Inlet and Outlet – 3/8" left and right
- Pressure max. 200 bar
- Optional: Rapid-SCS®** - controlled reeling technology

Model		part no.	EUR/piece
Rapid-SCS	Aufpreis BR 9	09 599	<b>166,11</b>
Rapid-SCS/E	Aufpreis BR 9/E	09 598	<b>213,91</b>

Model	m	NPS	part no.	EUR/piece
9.10.6/6-HY/2	10	06/06	09 100	<b>1.146,01</b>
9.10.8/8-HY/2	10	08/08	09 101	<b>1.193,81</b>
9.10.10/10-HY/2	10	10/10	09 102	<b>1.265,51</b>
9.10.6/6-HY/E/3	10	06/06	09 103	<b>1.612,06</b>
9.10.8/8-HY/E/3	10	08/08	09 104	<b>1.671,81</b>
9.10.10/10-HY/E/3	10	10/10	09 105	<b>1.791,31</b>



## Series 9 – HY2

- Two automatic hose reels fixed on mounting plate steel sheet varnished or entirely stainless steel (E) for hydraulic systems
- On request with or without detents per round
- Variable outlet window with PVC rollers
- Incl. 2 x fitted twin hose**, NPS 12
- Inlet and Outlet – 3/2" left and right
- Pressure max. 200 bar
- Optional: Rapid-SCS®** - controlled reeling technology (Series 9-HY2 needs 2 x Rapid-SCS)

Model		part no.	EUR/piece
Rapid-SCS	Aufpreis BR 9	09 599	<b>166,11</b>

Model	m	NPS	part no.	EUR/piece
9.10.12-HY2/2	10	12	09 106	<b>1.313,31</b>
9.10.12-HY2/E/3	10	12	09 107	<b>1.851,06</b>

Plus freight costs for models of the 9-HY2 series 49,-



## Series 9 – AB

- Automatic hose reel steel sheet varnished for ADBlue
- Parts in contact with fluid made of material No. 1.44571 (V4A)
- Variable outlet window with PVC rollers
- Incl. fitted EPDM hose**, NPS 20
- Hose fittings made of material No. 1.44571 (V4A)
- Pressure max. 10 bar

Model	m	NPS	part no.	EUR/piece
9.08.20-AB	8	20	09 126	<b>567,63</b>
9.15.20-AB	15	20	09 127	<b>806,63</b>

Further models and dimensions on request.

## Hose Reels For Hygienic Areas



## Series 9

- Automatic hose reel steel sheet varnished or entirely stainless steel, open or enclosed (GS) version
- Variable outlet window with PVC rollers
- Multiple detents per round
- incl. fitted vapour hose**, NPS 12 for food industry and for special hygienic requirements, plus buffer
- Max. pressure: water 10 bar, 90°C/ vapour 6 bar, 164°C
- Optional: Rapid-SCS®** - controlled reeling technology

Model		part no.	EUR/piece
Rapid-SCS	Aufpreis BR 9/E	09 598	<b>213,91</b>
Rapid-SCS/E	Aufpreis BR 9-GS/E	09 596	<b>213,91</b>

Model	m	NPS	part no.	EUR/piece
9.08.12-D/E/3	8	12	09 057	<b>775,56</b>
9.12.12-D/E/3	12	12	09 058	<b>1.038,46</b>
9.08.12-DGS/E/3	8	12	09 118	<b>895,06</b>
9.12.12-DGS/E/3	12	12	09 119	<b>1.157,96</b>



## Series 9 – 154

- Automatic hose reel entirely stainless steel
- Variable outlet window with PVC rollers
- Multiple detents per round
- incl. fitted vapour hose**, NPS 20 for food industry and for special hygienic requirements, plus buffer NPS 25
- Max. pressure: water 10 bar, 90°C/ vapour 6 bar, 164°C

Model	m	NPS	part no.	EUR/piece
9.15.20-D/E/1	15	20	09 361	<b>2.329,06</b>
9.10.25-D/E/1	10	25	09 362	<b>2.568,06</b>

Plus freight costs for models series 9-154 49,-

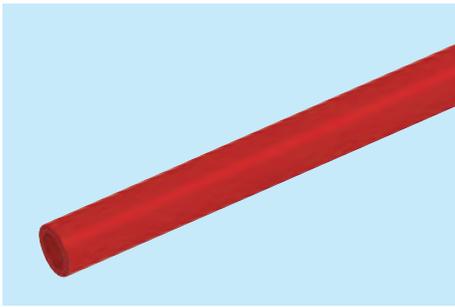


## Series 5/E

- Automatic hose reel entirely stainless steel
- Variable outlet window with PVC rollers
- Multiple detents per round
- incl. fitted vapour hose**, NPS 20 for food industry and for special hygienic requirements, plus buffer
- Max. pressure: water 10 bar, 90°C/ vapour 6 bar, 164°C

Model	m	NPS	part no.	EUR/piece
5.20.12-D/E/1	20	12	05 034	<b>1.827,16</b>
5.30.12-D/E/1	30	12	05 035	<b>2.030,31</b>
5.15.20-D/E/1	15	20	05 036	<b>2.149,81</b>

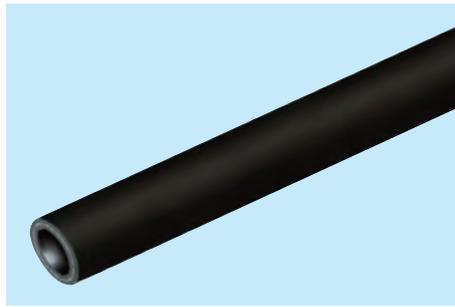
Plus freight costs for Series 5 models 49,-



**Hose for compressed air „RAPID“**

- PVC material, red for BR 3 and BR 4
- With filament reinforcement, length- and crosswise

Model	NPS	pressure	outer-Ø	part no.	EUR/m
LS 08	08	15 bar	14,0	04 519	<b>4,12</b>
LS 10	10	15 bar	15,0	04 503	<b>4,36</b>
LS 12	12	15 bar	17,0	04 518	<b>5,20</b>



**Hose for hydraulics 1 TE**

- for oil water, Diesel, compressed air and similar
- rubber, abrasion-resistant, weather-resistant
- with **one** textile mesh

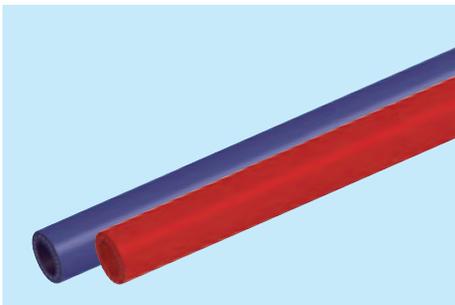
Model	NPS	pressure	outer-Ø	part no.	EUR/m
1 TE 08	08	28 bar	13,9	10 551	<b>6,56</b>
1 TE 10	10	28 bar	15,5	10 552	<b>7,88</b>
1 TE 12	12	28 bar	18,7	10 553	<b>9,19</b>



**Hose for hydraulics 2 TE**

- For oil, water, diesel, compressed air and similar products
- Rubber, constant to abrasion and weather-proof
- With **two** textile meshworks, according to EN 854

Model	NPS	pressure	outer-Ø	part no.	EUR/m
2 TE 06	06	75 bar	13,4	10 502	<b>7,88</b>
2 TE 10	10	63 bar	16,5	10 503	<b>8,95</b>
2 TE 12	12	58 bar	19,7	10 504	<b>9,79</b>
2 TE 16	16	50 bar	23,9	10 505	<b>11,22</b>
2 TE 20	20	45 bar	27,0	10 506	<b>13,13</b>
2 TE 25	25	40 bar	34,4	10 507	<b>19,71</b>
2 TE 32	32	35 bar	41,0	10 508	<b>39,42</b>



**Hose for compressed air\***

- PU material, blue for Series 1 (Type LB)
- PU material, red for Series 9 (Type LR)

Model	NPS	pressure	outer-Ø	part no.	EUR/m
LB 06	06	10 bar	13,0	01 504	<b>4,12</b>
LB 08	08	10 bar	14,0	01 505	<b>4,60</b>
LB 10	10	10 bar	15,0	01 506	<b>5,08</b>
LB 12	12	10 bar	18,0	01 522	<b>5,56</b>
LR 10	10	10 bar	15,0	01 516	<b>5,32</b>
LR 12	12	10 bar	18,0	01 517	<b>5,80</b>

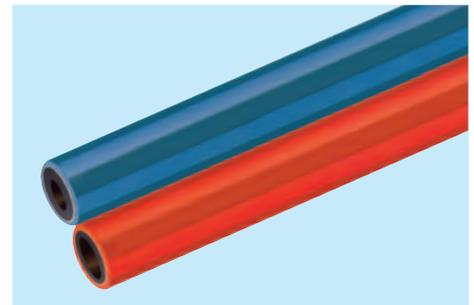
\* Use fittings A LS



**Hose for dairy steam**

- Special rubber quality according to BgVV, references XX1, KAT.2 and FDA tested and approved
- Coating blue, core light, food constant
- Water max. 10 bar, 90° C / steam 6 bar, 164 °C

Model	NPS	pressure	outer-Ø	part no.	EUR/m
FOOD 12	12	10 bar	23,5	10 538	<b>20,90</b>
FOOD 20	20	10 bar	31,0	10 539	<b>32,85</b>
FOOD 25	25	10 bar	39,0	10 540	<b>48,51</b>



**Duo-hose**

- For acetylene-oxygen, blue-red, according to DIN 8541 / EN 559

Model	NPS	pressure	outer-Ø	part no.	EUR/m
Duo 6/6	06/06	20 bar	14/14	07 504	11,83
Duo 6/9	06/09	20 bar	14/16	07 503	<b>13,03</b>
Duo 9/9	09/09	20 bar	16/16	07 505	<b>14,22</b>



**Flex – hose**

- Flex material yellow for series 3 and 4
- No hose memory
- Textile inlay

Model	NPS	pressure	outer-Ø	part no.	EUR/m
FS 10	10	15 bar	14,0	03 545	<b>5,86</b>



**Hose for gas and breathing air (Ex)**

- For Airpacks: Standard EN 14593 and EN 14594, physiological harmless
- Coating EPDM / black, core NBR (light)

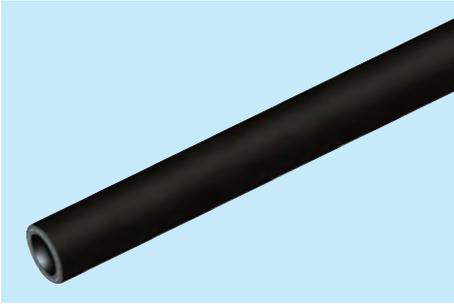
Model	NPS	pressure	outer-Ø	part no.	EUR/m
LS 10 A	10	10 bar	19,0	09 554	<b>17,81</b>



**Hose for water „TriX“**

- Cold and hot water
- EPDM, black / red
- Max. 15 bar / -40° C bis +80° C

Model	NPS	pressure	outer-Ø	part no.	EUR/m
TRIX 12	12	15 bar	20,0	10 534	<b>12,54</b>
TRIX 16	16	15 bar	23,6	10 535	<b>13,85</b>
TRIX 20	20	15 bar	27,0	10 536	<b>15,16</b>
TRIX 25	25	15 bar	34,0	10 537	<b>25,68</b>



### High pressure hose\*

- With **one** steel mesh, black abrasion-resistant
- Also in grey (G) for areas with strict hygiene requirements
- Max. 250 bar /150°C

Model	NPS	pressure	outer-Ø	part no.	EUR/m
1SN 08-HD	08	250 bar	15,0	05 502	<b>9,55</b>
1SN 08-HD/G	08	250 bar	15,0	05 512	<b>10,50</b>
1SN 10-HD	10	250 bar	17,4	05 515	<b>10,74</b>
1SN 10-HD/G	10	250 bar	17,4	05 516	<b>11,82</b>
1SN 12-HD	12	200 bar	20,6	05 517	<b>13,13</b>
1SN 12-HD/G	12	200 bar	20,6	05 518	<b>14,33</b>

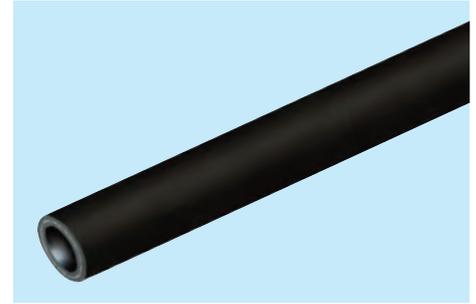
\* Recommended to use reinforcement type A 1 SN-HD



### Impulse resistant hose 1 SN

- For oil, water, diesel, compressed air and similar products
- Rubber, constant to abrasion and weather-proof
- With **one** steel wire meshwork, according to EN 853

Model	NPS	pressure	outer-Ø	part no.	EUR/m
1 SN 06	06	225 bar	13,4	10 523	<b>10,50</b>
1 SN 10	10	180 bar	17,4	10 524	<b>11,82</b>
1 SN 12	12	160 bar	20,6	10 525	<b>13,13</b>
1 SN 16	16	130 bar	23,7	10 526	<b>14,45</b>
1 SN 20	20	105 bar	28,0	10 527	<b>19,71</b>
1 SN 25	25	88 bar	35,6	10 528	<b>Request</b>
1 SN 32	32	63 bar	43,5	10 529	<b>Request</b>



### Hose for AdBlue\*

- For AdBlue and similar products
- Spezial hose material, EPDM
- Inner layer free of flexibiliser

Model	NPS	pressure	outer-Ø	part no.	EUR/m
ABS 20	20	10 bar	26,5	10 549	<b>13,01</b>

\* Recommended to use reinforcement type A 2 TE

Model	NPS	pressure	outer-Ø	part no.	EUR/m
ABS 20 S	20	10 bar	30,0	10 550	<b>26,16</b>

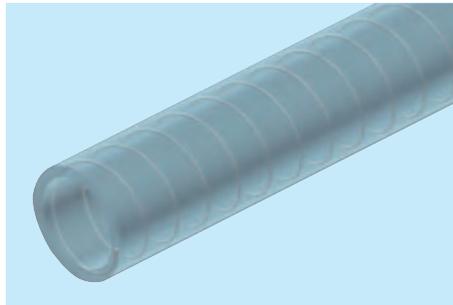
ABS 20 S = suction hose



### Hose for grease 2 SN - NPS 06

- With **two** steel wire meshworks, black
- Working pressure 400 bar according to EN 853

Model	NPS	pressure	outer-Ø	part no.	EUR/m
2 SN 06	06	400 bar	15,0	60 523	<b>10,46</b>



### Hose for vacuum

- Suction hose for oils, water, anti-freeze for coolers, etc.
- PVC up to +65° C (VACU),
- PVC/PU up to +90° C (VACU AO)

Model	NPS	pressure	outer-Ø	part no.	EUR/m
VACU 12	12	16 bar	18,0	08 500	<b>16,13</b>
VACU 16	16	14 bar	23,0	08 501	<b>20,32</b>
VACU 20	20	12 bar	27,0	08 502	<b>25,69</b>
VACU 25	25	9 bar	33,6	08 503	<b>29,28</b>
VACU 32	32	7 bar	41,0	08 504	<b>32,86</b>
VACU 16 AO	16	14 bar	23,0	08 505	<b>20,32</b>
VACU 20 AO	20	12 bar	27,0	08 506	<b>25,69</b>



### Compressed air hose, electric conductive (Ex)

- Outside NBR, abrasion-resistant
- electric conductive, R < 10<sup>6</sup> ohm
- fair oil resistance

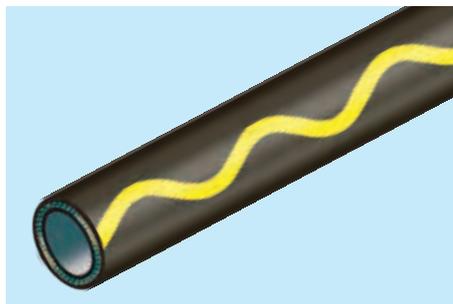
Model	NPS	pressure	outer-Ø	part no.	EUR/m
DL-E 08	08	20 bar	18,0	10 554	<b>13,01</b>
DL-E 10	10	20 bar	20,0	10 555	<b>16,96</b>
DL-E 12	12	20 bar	23,0	10 556	<b>23,53</b>



### Gas hose

- For oxy-fuel and liquid gas according to DIN 51622, as well as propane/butane, natural gas, DMF, MPS, LPG
- Blake, without pores, smooth NBR inside

Model	NPS	pressure	outer-Ø	part no.	EUR/m
LS 10 G	10	20 bar	16,0	10 558	<b>16,96</b>



### High performance water hose\*

- Temperature resistant from -30°C up to +100°C, operation pressure up to 30 bar
- Blake, without pores, smooth EPDM inside
- Kink, and pressure resistant

Model	NPS	pressure	outer-Ø	part no.	EUR/m
HLW 12	12	30 bar	20,8	10 565	<b>19,71</b>
HLW 16	16	25 bar	23,2	10 566	<b>23,89</b>
HLW 20	20	25 bar	27,8	10 567	<b>29,86</b>
HLW 25	25	20 bar	34,0	10 568	<b>39,42</b>
HLW 32	32	12 bar	43,0	10 569	<b>65,71</b>

\* minimum quantity 40 m



### Multipurpose, electrical conductive (EX)

- For mineral oils, kerosene, leaded petrol water, saline solutions, light acids
- With pressure resistant fabric inlets, black
- Electrical conductive, R < 10<sup>6</sup> Ohm

Model	NPS	pressure	outer-Ø	part no.	EUR/m
GL-E 12	12	20 bar	21,0	10 541	<b>27,35</b>
GL-E 16	16	20 bar	25,0	10 542	<b>32,13</b>
GL-E 20	20	20 bar	29,0	10 543	<b>35,72</b>
GL-E 25	25	20 bar	36,0	10 544	<b>41,69</b>
GL-E 32	32	20 bar	44,0	10 545	<b>Request</b>



### Flexible Connection Air for Series 3

- 1 m length, NPS 10, reinforced on both sides BSP 3/8" female/male
- Flexible connection for hose reels series 3
- PVC-hose (PVC), PU hose (PU) Flex Hose (Flex) 1 TE hose (1TE)

Type	NPS	Pressure	part no.	EUR/piece
LVS 01.10-PVC	10	15 bar	20 741	<b>17,33</b>
LVS 01.10-PU	10	15 bar	20 742	<b>18,52</b>
LVS 01.10-Flex	10	15 bar	20 743	<b>21,51</b>
LVS 01.10-1TE	10	20 bar	20 744	<b>25,10</b>



### Flexible Connection Air for Series 3, 4 and 9

- 1 m length, NPS 10, reinforced on both sides BSP 1/2" female/male
- Flexible connection for hose reels series 3, 34 and 9
- PVC hose (PVC), PU hose (PU) Flex hose (Flex) 1 TE hose (1TE), 2 TE hose (2TE), 1 SN hose (1SN)

Type	NPS	Pressure	part no.	EUR/piece
LVS 01.12-PVC	12	15 bar	20 745	<b>21,51</b>
LVS 01.12-PU	12	15 bar	20 746	<b>22,71</b>
LVS 01.12-1TE	12	20 bar	20 747	<b>26,89</b>
LVS 01.12-2TE	12	58 bar	20 748	<b>41,23</b>
LVS 01.12-1SN	12	160 bar	20 749	<b>43,62</b>



### Hose Connection Sets for Series 3 and 4

- Consisting of 2x reinforcement incl. pipe bend and buffer
- For replacement hose of hose reels series 3 and 4

Type	description	part no.	EUR/piece
Set-A LS 08	Für Aufroller mit Schläuchen DN 08 (max. 15 bar)	03 538	<b>39,32</b>
Set-A LS 10	Für Aufroller mit Schläuchen DN 10 (max. 15 bar)	03 539	<b>41,71</b>
Set-A LS 12	Für Aufroller mit Schläuchen DN 12 (max. 15 bar)	03 541	<b>44,10</b>
Set-A 1TE 08	Für Aufroller mit Schläuchen DN 08 (max. 20 bar)	03 547	<b>47,68</b>
Set-A 1TE 10	Für Aufroller mit Schläuchen DN 10 (max. 20 bar)	03 548	<b>47,68</b>
Set-A 2TE 12	Für Aufroller mit Schläuchen DN 12 (max. 20 bar)	03 540	<b>65,61</b>



### Reinforcement for replacement hoses

#### Reinforcement for replacement hoses (2 x per hose, galvanized steel)

- galvanized steel, pressure is shown in the table

Type	NPS	Pressure	part no.	EUR/piece
A LS 08	08	15 bar	03 509	<b>9,44</b>
A LS 10	10	15 bar	03 502	<b>9,44</b>
A LS 12	12	15 bar	03 536	<b>9,44</b>
A 1 TE 08	08	28 bar	09 582	<b>11,83</b>
A 1 TE 10	10	28 bar	09 585	<b>15,42</b>
A 1 TE 12	12	28 bar	09 590	<b>17,81</b>
A Duo 6/9	06/09	20 bar	07 500	<b>41,71</b>
A Duo 6/6	06/06	20 bar	07 501	<b>41,71</b>
A Duo 9/9	09/09	20 bar	07 502	<b>41,71</b>
A 2 TE 06	06	75 bar	09 507	<b>27,37</b>
A 2 TE 10	10	63 bar	09 508	<b>27,37</b>
A 2 TE 12	12	58 bar	09 509	<b>29,76</b>
A 2 TE 16	16	50 bar	09 510	<b>35,73</b>
A 2 TE 20	20	45 bar	06 502	<b>35,73</b>
A 2 TE 25	25	40 bar	06 503	<b>41,71</b>
A 2 TE 32	32	35 bar	06 504	<b>54,85</b>
A 1 SN 06	06	225 bar	09 571	<b>29,76</b>
A 1 SN 08-HD	08	220 bar	09 506	<b>41,71</b>
A 1 SN 10-HD	10	220 bar	09 592	<b>44,10</b>
A 1 SN 12-HD	12	220 bar	09 593	<b>46,49</b>
A 1 SN 10	10	180 bar	09 572	<b>29,76</b>
A 1 SN 12	12	160 bar	09 573	<b>33,34</b>
A 1 SN 16	16	130 bar	09 574	<b>35,73</b>
A 1 SN 20	20	105 bar	06 525	<b>35,73</b>
A 1 SN 25	25	88 bar	06 526	<b>42,90</b>
A 1 SN 32	32	63 bar	06 527	<b>53,66</b>
A 2 SN 06	06	400 bar	09 511	<b>40,51</b>
A FOOD 12	12	10 bar	06 537	<b>29,76</b>
A FOOD 20	20	10 bar	06 538	<b>35,73</b>
A FOOD 25	25	10 bar	06 539	<b>41,71</b>
A TRIX 12	12	15 bar	06 533	<b>29,76</b>
A TRIX 16	16	15 bar	06 534	<b>35,73</b>
A TRIX 20	20	15 bar	06 535	<b>35,73</b>
A TRIX 25	25	15 bar	06 536	<b>41,71</b>
A HLW 12	12	30 bar	06 567	<b>29,76</b>
A HLW 16	16	25 bar	06 568	<b>35,73</b>
A HLW 20	20	25 bar	06 569	<b>35,73</b>
A HLW 25	25	20 bar	06 570	<b>41,71</b>
A HLW 32	32	12 bar	06 571	<b>52,46</b>
A DL-E 08	08	25 bar	03 510	<b>14,22</b>
A DL-E 10	10	25 bar	03 511	<b>14,22</b>
A DL-E 12	12	25 bar	03 512	<b>14,22</b>
A DL-E 20	20	25 bar	03 525	<b>16,61</b>
A GL-E 12	12	20 bar	06 528	<b>29,76</b>
A GL-E 16	16	20 bar	06 529	<b>35,73</b>
A GL-E 20	20	20 bar	06 530	<b>35,73</b>
A GL-E 25	25	20 bar	06 531	<b>41,71</b>
A GL-E 32	32	20 bar	06 532	<b>53,66</b>
A LS 10 A	10	10 bar	09 555	<b>20,20</b>
A LS 10 G	10	10 bar	06 572	<b>17,81</b>

#### Reinforcement for replacement hoses (2 x per hose, galvanized steel)

- stainless steel (E), pressure is shown in the table

Type	NPS	Pressure	part no.	EUR/piece
A UNI 10/E	10	20 bar	06 540	<b>64,41</b>
A UNI 12/E	12	20 bar	06 541	<b>88,31</b>
A UNI 16/E	16	20 bar	06 542	<b>112,21</b>
A UNI 20/E	20	20 bar	06 543	<b>131,33</b>
A UNI 25/E	25	20 bar	06 544	<b>167,18</b>

#### Please note:

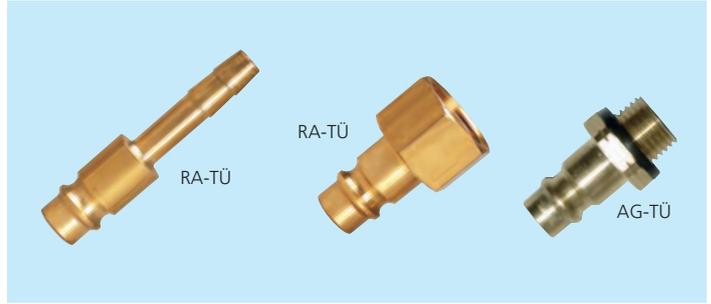
We also gladly supply the suitable connecting hoses with the desired length to you .



## Hose Set "Air" + "Water"

- PVC material red, length 20 m or flex-hose, yellow, length 20 m
- With longitudinally and transverse wiring
- Incl. safty coupling and plug nipple

Model	NPS	Pressure	Length	part no.	EUR/piece
LS 08/20	08	15 bar	20 m	04 521	<b>51,27</b>
LS 10/20	10	15 bar	20 m	04 522	<b>59,63</b>
LS 12/20	12	15 bar	20 m	04 523	<b>64,41</b>
FS 10/12	10	15 bar	12 m	04 527	<b>64,41</b>
FS 10/20	10	15 bar	20 m	04 525	<b>103,85</b>
FS 12/15	12	15 bar	15 m	04 528	<b>103,85</b>
WS 12/20	12	10 bar	20 m	01 520	<b>26,17</b>



## Plug - in sleeve

- Plug-in sleeve brass, hose connection

Type	description	part no.	EUR/piece
RA-TÜ 6	6 mm Schlauchanschluss	75 037	<b>2,39</b>
RA-TÜ 9	9 mm Schlauchanschluss	75 038	<b>2,63</b>
RA-TÜ 13	13 mm Schlauchanschluss	75 039	<b>2,99</b>
RA-TÜ 1/4"	1/4" IG	75 083	<b>3,23</b>
RA-TÜ 3/8"	3/8" IG	75 084	<b>3,47</b>
RA-TÜ 1/2"	1/2" IG	75 036	<b>4,06</b>
AG-TÜ 1/4"	1/4" AG	75 085	<b>3,23</b>
AG-TÜ 3/8"	3/8" AG	75 086	<b>3,47</b>
AG-TÜ 1/2"	1/2" AG	75 087	<b>4,06</b>



## Double nipple

- Double nipple from NPS 06 up to NPS 50

Type	description	part no.	EUR/piece
DN 06	DN 06, 1/4" AG / 60°	20 621	<b>5,38</b>
DN 10	DN 10, 3/8" AG / 60°	20 622	<b>6,57</b>
DN 12	DN 12, 1/2" AG / 60°	20 623	<b>10,16</b>
DN 20	DN 20, 3/4" AG / 60°	20 624	<b>11,35</b>
DN 25	DN 25, 1" AG / 60°	20 625	<b>26,17</b>
DN 32	DN 32, 1 1/4" AG / 60°	20 626	<b>39,32</b>
DN 50	DN 50, 2" AG	20 627	<b>53,66</b>



## Reduction nipple

- Reduction nipple from NPS 06 up to NPS 32

Type	description	part no.	EUR/piece
RN 10-06	DN 10-06, 3/8"-1/4" AG/60°	20 628	<b>5,38</b>
RN 12-10	DN 12-10, 1/2"-3/8" AG/60°	20 629	<b>6,57</b>
RN 20-12	DN 20-12, 3/4"-1/2" AG/60°	20 630	<b>7,77</b>
RN 25-20	DN 25-20, 1"-3/4" AG/60°	20 631	<b>14,22</b>
RN 32-25	DN 32-25, 1 1/4"-1" AG/60°	20 632	<b>39,32</b>
RN 25-12	DN 25-12, 1"-1/2" AG/60°	20 633	<b>26,17</b>
RN 32-20	DN 32-20, 1 1/4"-3/4" AG/60°	20 634	<b>39,32</b>



## Pipe bend / Connection bend

- Pipe bend for connecting hose to hose reel for series 3,4, 5, 6 and 8

Type	description	part no.	EUR/piece
R-DN 06/08	DN 06/08 für BR 3/1 und 4, 3/8" IG	03 532	<b>8,25</b>
R-DN 10	DN 10 für BR 3/1 und 4, 3/8" IG	03 530	<b>8,25</b>
R-DN 10/12	DN 12 für BR 3/1 und 4, 3/8" IG	03 534	<b>9,44</b>
R-DN 12/3	DN 12 für BR 3/1 und 4, 1/2" IG	03 535	<b>23,78</b>
R-DN 12/6	DN 12 für BR 6/1 und 8, 1/2" IG	10 570	<b>26,16</b>
R-DN 20/12	DN 20 für BR 5/1, 3/4" IG - 1/2" AG	10 571	<b>39,30</b>
R-DN 20/12/E	DN 20 für BR 5/1/E, 3/4" IG - 1/2" AG, Edelstahl	10 574	<b>78,60</b>
R-DN 20	DN 20 für BR 6/1 und 8, 3/4" IG	10 572	<b>26,16</b>
R-DN 25	DN 25 für BR 6/1 und 8, 1" IG	10 573	<b>39,30</b>



## Coupling

- Coupling (SSK)
- Safty coupling (ESG) with air release

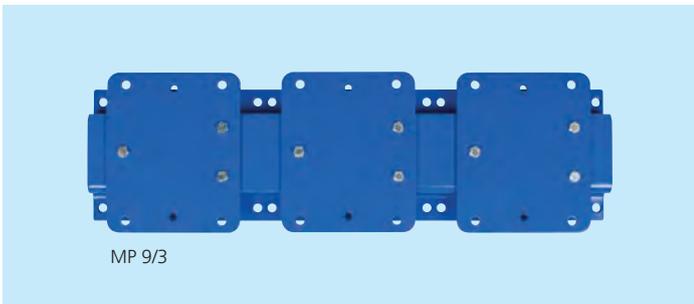
Type	description	part no.	EUR/piece
SSK 06	DN 06, 1/4" IG	03 503	<b>13,03</b>
SSK 10	DN 10, 3/8" IG	03 504	<b>15,42</b>
SSK 12	DN 12, 1/2" IG	03 529	<b>19,00</b>
SSK 20	DN 20, 3/4" IG	50 510	<b>143,28</b>
SSK 20 GR	DN 20, 3/4" IG mit Gummiring	50 530	<b>143,28</b>
ESG 06	DN 06, 1/4" IG	75 054	<b>51,27</b>
ESG 10	DN 10, 3/8" IG	75 053	<b>51,27</b>



## Wall brackets for series 3 / 4 / 9 / 9-154

■ Mounting bracket for reel

Type	description	part no.	EUR/piece
WP 3	For Series 3	03 500	<b>26,17</b>
WP 4	For Series 4	04 500	<b>77,56</b>
MP 4/W	Angle mounting bracket BR 4	04 515	<b>77,56</b>
WP 9	For Series 9	09 500	<b>77,68</b>
WP 9/E	For Series 9 Edelstahl	09 501	<b>173,28</b>
WP 9-GS	For Series 9-GS	09 514	<b>89,63</b>
WP 9-GS/E	For Series 9-GS/E	09 579	<b>209,13</b>
WP 9-154	For Series 9-154	09 552	<b>130,26</b>
WP 9-154/E	For Series 9-154/E	09 553	<b>333,41</b>



## Mounting brackets for series 9 / 9-GS

■ Mounting brackets for hose reels type BR 9 and hose reels type BR 9-GS

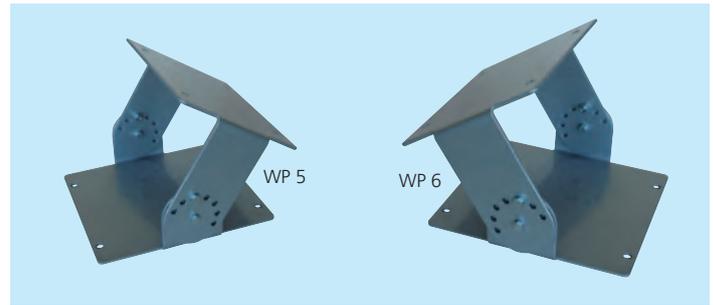
Type	description	part no.	EUR/piece
MP 9/2	2 x BR 9	09 531	<b>190,01</b>
MP 9/3	3 x BR 9	09 505	<b>225,86</b>
MP 9/4	4 x BR 9	09 515	<b>273,66</b>
MP 9/2-GS	2 x BR 9-GS	09 540	<b>309,51</b>
MP 9/3-GS	3 x BR 9-GS	09 541	<b>333,41</b>
MP 9/4-GS	4 x BR 9-GS	09 544	<b>357,31</b>



## Lead-trough with rollers for series 4 / 6 / 9

■ Lead-through with roller for hose reels

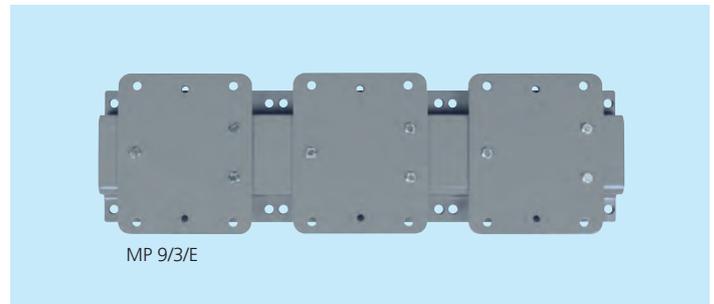
Type	description	part no.	EUR/piece
RA 4	Für Baureihe 4	04 501	<b>41,71</b>
RA 9	Für Baureihe 9	09 504	<b>41,71</b>
RA 9-GS	Für Baureihe 9-GS	09 532	<b>47,71</b>
RA 9/E	Für Baureihe 9/E	09 533	<b>97,41</b>
RA 9-GS/E	Für Baureihe 9-GS/E	09 581	<b>94,41</b>
RA 5/1	Für Baureihe 5/1	05 519	<b>77,56</b>
RA 6-350/1	Für Baureihe 6/1, 350 mm	06 557	<b>94,41</b>
RA 6-400/1	Für Baureihe 6/1, 400 mm	06 550	<b>106,36</b>
RA 6-600/1	Für Baureihe 6/1, 600 mm	06 551	<b>118,31</b>



## Wall brackets for series 5 / 6 / 7

■ Mounting bracket for reels, 120° swivel range  
■ Varnished sheet steel or stainless steel (E)

Type	description	part no.	EUR/piece
WP 5	Für Baureihe 5 und 7	05 500	<b>178,06</b>
WP 5/E	Für Baureihe 5 und 7 Edelstahl	05 520	<b>273,66</b>
WP 6-350	Für Baureihe 6/1, 392 mm	06 558	<b>237,81</b>
WP 6-400	Für Baureihe 6/1, 442 mm	06 552	<b>273,66</b>



## Mounting brackets for series 9/E / 9-GS/E

■ Mounting brackets for hose reels type BR 9/E and hose reels type BR 9/E-GS

Type	description	part no.	EUR/piece
MP 9/2/E	2 x BR 9	09 584	<b>297,56</b>
MP 9/3/E	3 x BR 9	09 583	<b>321,46</b>
MP 9/4/E	4 x BR 9	09 586	<b>345,36</b>
MP 9/2-GS/E	2 x BR 9-GS	09 587	<b>417,06</b>
MP 9/3-GS/E	3 x BR 9-GS	09 588	<b>440,96</b>
MP 9/4-GS/E	4 x BR 9-GS	09 589	<b>464,86</b>



## Twin holder for hose reels

■ Holder for 2 automatic hose reels series 0 and 1  
■ For assembling at lifting platform, pillars or energy rack  
■ Delivery without hose or cable reel  
■ Scope of delivery of set (type DH-set) with cable reel, 10 m, 230 V and hose reel, 8 m for air

Type	description	part no.	EUR/piece
DH	twin holder for hose reels	01 513	<b>101,58</b>
DH-Set	twin holder set incl. hose reels	75 104	<b>429,01</b>



**Maintenance unit compressed air**

With fog oiler, filter and water separator from G1/4" up to G 1"

Type	description	part no.	EUR/piece
LWE 06	G 1/4" IG / IG	20 537	<b>51,27</b>
LWE 10	G 3/8" IG / IG	20 501	<b>89,63</b>
LWE 12	G 1/2" IG / IG	20 502	<b>113,53</b>
LWE 20	G 3/4" IG / IG	20 597	<b>321,46</b>
LWE 25	G 1" IG / IG	20 598	<b>321,46</b>
LWE 12-5	G 1/2" / 5x Ausgänge SSK 12 incl. Montagekonsole	20 728	<b>333,41</b>



**Filter and Oiler for Pneumatic Maintenance Units**

Filter and oiler for pneumatic maintenance units G 1/4" to G 1/2"

Type	description	part no.	EUR/piece
LF 06	Filter for LWE 06	20 767	<b>27,49</b>
LF 10	Filter for LWE 10	20 768	<b>45,41</b>
LF 12	Filter for LWE 12	20 769	<b>58,56</b>
NÖ 06	Oiler for LWE 06	20 776	<b>31,07</b>
NÖ 10	Oiler for LWE 10	20 777	<b>44,22</b>
NÖ 12	Oiler for LWE 12	20 778	<b>60,95</b>



**Holder for nozzles, drip pan**

Wall holder for flow meter and nozzles, small and large version  
Drip pan for flow meters and nozzles

Type	description	part no.	EUR/piece
WH 12	kurze Ausf. (250 mm Höhe)	21 205	<b>65,61</b>
WH 12 PLK	lange Ausf. (700 mm Höhe)	21 206	<b>107,43</b>
WH 12 M/T	speziell für Tanks der Reihe M/T	21 218	<b>131,33</b>
TS 400	400 x 250 x 50 mm (LxBxH)	20 570	<b>197,18</b>
TS 800	800 x 250 x 50 mm (LxBxH)	20 589	<b>256,93</b>



**Hose bracket**

Big hose bracket for storage of hose at walls  
Steel sheet, zinc coated  
Sturdy design for e.g. approx. 40 m hose NPS 12 or 20 m hose NPS 20  
Storage shelf for hose connection, spray nozzle etc.

Type	description	part no.	EUR/piece
SH	Wand-Schlauchhalter	75 501	<b>58,56</b>
SH-PVC-Set	Wand-Schlauchhalter inkl. 20 m PVC-Schlauch, DN 10	75 101	<b>94,41</b>
SH-PU-Set	Wand-Schlauchhalter inkl. 20 m PU-Schlauch, DN 10	75 102	<b>106,36</b>
SH-Flex-Set	Wand-Schlauchhalter inkl. 20 m Flex-Schlauch, DN 10	75 103	<b>142,21</b>



**Cabinet for hose reels series 9 and 5**

Housing steel sheet, to be opened with plastic shutter.  
For mounting at wall, including drip tray and drain screw  
Dim. approx. 1050 x 600 x 630 mm (L x W x H)

Type	description	part no.	EUR/piece
WSR 4	Could take up to 4 hose reels series 9	09 600	<b>1.069,53</b>
WSR 2	Could take up to 2 hose reels series 5	09 601	<b>1.069,53</b>

Plus freight costs for WSR models 69,00



**Energy supplying unit**

Energy supplying unit incl. three tool holders hanging on three chains  
Connection for optional compressed air pipe

Type	description	part no.	EUR/piece
EA1	2x Schuko 230 V, 1x CEE 400 V	75 070	<b>357,31</b>
EA2	3x Schuko 230 V	75 071	<b>381,21</b>
EA3	1x Schuko 230 V, 1x CEE 400 V, 1x RJ45 2-fold data conn.	75 072	<b>452,91</b>
DA	Pressure connection with safety coupling 1/4"	75 073	35,73



## Water pump pistols

- Water pump pistol, various models
- Adjustable spray jet (except for model WZP 12)
- Model WP 20/1 incl. 2 jets (2 and 4 mm)

Type	description	part no.	EUR/piece
WP 12	G 1/2" AG, 30 bar, 60° C	09 502	<b>178,06</b>
WP 12/2	G 1/2" IG, 4 bar, 60° C	09 549	<b>130,26</b>
WZP 12	G 1/2" AG, 20 bar, 20° C	09 503	<b>89,63</b>
WP 20/1	G 1/2" IG, 12 bar, 80° C	09 551	<b>225,86</b>
WSM 12	connection set, brass, DN 12	01 521	<b>34,66</b>



## Water pump pistols for hot water

- Water pump pistols for hot water (up to 70° C) in various versions incl. quiver (Type WP 10 and WP 10-PRS)
- Model WP 20/1 incl. 2 jets (2 and 4 mm)

Type	description	part no.	EUR/piece
WP 20/1	G 1/2" IG, 12 bar, 80° C, 50 Ltr./min	09 551	<b>225,86</b>
WP 10-S	G 3/8" IG, 5 bar, 60° C, 11 Ltr./min.	01 524	<b>106,36</b>
WP 10-PRS	G 3/8" IG, 7 bar, 70° C, 11 Ltr./min.	01 525	<b>190,01</b>



## Oil nozzle

- Nozzle, for various oils and fluids, connection thread G 1/2" IG
- Delivery without outlet pipe

Type	description	part no.	EUR/piece
ZP 12	for engine oil, gear oil etc.	21 300	<b>77,56</b>
ZP 12 AB	for AdBlue®, aggressive fluids	28 257	<b>70,51</b>
ZP 12/K	for cooling fluids, screen water	21 303	<b>130,26</b>
ZP 20/2	for engine oil, gear oil etc.	21 301	<b>262,78</b>
ZP 20/2/E	identical with ZP 20/2, incl. inspection glass	21 302	<b>328,51</b>
DZP 20-M	for Diesel	28 117	<b>46,61</b>



## Swivel joints

- Swivel joint for nozzles and flow meters, out of steel (ÖDG 12), brass (ÖDG 12/K), stainless steel (ÖDG 12/E) or aluminium (DDG 25-20)

Type	description	part no.	EUR/piece
ÖDG 12	for engine oil, gear oil, etc.	21 200	<b>23,78</b>
ÖDG 20	for engine oil, gear oil, etc.	21 219	<b>39,32</b>
ÖDG 12/K	for coolant, cleaning agent	21 208	<b>89,51</b>
ÖDG 12/E	for acids and brines	21 209	<b>131,33</b>
DDG 25-20	für Diesel, G 1" IG / 3/4" AG	28 118	<b>24,85</b>



## Air pistol, tire gauge

- Tire gauge (RFM) and air pistol (LP)
- Tire gauge with manometer, 0-10 bar
- Air pistol made out of aluminium (LP 06 / LP 10) or plastic (LP 100 / LP 270)

Type	description	part no.	EUR/piece
RFM	not calibratable	02 500	<b>58,56</b>
RFM E	calibratable	02 501	<b>237,81</b>
LP 06	DN 06	02 502	<b>22,71</b>
LP 10	DN 10	02 504	<b>26,29</b>
LP 270	DN 10, 270 mm air pipe	02 507	<b>17,81</b>



## Grease pistols

- Grease pistols G 1/4"
- Incl. hydraulic snout
- max. 500 bar (G 77), max. 400 bar (P 77)

Type	description	part no.	EUR/piece
G 77	Digital meter (g, kg)	60 551	<b>512,66</b>
P 77	Grease pistol	60 501	<b>70,51</b>
FDG 06	3-turning swivel joint	60 500	<b>46,61</b>



### Flow meter, analogue

- Nozzle for any kind of oil
- Display range 10 ltr. (mod. 30096-14 = 60 ltr.)
- Non-resetable totalizer
- Delivery without outlet

Type	description	part no.	EUR/piece
18 230	double counting mechanism	21 100	<b>751,66</b>
30096-14	switch off automatically	21 101	<b>859,21</b>
MS 111/E	with certificate, incl. inspection glas	21 103	<b>895,06</b>



### Inspection glasses

- Inspection glass for oil nozzle mod. ZP and LCD/E (mod. KA) or for model MS/E (mod. MS)

Type	description	part no.	EUR/piece
KA	for Mod. ZP and LCD/E	21 501	<b>66,80</b>
MS	for Mod. MS/E	21 500	<b>51,27</b>



### Flow meter, digital

- Resetable display LCD 5-digit
- Non-resetable totalizer, G 1/2"
- Mod. LCD 50 incl. pre-selection saving
- Without outlet pipe, except LCD 18 K, LCD 18 S

Type	description	part no.	EUR/piece
LCD 18/1	Input NPS 12, not calibratable, oil	21 003	<b>297,56</b>
LCD 19	Input NPS 20, not calibratable, oil	21 018	<b>417,06</b>
LCD 18 K	Input NPS 12, not calibratable, coolant	21 021	<b>656,06</b>
LCD 18 S	Input NPS 12, not calibratable, screen water	21 022	<b>656,06</b>
LCD 18/E	Input NPS 12, calibratable, oil	21 004	<b>584,36</b>
LCD 50	Input NPS 12, not calibratable, preset meter	21 006	<b>835,31</b>



### Diesel-, oil- & AdBlue® nozzles

- For Diesel (DZP) or AdBlue (ZPA-AB)
- Connection G 3/4" IG, NPS 20 (DZP 20), G 1" IG, NPS 25 (DZP 25) or G 3/4" IG, NPS 20 (ZPA-AB)

Typ	DN	Beschreibung	part no.	EUR/piece
DZP 20	20	without type approval, for diesel	28 116	<b>190,01</b>
DZP 20-B	20	with type approval, for diesel	28 100	<b>237,81</b>
DZP 20-Z	20	without type approval, for diesel, with meter	28 115	<b>333,41</b>
DZP 25	25	without type approval, for diesel	28 101	<b>237,81</b>
ZPA 19-AB/E	20	without type approval, for AdBlue®	28 256	<b>357,31</b>
BAS-ZP	20	with type approva, für fuel	52 502	<b>328,63</b>



### Outlet pipe for water and oil

- Outlet pipes for nozzles and flow meters, incl. anti-drip snout

Type	description	part no.	EUR/piece
AR-MV 12	angled, with screwed nozzle for engine oil	21 224	<b>19,00</b>
AR-M 12	angled for engine oil	21 201	<b>32,15</b>
AR-M 20	angled for engine oil	21 225	<b>38,12</b>
AR-G 12	bent for gear oil	21 202	<b>35,73</b>
AF-M 12	flexible, for engine oil	21 203	<b>47,68</b>
AF-G 12	flexible, for gear oil	21 204	<b>51,27</b>



### Colour markings

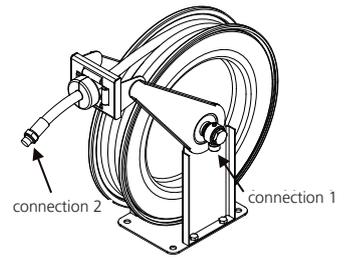
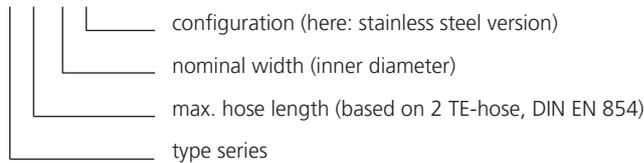
- Colour markings for nozzles and flow meters with swivel joints type ÖDG 12

Type	Colour	part no.	EUR/piece
FKZ red	red	21 210	<b>8,25</b>
FKZ yellow	yellow	21 211	<b>8,25</b>
FKZ black	black	21 212	<b>8,25</b>
FKZ green	green	21 213	<b>8,25</b>
FKZ blue	blue	21 214	<b>8,25</b>

## Legend for type description

### Legend for type description of cable- and hose reels

Example: Hose reel  
typee 9.10.12/E



## Technical information - Cable reels

### Series 0 - 230 V

Model	part no.	package measure	construc. dimensions	weight	connection 1	connection 2	cable length	cable type	performance	voltage
0.06.05	00 010	230 x 200 x 150 mm	230 x 180 x 130 mm	2,0 kg	Schukostecker	Schukokupplung	6 m	H05VV-F, 3x 1,5	800 - 2000 W	230 V
0.10.05	00 001	280 x 280 x 190 mm	310 x 260 x 160 mm	3,8 kg	Schukostecker	Schukokupplung	10 m	H05VV-F, 3x 1,5	800 - 2000 W	230 V
0.15.05	00 002	290 x 290 x 205 mm	325 x 275 x 185 mm	4,5 kg	Schukostecker	Schukokupplung	15 m	H05VV-F, 3x 1,5	800 - 2000 W	230 V
0.25.05	00 003	420 x 390 x 230 mm	450 x 361 x 195 mm	8,3 kg	Schukostecker	Schukokupplung	25 m	H05VV-F, 3x 1,5	800 - 2000 W	230 V
0.35.05	00 012	500 x 435 x 235 mm	530 x 425 x 210 mm	11,7 kg	Schukostecker	Schukokupplung	35 m	H05VV-F, 3x 1,5	800 - 2000 W	230 V
0.20.05	00 013	420 x 390 x 230 mm	450 x 361 x 195 mm	9,2 kg	Schukostecker	Schukokupplung	20 m	H07RN-F, 3x 2,5	1600 - 3500 W	230 V
0.15.05-L	00 006	415 x 240 x 280 mm	325 x 275 x 185 mm	4,0 kg	Schukostecker	Lampe, G23	15 m	H05VV-F, 2x 1,0	9 W	230 V

### Series 0 - 400 V

Model	part no.	package measure	construc. dimensions	weight	connection 1	connection 2	cable length	cable type	performance	voltage
0.10.07	00 007	350 x 330 x 250 mm	355 x 315 x 190 mm	6,3 kg	CEE-Stecker	CEE-Kupplung	10 m	H07RN-F, 5x 1,5	1000 - 3000 W	400 V
0.20.07	00 004	420 x 390 x 230 mm	450 x 361 x 195 mm	11,0 kg	CEE-Stecker	CEE-Kupplung	20 m	H07RN-F, 5x 1,5	1000 - 3000 W	400 V
0.30.07	00 011	500 x 435 x 235 mm	530 x 425 x 210 mm	12,0 kg	CEE-Stecker	CEE-Kupplung	30 m	H07RN-F, 5x 1,5	1000 - 3000 W	400 V
0.15.07	00 014	420 x 390 x 230 mm	450 x 361 x 195 mm	11,0 kg	CEE-Stecker	CEE-Kupplung	15 m	H07RN-F, 5x 2,5	2800 - 5000 W	400 V

### Series 0 - 24 V

Model	part no.	package measure	construc. dimensions	weight	connection 1	connection 2	cable length	cable type	performance	voltage
0.15.05-L24	00 009	415 x 280 x 240 mm	310 x 260 x 205 mm	4,4 kg	Schukostecker	Lampe, 2G7	15 m	H05VV-F, 2x 1,0	11 W	24 V

### Series 0 - with clamps

Model	part no.	package measure	construc. dimensions	weight	connection 1	connection 2	cable length	cable type
0.15.06-K	00 050	290 x 290 x 275 mm	310 x 260 x 160 mm	3,8 kg	Klemme	Erdungsklammer	15 m	H07V-K, 1x 6,0
0.06.16-B	00 052	360 x 310 x 185 mm	350 x 320 x 160 mm	5,4 kg	Klemme	Batterieklemme	6 m	H05W-F 2G 16,0
0.09.16-B	00 053	400 x 370 x 260 mm	400 x 360 x 215 mm	12,5 kg	Klemme	Batterieklemme	9 m	H05W-F 2G 16,0

### Series 0 - with LAN-cable

Model	part no.	package measure	construc. dimensions	weight	connection 1	connection 2	cable length	cable type
0.15.LAN	00 054	280 x 280 x 190 mm	310 x 260 x 160 mm	4,0 kg	RJ45-Buchse	RJ45-Stecker	15 m	4x (2x0,15) mm <sup>2</sup> LAN-Kabel CAT 5e, 2A

## Technical information - Hose reels

### Series 1

Model	part no.	package measure	construc. dimensions	weight	connection 1	connection 2	hose length	Hose-Ø	Max. pressure
1.06.06	01 006	230 x 200 x 150 mm	225 x 180 x 130 mm	1,2 kg	1/4" iG	1/4" aG	6 m	DN 06	10 bar, Luft
1.12.06	01 007	290 x 290 x 205 mm	325 x 275 x 185 mm	3,4 kg	1/4" iG	1/4" aG	10 m	DN 06	10 bar, Luft
1.15.06	01 008	360 x 330 x 210 mm	355 x 315 x 190 mm	4,5 kg	1/4" iG	1/4" aG	15 m	DN 06	10 bar, Luft
1.05.08-HW/E	01 013	265 x 210 x 150 mm	275 x 218 x 120 mm	3,0 kg	-	3/8" aG	5 m	DN 08	10 bar, 70° Wasser
1.08.08	01 001	290 x 290 x 205 mm	325 x 275 x 185 mm	3,4 kg	1/4" iG	1/4" aG	8 m	DN 08	10 bar, Luft
1.12.08	01 004	360 x 330 x 210 mm	355 x 315 x 190 mm	4,5 kg	1/4" iG	1/4" aG	12 m	DN 08	10 bar, Luft
1.15.08	01 002	420 x 390 x 230 mm	450 x 361 x 195 mm	5,5 kg	1/4" iG	1/4" aG	15 m	DN 08	10 bar, Luft
1.15.08-HW/E	01 015	385 x 365 x 170 mm	392 x 324 x 160 mm	6,0 kg	-	3/8" aG	15 m	DN 08	10 bar, 70° Wasser
1.03.10-HW/E	01 014	265 x 210 x 150 mm	275 x 218 x 120 mm	3,0 kg	-	3/8" aG	3 m	DN 10	10 bar, 70° Wasser
1.12.10-HW/E	01 016	385 x 365 x 170 mm	392 x 324 x 160 mm	6,0 kg	-	3/8" aG	12 m	DN 10	10 bar, 70° Wasser
1.15.10	01 010	420 x 390 x 230 mm	450 x 361 x 195 mm	5,6 kg	3/8" iG	3/8" aG	15 m	DN 10	10 bar, Luft
1.20.10	01 011	500 x 435 x 235 mm	530 x 425 x 210 mm	8,3 kg	3/8" iG	3/8" aG	20 m	DN 10	10 bar, Luft
1.15.12	01 012	500 x 435 x 235 mm	530 x 425 x 210 mm	8,3 kg	1/2" iG	1/2" aG	15 m	DN 12	10 bar, Luft
1.20.12-W2-SCS	01 331	550 x 460 x 260 mm	615 x 429 x 247 mm	10,6 kg	1/2" iG	Sprühgarnitur	20 m	DN 12	10 bar, Wasser

### Series 2

Model	part no.	package measure	construc. dimensions	weight	connection 1	connection 2	hose length	Hose-Ø	Max. pressure
2.30.10	02 002	420 x 420 x 380 mm	400 x 400 x 370 mm	20,0 kg	3/8" iG	3/8" aG	30 m	DN 10	15 bar

### Series 3

Model	part no.	package measure	construc. dimensions	weight	connection 1	connection 2	hose length	Hose-Ø	Max. pressure
3.10.08-TE/1	03 050	380 x 330 x 230 mm	355 x 325 x 155 mm	7,0 kg	3/8" iG	1/4" aG	10 m	DN 08	20 bar
3.20.08-TE/1	03 051	400 x 390 x 230 mm	380 x 375 x 155 mm	9,0 kg	3/8" iG	1/4" aG	20 m	DN 08	20 bar
3.12.10/1	03 007	380 x 330 x 230 mm	355 x 325 x 155 mm	7,0 kg	3/8" iG	3/8" aG	12 m	DN 10	15 bar
3.20.10/1	03 009	400 x 390 x 230 mm	380 x 375 x 155 mm	9,0 kg	3/8" iG	3/8" aG	20 m	DN 10	15 bar
3.10.10-TE/1	03 052	380 x 330 x 230 mm	355 x 325 x 155 mm	7,0 kg	3/8" iG	3/8" aG	10 m	DN 10	20 bar
3.15.10-TE/1	03 053	400 x 390 x 230 mm	380 x 375 x 155 mm	9,0 kg	3/8" iG	3/8" aG	15 m	DN 10	20 bar
3.10.10-Flex	03 030	380 x 330 x 230 mm	355 x 325 x 155 mm	7,0 kg	3/8" iG	3/8" aG	10 m	DN 10	15 bar

## Technical information - Hose reels

### Series 3 (continuation)

Model	part no.	package measure	construc. dimensions	weight	connection 1	connection 2	hose length	Hose-Ø	Max. pressure
3.15.10-Flex	03 031	400 x 390 x 230 mm	380 x 375 x 155 mm	9,0 kg	3/8" iG	3/8" aG	15 m	DN 10	15 bar
3.15.10-A/1	03 011	400 x 390 x 230 mm	380 x 375 x 155 mm	9,0 kg	3/8" iG	3/8" iG	15 m	DN 10	20 bar
3.08.12/1	03 025	400 x 390 x 230 mm	380 x 375 x 155 mm	9,0 kg	1/2" aG	1/2" aG	8 m	DN 12	15 bar
3.15.12/1	03 026	400 x 390 x 230 mm	380 x 375 x 155 mm	9,0 kg	1/2" aG	1/2" aG	15 m	DN 12	15 bar
3.08.12-Ø/1	03 012	400 x 390 x 230 mm	380 x 375 x 155 mm	9,0 kg	1/2" aG	1/2" aG	8 m	DN 12	20 bar
3.20.12-W/1	03 010	400 x 390 x 230 mm	380 x 375 x 155 mm	9,0 kg	1/2" aG	Sprühdüse	20 m	DN 12	12 bar

### Series 4

Model	part no.	package measure	construc. dimensions	weight	connection 1	connection 2	hose length	Hose-Ø	Max. pressure
4.10.08-TE/1	04 050	410 x 360 x 200 mm	345 x 310 x 140 mm	7,0 kg	3/8" aG	1/4" aG	10 m	DN 08	20 bar
4.20.08-TE/1	04 051	460 x 395 x 200 mm	405 x 360 x 140 mm	9,0 kg	3/8" aG	1/4" aG	20 m	DN 08	20 bar
4.10.10/1	04 007	410 x 360 x 200 mm	345 x 310 x 140 mm	7,0 kg	3/8" aG	3/8" aG	10 m	DN 10	15 bar
4.20.10/1	04 009	460 x 395 x 200 mm	405 x 360 x 140 mm	9,0 kg	3/8" aG	3/8" aG	20 m	DN 10	15 bar
4.10.10-TE/1	04 052	410 x 360 x 200 mm	345 x 310 x 140 mm	7,0 kg	3/8" aG	3/8" aG	10 m	DN 10	20 bar
4.15.10-TE/1	04 053	460 x 395 x 200 mm	405 x 360 x 140 mm	9,0 kg	3/8" aG	3/8" aG	15 m	DN 10	20 bar
4.10.10-Flex	04 028	410 x 360 x 200 mm	345 x 310 x 140 mm	7,0 kg	3/8" aG	3/8" aG	10 m	DN 10	15 bar
4.15.10-Flex	04 029	460 x 395 x 200 mm	405 x 360 x 140 mm	9,0 kg	3/8" aG	3/8" aG	15 m	DN 10	15 bar
4.08.12/1	04 023	460 x 395 x 200 mm	405 x 360 x 140 mm	9,0 kg	1/2" aG	1/2" aG	8 m	DN 12	15 bar
4.15.12/1	04 024	460 x 395 x 200 mm	405 x 360 x 140 mm	10,0 kg	1/2" aG	1/2" aG	15 m	DN 12	15 bar
4.08.12-Ø/1	04 010	460 x 395 x 200 mm	405 x 360 x 140 mm	10,0 kg	1/2" aG	1/2" aG	8 m	DN 12	20 bar
4.10.08-TE/G/1	04 060	410 x 360 x 200 mm	350 x 320 x 140 mm	7,0 kg	3/8" aG	1/4" aG	10 m	DN 08	20 bar
4.20.08-TE/G/1	04 061	460 x 395 x 200 mm	410 x 370 x 140 mm	9,0 kg	3/8" aG	1/4" aG	20 m	DN 08	20 bar
4.10.10-G/1	04 017	410 x 360 x 200 mm	350 x 320 x 140 mm	7,0 kg	3/8" aG	3/8" aG	10 m	DN 10	15 bar
4.20.10-G/1	04 019	460 x 395 x 200 mm	410 x 370 x 140 mm	9,0 kg	3/8" aG	3/8" aG	20 m	DN 10	15 bar
4.10.10-TE/G/1	04 062	410 x 360 x 200 mm	350 x 320 x 140 mm	7,0 kg	3/8" aG	3/8" aG	10 m	DN 10	20 bar
4.15.10-TE/G/1	04 063	460 x 395 x 200 mm	410 x 370 x 140 mm	9,0 kg	3/8" aG	3/8" aG	15 m	DN 10	20 bar
4.10.10-Flex	04 030	410 x 360 x 200 mm	350 x 320 x 140 mm	7,0 kg	3/8" aG	3/8" aG	10 m	DN 10	15 bar
4.15.10-Flex	04 031	460 x 395 x 200 mm	410 x 370 x 140 mm	9,0 kg	3/8" aG	3/8" aG	15 m	DN 10	15 bar
4.15.10-GA/1	04 021	460 x 395 x 200 mm	410 x 370 x 140 mm	9,0 kg	3/8" aG	3/8" iG	15 m	DN 10	20 bar
4.08.12-G/1	04 025	460 x 395 x 200 mm	410 x 370 x 140 mm	9,0 kg	1/2" aG	1/2" aG	8 m	DN 12	15 bar
4.15.12-G/1	04 026	460 x 395 x 200 mm	410 x 370 x 140 mm	10,0 kg	1/2" aG	1/2" aG	15 m	DN 12	15 bar
4.08.12-Ø/G/1	04 020	460 x 395 x 200 mm	410 x 370 x 140 mm	10,0 kg	1/2" aG	1/2" aG	8 m	DN 12	20 bar

### Series 5

Model	part no.	package measure	construc. dimensions	weight	connection 1	connection 2	hose length	Hose-Ø	Max. pressure
5.30.06/1	05 032	520 x 370 x 570 mm	460 x 510 x 360 mm	25,0 kg	1/4" iG	Schlauchtülle DN 06	30 m	DN 06	400 bar
5.30.08-HD/1	05 020	520 x 370 x 570 mm	460 x 510 x 360 mm	25,0 kg	M 22 x 1,5 aG	Schlauchtülle DN 08	30 m	DN 08	220 bar
5.40.10/1	05 010	520 x 370 x 570 mm	460 x 510 x 360 mm	25,0 kg	1/2" aG	Schlauchtülle DN 10	40 m	DN 10	50 bar
5.40.10-HD/1	05 021	520 x 370 x 570 mm	460 x 510 x 360 mm	25,0 kg	3/8" iG	Schlauchtülle DN 10	40 m	DN 10	250 bar
5.40.12/1	05 011	520 x 370 x 570 mm	460 x 510 x 360 mm	25,0 kg	1/2" aG	Schlauchtülle DN 12	40 m	DN 12	50 bar
5.40.12-HD/1	05 022	520 x 370 x 570 mm	460 x 510 x 360 mm	25,0 kg	1/2" aG	Schlauchtülle DN 12	40 m	DN 12	250 bar
5.20.16/1	05 012	520 x 370 x 570 mm	460 x 510 x 345 mm	20,0 kg	3/4" iG	Schlauchtülle DN 16	20 m	DN 16	50 bar
5.30.16/1	05 013	520 x 370 x 570 mm	460 x 510 x 360 mm	25,0 kg	3/4" iG	Schlauchtülle DN 16	30 m	DN 16	50 bar
5.20.20/1	05 014	520 x 370 x 570 mm	460 x 510 x 345 mm	20,0 kg	3/4" iG	Schlauchtülle DN 20	20 m	DN 20	50 bar

\*Gewichtangaben ohne Schlauch

### Series 5/E (stainless steel)

Model	part no.	package measure	construc. dimensions	weight	connection 1	connection 2	hose length	Hose-Ø	Max. pressure
5.30.06/E/1	05 033	520 x 370 x 570 mm	460 x 510 x 360 mm	25,0 kg	1/4" iG	Schlauchtülle DN 06	30 m	DN 06	400 bar
5.30.08-HD/E/1	05 023	520 x 370 x 570 mm	460 x 510 x 360 mm	25,0 kg	M 22 x 1,5 aG	Schlauchtülle DN 08	30 m	DN 08	220 bar
5.40.10/E/1	05 015	520 x 370 x 570 mm	460 x 510 x 360 mm	25,0 kg	1/2" aG	Schlauchtülle DN 10	40 m	DN 10	50 bar
5.40.10-HD/E/1	05 024	520 x 370 x 570 mm	460 x 510 x 360 mm	25,0 kg	3/8" iG	Schlauchtülle DN 10	40 m	DN 10	250 bar
5.40.12-E/1	05 016	520 x 370 x 570 mm	460 x 510 x 360 mm	25,0 kg	1/2" aG	Schlauchtülle DN 12	40 m	DN 12	50 bar
5.40.12-HD/E/1	05 025	520 x 370 x 570 mm	460 x 510 x 360 mm	25,0 kg	1/2" aG	Schlauchtülle DN 12	40 m	DN 12	250 bar
5.20.12-D/E/1	05 034	520 x 370 x 570 mm	460 x 510 x 345 mm	20,0 kg	1/2" aG	Schlauchtülle DN 12	20 m	DN 12	10 bar
5.30.12-D/E/1	05 035	520 x 370 x 570 mm	460 x 510 x 360 mm	25,0 kg	1/2" aG	Schlauchtülle DN 12	30 m	DN 12	10 bar
5.20.16-E/1	05 017	520 x 370 x 570 mm	460 x 510 x 345 mm	20,0 kg	3/4" iG	Schlauchtülle DN 16	20 m	DN 16	50 bar
5.30.16-E/1	05 018	520 x 370 x 570 mm	460 x 510 x 360 mm	20,0 kg	3/4" iG	Schlauchtülle DN 16	30 m	DN 16	50 bar
5.20.20-E/1	05 019	520 x 370 x 570 mm	460 x 510 x 345 mm	20,0 kg	3/4" iG	Schlauchtülle DN 20	20 m	DN 20	50 bar
5.15.20-D/E/1	05 036	520 x 370 x 570 mm	460 x 510 x 345 mm	20,0 kg	3/4" iG	Schlauchtülle DN 20	15 m	DN 20	10 bar

\*Gewichtangaben ohne Schlauch

### Series 6

Model	part no.	package measure	construc. dimensions	weight	connection 1	connection 2	hose length	Hose-Ø	Max. pressure
6.50.12/1	06 022	800 x 600 x 700 mm	620 x 693 x 477 mm	37,0 kg	1/2" aG	1/2" iG	50 m	DN 12	50 bar
6.30.20/1	06 004	800 x 600 x 700 mm	620 x 693 x 477 mm	37,0 kg	3/4" aG	3/4" iG	30 m	DN 20	50 bar
6.40.20/1	06 005	800 x 600 x 700 mm	620 x 693 x 528 mm	42,0 kg	3/4" aG	3/4" iG	40 m	DN 20	50 bar
6.20.25/1	06 006	800 x 600 x 700 mm	620 x 693 x 497 mm	37,0 kg	1" iG	1" iG	20 m	DN 25	50 bar
6.30.25/1	06 007	800 x 600 x 700 mm	620 x 693 x 528 mm	45,0 kg	1" iG	1" iG	30 m	DN 25	50 bar
6.40.25/1	06 008	800 x 600 x 700 mm	620 x 693 x 528 mm	45,0 kg	1" iG	1" iG	40 m	DN 25	50 bar
6.50.25/1	06 009	1200 x 800 x 900 mm	620 x 693 x 728 mm	85,0 kg	1" iG	1" iG	50 m	DN 25	50 bar
6.20.32/1	06 010	800 x 600 x 700 mm	620 x 693 x 528 mm	42,0 kg	1 1/4" aG	1 1/4" iG	20 m	DN 32	50 bar

\*Gewichtangaben ohne Schlauch

### Series 7 + Series 9 (gas-oxygen)

Model	part no.	package measure	construc. dimensions	weight	connection 1	connection 2	hose length	Hose-Ø	Max. pressure
7.10.6/9/1	07 001	500 x 500 x 500 mm	460 x 510 x 420 mm	26,0 kg	1/4" aG, 3/8" aG li	1/4" iG, 3/8" iG li	10 m	DN 06/09	20 bar
7.15.6/9/1	07 002	500 x 500 x 500 mm	460 x 510 x 420 mm	28,0 kg	1/4" aG, 3/8" aG li	1/4" iG, 3/8" iG li	15 m	DN 06/09	20 bar
7.20.6/9/1	07 003	500 x 500 x 500 mm	460 x 510 x 420 mm	30,0 kg	1/4" aG, 3/8" aG li	1/4" iG, 3/8" iG li	20 m	DN 06/09	20 bar

## Technical information - Hose reels

### Series 7 + Series 9 (gas-oxygen) – (continuation)

Model	part no.	package measure	construc. dimensions	weight	connection 1	connection 2	hose length	Hose-Ø	Max. pressure
9.10.6/6/1	09 067	500 x 500 x 500 mm	440 x 460 x 265 mm	17,0 kg	1/4" aG, 3/8" aG li	1/4" iG 3/8" iG li	10 m	DN06/06	20 bar
9.15.6/6/1	09 068	500 x 500 x 500 mm	470 x 495 x 265 mm	19,0 kg	1/4" aG, 3/8" aG li	1/4" iG 3/8" iG li	15 m	DN06/06	20 bar

### Series 8

Model	part no.	package measure	construc. dimensions	weight	connection 1	connection 2	hose length	Hose-Ø	Max. pressure
8.20.08-HD/H	08 012	460 x 470 x 220 mm	500 x 460 x 218 mm	7,0 kg	M22 x 1,5 aG	M22 x 1,5 aG	20 m	DN 08	220 bar
8.30.08-HD/H	08 009	460 x 470 x 220 mm	500 x 460 x 218 mm	7,0 kg	M22 x 1,5 aG	M22 x 1,5 aG	30 m	DN 08	220 bar
8.50.08-HD/H	08 010	510 x 520 x 510 mm	460 x 510 x 470 mm	12,0 kg	M22 x 1,5 aG	M22 x 1,5 aG	50 m	DN 08	220 bar
8.50.10-H	08 001	510 x 520 x 510 mm	460 x 510 x 470 mm	12,0 kg	1/2" aG	Schlauchtülle DN 10	50 m	DN 10	40 bar
8.20.12-H	08 011	460 x 470 x 220 mm	500 x 460 x 218 mm	7,0 kg	1/2" aG	1/2" aG	20 m	DN 12	40 bar
8.50.12-H	08 002	510 x 520 x 510 mm	460 x 510 x 470 mm	12,0 kg	1/2" aG	Schlauchtülle DN 12	50 m	DN 12	40 bar
8.50.12-HSW	08 006	1200 x 800 x 900 mm	670 x 510 x 980 mm	21,0 kg	1/2" aG	Schlauchtülle DN 12	50 m	DN 12	40 bar
8.50.12-HD/HSW	08 023	1200 x 800 x 900 mm	670 x 510 x 980 mm	21,0 kg	1/2" aG	Schlauchtülle DN 12	50 m	DN 12	220 bar
8.50.20-H	08 003	800 x 600 x 700 mm	620 x 693 x 670 mm	23,0 kg	3/4" aG	3/4" iG	50 m	DN 20	40 bar
8.50.20-HSW	08 007	1200 x 800 x 900 mm	720 x 740 x 840 mm	38,0 kg	3/4" aG	3/4" iG	50 m	DN 20	40 bar
8.50.25-H	08 004	800 x 600 x 700 mm	620 x 693 x 670 mm	23,0 kg	1" aG	1" iG	40 m	DN 25	40 bar
8.40.25-HSW	08 008	1200 x 800 x 900 mm	720 x 740 x 840 mm	38,0 kg	1" aG	1" iG	40 m	DN 25	40 bar

\*Gewichtsangaben ohne Schlauch

### Series 8/E (stainless steel)

Model	part no.	package measure	construc. dimensions	weight	connection 1	connection 2	hose length	Hose-Ø	Max. pressure
8.80.12-HE	08 020	800 x 600 x 580 mm	714 x 465 x 515 mm	15,0 kg	1/2" iG	1/2" iG	80 m	DN 12	200 bar
8.50.20-HE	08 021	800 x 600 x 580 mm	714 x 465 x 515 mm	16,0 kg	3/4" iG	3/4" iG	50 m	DN 20	200 bar
8.40.25-HE	08 022	800 x 600 x 580 mm	714 x 465 x 515 mm	16,0 kg	1" iG	1" iG	40 m	DN 25	100 bar

\*Gewichtsangaben ohne Schlauch

### Series 9

Model	part no.	package measure	construc. dimensions	weight	connection 1	connection 2	hose length	Hose-Ø	Max. pressure
9.12.06/2	09 015	480 x 210 x 470 mm	440 x 460 x 200 mm	15,0 kg	1/4" iG	1/4" aG	12 m	DN 06	400 bar
9.20.06/2	09 016	520 x 210 x 500 mm	470 x 494 x 200 mm	19,0 kg	1/4" iG	1/4" aG	20 m	DN 06	400 bar
9.12.08-HD/2	09 019	480 x 210 x 470 mm	440 x 460 x 180 mm	16,0 kg	M22 x 1,5 aG	M22 x 1,5 iG	12 m	DN 08	220 bar
9.20.08-HD/2	09 020	520 x 210 x 500 mm	470 x 494 x 180 mm	20,0 kg	M22 x 1,5 aG	M22 x 1,5 iG	20 m	DN 08	220 bar
9.12.10/2	09 001	480 x 210 x 470 mm	440 x 460 x 180 mm	16,0 kg	1/2" aG	3/8" aG	12 m	DN 10	50 bar
9.20.10/2	09 002	520 x 210 x 500 mm	470 x 494 x 180 mm	20,0 kg	1/2" aG	3/8" aG	20 m	DN 10	50 bar
9.12.10-PU/2	09 130	480 x 210 x 470 mm	440 x 460 x 180 mm	16,0 kg	1/2" aG	3/8" aG	12 m	DN 10	20 bar
9.20.10-PU/2	09 131	520 x 210 x 500 mm	470 x 494 x 180 mm	20,0 kg	1/2" aG	3/8" aG	20 m	DN 10	20 bar
9.12.10-TE/2	09 140	480 x 210 x 470 mm	440 x 460 x 180 mm	16,0 kg	1/2" aG	3/8" aG	12 m	DN 10	20 bar
9.20.10-TE/2	09 141	520 x 210 x 500 mm	470 x 494 x 180 mm	20,0 kg	1/2" aG	3/8" aG	20 m	DN 10	20 bar
9.12.10-Flex/2	09 138	480 x 210 x 470 mm	440 x 460 x 180 mm	16,0 kg	1/2" aG	3/8" aG	12 m	DN 10	20 bar
9.20.10-Flex/2	09 139	520 x 210 x 500 mm	470 x 494 x 180 mm	20,0 kg	1/2" aG	3/8" aG	20 m	DN 10	20 bar
9.10.12/2	09 003	480 x 210 x 470 mm	440 x 460 x 180 mm	17,0 kg	1/2" aG	1/2" aG	10 m	DN 12	50 bar
9.15.12/2	09 004	520 x 210 x 500 mm	470 x 494 x 180 mm	21,0 kg	1/2" aG	1/2" aG	15 m	DN 12	50 bar
9.20.12/2	09 005	520 x 210 x 500 mm	470 x 494 x 180 mm	21,0 kg	1/2" aG	1/2" aG	20 m	DN 12	50 bar
9.10.12-PU/2	09 132	480 x 210 x 470 mm	440 x 460 x 180 mm	17,0 kg	1/2" aG	1/2" aG	10 m	DN 12	20 bar
9.20.12-PU/2	09 133	520 x 210 x 500 mm	470 x 494 x 180 mm	21,0 kg	1/2" aG	1/2" aG	20 m	DN 12	20 bar
9.10.12-TE/2	09 142	480 x 210 x 470 mm	440 x 460 x 180 mm	17,0 kg	1/2" aG	1/2" aG	10 m	DN 12	20 bar
9.20.12-TE/2	09 143	520 x 210 x 500 mm	470 x 494 x 180 mm	21,0 kg	1/2" aG	1/2" aG	20 m	DN 12	20 bar
9.10.12/2*	09 202	480 x 210 x 470 mm	440 x 460 x 180 mm	12,0 kg	1/2" aG	1/2" aG	10 m	DN 12	40 bar
9.15.12/2*	09 203	520 x 210 x 500 mm	470 x 494 x 180 mm	15,0 kg	1/2" aG	1/2" aG	15 m	DN 12	40 bar
9.10.16/2	09 007	520 x 210 x 500 mm	470 x 494 x 180 mm	23,0 kg	1/2" aG	3/4" aG	10 m	DN 16	50 bar
9.08.16-V/2	09 064	520 x 210 x 500 mm	470 x 494 x 180 mm	23,0 kg	3/4" aG	1/2" aG	8 m	DN 16	Vakuum
9.08.20-V/2	09 069	520 x 210 x 500 mm	470 x 494 x 180 mm	24,0 kg	3/4" aG	3/4" aG	8 m	DN 20	Vakuum
9.08.20-AB	09 126	550 x 260 x 540 mm	475 x 460 x 196 mm	37,5 kg	3/4" aG	3/4" aG	8 m	DN 20	10 bar
9.15.20-AB	09 127	550 x 260 x 540 mm	495 x 460 x 246 mm	52,9 kg	3/4" aG	3/4" aG	15 m	DN 20	10 bar
9.10.6/6/2	09 067	500 x 500 x 500 mm	440 x 460 x 265 mm	17,0 kg	1/4" aG, 3/8" aG li	1/4" iG 3/8" iG li	10 m	DN 06/06	20 bar
9.15.6/6/2	09 068	500 x 500 x 500 mm	470 x 495 x 265 mm	19,0 kg	1/4" aG, 3/8" aG li	1/4" iG 3/8" iG li	15 m	DN 06/06	20 bar
9.10.6/6-HY/2	09 100	500 x 500 x 500 mm	460 x 460 x 265 mm	17,0 kg	3/8" aG	3/8" iG	10 m	DN 06/06	200 bar
9.10.8/8-HY/2	09 101	500 x 500 x 500 mm	470 x 495 x 265 mm	19,0 kg	3/8" aG	3/8" iG	10 m	DN 08/08	200 bar
9.10.10/10-HY/2	09 102	500 x 500 x 500 mm	470 x 495 x 266 mm	20,0 kg	3/8" aG	3/8" iG	10 m	DN 10/10	200 bar
9.10.12-HY/2	09 106	500 x 500 x 500 mm	470 x 494 x 360 mm	45,0 kg	1/2" aG 1/2" aG	1/2" iG 1/2" iG	10 m	DN 12/12	200 bar

### Series 9/E (stainless steel)

Model	part no.	package measure	construc. dimensions	weight	connection 1	connection 2	hose length	Hose-Ø	Max. pressure
9.12.06/E/3	09 017	480 x 210 x 470 mm	440 x 460 x 200 mm	15,0 kg	1/4" iG	1/4" aG	12 m	DN 06	400 bar
9.20.06/E/3	09 018	520 x 210 x 500 mm	470 x 494 x 200 mm	19,0 kg	1/4" iG	1/4" aG	20 m	DN 06	400 bar
9.12.08-HD/E/3	09 021	480 x 210 x 470 mm	440 x 460 x 180 mm	16,0 kg	M22 x 1,5 aG	M22 x 1,5 iG	12 m	DN 08	220 bar
9.20.08-HD/E/3	09 022	520 x 210 x 500 mm	470 x 494 x 180 mm	20,0 kg	M22 x 1,5 aG	M22 x 1,5 iG	20 m	DN 08	220 bar
9.12.10/E/3	09 008	480 x 210 x 470 mm	440 x 460 x 180 mm	16,0 kg	1/2" aG	3/8" aG	12 m	DN 10	50 bar
9.20.10/E/3	09 009	520 x 210 x 500 mm	470 x 494 x 180 mm	20,0 kg	1/2" aG	3/8" aG	20 m	DN 10	50 bar
9.12.10-PU/E/3	09 134	480 x 210 x 470 mm	440 x 460 x 180 mm	16,0 kg	1/2" aG	3/8" aG	12 m	DN 10	20 bar
9.20.10-PU/E/3	09 135	520 x 210 x 500 mm	470 x 494 x 180 mm	20,0 kg	1/2" aG	3/8" aG	20 m	DN 10	20 bar
9.12.10-TE/E/3	09 146	480 x 210 x 470 mm	440 x 460 x 180 mm	16,0 kg	1/2" aG	3/8" aG	12 m	DN 10	20 bar
9.20.10-TE/E/3	09 147	520 x 210 x 500 mm	470 x 494 x 180 mm	20,0 kg	1/2" aG	3/8" aG	20 m	DN 10	20 bar
9.12.10-Flex/E/3	09 144	480 x 210 x 470 mm	440 x 460 x 180 mm	16,0 kg	1/2" aG	3/8" aG	12 m	DN 10	20 bar
9.20.10-Flex/E/3	09 145	520 x 210 x 500 mm	470 x 494 x 180 mm	20,0 kg	1/2" aG	3/8" aG	20 m	DN 10	20 bar
9.10.12/E/3	09 010	480 x 210 x 470 mm	440 x 460 x 180 mm	17,0 kg	1/2" aG	1/2" aG	10 m	DN 12	50 bar
9.15.12/E/3	09 011	520 x 210 x 500 mm	470 x 494 x 180 mm	21,0 kg	1/2" aG	1/2" aG	15 m	DN 12	50 bar

## Technical information - Hose reels

### Series 9/E (stainless steel) – (continuation)

Model	part no.	package measure	construc. dimensions	weight	connection 1	connection 2	hose length	Hose-Ø	Max. pressure
9.20.12/E/3	09 012	520 x 210 x 500 mm	470 x 494 x 180 mm	21,0 kg	1/2" aG	1/2" aG	20 m	DN 12	50 bar
9.10.12-PU/E/3	09 136	480 x 210 x 470 mm	440 x 460 x 180 mm	17,0 kg	1/2" aG	1/2" aG	10 m	DN 12	20 bar
9.20.12-PU/E/3	09 137	520 x 210 x 500 mm	470 x 494 x 180 mm	21,0 kg	1/2" aG	1/2" aG	20 m	DN 12	20 bar
9.10.12-TE/E/3	09 148	480 x 210 x 470 mm	440 x 460 x 180 mm	17,0 kg	1/2" aG	1/2" aG	10 m	DN 12	20 bar
9.20.12-TE/E/3	09 149	520 x 210 x 500 mm	470 x 494 x 180 mm	21,0 kg	1/2" aG	1/2" aG	20 m	DN 12	20 bar
9.08.12-D/E/3	09 057	480 x 210 x 470 mm	440 x 460 x 180 mm	16,0 kg	1/2" aG	1/2" aG	8 m	DN 12	10 bar
9.12.12-D/E/3	09 058	520 x 210 x 500 mm	470 x 494 x 180 mm	21,0 kg	1/2" aG	1/2" aG	12 m	DN 12	10 bar
9.10.12/E/3*	09 209	480 x 210 x 470 mm	440 x 460 x 180 mm	12,0 kg	1/2" aG	1/2" aG	10 m	DN 12	40 bar
9.15.12/E/3*	09 210	520 x 210 x 500 mm	470 x 494 x 180 mm	15,0 kg	1/2" aG	1/2" aG	15 m	DN 12	40 bar
9.10.16/E/3	09 014	520 x 210 x 500 mm	470 x 494 x 180 mm	23,0 kg	1/2" aG	3/4" aG	8 m	DN 20	50 bar
9.08.16-V/E/3	09 087	520 x 210 x 500 mm	470 x 494 x 180 mm	23,0 kg	3/4" aG	1/2" aG	8 m	DN 16	Vakuum
9.08.20-V/E/3	09 088	520 x 210 x 500 mm	470 x 494 x 180 mm	24,0 kg	3/4" aG	3/4" aG	8 m	DN 20	Vakuum
9.10.6/6/E/3	09 122	500 x 500 x 500 mm	440 x 460 x 265 mm	17,0 kg	1/4" aG, 3/8" aG li	1/4" iG 3/8" iG li	10 m	DN 06/06	20 bar
9.15.6/6/E/3	09 123	500 x 500 x 500 mm	470 x 495 x 265 mm	19,0 kg	1/4" aG, 3/8" aG li	1/4" iG 3/8" iG li	15 m	DN 06/06	20 bar
9.10.6/6-HY/E/3	09 103	500 x 500 x 500 mm	440 x 460 x 265 mm	17,0 kg	3/8" aG	3/8" iG	10 m	DN 06/06	200 bar
9.10.8/8-HY/E/3	09 104	500 x 500 x 500 mm	470 x 495 x 265 mm	19,0 kg	3/8" aG	3/8" iG	10 m	DN 08/08	200 bar
9.10.10/10-HY/E/3	09 105	500 x 500 x 500 mm	470 x 495 x 266 mm	20,0 kg	3/8" aG	3/8" iG	10 m	DN 10/10	200 bar
9.10.12-HY2/E/3	09 107	500 x 500 x 500 mm	470 x 494 x 360 mm	45,0 kg	1/2" aG 1/2" aG	1/2" iG 1/2" iG	10 m	DN 12/12	200 bar

### Series 9-GS

Model	part no.	package measure	construc. dimensions	weight	connection 1	connection 2	hose length	Hose-Ø	Max. pressure
9.12.06-GS/2	09 051	560 x 560 x 200 mm	486 x 486 x 210 mm	22,0 kg	1/4" iG	1/4" aG	12 m	DN 06	400 bar
9.20.06-GS/2	09 052	560 x 560 x 200 mm	486 x 486 x 210 mm	26,0 kg	1/4" iG	1/4" aG	20 m	DN 06	400 bar
9.12.08-GS/HD/2	09 053	560 x 560 x 200 mm	486 x 486 x 205 mm	23,0 kg	M22 x 1,5 aG	M22 x 1,5 iG	12 m	DN 08	220 bar
9.20.08-GS/HD/2	09 054	560 x 560 x 200 mm	486 x 486 x 205 mm	27,0 kg	M22 x 1,5 aG	M22 x 1,5 iG	20 m	DN 08	220 bar
9.12.10-GS/2	09 045	560 x 560 x 200 mm	486 x 486 x 194 mm	23,0 kg	1/2" aG	3/8" aG	12 m	DN 10	50 bar
9.20.10-GS/2	09 046	560 x 560 x 200 mm	486 x 486 x 194 mm	27,0 kg	1/2" aG	3/8" aG	20 m	DN 10	50 bar
9.10.12-GS/2	09 047	560 x 560 x 200 mm	486 x 486 x 194 mm	24,0 kg	1/2" aG	1/2" aG	10 m	DN 12	50 bar
9.15.12-GS/2	09 048	560 x 560 x 200 mm	486 x 486 x 194 mm	28,0 kg	1/2" aG	1/2" aG	15 m	DN 12	50 bar
9.10.16-GS/2	09 050	560 x 560 x 200 mm	486 x 486 x 194 mm	24,0 kg	1/2" aG	3/4" aG	10 m	DN 16	50 bar
9.08.16-VGS/2	09 065	560 x 560 x 200 mm	486 x 486 x 194 mm	22,0 kg	3/4" aG	1/2" aG	8 m	DN 16	Vakuum
9.08.20-VGS/2	09 070	560 x 560 x 200 mm	486 x 486 x 194 mm	22,0 kg	3/4" aG	3/4" aG	8 m	DN 20	Vakuum

### Series 9-GS/E (stainless steel)

Model	part no.	package measure	construc. dimensions	weight	connection 1	connection 2	hose length	Hose-Ø	Max. pressure
9.12.06-GS/E/1	09 120	560 x 560 x 200 mm	486 x 486 x 210 mm	22,0 kg	1/4" iG	1/4" aG	12 m	DN 06	400 bar
9.20.06-GS/E/1	09 121	560 x 560 x 200 mm	486 x 486 x 210 mm	26,0 kg	1/4" iG	1/4" aG	20 m	DN 06	400 bar
9.12.08-GS/HD/E/1	09 116	560 x 560 x 200 mm	486 x 486 x 205 mm	23,0 kg	M22 x 1,5 aG	M22 x 1,5 iG	12 m	DN 08	220 bar
9.20.08-GS/HD/E/1	09 117	560 x 560 x 200 mm	486 x 486 x 205 mm	27,0 kg	M22 x 1,5 aG	M22 x 1,5 iG	20 m	DN 08	220 bar
9.12.10-GS/E/1	09 108	560 x 560 x 200 mm	486 x 486 x 194 mm	23,0 kg	1/2" aG	3/8" aG	12 m	DN 10	50 bar
9.20.10-GS/E/1	09 109	560 x 560 x 200 mm	486 x 486 x 194 mm	27,0 kg	1/2" aG	3/8" aG	20 m	DN 10	50 bar
9.10.12-GS/E/1	09 110	560 x 560 x 200 mm	486 x 486 x 194 mm	24,0 kg	1/2" aG	1/2" aG	10 m	DN 12	50 bar
9.15.12-GS/E/1	09 111	560 x 560 x 200 mm	486 x 486 x 194 mm	28,0 kg	1/2" aG	1/2" aG	15 m	DN 12	50 bar
9.08.12-DGS/E/1	09 118	560 x 560 x 200 mm	486 x 486 x 194 mm	24,0 kg	1/2" aG	1/2" aG	8 m	DN 12	10 bar
9.12.12-DGS/E/1	09 119	560 x 560 x 200 mm	486 x 486 x 194 mm	26,0 kg	1/2" aG	1/2" aG	12 m	DN 12	10 bar
9.10.16-GS/E/1	09 113	560 x 560 x 200 mm	486 x 486 x 194 mm	24,0 kg	1/2" aG	3/4" aG	10 m	DN 16	50 bar
9.08.16-VGS/E/2	09 114	560 x 560 x 200 mm	486 x 486 x 194 mm	22,0 kg	3/4" aG	1/2" aG	8 m	DN 16	Vakuum
9.08.20-VGS/E/2	09 115	560 x 560 x 200 mm	486 x 486 x 194 mm	22,0 kg	3/4" aG	3/4" aG	8 m	DN 20	Vakuum

### Series 9-154

Model	part no.	package measure	construc. dimensions	weight	connection 1	connection 2	hose length	Hose-Ø	Max. pressure
9.25.12*	09 301	650 x 450 x 650 mm	610 x 615 x 360 mm	34,0 kg	1/2" aG	1/2" aG	25 m	DN 12	45 bar
9.25.12-HD*	09 307	650 x 450 x 650 mm	610 x 615 x 360 mm	34,0 kg	1/2" aG	1/2" aG	25 m	DN 12	250 bar
9.20.20*	09 302	650 x 450 x 650 mm	610 x 615 x 360 mm	34,0 kg	1" aG	3/4" aG	20 m	DN 20	45 bar
9.15.25*	09 303	650 x 450 x 650 mm	610 x 615 x 360 mm	34,0 kg	1" aG	1" aG	15 m	DN 25	45 bar

\*Gewichtangaben ohne Schlauch

### Series 9-154/E (stainless steel)

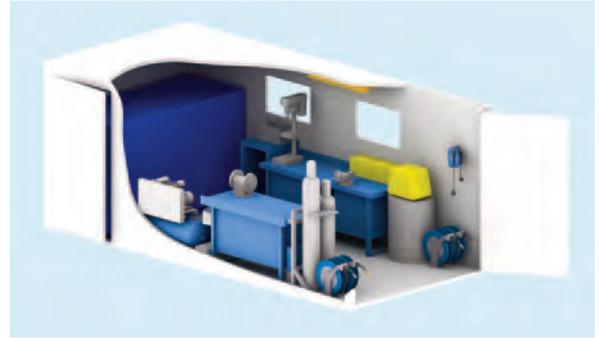
Model	part no.	package measure	construc. dimensions	weight	connection 1	connection 2	hose length	Hose-Ø	Max. pressure
9.25.12/E*	09 304	650 x 450 x 650 mm	610 x 615 x 360 mm	34,0 kg	1/2" aG	1/2" aG	25 m	DN 12	45 bar
9.25.12/E-HD*	09 308	650 x 450 x 650 mm	610 x 615 x 360 mm	34,0 kg	1/2" aG	1/2" aG	25 m	DN 12	250 bar
9.15.20-D/E	09 361	650 x 450 x 650 mm	610 x 615 x 360 mm	34,0 kg	1" aG	3/4" aG	15 m	DN 20	10 bar
9.20.20/E*	09 305	650 x 450 x 650 mm	610 x 615 x 360 mm	34,0 kg	1" aG	3/4" aG	20 m	DN 20	45 bar
9.10.25-D/E	09 362	650 x 450 x 650 mm	610 x 615 x 360 mm	34,0 kg	1" aG	1" aG	10 m	DN 25	10 bar
9.15.25/E*	09 306	650 x 450 x 650 mm	610 x 615 x 360 mm	34,0 kg	1" aG	1" aG	15 m	DN 25	45 bar

\*Gewichtangaben ohne Schlauch

## Technical information - Signalling Retractors

### Series 1 + 3

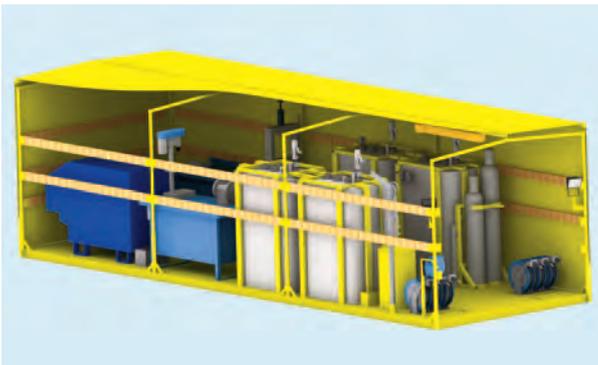
Model	part no.	package measure	construc. dimensions	weight	connection 1	connection 2	length	Hose-Ø	Max. pressure
1.20.BA-R	01 080	300 x 295 x 155 mm	310 x 290 x 145 mm	2,5 kg	-	-	20 m, rot/weiß	Bänderole	-
1.20.BA-G	01 082	300 x 295 x 155 mm	310 x 290 x 145 mm	2,5 kg	-	-	20 m, gelb/schwarz	Bänderole	-
3.20.GK-R	03 080	400 x 340 x 170 mm	380 x 375 x 155 mm	9,0 kg	-	-	20 m, rot/weiß	Gliederkette	-
3.20.GK-G	03 081	400 x 340 x 170 mm	380 x 375 x 155 mm	9,0 kg	-	-	20 m, gelb/schwarz	Gliederkette	-



Since 1948 **RAPID special truck bodies**, service platforms or -containers have been used on large building sites nearly all over the world.

Wherever large machines have to be maintained on location RAPID service stations are the solution for fast and efficient handling.

This way of maintenance guarantees the optimal use of the customer's working machines.





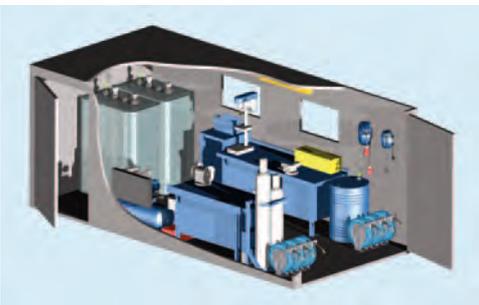
Up until today **RAPID special truck bodies** stands for high quality craftsmanship in the field of truck constructors.

The severe German regulations of StVo in accordance with GGVS are considered as well.

In addition we offer you to take care of the road traffic concession in Germany.

We count all German truck constructors as well as numerous international building companies to our customers.

**We are looking forward to your inquiry!**





Since 1948 RAPID has been the term for central oil, grease and pneumatic air conveying systems either approved or not approved as well as for waste oil disposal.

These conveying units, each individually planned to meet the customer's request enable exact and fast supply of the needed fluids guarantee a fast and smooth working performance.



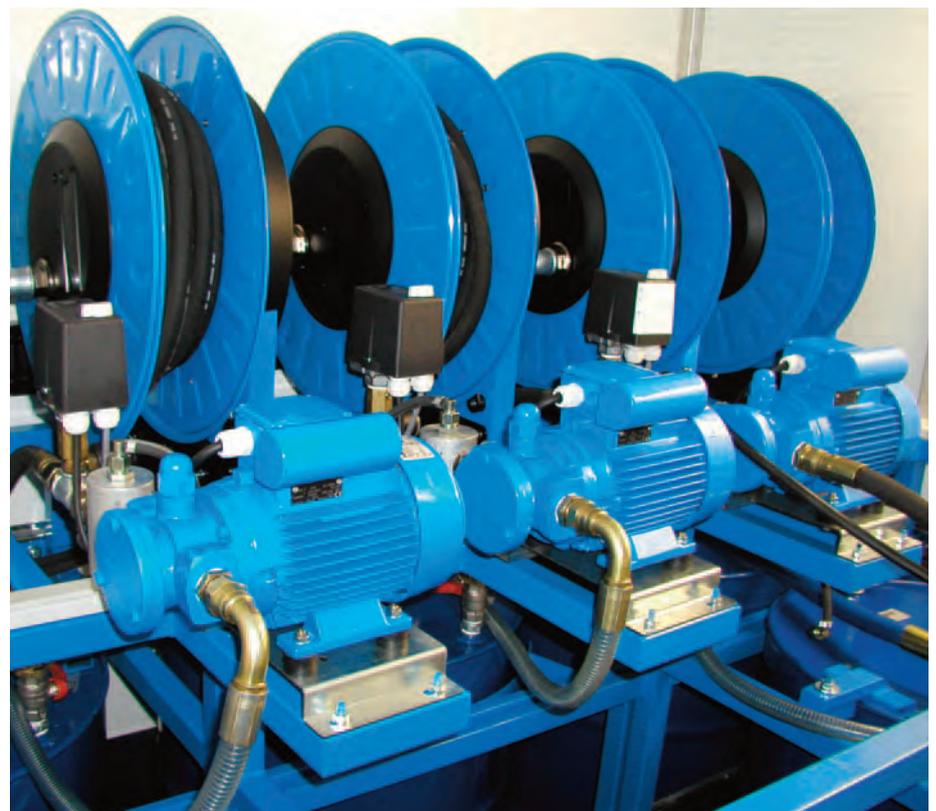


**RAPID-Plant construction** is an officially authorised factory according to § 19 I WHG and therefore entitled to assemble units for water polluting and flammable fluids. The regulation of VAWS are also regarded. We handle for you the TÜV-licence of our conveying system.

It would be our pleasure to make our quotation for your oil, grease and pneumatic air conveying units as well as for your waste oil disposal.

So, do not hesitate - take our long lasting experience to your advantage and enjoy the service of a customer-oriented company that can provide tailor-made solutions for any of today's complex problems.

We call the use of our products a "Must" for innovative companies.

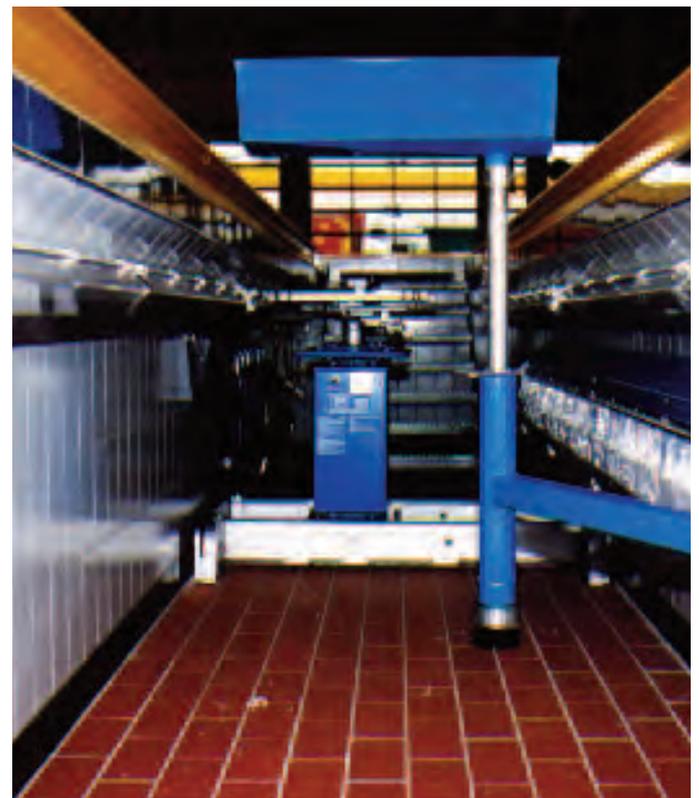




**Rapid - Plant construction** is the inspiration for your individual plant from the beginning until the end of the installation.

At the beginning of the cooperation stands the selection of the right pumps, the diameter of the pipe lines and the nozzels regarding the needed output.

The supervising of electronically controlled conveying systems is part of our production range as well. Thus enables you to verify each time what, and how much has been taken when and by whom.



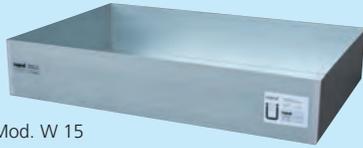


**RAPID-Plant construction** designs according to your conceptions and wishes your individual conveying system by using modern CAD technology and years of experience.

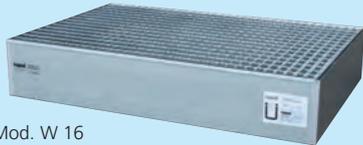
That gives us the opportunity to show you different possibilities, so you can choose the one, which is best for your purposes.



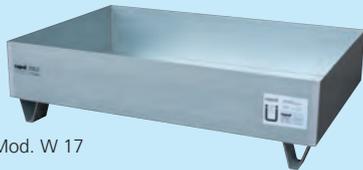
**RAPID-drain pans are type examination tested according to the quality mark, TÜV-Hessen, WS-Ü 12/12-01 building code A part 1, consecutive no.: 15.22**



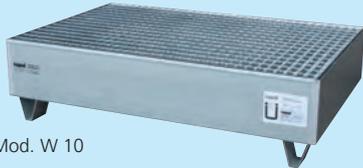
Mod. W 15



Mod. W 16



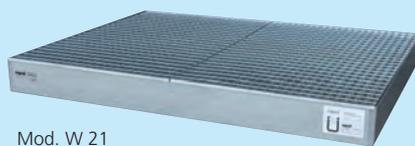
Mod. W 17



Mod. W 10



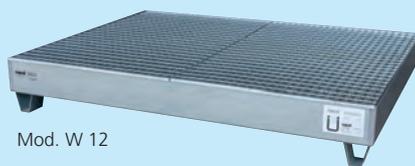
Mod. W 20



Mod. W 21



Mod. W 22



Mod. W 12

**Application examples:**  
Regarding the allowed total volume of media stored in drain pan kindly refer for detailed to national and local rules and regulations.

**Drain pan**

Drain pans are especially designed for the use in areas of water pollution control and pollution prevention. They are licensed by the regulations of the German Federal Office of technical Physics and are suitable for oil barrels and other containers, which store water hazardous liquids.

**Model W 15**

- Drain pan without grid and feet, galvanised
- Capacity of pan 210 ltr.
- Max. load 500 kg, weight approx. 43 kg
- Dim. approx. 800 x 1200 x 225 mm (L x W x H)



**25 023**

**333,41**

**Model W 16**

- Drain pan with grid and without feet, galvanised
- Capacity of pan 210 ltr.
- Max. load 500 kg, weight approx. 58 kg
- Dim. approx. 800 x 1200 x 225 mm (L x W x H)



**25 024**

**393,16**

**Model W 17**

- Drain pan without grid but with feet, galvanised
- Capacity of pan 210 ltr.
- Max. load 500 kg, weight approx. 45 kg
- Dim. approx. 800 x 1200 x 325 mm (L x W x H)



**25 025**

**369,26**

**Model W 10**

- Drain pan with grid and feet, galvanised
- Capacity of pan 210 ltr.
- Max. load 500 kg, weight approx. 60 kg
- Dim. approx. 800 x 1200 x 325 mm (L x W x H)



**25 001**

**429,01**

**Plus transport charges for Mod. W (800 mm length)**

Request

**Model W 20**

- Drain pan without grid and feet, galvanised
- Capacity of pan 260 ltr.
- Max. load 1000 kg, weight approx. 64 kg
- Dim. approx. 1200 x 1600 x 140 mm (L x W x H)



**25 026**

**405,11**

**Model W 21**

- Drain pan with grid but without feet, galvanised
- Capacity of pan 260 ltr.
- Max. load 1000 kg, weight approx. 104 kg
- Dim. approx. 1200 x 1600 x 140 mm (L x W x H)



**25 027**

**524,61**

**Model W 22**

- Drain pan without grid but with feet, galvanised
- Capacity of pan 260 ltr.
- Max. load 1000 kg, weight approx. 79 kg
- Dim. approx. 1200 x 1600 x 240 mm (L x W x H)



**25 028**

**440,96**

**Model W 12**

- Drain pan with grid and feet, galvanised
- Capacity of pan 260 ltr.
- Max. load 1000 kg, weight approx. 109 kg
- Dim. approx. 1200 x 1600 x 240 mm (L x W x H)



**25 003**

**560,46**

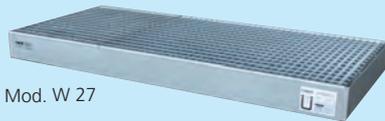
**Plus transport charges for Mod. W (1200 mm length)**

Request

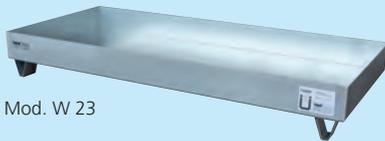
**RAPID-drain pans are type examination tested according to the quality mark, TÜV-Hessen, WS-Ü 12/12-01 building code A part 1, consecutive no.: 15.22**



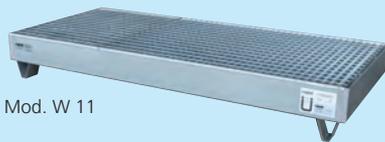
Mod. W 24



Mod. W 27



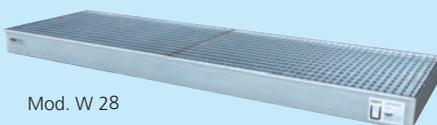
Mod. W 23



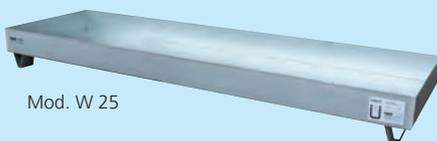
Mod. W 11



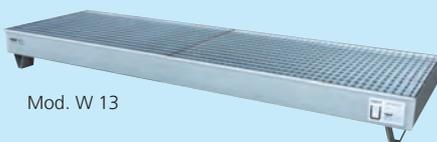
Mod. W 26



Mod. W 28



Mod. W 25



Mod. W 13

**Application examples:**  
Regarding the allowed total volume of media stored in drain pan kindly refer for detailed to national and local rules and regulations.

**Drain Pan**

Drain pans are especially designed for the use in areas of water pollution control and pollution prevention. They are licensed by the regulations of the German Federal Office of technical Physics and are suitable for oil barrels and other containers, which store water hazardous liquids.

**Modell W 24**

Drain pan without grid and feet, galvanised for max. three 200 ltr.-barrels   
 ■ Capacity of pan 210 ltr.  
 ■ Max. load 800 kg, weight approx. 52 kg  
 ■ Dim. approx. 1800 x 800 x 150 mm (L x W x H)

**Modell W 27**

Drain pan with grid and without feet, galvanised for max. three 200 ltr.-barrels   
 ■ Capacity of pan 210 ltr.  
 ■ Max. load 800 kg, weight approx. 75 kg  
 ■ Dim. approx. 1800 x 800 x 150 mm (L x W x H)

**Modell W 23**

Drain pan without grid and with feet, galvanised for max. three 200 ltr.-barrels   
 ■ Capacity of pan 210 ltr.  
 ■ Max. load 800 kg, weight approx. 55 kg  
 ■ Dim. approx. 1800 x 800 x 250 mm (L x W x H)

**Modell W 11**

Drain pan with grid and feet, galvanised for max. three 200 ltr.-barrels   
 ■ Capacity of pan 210 ltr.  
 ■ Max. load 800 kg, weight approx. 78 kg  
 ■ Dim. approx. 1800 x 800 x 250 mm (L x W x H)

**Plus transport charges for Mod. W (1800 mm length)**

**Modell W 26**

Drain pan without grid and feet, galvanised for max. four 200 ltr.-barrels   
 ■ Capacity of pan 240 ltr.  
 ■ Max. load 1000 kg, weight approx. 62 kg  
 ■ Dim. approx. 2400 x 800 x 120 mm (L x W x H)

**Modell W 28**

Drain pan with grid and without feet, galvanised for max. four 200 ltr.-barrels   
 ■ Capacity of pan 240 ltr.  
 ■ Max. load 1000 kg, weight approx. 95 kg  
 ■ Dim. approx. 2400 x 800 x 120 mm (L x W x H)

**Modell W 25**

Drain pan without grid and with feet, galvanised for max. four 200 ltr.-barrels   
 ■ Capacity of pan 240 ltr.  
 ■ Max. load 1000 kg, weight approx. 65 kg  
 ■ Dim. approx. 2400 x 800 x 220 mm (L x W x H)

**Modell W 13**

Drain pan with grid and feet, galvanised for max. four 200 ltr.-barrels   
 ■ Capacity of pan 240 ltr.  
 ■ Max. load 1000 kg, weight approx. 98 kg  
 ■ Dim. approx. 2400 x 800 x 220 mm (L x W x H)

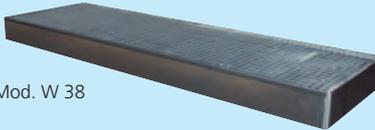
**Plus transport charges for Mod. W (2400 mm length)**

part no.	price EUR
25 030	405,11
25 033	524,61
25 029	440,96
25 006	560,46
	Request
25 032	429,01
25 034	548,51
25 031	476,81
25 007	596,31
	Request

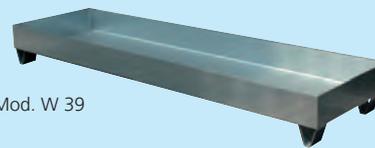
**RAPID-drain pans are type examination tested according to the quality mark, TÜV-Hessen, WS-Ü 12/12-01 building code A part 1, consecutive no.: 15.22**



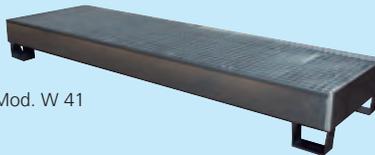
Mod. W 37



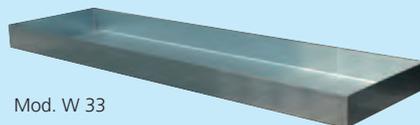
Mod. W 38



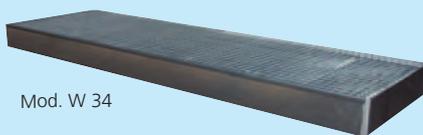
Mod. W 39



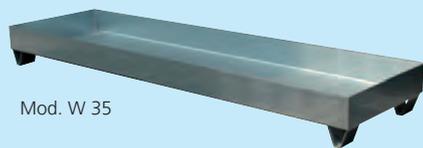
Mod. W 41



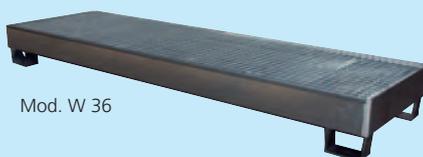
Mod. W 33



Mod. W 34



Mod. W 35



Mod. W 36

**Application examples:**

Regarding the allowed total volume of media stored in drain pan kindly refer for detailed to national and local rules and regulations.

**Drain pans for storage facility**

Drain pans are especially designed for the use in areas of water pollution control and pollution prevention. They are licensed by the regulations of the German Federal Office of technical Physics and are suitable for oil barrels and other containers, which store water hazardous liquids.

**Model W 37**

- Drain pan without grid and feet, galvanised
- Capacity of pan 390 ltr.
- Max. load 1000 kg, weight approx. 75 kg
- Dim. approx. 1775 x 1100 x 200 mm (L x W x H)

**Model W 38**

- Drain pan with grid and without feet, galvanised
- Capacity of pan 390 ltr.
- Max. load 1000 kg, weight approx. 115 kg
- Dim. approx. 1775 x 1100 x 200 mm (L x W x H)

**Model W 39**

- Drain pan without grid but with feet, galvanised
- Capacity of pan 390 ltr.
- Max. load 1000 kg, weight approx. 80 kg
- Dim. approx. 1775 x 1100 x 300 mm (L x W x H)

**Model W 41**

- Drain pan with grid and feet, galvanised
- Capacity of pan 390 ltr.
- Max. load 1000 kg, weight approx. 120 kg
- Dim. approx. 1775 x 1100 x 300 mm (L x W x H)

**Plus transport charges for Mod. W (1775 mm length)**

**Model W 33**

- Drain pan without grid and feet, galvanised
- Capacity of pan 500 ltr.
- Max. load 1000 kg, weight approx. 105 kg
- Dim. approx. 2650 x 1200 x 150 mm (L x W x H)

**Model W 34**

- Drain pan with grid and without feet, galvanised
- Capacity of pan 500 ltr.
- Max. load 1000 kg, weight approx. 165 kg
- Dim. approx. 2650 x 1200 x 150 mm (L x W x H)

**Model W 35**

- Drain pan without grid but with feet, galvanised
- Capacity of pan 500 ltr.
- Max. load 1000 kg, weight approx. 105 kg
- Dim. approx. 2650 x 1200 x 250 mm (L x W x H)

**Model W 36**

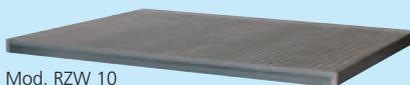
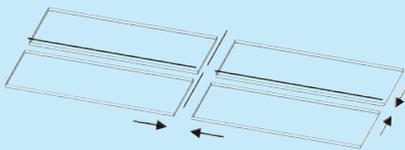
- Drain pan with grid and feet, galvanised
- Capacity of pan 500 ltr.
- Max. load 1000 kg, weight approx. 170 kg
- Dim. approx. 2650 x 1200 x 250 mm (L x W x H)

**Plus transport charges for Mod. W (2650 mm length)**

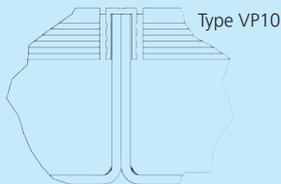
part no.	price EUR
25 043	620,21
25 044	775,56
25 045	679,96
25 046	835,31
	Request
25 039	763,61
25 040	918,96
25 041	823,36
25 042	978,71
	Request



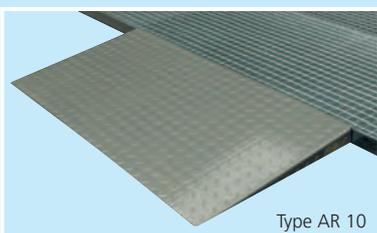
RAPID-drain pans are type examination tested according to the quality mark, TÜV-Hessen, WS-Ü 12/12-01 building code A part 1, consecutive no.: 15.22



Mod. RZW 10



Type VP10



Type AR 10

### Idle State Pan

Collecting pan with grid and without feet, galvanized. For all mobile oil- and grease dispenser machines in idle state, in order to comply with regulations according to Water Resources Act (WHG).

### Model RZW 10

Ideal for the storage of ÖAM models in idle state capacity of trough 230 ltr.

- Capacity of pan 230 ltr.
- Weight approx. 230 kg
- Load max. 2t wheel pressure on load area 200 x 200 mm
- Dim. approx. 2840 x 1340 x 82 mm (L x W x H)

Carrying charges for model RZW not included

### Accessories

#### Steel channel for RZW 10 type VP10Q

- For linking drain pans crosswise (L= 1390 mm)
- Steel sheet zinc coated

#### Steel channel for RZW 10 type VP10L

- For linking drain pans lengthwise (L= 2890 mm)
- Steel sheet, zinc coated

#### Ramp for RZW 10 type AR10

- Steel sheet zinc coated
- Load 250 kg
- Dim. approx. 990 x 600 x 80 mm (L x W x H)
- Weight approx. 19 kg

part no. price EUR

25 053 1.541,55

Request

25 505 34,66

25 506 58,56

25 507 417,06

**RAPID-drain pans are type examination tested according to the quality mark, TÜV-Hessen, WS-Ü 12/12-01 building code A part 1, consecutive no.: 15.22**



Mod. W 01



Mod. W 02



Mod. W 03



Mod. WF 15



Mod. WF 16

**Application examples:**

Regarding the allowed total volume of media stored in drain pan kindly refer for detailed to national and local rules and regulations.

**Drain pans**

Drain pans are especially designed for the use in areas of water pollution control and pollution prevention. They are licensed by the regulations of the German Federal Office of technical Physics and are suitable for oil barrels and other containers, which store water hazardous liquids.

**Model W 01**

Drain pan without grid but with feet, galvanised  
Ideal for small casks like canisters, cans etc.

- Capacity of pan 68 ltr.
- Weight approx. 23 kg
- Dim. approx. 855 x 540 x 204 mm (L x W x H)

**Model W 02**

Drain pan without grid but with feet, galvanised  
Ideal for small casks like canisters, cans etc.

- Capacity of pan 79 ltr.
- Weight approx. 28 kg
- Dim. approx. 920 x 865 x 154 mm (L x W x H)

**Model W 03**

Drain pan without grid but with feet, galvanised  
Ideal for small casks like canisters, cans etc.

- Capacity of pan 100 ltr.
- Weight approx. 34 kg
- Dim. approx. 1235 x 810 x 154 mm (L x W x H)

**Plus transport charges for Mod. W 01 - W 03**

**Drip pan, movable**

Drip pan especially designed for in-plant transport of 200 ltr-drum. Meet all requirements of the Water Resource Act (WHG). Easily movable thanks to 2 castors and handle bar with drum locking.

**Model WF 15**

Movable drain pan without grid, galvanized

- Capacity of pan 210 ltr.
- 4 wheels made of polyamide, thereof 2 castors
- Handle bar with drum locking
- Max. load 500 kg, weight approx. 52 kg
- Dim. approx. 800 x 1250 x 385 mm (L x W x H)

**Model WF 16**

Movable drain pan with grid, galvanized

- Wannenvolumen 210 Ltr.
- 4 wheels made of polyamide, thereof 2 castors
- Handle bar with drum locking
- Max. load 500 kg, weight approx. 68 kg
- Dim. approx. 800 x 1250 x 385 mm (L x W x H)

**Plus transport charges for Mod. WF**

part no.	price EUR
25 047	273,66
25 048	285,61
25 049	297,56
	Request
25 055	835,31
25 056	895,06
	Request



**Barrel Handling Devices**

**Hoisting Crane For Barrel Model FHK 200**

- Hoisting crane for easy handling of barrels.  
Easy moving by big hydraulic cylinder.  
Extendable load arm, twice adjustable.
- Load capacity 450 or 900 kg – depending on extension of load arm
  - Mounting bracket approx. 270 x 270 mm, with 8 x 16 mm drill holes.
  - Dim. in hinged position: approx. 500 x 270 x 1400 mm (LxWxH)
  - Weight approx. 46 kg
  - Incl. barrel plier model FZ 200

**Jack lift Modell HW 200/1**

- Jack lift to transport and to lift barrels, height of lift max. 500 mm, fits without problems on drain pans with feet.
- For barrels up to 210 ltr.
  - 2 steering rollers and rollers each
  - Hydraulic lift cylinder with foot pump

**Barrel cart Model FK 200**

- For effortless installation and removal of full 200 ltr. barrels on drain pans by just one Person.
- Max. lift height 3565 mm
  - For 50 – 200 ltr. barrels

**Barrel cart Model FK 200**

- Barrel cart for the transport of 200 ltr.-barrels

**Plus transport charges for barrel handling devices**

**Accessories for barrels**

**Gripper for barrel model FZ 200**

- Gripper for standing 200 ltr.-barrel, lifting bracket

**Level indicator model FA 200**

- Liquid level indicator for 200 ltr.-barrel, G 3/8"

**Barrel key model FS 200**

- Barrel key for 60-200 ltr.-barrels



**Taper wedge model FK 10**

- Taper wedge made of steel sheet for sloping 200 ltr barrels for better and easier emptying, height 100 mm

part no. price EUR

25 147 1.069,53

25 117 1.492,56

25 118 1.193,81

25 100 596,31

Request

25 101 357,31

27 145 58,56

25 102 58,56

25 124 34,66



Mod. AFP 650/1-K

Mod. AFP 1050/2-K

Mod. AFP 1350/1-K

Combination example with barrels

## Filling places, barrel racks

For the environmentally friendly storage of original casks with water endangering fluids such as engine oil, gearbox oil, hydraulic oil and others. Integrated into the barrel racks are drain pans, which are up to building code of TÜV-Hessen and are suitable for the storage of water hazardous fluids.

### Model AFP 650/1-K 100 kg per level

- For 4 x 20 ltr. canisters
- Drain pan W 01, 68 ltr. volume
- Dim. approx. 650 x 816 x 1140 mm (L x W x H)



### Model AFP 650/2-K 100 kg per level

- For 6 x 20 ltr. canisters
- Drain pan W 01, 68 ltr. volume
- Dim. approx. 650 x 816 x 2000 mm (L x W x H)



### Model AFP 1050/1-K 150 kg per level

- For 4 x 20 ltr. canisters and 1 gridded shelf
- Drain pan W 02, 79 ltr. volume
- Dim. approx. 1050 x 816 x 1140 mm (L x W x H)



### Model AFP 1050/2-K 150 kg per level

- For 8 x 20 ltr. canisters
- Drain pan W 02, 79 ltr. volume
- Dim. approx. 1050 x 816 x 1140 mm (L x W x H)



### Model AFP 1050/3-K 150 kg per level

- For 8 x 20 ltr. canisters and 1 gridded shelf
- Drain pan W 02, 79 ltr. volume
- Dim. approx. 1050 x 816 x 2000 mm (L x W x H)



### Model AFP 1350/1-K 200 kg per level

- For 10 x 20 ltr. canisters
- Drain pan W 03, 100 ltr. volume
- Dim. approx. 1350 x 816 x 1140 mm (L x W x H)



### Model AFP 1350/2-K 200 kg per level

- For 5 x 20 ltr. canisters and 1 gridded shelf
- Drain pan W 03, 100 ltr. volume
- Dim. approx. 1350 x 816 x 1140 mm (L x W x H)



### Model AFP 1350/3-K 200 kg per level

- For 5 x 20 ltr. canisters and 2 gridded shelf
- Drain pan W 03, 79 ltr. volume
- Dim. approx. 1350 x 816 x 2000 mm (L x W x H)



### Model AFP 1350/4-K 200 kg per level

- For 10 x 20 ltr. canisters and 1 gridded shelf
- Drain pan W 03, 100 ltr. volume
- Dim. approx. 1350 x 816 x 2000 mm (L x W x H)



Plus transport charges for Mod. AFP 650, 1050, 1350

Request

## Accessories

### Carrier for cans type KT

- Dim. approx. 350 x 300 x 20 mm (L x W x H)

25 103 58,56

### Barrel racks (W=650 mm) type FA 650

25 128 166,11

### Barrel racks (W=1050 mm) type FA 1050

25 106 190,01

### Barrel racks (W=1350 mm) type FA 1350

25 107 213,91

### Canister racks (W=650 mm) type KA 650

25 157 22,71

### Canister racks (W=1050 mm) type KA 1050

25 158 46,61

### Canister racks (W=1350 mm) type KA 1350

25 159 70,51

**NEW**



Mod. EFP 650/1-K



Mod. EFP 1050/2-K



Mod. EFP 1350/1-K

**Attention!**

The racks shown on this page are extension racks. For use you need the basic rack.



Type AH 55



Type AH 60

**Filling places, barrel racks**

For the environmentally friendly storage of original casks with water endangering fluids such as engine oil, gearbox oil, hydraulic oil and others. Integrated into the barrel racks are drain pans, which are up to building code of TÜV-Hessen and are suitable for the storage of water hazardous fluids.

**Model EFP 650/1-K 100 kg per level**

- For 4 x 20 ltr. canisters
- Drain pan W 01, 68 ltr. volume
- Dim. approx. 650 x 816 x 1140 mm (L x W x H)



**Model EFP 650/2-K 100 kg per level**

- For 6 x 20 ltr. canisters
- Drain pan W 01, 68 ltr. volume
- Dim. approx. 650 x 816 x 2000 mm (L x W x H)



**Model EFP 1050/1-K 150 kg per level**

- For 4 x 20 ltr. canisters and 1 gridded shelf
- Drain pan W 02, 79 ltr. volume
- Dim. approx. 1050 x 816 x 1140 mm (L x W x H)



**Model EFP 1050/2-K 150 kg per level**

- For 8 x 20 ltr. canisters
- Drain pan W 02, 79 ltr. volume
- Dim. approx. 1050 x 816 x 1140 mm (L x W x H)



**Model EFP 1050/3-K 150 kg per level**

- For 8 x 20 ltr. canisters and 1 gridded shelf
- Drain pan W 02, 79 ltr. volume
- Dim. approx. 1050 x 816 x 2000 mm (L x W x H)



**Model EFP 1350/1-K 200 kg per level**

- For 10 x 20 ltr. canisters
- Drain pan W 03, 100 ltr. volume
- Dim. approx. 1350 x 816 x 1140 mm (L x W x H)



**Model EFP 1350/2-K 200 kg per level**

- For 5 x 20 ltr. canisters and 1 gridded shelf
- Drain pan W 03, 100 ltr. volume
- Dim. approx. 1350 x 816 x 1140 mm (L x W x H)



**Model EFP 1350/3-K 200 kg per level**

- For 5 x 20 ltr. canisters and 2 gridded shelf
- Drain pan W 03, 79 ltr. volume
- Dim. approx. 1350 x 816 x 2000 mm (L x W x H)



**Model EFP 1350/4-K 200 kg per level**

- For 10 x 20 ltr. canisters and 1 gridded shelf
- Drain pan W 03, 100 ltr. volume
- Dim. approx. 1350 x 816 x 2000 mm (L x W x H)



**Plus transport charges for Mod. AFP 650, 1050, 1350**

Request

**Accessories**

**Carrier for cans type KT**

- Dim. approx. 350 x 300 x 20 mm (L x W x H)

25 103 58,56

**Gridded shelf (W=650 mm) type GA 650**

25 121 130,26

**Gridded shelf (W=1050 mm) type GA 1050**

25 104 154,16

**Gridded shelf (W=1350 mm) type GA 1350**

25 105 178,06

**Drain cock for canisters type AH 55**

- For canister-threads 55 mm

25 119 27,37

**Drain cock for canisters type AH 60**

- For canister-threads 60 mm

25 120 29,76



Mod. AFP 650/1



Mod. AFP 1050/2



Mod. AFP 1350/2



Mod. AFP 1350/1

## Filling places, barrel racks

For the environmentally friendly storage of original casks with water endangering fluids such as engine oil, gearbox oil, hydraulic oil and others. Integrated into the barrel racks are drain pans, which are up to building code of TÜV-Hessen and are suitable for the storage of water hazardous fluids.

### Model AFP 650/1 100 kg per level

- For 2 x 60 ltr.-barrels
- Drain pan W 01, 68 ltr. volume
- Dim. approx. 650 x 816 x 1140 mm (L x W x H)



### Model AFP 650/2 100 kg per level

- For 3 x 60 ltr.-barrels
- Drain pan W 01, 68 ltr. volume
- Dim. approx. 650 x 816 x 2000 mm (L x W x H)



### Model AFP 1050/1 150 kg per level

- For 2 x 60 ltr.-barrels and 1 gridded shelf
- Drain pan W 02, 79 ltr. volume
- Dim. approx. 1050 x 816 x 1140 mm (L x W x H)



### Model AFP 1050/2 150 kg per level

- For 4 x 60 barrels
- Drain pan W 02, 79 ltr. volume
- Dim. approx. 1050 x 816 x 1140 mm (L x W x H)



### Model AFP 1050/3 150 kg per level

- For 4 x 60 ltr.-barrels and 1 gridded shelf
- Drain pan W 02, 79 ltr. volume
- Dim. approx. 1050 x 816 x 2000 mm (L x W x H)



### Model AFP 1350/1 200 kg per level

- For 6 x 60 ltr.-barrels
- Drain pan W 03, 100 ltr. volume
- Dim. approx. 1350 x 816 x 1140 mm (L x W x H)



### Model AFP 1350/2 200 kg per level

- For 3 x 60 ltr.-barrels and 1 gridded shelf
- Drain pan W 03, 100 ltr. volume
- Dim. approx. 1350 x 816 x 1140 mm (L x W x H)



### Model AFP 1350/3 200 kg per level

- For 3 x 60 ltr.-barrels and 2 gridded shelves
- Drain pan W 03, 100 ltr. volume
- Dim. approx. 1350 x 816 x 2000 mm (L x W x H)



### Model AFP 1350/4 200 kg per level

- For 6 x 60 ltr.-barrels and 1 gridded shelf
- Drain pan W 03, 100 ltr. volume
- Dim. approx. 1350 x 816 x 2000 mm (L x W x H)



**Carrying charges for AFP 650, 1050, 1350 units not included**

Request

## Accessories

### Carrier for cans type KT

- Dim. approx. 350 x 300 x 20 mm (L x W x H)

25 103 58,56

### Gridded shelf (W=650 mm) type GA 650

25 121 130,26

### Gridded shelf (W=1050 mm) type GA 1050

25 104 154,16

### Gridded shelf (W=1350 mm) type GA 1350

25 105 178,06

### Barrel racks (W=650 mm) type FA 650

25 128 166,11

### Barrel racks (W=1050 mm) type FA 1050

25 106 190,01

### Barrel racks (W=1350 mm) type FA 1350

25 107 213,91

**NEW**



Mod. EFP 650/1



Mod. EFP 1050/2



Mod. EFP 1350/2



Mod. EFP 1350/1

Type KT/1

**Filling places, barrel racks**

For the environmentally friendly storage of original casks with water endangering fluids such as engine oil, gearbox oil, hydraulic oil and others. Integrated into the barrel racks are drain pans, which are up to building code of TÜV-Hessen and are suitable for the storage of water hazardous fluids.

**Model EFP 650/1 100 kg per level**

- For 2 x 60 ltr.-barrels
- Drain pan W 01, 68 ltr. volume
- Dim. approx. 650 x 800 x 1140 mm (L x W x H)



**Model EFP 650/2 100 kg per level**

- For 3 x 60 ltr.-barrels
- Drain pan W 01, 68 ltr. volume
- Dim. approx. 650 x 800 x 2000 mm (L x W x H)



**Model EFP 1050/1 150 kg per level**

- For 2 x 60 ltr.-barrels and 1 gridded shelf
- Drain pan W 02, 79 ltr. volume
- Dim. approx. 1050 x 800 x 1140 mm (L x W x H)



**Model EFP 1050/2 150 kg per level**

- For 4 x 60 barrels
- Drain pan W 02, 79 ltr. volume
- Dim. approx. 1050 x 800 x 1140 mm (L x W x H)



**Model EFP 1050/3 150 kg per level**

- For 4 x 60 ltr.-barrels and 1 gridded shelf
- Drain pan W 02, 79 ltr. volume
- Dim. approx. 1050 x 800 x 2000 mm (L x W x H)



**Model EFP 1350/1 200 kg per level**

- For 6 x 60 ltr.-barrels
- Drain pan W 03, 100 ltr. volume
- Dim. approx. 1350 x 800 x 1140 mm (L x W x H)



**Model EFP 1350/2 200 kg per level**

- For 3 x 60 ltr.-barrels and 1 gridded shelf
- Drain pan W 03, 100 ltr. volume
- Dim. approx. 1350 x 800 x 1140 mm (L x W x H)



**Model EFP 1350/3 200 kg per level**

- For 3 x 60 ltr.-barrels and 2 gridded shelves
- Drain pan W 03, 100 ltr. volume
- Dim. approx. 1350 x 800 x 2000 mm (L x W x H)



**Model EFP 1350/4 200 kg per level**

- For 6 x 60 ltr.-barrels and 1 gridded shelf
- Drain pan W 03, 100 ltr. volume
- Dim. approx. 1350 x 800 x 2000 mm (L x W x H)



**Carrying charges for EFP 650, 1050, 1350 units not included**

Request

**Accessories**

**Carrier for cans type KT**

- Dim. approx. 350 x 300 x 20 mm (L x W x H)

25 103 58,56

**Gridded shelf (W=650 mm) type GA 650**

25 121 130,26

**Gridded shelf (W=1050 mm) type GA 1050**

25 104 154,16

**Gridded shelf (W=1350 mm) type GA 1350**

25 105 178,06

**Barrel racks (W=650 mm) type FA 650**

25 128 166,11

**Barrel racks (W=1050 mm) type FA 1050**

25 106 190,01

**Barrel racks (W=1350 mm) type FA 1350**

25 107 213,91



### Filling places, barrel racks

For the environmentally friendly storage of original casks with water endangering fluids such as engine oil, gearbox oil, hydraulic oil and others. Integrated into the barrel racks are drain pans, which are up to building code of TÜV-Hessen and are suitable for the storage of water hazardous fluids.

Model	Capacity	Icon
<b>Model AFP 915/2</b>	<b>300 kg per Level</b>	
<ul style="list-style-type: none"> <li>For 2 x 60 ltr. Barrel and 2 wooden shelves</li> <li>60 ltr. Collection volume</li> <li>Dim. approx. 915 x 610 x 1860 mm (L x W x H)</li> </ul>		
<b>Model AFP 915/4</b>	<b>300 kg per Level</b>	
<ul style="list-style-type: none"> <li>For 4 x 60 ltr. Barrel and 2 wooden shelves</li> <li>60 ltr. Collection volume</li> <li>Dim. approx. 915 x 610 x 1860 mm (L x W x H)</li> </ul>		
<b>Model AFP 915/6</b>	<b>300 kg per Level</b>	
<ul style="list-style-type: none"> <li>For 6 x 60 ltr. Barrel and 2 wooden shelves</li> <li>60 ltr. Collection volume</li> <li>Dim. approx. 915 x 610 x 1860 mm (L x W x H)</li> </ul>		

### Extension For Filling Places

Model	Capacity	Icon
<b>Model EFP 915/2</b>	<b>300 kg per Level</b>	
<ul style="list-style-type: none"> <li>For 2 x 60 ltr. Barrel and 2 wooden shelves</li> <li>60 ltr. Collection volume</li> <li>Dim. approx. 915 x 600 x 1860 mm (L x W x H)</li> </ul>		
<b>Model EFP 915/4</b>	<b>300 kg per Level</b>	
<ul style="list-style-type: none"> <li>For 4 x 60 ltr. Barrel and 2 wooden shelves</li> <li>60 ltr. Collection volume</li> <li>Dim. approx. 915 x 600 x 1860 mm (L x W x H)</li> </ul>		
<b>Model EFP 915/6</b>	<b>300 kg per Level</b>	
<ul style="list-style-type: none"> <li>For 6 x 60 ltr. Barrel and 2 wooden shelves</li> <li>60 ltr. Collection volume</li> <li>Dim. approx. 915 x 600 x 1860 mm (L x W x H)</li> </ul>		

Carrying charges for AFP/EFP 915 units not included

Model	Capacity	Icon
<b>Model AFP 1950/4</b>	<b>400 kg per Level</b>	
<ul style="list-style-type: none"> <li>For 4 x 60 ltr. barrels and 3 grid shelves</li> <li>230 ltr. Collection volume</li> <li>Dim. approx. 1950 x 600 x 1820 m (L x W x H)</li> </ul>		
<b>Model AFP 1950/8</b>	<b>400 kg per Level</b>	
<ul style="list-style-type: none"> <li>For 8 x 60 ltr. barrels and 3 grid shelves</li> <li>230 ltr. Collection volume</li> <li>Dim. approx. 1950 x 600 x 1820 m (L x W x H)</li> </ul>		
<b>Model AFP 1950/12</b>	<b>400 kg per Level</b>	
<ul style="list-style-type: none"> <li>For 12 x 60 ltr. barrels and 3 grid shelves</li> <li>230 ltr. Collection volume</li> <li>Dim. approx. 1950 x 600 x 1820 m (L x W x H)</li> </ul>		

### Extension For Filling Places

Model	Capacity	Icon
<b>Model EFP 1950/4</b>	<b>400 kg per Level</b>	
<ul style="list-style-type: none"> <li>For 4 x 60 ltr. barrels and 3 grid shelves</li> <li>230 ltr. Collection volume</li> <li>Dim. approx. 1950 x 600 x 1820 m (L x W x H)</li> </ul>		
<b>Model EFP 1950/8</b>	<b>400 kg per Level</b>	
<ul style="list-style-type: none"> <li>For 8 x 60 ltr. barrels and 3 grid shelves</li> <li>230 ltr. Collection volume</li> <li>Dim. approx. 1950 x 600 x 1820 m (L x W x H)</li> </ul>		
<b>Model EFP 1950/12</b>	<b>400 kg per Level</b>	
<ul style="list-style-type: none"> <li>For 12 x 60 ltr. barrels and 3 grid shelves</li> <li>230 ltr. Collection volume</li> <li>Dim. approx. 1950 x 600 x 1820 m (L x W x H)</li> </ul>		

Carrying charges for AFP/EFP 1950 units not included

part no.	price EUR
25 066	727,76
25 067	763,61
25 068	775,56
25 093	644,11
25 094	668,01
25 095	691,91
	Request
25 069	1.062,36
25 070	1.134,06
25 071	1.193,81
25 096	966,76
25 097	1.038,46
25 098	1.098,21
	Request



## Filling places, barrel racks, barrel rack stands

For the environmentally friendly storage of original casks with water endangering fluids such as engine oil, gearbox oil, hydraulic oil and others. Integrated into the barrel racks are drain pans, which are up to building code of TÜV-Hessen and are suitable for the storage of water hazardous fluids.

### Model FB 1 (without illustr.)

- Barrel stand for 60 ltr.- or 200 ltr.-barrels
- Dim. approx. 600 x 600 x 380 mm (L x W x H)

### Model FB 2

- Barrel stand for 2 x 60 ltr.- or 200 ltr.-barrels
- Dim. approx. 1180 x 600 x 380 mm (L x W x H)

### Model FB 3 (without illustr.)

- Barrel stand for 3 x 60 ltr.-barrels
- Dim. approx. 1180 x 600 x 380 mm (L x W x H)

### Model AFP 1620/1 500 kg per Level

- For 4 x 200 ltr.-barrels
- 200 ltr.-collecting capacity
- Dim. approx. 1639 x 810 x 2012 mm (L x W x H)

### Model AFP 1620/2 500 kg per Level

- For 3 x 60 ltr.- and 2 x 200 ltr.-barrels
- 200 ltr.-collecting capacity
- Dim. approx. 1639 x 810 x 2012 mm (L x W x H)

### Model AFP 2320/1 750 kg per Level

- For 6 x 200 ltr.-barrels
- 200 ltr.-collecting capacity
- Dim. approx. 2339 x 810 x 2012 mm (L x W x H)

### Model AFP 2320/2 750 kg per Level

- For 5 x 60 ltr.- and 3 x 200 ltr.-barrels
- 200 ltr.-collecting capacity
- Dim. approx. 2339 x 810 x 2012 mm (L x W x H)

Carrying charges for AFP 1620, 2320 units not included

99,-

## Accessories

### Carrier for cans type KT/1

- Dim. approx. 350 x 300 x 20 mm (L x W x H)

### Ball valve dispenser 3/4" type KGL 20

- Incl. 90° angled spout
- steel sheet, galvanized

### Ball valve dispenser 3/4" type KGL 20 A

- Incl. 90° angled spout
- steel sheet, galvanized, lockable

### Brass drain valve 3/4" type MAV 20

- Self-locking

### Drain cock, brass 3/4" type MZH 20

- Self-locking, adjustable screw

### Drum vent type FSV

- For necessary venting of barrel

### Barrel key type FS 200

- Barrel key for 60-200 ltr.-barrels



part no.	price EUR
25 111	237,81
25 112	285,61
25 113	357,31
25 019	1.313,31
25 020	1.373,06
25 021	1.851,06
25 022	1.970,56
25 103	58,56
25 109	22,71
25 131	29,88
25 110	34,66
25 132	70,51
25 130	70,51
25 102	58,56



Mod. AFP 1200/1

1 x inkl.

3 x inkl.

Mod. AFP 1200/2

Inkl. D/M 06

Mod. AFP 1200/1-P

Mod. FK 10

**Filling places**

For environmentally friendly storage of original container of liquids hazardous to water such as engine oil, gear oil, hydraulic oil and similar. The collection pans integrated into the barrel racks are TÜV type approved and licensed for storage of liquids hazardous to water.

**Model AFP 1200/1**

- For 3 x 60 ltr and 1 x 200 ltr. barrel
- Collection pan model W 16 with grid
- 200 ltr. collection volume
- Incl. hand lever pump for oil and diesel model 13012 with outlet pipe
- Incl. 3 x discharge valve type MAV 20
- Incl. tin can 1 ltr., calibrated, type BK1
- Incl. can tray type KT/1
- Dim. approx. 1200 x 800 x 2000 mm ( L x W x H)

**Model AFP 1200/2**

- Same as model AFP1200/1, but with:
- hand lever pump for oil and diesel model HP 840 with 1,5 m delivery hose and outlet pipe
- Incl. 3 x discharge valve type MAV 20
- Incl. plastic can 5 ltr., type KK5
- Incl. can tray type KT/1
- Dim. approx. 1200 x 800 x 2000 mm ( L x W x H)

**Model AFP 1200/1-PZO (without illustr.)**

- Same as model AFP1200/1, but with:
- Pneum. oil pump OP 90D 30/1 with dispenser tap and drip tray model ZO 12
- Incl. 3 x discharge valve type MAV 20
- Incl. tin can 1 ltr. type BK 1
- Incl. Can tray type KT/1
- Dim. approx. 1200 x 800 x 2160 mm ( L x W x H)

**Model AFP 1200/1-P**

- Same as model AFP1200/1, but with:
- Model ÖAS 200ZP, pneum. oil pump and digital meter and accessories
- Incl. 3 x discharge valve type MAV 20
- Incl. tin can 1 ltr., calibrated, type BK1
- Incl. can tray type KT/1
- Incl. hose bracket type SH
- Dim. approx. 1200 x 800 x 2000 mm ( L x W x H)

**Ventilation kit for model AFP 1200 type BLS 1200**

- To prevent condensate under drain pan

**Carrying charges for AFP 1200 units not included**

**Accessories**

**Gridded shelf (W=650 mm) type GA 650**

**Barrel racks (W=650 mm) type FA 650**

**Taper wedge model FK 10**

- Taper wedge made of steel sheet for sloping 200 ltr barrels for better and easier emptying, height 100 mm

part no.	price EUR
25 060	859,21
25 061	930,91
25 077	1.313,31
25 063	1.552,31
25 141	58,56
	Request
25 121	130,26
25 128	166,11
25 124	34,66



Mod. AFP 1800/1

3 x inkl.

Mod. AFP 1800/2

1 x inkl.

Inkl. D/M 06

Mod. AFP 1800/1-P

Mod. FA 200

### Filling places, barrel racks

For environmentally friendly storage of original container of liquids hazardous to water such as engine oil, gear oil, hydraulic oil and similar. The collection pans integrated into the barrel racks are TÜV type approved and licensed for storage of liquids hazardous to water.

#### Model AFP 1800/1

- For 4 x 60 Ltr. and 1 x 200 ltr. barrel
- 1 gridded shelf
- Collecting pan model W 27 with grid
- Incl. hand lever pump for oil and diesel model 13012 with outlet pipe
- Incl. 4 x discharge valve type MAV 20
- Incl. 1 ltr. Tin can type BK 1
- Incl. can tray type KT/1
- Dim. approx. 1800 x 800 x 2160 mm (L x W x H)

#### Model AFP 1800/2

- Same as model AFP 1800/1 but
- Incl. hand lever pump for oil and diesel model 840 with 1,5 m delivery hose and outlet pipe with outlet pipe
- Incl. 4 x discharge valve type MAV 20
- Incl. 5 ltr. plastic can type KK5
- Incl. can tray type KT/1
- Dim. approx. 1800 x 800 x 2160 mm (L x W x H)

#### Model AFP 1800/1-PZO (without illustr.)

- Same as model AFP 1800/1/1 but with
- pneum. oil pump OP 90D 30/1 with dispenser tap and drip tray model ZO 12
- Incl. 4 x discharge valve type MAV 20
- Incl. 1 ltr. tin can type BK 1
- Incl. can tray type KT/1
- Dim. approx. 1800x800x 2160 mm (LxWxH)

#### Model AFP 1800/1-P

- Same as model AFP 1800/1/1 but with
- ÖAS 200 ZP, pneum. oil pump OP 90D 30/ltr., 5 m dispensing hose and digital meter
- Incl. 4 x discharge valve type MAV 20
- Incl. 1 ltr. tin can type BK 1
- Incl. can tray type KT/1
- Incl. hose bracket type SH
- Dim. approx. 1800 x 800 x 2160 mm (L x W x H)

#### Ventilation kit for model AFP 1800 type BLS 1800

- To prevent condensate under drain pan

#### Carrying charges for AFP 1800 units not included

#### Accessories

**Gridded shelf (W=1050 mm) type GA 1050**

**Barrel racks (W=1050 mm) type FA 1050**

#### Level indicator model FA 200

- Liquid level indicator for 200 ltr.-barrel, G 3/8"

part no.	price EUR
25 072	1.253,56
25 073	1.313,31
25 076	1.671,81
25 075	1.910,81
25 142	82,46
	Request
25 104	154,16
25 106	190,01
27 145	58,56



3 x inkl.

Mod. AFP 2200/1



Inkl. D/M 06

Mod. AFP 2200/1-PZO

1 x inkl.



Inkl. D/M 06

Mod. AFP 2200/1-P

1 x inkl.



Mod. FK 10

### Filling places, barrel racks

For the environmentally friendly storage of original casks with water endangering fluids such as engine oil, gearbox oil, hydraulic oil and others. Integrated into the barrel racks are drain pans, which are up to building code of TÜV-Hessen and are suitable for the storage of water hazardous fluids as well as for storage of waste oil (known origin, flash point > 55° C).

#### Model AFP 2200/1

- For 3 x 60 ltr. Barrels and 2 x 200 ltr. Barrel
- Collecting pan model W 27 with grid 230 ltr. Collection volume
- Incl. hand lever pump for oil and diesel model 13012 with outlet
- Incl. 3 x discharge valve type MAV 20
- Incl. 1 ltr. tin can type BK 1
- Incl. can tray type KT/1
- Incl. collection funnel for waste oil Ø 400 mm type AOT
- Dim. approx. 1800 x 800 x 2160 mm (L x W x H)

#### Model AFP 2200/2

(without illustr.)

- Same as model 2200/1 but with
- Hand lever pump for oil and diesel model 840 with 1,5 m delivery hose and outlet pipe with outlet pipe
- Incl. 3 x discharge valve type MAV 20
- Incl. 5 ltr. plastic can type KK5
- Incl. can tray type KT/1
- Incl. collection funnel for waste oil Ø 400 mm type AOT
- Dim. approx. 1800x800x 2160 mm (LxWxH)

#### Model AFP 2200/1-PZO

- Same as model 2200/1 but with
- Pneum. oil pump OP 90D 30/1 with dispenser tap and drip tray model ZO 12
- Incl. 3 x discharge valve type MAV 20
- Incl. 1 ltr. tin can type BK 1
- Incl. can tray type KT/1
- Incl. collection funnel for waste oil Ø 400 mm type AOT
- Dim. approx. 1800x800x 2160 mm (LxWxH)

#### Model AFP 2200/1-P

- Same as model 2200/1 but with
- ÖAS 200 ZP, pneum. oil pump OP 90D 30/ltr., 5 m dispensing hose and digital meter
- Incl. 3 x discharge valve type MAV 20
- Incl. 1 ltr. tin can type BK 1
- Incl. can tray type KT/1
- Incl. hose bracket type SH
- Incl. Collection funnel for waste oil Ø 400 mm type AOT
- Dim. approx. 1800 x 800 x 2160 mm (L x W x H)

#### Ventilation kit for model AFP 2200 type BLS 2200

- To prevent condensate under drain pan

#### Carrying charges for AFP 2200 units not included

#### Accessories

##### Gridded shelf (W=650 mm) type GA 650

##### Barrel racks (W=650 mm) type FA 650

##### Taper wedge model FK 10

- Taper wedge made of steel sheet for sloping 200 ltr barrels for better and easier emptying, height 100 mm

part no.	price EUR
25 078	1.134,06
25 079	1.313,31
25 080	1.552,31
25 081	1.791,31
25 142	82,46
	Request
25 121	130,26
25 128	166,11
25 124	34,66



Mod. AFP 2400/1

1 x inkl.



Mod. AFP 2400/1-PZO

Inkl. D/M 06

2 x inkl.



Mod. AFP 2400/1-P

Inkl. D/M 06

3 x inkl.



Mod. FA 200

### Filling places, barrel racks

For the environmentally friendly storage of original casks with water endangering fluids such as engine oil, gearbox oil, hydraulic oil and others. Integrated into the barrel racks are drain pans, which are up to building code of TÜV-Hessen and are suitable for the storage of water hazardous fluids as well as for storage of waste oil (known origin, flash point > 55° C).

#### Model AFP 2400/1

- For 3 x 60 ltr. barrels and 3 x 200 ltr. barrel
- Collecting pan model W 28 with grid 252 ltr. Collection volume
- Incl. 2 x hand lever pump for oil and diesel model 13012 with outlet pipe
- Incl. 3 x discharge valve type MAV 20
- Incl. 2 x tin can type BK 1 (1 ltr.) and BK 2 (2 ltr.)
- Incl. can tray type KT/1
- Incl. collection funnel for waste oil Ø 400 mm type AOT
- Dim. approx. 2400x800x2160 mm (LxVxH)

#### Model AFP 2400/2

(without illustr.)

- Same as model 2400/1 but with
- 2 x hand lever pump for oil and diesel model 840 with 1,5 m delivery hose and outlet pipe with
- Incl. 3 x discharge valve type MAV 20
- Incl. 2 x plastic can type KK 2 (2 ltr.) and KK 5 (5 ltr.)
- Incl. can tray type KT/1
- Incl. collection funnel for waste oil Ø 400 mm type AOT
- Dim. approx. 2400 x 800 x 2160 mm (L x W x H)

#### Model AFP 2400/1-PZO

- Same as model 2400/1 but with
- 2 x Pneum. oil pump OP 90D 30/1 with 2 x dispenser tap and 2 x drip tray model ZO 12
- Incl. 3 x discharge valve type MAV 20
- Incl. 2 x tin can type BK 1 (1 ltr.) and BK 2 (2 ltr.)
- Incl. can tray type KT/1
- Incl. collection funnel for waste oil Ø 400 mm type AOT
- Dim. approx. 2400 x 800 x 2160 mm (L x W x H)

#### Model AFP 2400/1-P

- Same as model 2400/1 but with
- 2 x ÖAS 200 ZP, pneum. oil pump OP 90D 30/ltr., 5 m dispensing hose and digital meter
- Incl. 3 x discharge valve type MAV 20
- Incl. 2 x tin can type BK 1 (1 ltr.) and BK 2 (2 ltr.)
- Incl. can tray type KT/1
- Incl. 2 x hose bracket type SH
- Incl. collection funnel for waste oil Ø 400 mm type AOT
- Dim. approx. 2400 x 800 x 2160 mm (L x W x H)

#### Ventilation kit for model AFP 2400 type BLS 2400

- To prevent condensate under drain pan

#### Carrying charges for AFP 2400 units not included

#### Accessories

##### Gridded shelf (W=650 mm) type GA 650

##### Barrel racks (W=650 mm) type FA 650

##### Level indicator model FA 200

- Liquid level indicator for 200 ltr.-barrel, G 3/8"

part no.

price EUR

25 082

1.492,56

25 083

1.612,06

25 084

2.388,81

25 085

2.886,81

25 143

106,36

Request

25 121

130,26

25 128

166,11

27 145

58,56



Mod. GTK 60/3-P

Inkl. 3x D/M 06

Inkl. LWE 06

Mod. GTK 60/3-E

Type GTK-MU

**Attention:**

If used with gear oil the performance of pumps must be adjusted. Refer to article no. 20 200

**Stationary version with carrying unit**

This special dispenser set is designed to optimise your oil supply. It is ready to use and can be employed nearly everywhere. The carrying unit can be fitted with electrical or pneumatic pumps. 1 - 3 different kind of oils can be dispensed via oil bar. Drain pan confirming VAWS is included.

**Basic version:**

- Varnished self-supporting carrier unit
- 2 or 3 x electrical or pneumatic pumps
- Oil connection and suction hoses
- 1 x oil bar, with 2 or 3 nozzles
- 1 x drain pan, TÜV approved

**Performance:** (depending on degree of viscosity - see p. 240)

- **Pneumatic pump** max. 10 ltr./min
- Air inlet pressure max. 8 bar (150 PSI)
- Type OP 90 D 30/1
- **Electrical pump** max. 10 ltr./min
- Connection 230 V~, 50 Hz, 0,55 kW
- Type OP 140 ED/1 (incl. pressure switch)

**Model GTK 60/2-P, pneum. pumps**

- 1 x carrier unit type W 10 T, for 2 x 60 ltr.-barrels
- 2 x pneum. pump type OP 90 D 30/1, incl. suction hose
- 1 x oil bar with 2 nozzles
- 1 x drain pan type W 10
- Dim. approx. 1360 x 800 x 1755 mm (L x W x H)

**Model GTK 60/3-P, pneum. pumps**

- 1 x carrier unit type W 10 T, für 3 x 60 ltr.-barrels
- 3 x pneum. pump type OP 90 D 30/1, incl. suction hose
- 1 x oil bar with 3 nozzles
- 1 x drain pan type W 10
- Dim. approx. ca. 1360 x 800 x 1755 mm (L x W x H)

**Model GTK 200/2-P, pneum. pumps**

- 1 x carrier unit type W 10 T, for 2 x 200 ltr.-barrels
- 2 x pneum. pump type OP 90 D 30/1, incl. suction hose
- 1 x oil bar with 2 nozzles
- 1 x Drain pan type W 10
- Dim. approx. 1360 x 800 x 1755 mm (L x W x H)

**Model GTK 60/2-E, electr. pumps**

- Identical with model GTK 60/2-P, but with
- 2 x electr. pump type OP 140 ED, incl. suction hose
- 2 x pressure switch, cabled
- Dim. approx. 1360 x 800 x 1755 mm (L x W x H)

**Model GTK 60/3-E, electr. pumps**

- Identical with model GTK 60/3-P, but with
- 1 x carrier unit type W 10 T, für 3 x 60 ltr.-barrels
- 3 x electr. pump type OP 140 ED, incl. suction hose
- 3 x pressure switch, cabled
- Dim. approx. ca. 1360 x 800 x 1755 mm (L x W x H)

**Model GTK 200/2-E, electr. pumps**

- Identical with model GTK 200/2-P, but with
- 2 x electr. pump type OP 140 ED, incl. suction hose
- 2 x pressure switch, cabled
- Dim. approx. 1360 x 800 x 1755 mm (L x W x H)

**Add. charge for meter for mod. GTK type GTK-MU**

- Per nozzle

**Assembly ready to connect for GTK  
Additional freight charges for GTK**

part no.	price EUR
22 304	2.207,78
22 305	2.623,03
22 308	2.204,78
22 306	3.160,78
22 307	3.818,03
22 309	3.160,78
22 316	381,21
	149,- Request

**NEW**



Inkl. 6x D/M 06



Inkl. LWE 06



Mod. GTK 60/6-P inkl. optionalen Messuhren



Inkl. 3x D/M 06



Inkl. LWE 06



Mod. GTK 200/3-P



Type GTK-MU

## Stationary version with carrying unit

This special dispenser set is designed to optimise your oil supply. It is ready to use and can be employed nearly everywhere. The carrying unit can be fitted with electrical or pneumatic pumps. 1 - 6 different kind of oils can be dispensed via oil bar. Drain pan confirming VAWS is included.

### Basic version:

- Varnished self-support carrier unit
- 3 or 6 x electric or pneumatic pump
- Oil connection and suction hoses
- Oil bar (s) with 3 x spigot
- 1 x drain pan zinc coated, PTB licensed

**Performance:** (depending on degree of viscosity - see p. 240)

- **Pneumatic pump** max. 10 ltr./min
- Air inlet pressure max. 8 bar (150 PSI)
- Type OP 90 D 30/1

- **Electrical pump** max. 10 ltr./min
- Connection 230 V~, 50 Hz, 0,55 kW
- Type OP 140 ED (incl. pressure switch)

### Model GTK 60/6-P, pneum. pumps

**22 310 3.937,53**

- 1 x carrier unit type W 11 T for 6 x 60 ltr. barrels
- 6 x pneum. pumps type OP 90D30/1, incl. suction hose
- 2 x oil bar with 6 spigots totally
- 1 x drain pan type W 11
- Dim. 1800 x 800 x 1755 mm (L x W x H)

### Model GTK 60/200/6-P, pneum. pumps

**22 311 3.937,53**

- 1 x carrier unit type W 11 T for 6 x 60 ltr. barrels and 2 x 200 ltr. barrels
- 6 x pneum. pumps type OP 90D30/1, incl. suction hose
- 2 x oil bar with 6 spigots totally
- 1 x drain pan type W 11
- Dim. 1800 x 800 x 1755 mm (L x W x H)

### Model GTK 200/3-P, pneum. pumps

**22 312 2.802,28**

- 1 x carrier unit type W 11 T for 3 x 200 ltr. barrels
- 3 x pneum. pumps type OP 90D30/1, incl. suction hose
- 1 x oil bar with 36 spigots totally
- 1 x drain pan type W 11
- Dim. 1800 x 800 x 1755 mm (L x W x H)

### Model GTK 60/6-E, electr. pumps

**22 313 6.387,28**

- Identical with GTK 60/6-P but
- 6 x electr. pumps OP 140 ED/1, incl. suction hose
- 6 x Pressure switch, cabled
- Dim. 1800 x 800 x 1755 mm (L x W x H)

### Model GTK 60/200/6-E, electr. pumps

**22 314 6.387,28**

- Identical with 60//200/6-P but
- 6 x electr. pumps OP 140 ED/1, incl. suction hose
- 6 x Pressure switch, cabled
- Dim. 1800 x 800 x 1755 mm (L x W x H)

### Model GTK 200/3-E, electr. pumps

**22 315 3.758,28**

- Identical with GTK 200/3-P but
- 3 x electr. pumps OP 140 ED/1, incl. suction hose
- 3 x pressure switch, cabled
- Dim. 1800 x 800 x 1755 mm (L x W x H)

### Add. charge for meter for mod. GTK type GTK-MU

**22 316 381,21**

- Per nozzle

**Assembly ready to connect up to models GTK 60/6  
Additional freight charges up to models GTK 60/6**

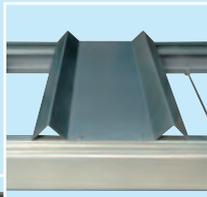
**249,-  
Request**



Mod. VLR 1950/4 + W 23



Anwendungsbeispiel Kleinteilelager



Type FA 1950



Type WA 1950



Type SP 1950



Type KT/1



Type KGL 20



Type KGL 20 A



Type MAV 20



Type FSV



Type MZH 20

## Storage racks

All-round storage and safety racks to store products and goods; useable according to construction. As basic- and extension shelf, height adjustable shelves in a distance of 25 mm. 4 shelves with a max. load of **400 kg per shelf** by distributed load.

### Storage rack Model VLR 1950/4

All-round storage rack for procurement  
 Basic shelf with 4 cattle grid shelves  
 Dim. approx. 1950 x 600 x 1820 mm (L x W x H)  
 Weight: approx. 39 kg

### Extension rack Model ALR 1950/4

All-round storage rack for procurement  
 Extension shelf with 4 cattle grid shelves  
 Dim. approx. 1950 x 600 x 1820 mm (L x W x H)  
 Weight: approx. 33 kg

### Drain pan Model W 23

Drain pan without grid shelf, with feet, galvanized. For storage of liquids that are harmful to water and inflammable substances. In conjunction with storage shelves VLR and ALR for storage of dangerous materials

Capacity of tray 230 l  
 Weight approx. 70 kg  
 Dim. approx. 1800 x 800 x 260 mm (L x W x H)

**Carrying charges for Mod. VLR, ALR units not included**

## Accessories

### Barrel overlay type FA 1950

For 4 x 60 l -casks  
 Dim. approx. 1800 x 600 x 50 mm (L x W x H)  
 Weight: approx. 12 kg

### Drip pan for storage rack type WA 1950

For small casks that are harmful to water  
 Usable with and without cattle grid shelves  
 Steel panel, galvanized  
 Collecting capacity approx. 60 l  
 Dim. approx. 1800 x 570 x 60 mm (L x W x H)  
 Weight approx. 20 kg

### Chipboard type SP 1950

Shelf for dry goods  
 Dim. approx. 1800 x 600 x 16 mm (L x W x H)  
 Weight approx. 10 kg

### Carrier for cans type KT/1

Steel sheet, galvanized  
 Dim. approx. 350 x 300 x 20 mm (L x W x H)

### Ball valve dispenser 3/4" type KGL 20

Incl. 90° angled spout  
 steel sheet, galvanized

### Ball valve dispenser 3/4" type KGL 20 A

Incl. 90° angled spout  
 Steel sheet, galvanized, lockable

### Brass drain valve 3/4" type MAV 20

Self-locking

### Messing-Abgabehahn 3/4" type MZH 20

Self-locking, adjustable screw,

### Drum vent type FSV

For necessary venting of barrel

part no.	price EUR
25 300	476,81
25 301	393,16
25 029	440,96
	Request
25 319	237,81
25 320	357,31
25 321	101,58
25 103	58,56
25 109	22,71
25 131	29,88
25 110	34,66
25 132	70,51
25 130	70,51



Mod. ULT 1950



Anwendungsbeispiel mit MZW 50



Mod. ULR 1000



Type TR/1



Type SLB



### Working benches

Multi-purpose work bench with multiplex table leaf (30 mm) for storage, can be used as work bench with collection pan. The basic table as well as the extension with adjustable shelves – in steps of 25 mm – can bear a max. load of **400 kg** spread per shelf.

#### Working bench model ULT 1950

- Multi-purpose work bench for work shop
- Work bench with grid shelf
- Dim. 1950 x 600 x 900 mm (L x W x H)
- Weight approx. 40 kg

#### Working bench model ALT 1950

- Extension working bench for work shop
- Work bench with grid shelf
- Dim. 1950 x 600 x 900 mm (L x W x H)
- Weight approx. 38 kg

### Carrying charges for ULT, ALT units not included

#### Multi-purpose pan model MZW 50

- Multi-purpose pan made of plastic, black
- Especially for the collection of small casks
- Capacity of pan 50 ltr.
- Spout for easy draining
- Dim. approx. 880 x 600 x 100 mm (L x W x H)

#### Working bench model ULR 1000

- Multipurpose storage rack or work bench for work shop
- To be used either as work bench or as storage rack
- Max. load 300 kg per shelf
- Dim. storage rack: approx. 915 x 610 x 1860 mm (LxWxH)
- Dim. work bench approx. 2750 x 610 x 930 mm (LxWxH)
- Weight: approx. 29 kg

### Carrying charges for ULR units not included

### Steps/Platform

This step/platform is the perfect aid in workshop, garage and garden. Jobs like vehicle preparation, washing of vehicles, assembly of roof racks, cleaning of windows or other maintenance work can be done much easier by this aluminum platform with anti-slip feet and non-slip surface.

#### Step type TR/1

- 2-steps
- Plastic
- Dim. approx. 600 x 360 x 360 mm (L x W x H)
- Weight approx. 3,0 kg

#### Safety platform type SLB

**NEW**

- Stable work platform made of aluminum, for safe use in workshop, including safety lock
- Foldable for easy transport and storage
- Load cap. up to 150 kg
- Stepping surface approx. 950 x 300 mm (l/w)
- Dim. approx. 1028 x 380 x 495 mm (l/w/h)
- Weight approx. 7,2 kg

part no.	price EUR
25 305	357,31
25 306	333,41
	Request
25 126	83,53
25 307	297,56
	Request
27 114	119,38
27 170	154,16



Mod. RLS 1350/3

Type RT 1300

Type RLS/WB

Mod. RLM 1350/1

## Tyre Storage Racks

Tyre storage racks made of high quality steel sheet with zinc coated surface. Designed for space saving and appropriate storage of tires.

Mobile type for easy and ergonomic handling by fixed rollers and castor wheels. For comfortable transport of tires from store to working place.

### Model RLS 1350/3 150 kg per Level

- Static rack for tyre storage
- 3 shelves, field load 800 kg
- Suitable for tyre w/ diameter 578-624 mm
- Dim. approx 1300x424x1850 mm (LxWxH)



part no. 25 313 price EUR 237,81

### Model ERS 1350/3 150 kg per Level

- Extension for basic rack
- 3 shelves, field load 800 kg
- Suitable for tyre w/ diameter 578-624 mm
- Dim. approx 1300x424x1850 mm (LxWxH)



25 326 178,06

### Model RLS 1350/4 150 kg per Level

- Static rack for tyre storage
- 4 shelves, field load 800 kg
- Suitable for tyre w/ diameter 578-624 mm
- Dim. approx 1300x424x2500 mm (LxWxH)



25 314 297,56

### Model ERS 1350/4 150 kg per Level

- Extension for basic rack
- 4 shelves, field load 800 kg
- Suitable for tyre w/ diameter 578-624 mm
- Dim. approx 1300x424x2500 mm (LxWxH)



25 327 225,86

### Model RLS 1350/5 150 kg per Level

- Static rack for tyre storage
- 5 shelves, field load 800 kg
- Suitable for tyre w/ diameter 578-624 mm
- Dim. approx 1300x424x3000 mm (LxWxH)



25 315 357,31

### Model ERS 1350/5 150 kg per Level

- Extension for basic rack
- 5 shelves, field load 800 kg
- Suitable for tyre w/ diameter 578-624 mm
- Dim. approx 1300x424x3000 mm (LxWxH)



25 328 273,66

### Plus transport charges for mod. RLS / ERS

Request

### Accessories

#### Tyre traverse (W=1300mm / 2 pcs) type RT 1300

25 503 33,34

#### Wall mounting kit type RLS/WB

25 509 19,00

- For fixing rack RLS/ERS to wall, adjustable distance up to 200 mm

### Model RLM 1350/1 150 kg per Level

25 312 536,56

- Mobile storage rack for the transport of tyres from stock to working place/vehicle
- 2 shelves, field load 300 kg
- Shelves with extra designed tyre traverses for smooth transport of tyres and rims.
- Support frame riveted, base plat not mounted
- With 2 fixed rollers and two castor wheels
- Castor wheels with brake
- Suitable for tyres w/ diameter 578-624 mm
- Dim. approx. 1350 x 682x 1625 mm (LxWxH)

### Plus Transport charges for mod. RLM 1350/1

Request



Mod. LRM 900/1



Mod. LRM 900/2



Mod. RSR 900/1



Mod. RSR 900/2

### Storage rack with bins, movable

Storage rack with bins for the storage of assembly- and small parts. Solid sheet steel construction with 4 steering rollers, 2 lockable.

### Storage rack model LRM 900/1

Mobile storage rack with 22 bins

- 15 x bins 390 x 150 x 90 mm (L x W x H) max. 20 kg
- 4 x bins 390 x 190 x 165 mm (L x W x H) max. 28 kg
- 3 x bins 390 x 255 x 165 mm (L x W x H) max. 30 kg
- Dim. Approx. 860 x 410 x 940 mm (L x W x H)
- Weight approx. 12 kg

### Storage rack model LRM 900/2

Mobile storage rack with 26 bins

- 15 x bins 390 x 150 x 90 mm (L x W x H) max. 20 kg
- 12 x bins 390 x 190 x 165 mm (L x W x H) max. 28 kg
- 9 x bins 390 x 255 x 165 mm (L x W x H) max. 30 kg
- Dim. Approx. 860 x 410 x 1780 mm (L x W x H)
- Weight approx. 20 kg

### Multi-purpose pan MZW 50 (without illustr.)

- Multi-purpose pan made of plastic, black
- Especially for the collection of small casks
- Capacity of pan 50 ltr.
- Spout for easy draining
- Dim. approx. 880 x 600 x 100 mm (L x W x H)

### Tyre Service Rack with bins movable

Service rack for tyre shops to easily handle tyre changing machine and wheel balancer.

Fitted with roll holder SPEEDCUT for all Hofmann Power Weight adhesive rolls with integrated weight scale and innovative cutting device. Speedcut waste bin as well as bracket and holder for , insertion tool, weight pliers, brush and chalk

### Tyre Service Rack model RSR 900/1

Mobile tyre service rack with 22 bins

- Same as model LRM 900/1 but with
- Bracket for 5 kg bucket wax incl. tension belt for fixation and bin for brush
- Side cover with tool holder for tyre changing tools such as weight pliers, valve screw driver, insertion tool and chalk
- Holder for power weight adhesive rolls with integrated weight scale and cutting device, waste bin for protective film
- Incl. multi-purpose pan for collection of small casks and storage of tools
- Tools not included in delivery

### Tyre service rack model RSR 900/2

Mobile tyre service rack with 36 bins

- Same as model RSR 900/1, but with
- Complete side cover with big tool holder
- Tools as well as tyre inflator not included in delivery.

**Plus Transport charges for mod. LRM/RSR**

part no.

price EUR

25 308

333,41

25 309

476,81

25 137

35,73

25 310

811,41

25 311

954,81

Request



Mod. MC



Mod. MC

**Attention:**

For storage outside safety room container must not be fire resistant provided that

■ A safety zone of at least 10 m from next building is observed

or

■ The outside wall of the neighbor building is made fire resistant (F90 according DIN 4102)



Mod. MC

**Material container**

Material container made of special coated steel panel for storage of products and goods. It offer as accessible stocks a compact solution for space shortage. In combination with an Rapid collecting pan made of steel the safety room container serves for storage of liquids harmful to water.

**Material container Model MC 1321**

- Solid construction made of hot zinc galvanized steel sheet
- Big single swing door (1300 x 1890 mm) with safety lock and door handle set
- Access at ground level, no floor
- Snow load up to 220 kg/qm
- Static for container according to EUROCODE 3
- Covered space approx. 6,61 qm
- Dim. approx. 2170 x 3050 x 2150 mm (LxWxH)
- Weight approx. 450 kg
- not mounted, mounting time approx. 20 minutes

**Material container Modell MC 1320**

- Construction same as model MC 1321 but
- With solid wooden floor (20 mm tongue- and grooved wood, max. load up to 500 kg/qm)

**Safety room container Model MC 31981**

- Construction same as model MC 1321 but
- For storage and decanting and bottling of not inflammable media hazardous to water category (WGK) 1-3
- Collection pan made of steel, **with grid**
- Dim. approx. 2170 x 3050 x 2310 mm (LxWxH)
- Weight approx. 750 kg

Further dimensions on request

**Carrying charges for MC units not included**

**Material container Model MC 1421**

- Solid construction made of hot zinc galvanized steel sheet
- Big single swing door (1300 x 1890mm) with safety lock and door handle set
- Access at ground level, no floor
- Snow load up to 220 kg/sqm
- Static for container according to EUROCODE 3
- Covered space approx. 8,78 qm
- Dim. approx. 2170 x 4050 x 2150 mm (L x W x H)
- Weight approx. 600 kg
- Not mounted, mounting time approx. 20 minutes

**Material container Model MC 1420**

- Construction same as model MC 1421 but
- With solid wooden floor (20 mm tongue- and grooved wood, max. load up to 500 kg/qm)

**Safety room container Model MC 31948**

- Construction same as model MC 1421 but
- For storage and decanting and bottling of not inflammable media hazardous to water category (WGK) 1-3
- Collection pan made of steel, **with grid**
- Dim. approx. 2170 x 4050 x 2300 mm (L x W x H)
- Weight approx. 1020 kg

Further dimensions on request

**Carrying charges for MC units not included**

part no.	price EUR
27 205	Request
27 206	Request
27 207	Request
	Request
27 208	Request
27 209	Request
27 210	Request
	Request



**Multi-purpose pans**

Multi-purpose pan made of plastic for the collection and storage of liquids.

**Model MZW 20**

- Multi-purpose pan made of plastic, black
- Especially for the usage underneath cars
- Capacity of pan 20 ltr.
- Spout for easy draining
- Loop for pulling and hanging the pan
- Dim. approx. 685 x 677 x 65 mm (L x W x H)

**Model MZW 15 (without illustr.)**

- Multi-purpose pan made of plastic, black
- Especially for collection of small casks
- Capacity of pan 15 ltr.
- Dim. approx. 530 x 380 x 80 mm (L x W x H)

**Model MZW 50**

- Multi-purpose pan made of plastic, black
- Especially for the collection of small casks
- Capacity of pan 50 ltr.
- Spout for easy draining
- Dim. approx. 880 x 600 x 100 mm (L x W x H)

**Model MZW 70**

- Multi-purpose pan made of plastic, black
- Especially for the collection of small casks
- Capacity of pan 70 ltr.
- Spout for easy draining
- Dim. approx. 950 x 860 x 100 mm (L x W x H)

**Model EFS**

- For piling on top of 200 ltr. barrel
- Ø 600 mm, plastic, incl. collection sieve

**Model MZS 15 (VE 4)**

- Multi-purpose pan made of plastic, black
- Especially for the usage underneath cars
- Handlebars for easy carriage of the full trough
- Capacity of pan 15 ltr.
- Spout for easy draining
- Dim. approx. 440 x 500 x 140 mm (L x W x H)

**Model RNW 3**

- Multi-purpose pan made of plastic, black
- Especially for collecting axle oils when opening wheel hubs, tub capacity 3 ltr.
- Spout for easy draining
- From 13.75" truck wheel size (on the inside)
- Dim. approx. 316 x 246 x 156 mm (L x W x H)

part no.	price EUR
25 125	35,73
25 137	35,73
25 126	83,53
25 127	131,33
25 144	131,33
25 129	35,73
25 133	47,68



## Measuring cups, measuring cans and funnels

For controlled filling and dispensing of oil.  
**When ordering packing unit (PU) we grant you a quantity discount of 10%.**

### Basic version:

- Stable and resistent to rupture
- Oil and acid resistant
- Designed for practical handling
- High brim for save pouring
- handle for comfortable use

### Model KK

Plastic can with outlet funnel and scale.

- Outlet with protection cover and protection cap

**Type KK 1 für 1 ltr. (PU 6)**

**Type KK 2 für 2 ltr. (PU 6)**

**Type KK 3 für 3 ltr. (PU 6)**

**Type KK 5 für 5 ltr. (PU 6)**

### Accessories

Flexible outlet pipe for plastic can (PU 6)

**Type KK-A1 for 1 ltr. plastic can**

**Type KK-A2 for 2 ltr. plastic can**

**Type KK-A3 for 3-5 ltr. plastic can**

### Model BKF

Tin can with metal flex spoud and scale,

**Type BKF 1 for 1 Ltr. (PU 6)**

### Model BK

Tin can with outlet funnel and scale.

**Type BK 0,5 for 0,5 Ltr. (PU 5)**

**Type BK 1 for 1 Ltr. (PU 5)**

**Type BK 2 for 2 Ltr. (PU 5)**

### Model BK-Set

**Type BK-Set**

- Tin can 1 Ltr. and 2 Ltr.

### Model KB

Plastic liquid measure, transparent with scale

**Type KB 0,5 for 0,5 ltr. (PU 12)**

**Type KB 1 for 1 ltr. (PU 6)**

**Type KB 2 for 2 ltr. (PU 6)**

**Type KB 3 for 3 ltr. (PU 6)**

**Type KB 5 for 5 ltr. (PU 6)**

### Model KB-Set

**Type KB-Set**

- Plastic liquid measure 1 Ltr., 3 Ltr. and 5 Ltr.

### Model KWK

Can for anti-freeze, made of polyethylene, black

- with sealing cap and filter

**Type KWK for 11 ltr.**

part no.	price EUR
24 101	11,83
24 102	15,42
24 103	20,20
24 104	23,78
24 113	3,11
24 145	3,47
24 146	4,18
24 147	20,20
24 105	13,03
24 106	16,61
24 107	21,39
24 159	35,73
24 108	5,86
24 109	8,25
24 110	13,03
24 111	20,20
24 112	32,15
24 160	35,73
24 149	41,71



## Funnels

For controlled filling and dispensing of oil.  
 Oil, acid and fuel resistant

**When ordering packing unit (PU) we grant you a quantity discount of 10%.**

### Model KT

Plastic funnel

**Type KT 100** Ø 100 mm, 0,25 ltr. (PU 10)

**Type KT 120** Ø 120 mm, 0,27 ltr. (PU 10)

**Type KT 150** Ø 150 mm, 0,7 ltr. (PU 10)

**Type KT 200** Ø 200 mm, 2,9 ltr. (PU 6)

**Type KT-Satz** Ø 50, 75, 100 and 120 mm (VE PU)

**Type KTH 160** for Ø 160 mm, 1,2 ltr. (PU 5)

- Ergonomic and safe handle
- High overflow rim functions as splash guard
- Removable strainer, brass

**Type KTF 160** for Ø 160 mm, 1,2 ltr. (PU 6)

- Identical with type KTH 160, but with:
- Flex spoud, removable

**Type KTK 160** for Ø 160 mm, 1,2 ltr. (PU 6)

- Angled tube, safety discharge spoud
- High overflow rim fundctions as splash guard
- Removable strainer, brass

**Type KTD 250** Ø 250 mm, 2,0 ltr.

- funnel with flap lid, 2" AG

### Model BT

Tin funnel with strainer

- High rim as splash guard
- Removable fine brass strainer

**Type BT 160** Ø 160 mm, incl. strainer, 1,3 Ltr. (VE 10)

**Type BT 200** Ø 200 mm, incl. strainer, 3,2 Ltr. (VE 6)

### Accessories

Flexible discharge spout-metal for funnels

**Type BT-A** for type BT 160 and BT 200, to screw-on

### Model KTU

**NEW**

**Type KTU 120** Ø 120 mm

Multipurpose plastic funnel

- Funnel to be fixed by universal clamping device
- Control by transparent line
- Suitable for various types of vehicles
- Clamp system also suitable for other funnels

### Measuring cans

For controlled filling and dispensing of oil.

### Model BE

Measuring canmade of galvanised sheet steel with funnel discharge spout

- Handle and swivelling carrying handle
- Calibratable

**Type BE 5/E** for 5 ltr.

**Type BE 10/E** for 10 ltr.

part no.

price EUR

24 114 3,47

24 115 4,06

24 116 5,26

24 117 7,17

24 144 5,86

24 150 9,44

24 151 10,64

24 152 19,00

24 158 35,73

24 118 21,39

24 119 23,78

24 153 11,83

24 161 46,61

24 156 166,11

24 157 190,01



## Oiler

High-quality oiler for professional usage during all service- and maintenance tasks in industry and crafts. When ordering packing unit (PU) we grant you a quantity discount of 10%.

### SPECIAL-pump oiler Model PÖ 250

- 0,25 ltr. tin plate container (PU 6)
- 165 mm aluminium spout, angled

### Industrial oiler Model IÖ 200

- 0,20 ltr. zinc die casting container (PU 6)
- 135 mm aluminium spout, angled

### Industrial oiler Model IÖ 500

- 0,50 ltr. zinc die casting container (PU 6)
- 165 mm aluminium spout, angled

### Workshop oiler Model WÖ 200

- 0,20 ltr. HDPE-container, white (PU 6)
- 135 mm aluminium spout, angled

### Workshop oiler Model WÖ 300

- 0,30 ltr. HDPE-container, white (PU 6)
- 165 mm aluminium spout, angled

### Oiler Model Ö 250

- 0,25 ltr. LDPE-container, transparent (PU 10)
- Brass discharge spout, telescopic from 36 - 145 mm

### Oiler Model Ö 500

- 0,50 ltr. LDPE-container, transparent (PU 10)
- Brass discharge spout, telescopic from 36 - 180 mm

## Syringes

Syringes for filling, cleaning and emptying gear boxes and similar parts with oil. Made out of varnished sheet steel. Delivery with bent filling pipe, 135 mm in length.

### Model SFS 250

- 0,25 ltr. capacity, Ø 40 mm
- Length without pipe approx. 270 mm

### Model SFS 500

- 0,5 ltr. capacity, Ø 50 mm
- Length without pipe approx. 340 mm

### Model SFS 1000

- 1 ltr. capacity, Ø 50 mm
- Length without pipe approx. 580 mm

### Model SFS-K 500

- 0,5 ltr. capacity, Ø 50 mm, plastic
- Length without pipe approx. 340 mm

### Model SFS-K 1000

- 1 ltr. capacity, Ø 50 mm, plastic
- Length without pipe approx. 580 mm

## Accessories

### Suction and dispensing hose type SFS-S

- Flexible, NPS 10, length approx. 300 mm

part no.

price EUR

23 020

21,39

23 021

29,76

23 022

35,73

23 023

26,17

23 024

28,56

23 025

6,57

23 026

7,05

23 014

22,59

23 015

24,98

23 016

30,95

23 043

59,63

23 044

71,58

23 502

6,45



## Oiler and sprayer

High-quality oiler for professional usage during all service- and maintenance tasks in industry and crafts.

**When ordering packing unit (PU = 6) we grant you a quantity discount of 10%.**

### Dispensing bottle Model USF 500

- 0,5 Ltr. LDPE-container, transparent
- PE-spout, telescopic from 115 up to 260 mm, angled with spray nozzle
- Oil, acid and fuel-resistant

### Industrial sprayer Model IZ 1000

- 1,0 Ltr. PE-container, white-transparent
- Manually air pressurized
- Sprayer head with adjustable and closeable brass nozzle
- Suitable for various chemicals, e.g. detergents, solvents and cleaning agents
- Not suitable for acetone, glykol, ammonia, break cleaners and acids like formic acid and acetic acid

### Industrial sprayer Model ZO 750

- 0,75 Ltr. HDPE-container, orange
- Sprayer head with adjustable and closeable plastic nozzle
- Suitable for various chemicals, e.g. detergents, solvents and cleaning agents
- Not suitable for acetone, glykol, ammonia, break cleaners and acids like formic acid and acetic acid

## Racks for Jerry Cans

Make the emptying of jerry cans easier – for cans 10 l to 60 l) Allow an exact batching by mean of the rocker arm. Perfect for the use in industry, workshop and laboratory. Can be mounted on wall or table.

### Model AFB 10

- Secure way to put canister in the swiveling basket for 10 l canister
- steel plate, varnished
- Dim. approx. 275 x 330 x 615 (L x W x H)

### Model AFB 30

- Secure way to put canister in the swiveling basket for 20-30 l canister
- steel plate, varnished
- Dim. approx. 350 x 430 x 795 (L x W x H)

### Model AFB 60 (without illustr.)

- Secure way to put canister in the swiveling basket for 60 l canister
- steel plate, varnished
- Dim. approx. 415 x 490 x 1035 (L x W x H)

## Accessories

### Drain cock for canisters type AH 55

- For canister-threads 55 mm

### Drain cock for canisters type AH 60

- For canister-threads 60 mm

part no.	price EUR
23 027	5,86
23 028	23,78
23 029	11,83
25 050	178,06
25 051	261,71
25 052	321,46
25 119	27,37
25 120	29,76



**Petrol jerrycans**

Jerrycans made of HDPE or metal for transport of liquid fuels.

**When ordering packing unit (PU) we grant you a quantity discount of 10%.**

**Model KKB**

Robust jerrycan made of HDPE, red, suitable for liquid fuels, **not calibratable**

- Flexible discharge spout with integral ventilation
- Cover cap is secured against loss with flex. band
- Robust and resistant against impact
- TÜV-approved, UN/BAM-approved

**Type KKB 5 for 5 ltr.**

**Type KKB 10 for 10 ltr.**

**Type KKB 20 for 20 ltr.**

**Model AKB**

Robust jerrycan made of HDPE, steel-grey, suitable for liquid fuels, **not calibratable**

- Flexible discharge spout with integral ventilation
- Cover cap is secured against loss with flex. band
- Robust and resistant against impact
- Dimensions compatible with military jerrycans
- TÜV-approved, UN/BAM-approved

**Type AKB 20 for 20 ltr.**

**Model MKB**

Robust Jerrycan made of metal, olive-green, suitable for liquid fuels, **not calibratable**

- Internally painted
- Safe lock
- TÜV-approved, UN-approved

**Type MKB 5 for 5 ltr. (PU 5)**

**Type MKB 10 for 10 ltr. (PU 5)**

**Type MKB 20 for 20 ltr. (PU 4)**

**Accessories**

**Flexible discharge spout type MKB-AF**

- Für Metallkanister Type MKB, 240 mm lang

part no.	price EUR
24 200	20,20
24 201	23,78
24 202	35,73
24 203	47,68
24 204	53,66
24 205	59,63
24 206	71,58
24 208	23,78

Mod. KKW 20



Mod. KKW-A 20



Mod. KKW-SR 20



Mod. KKW-SA 20



Mod. KKW-SAR 20



**Jerrycans for water**

Jerrycans for water and other fluids, made of HDPE, food safe.

**Model KKW-R**

Robust jerrycan made of HDPE, steel-grey, food safe, **not calibratable**

- Flexible discharge spout with integral ventilation
- Cover cap is secured against loss with flex. band
- Robust and resistant against impact

**Type KKW-R 5 for 5 ltr.**  
**Type KKW-R 10 for 10 ltr.**  
**Type KKW-R 20 for 20 ltr.**

**part no. price EUR**

**24 210 14,22**  
**24 211 21,39**  
**24 212 27,37**

**Model KKW-A**

Robust jerrycan made of HDPE, transparent, food safe, **not calibratable**

- With detachable tap, easy to clean
- Cover cap is secured against loss with flex. band
- Robust and resistant against impact

**Type KKW-A 10 for 10 ltr.**  
**Type KKW-A 15 for 15 ltr.**  
**Type KKW-A 20 for 20 ltr.**  
**Type KKW-A 35 for 35 ltr.**

**24 213 20,20**  
**24 214 23,78**  
**24 215 32,15**  
**24 216 41,71**

**Model KKW-SR**

Robust jerrycan made of HDPE, transparent, food safe, **not calibratable**

- Flexible discharge spout with integral ventilation
- Cover cap is secured against loss with flex. band
- Robust and resistant against impact
- Stackable

**Type KKW-SR 10 for 10 ltr.**  
**Type KKW-SR 15 for 15 ltr.**  
**Type KKW-SR 20 for 20 ltr.**

**24 217 20,20**  
**24 218 23,78**  
**24 219 29,76**

**Model KKW-SA**

Robust jerrycan made of HDPE, transparent, food safe, **not calibratable**

- With detachable tap, easy to clean
- Cover cap is secured against loss with flex. band
- Robust and resistant against impact
- Stackable

**Type KKW-SA 10 for 10 Ltr.**  
**Type KKW-SA 15 for 15 Ltr.**  
**Type KKW-SA 20 for 20 Ltr.**

**24 220 23,78**  
**24 221 26,17**  
**24 222 29,76**

**Model KKW-SAR**

Robust jerrycan made of HDPE, transparent, food safe, **not calibratable**

- Flexible discharge spout with integral ventilation
- With detachable tap, easy to clean
- Cover cap is secured against loss with flex. band
- Robust and resistant against impact
- Stackable

**Type KKW-SAR 10 for 10 ltr.**  
**Type KKW-SAR 15 for 15 ltr.**  
**Type KKW-SAR 20 for 20 ltr.**

**24 223 29,76**  
**24 224 35,73**  
**24 225 41,71**

The storage tanks are approved to be put up outside a water pollution control area without drain pan or other possibilities to catch spills. Inside a water pollution control area you need to ask the water authorities responsible for the area in question.



Mod. T/R inkl. Palette



**Please note:**

Conforming to § WHG 19 I of German Federal Law an overflow prevention system is necessary when using a coupling (see page 92-94). Moreover, when storing waste oil a leakage warning system and an overflow prevention system is necessary conforming to § WHG 19 I of German Federal Law (see page 92-94).



Type ATR

Type FA/R

**Storage and waste management tanks**

The compact storage and transport tanks are used in the mineral oil industry, agriculture and business and are permitted for hazardous liquids of AIII VbF.

**Licensed conforming to no. Z-40.21-29**

A Transport licence conforming to GGV-street and GGV-railway of German Federal Law is available.

**Basic version:**

- Inner container is corrosion free
- Fully galvanised crimped outer container
- Assembly without additional drain pan
- Permitted for the transport of hazardous goods of packing group II and GF AIII
- Suitable for grease oil, hydraulic oil, heat carrier oil and waste oil of known origin AIII VbF

**Model T/R 400\* (no transport licence)**

**27 064 699,08**

- Capacity 400 ltr., with pedestal, weight 50 kg
- Dim. approx. 730 x 700 x 1180 mm (L x W x H)

**Model T/R 750\* (no transport licence)**

**27 032 854,43**

- Capacity 750 ltr., with pedestal, weight 72 kg
- Dim. approx. 980 x 760 x 1370 mm (L x W x H)

**Model T/R 1000\* (no transport licence)**

**27 033 1.069,53**

- Capacity 1000 ltr., with pedestal, weight 94 kg
- Dim. approx. 1280 x 760 x 1370 mm (L x W x H)

**Model T/R 1500\* (no transport licence)**

**27 065 1.667,03**

- Capacity 1500 ltr., with pedestal, weight 165 kg
- Dim. approx. 1630 x 755 x 1870 mm (L x W x H)

**Model T/R 400 (with transport licence)**

**27 030 734,93**

- Capacity 400 ltr., with palette, weight 55 kg
- Dim. approx. 730 x 700 x 1180 mm (L x W x H)

**Model T/R 750 (with transport licence)**

**27 012 890,28**

- Capacity 750 Ltr., with palette, weight 82 kg
- Dim. approx. 980 x 760 x 1370 mm (L x W x H)

**Model T/R 1000 (with transport licence)**

**27 013 1.105,38**

- Capacity 1000 Ltr., with palette, weight 110 kg
- Dim. approx. 1280 x 760 x 1370 mm (L x W x H)

**Model T/R 1500 (with transport licence)**

**27 031 1.786,53**

- Capacity 1500 Ltr., with palette, weight 165 kg
- Dim. approx. 1630 x 755 x 1870 mm (L x W x H)

**Plus proportion of the cost for cargo for mod. T/R**

Request

**Accessories for tank T/R**

<b>Level indicator 400 ltr. type FA/R 400</b>	<b>27 125</b>	<b>47,68</b>
<b>Level indicator 750 ltr. type FA/R 750</b>	<b>27 126</b>	<b>47,68</b>
<b>Level indicator 1000 ltr. type FA/R 1000</b>	<b>27 127</b>	<b>47,68</b>
<b>Level indicator 1500 ltr. type FA/R 1500</b>	<b>27 128</b>	<b>47,68</b>
<b>Suction pipe type ATR 400</b>	<b>27 129</b>	<b>83,53</b>
■ G 2" for waste oil T/R 400, incl. type TWK 90		
<b>Suction pipe type ATR 750</b>	<b>27 130</b>	<b>95,48</b>
■ G 2" for waste oil T/R 750, incl. type TWK 90		
<b>Suction pipe type ATR 1000</b>	<b>27 131</b>	<b>95,48</b>
■ G 2" for waste oil T/R 1000, incl. type TWK 90		
<b>Suction pipe type ATR 1500</b>	<b>27 132</b>	<b>119,38</b>
■ G 2" for waste oil T/R 1500, incl. type TWK 90		

The storage tanks are approved to be put up outside a water pollution control area without drain pan or other possibilities to catch spills. Inside a water pollution control area you need to ask the water authorities responsible for the area in question.



Mod. T/S



Mod. T/T 2000

**Please note:**

Conforming to § WHG 19 I of German Federal Law an overfill prevention system is necessary when using a coupling (see page 92-94). Moreover, when storing waste oil a leakage warning system and an overfill prevention system is necessary conforming to § WHG 19 I of German Federal Law (see page 92-94).



Type FA/S

Type ASR



**Storage and waste management tanks mod. T/S**

The tank is double-walled with a PE inner container. The outer container is made out of sheet steel, which is double-sided hot galvanised, it has 4 x 2" int. th.-openings, incl. steel-pipe pallet for transportation of hazardous goods conforming to package group II and GF AIII VbF.

**Licensed conforming to no. Z-40.21-29**

A Transport licence conforming to GGV-street and GGV-railway of German Federal Law is available.

**Model T/S 700\* (no transport licence)**

Cap. 700 ltr., no pallette, weight approx. 58 kg  
Dim. approx. 1135 x 720 x 1010 mm (L x W x H)

**Model T/S 1000\* (no transport licence)**

Cap. 1000 ltr., no pallette, weight approx.82 kg  
Dim. approx. 1135 x 720 x 1440 mm (L x W x H)

**Mode T/S 700 (with transport licence)**

Cap. 700 ltr., incl. pallette, weight approx. 59 kg  
Dim. approx. 1135 x 757 x 1210 mm (L x W x H)

**Modell T/S 1000 (with transport licence)**

Cap. 1000 ltr., incl. pallette, weight approx. 83 kg  
Dim. approx. 1135 x 757 x 1640 mm (L x W x H)

**Additional freight costs models T/S**

**Storage and disposal tanks mod. T/T**

Double walled tank, the inner- and outer-container is made out of PE. UV-stabilised with vertical buckstay, 4 x 2" int.th. opening, licensed for the storage of lubricates, Diesel and waste oil of hazardous goods class GF AIII VbF.

**Model T/T 750 (no transport licence)**

Cap.750 ltr., without pallette, weight approx. 39 kg  
Maße ca. 1190 x 660 x 1450 mm (L x W x B)

**Model T/T 1000 (no transport licence)**

Cap. 1000 ltr., without pallette, weight approx. 50 kg  
Maße ca. 1190 x 770 x 1700 mm (L x W x B)

**Model T/T 1500 (no transport licence)**

Cap. 1500 ltr., without pallette, weight approx.79 kg  
Maße ca. 1720 x 770 x 1700 mm (L x W x B)

**Model T/T 2000 (no transport licence)**

Cap. 2000 ltr., without pallette, weight approx.145 kg  
Maße ca. 2200 x 770 x 1700 mm (L x W x B)

**Additional freight costs models T/T**

**Accessories for tank T/S**

**Level indicator 700 ltr. type FA/S 700**

27 122 39,32

**Level indicator 1000 ltr. type FA/S 1000**

27 123 39,32

**Suction pipe for waste oil, 700 ltr. type ASR 700**

27 112 53,66

**Suction pipe for waste oil, 1000 ltr. type ASR 1000**

27 113 53,66

**Accessories for Tank T/T**

**Level indicator for tanks T/T type FA/T**

27 155 39,32

**Suction pipe for waste oil, 750 ltr. type AT/T 750**

27 156 47,68

**Suction pipe for waste oil, 1000 ltr. type AT/T 1000**

27 157 47,68

**Suction pipe for waste oil, 1500 ltr. type AT/T 1500**

27 158 47,68

**Accessories for tank MT/MS (page 91)**

**Suction pipe type AMT 900**

27 142 297,56

■ G 2" for waste oil tank MT 900

**Suction pipe Type AMT 1300-2400**

27 143 405,11

■ G 2" for waste oil tank M/T 1300-2400

Request

Request



## Oil Dispensing Sets incl. Tank

A ready-for-use oil dispenser set provides optimal oil supply using only little space. Moreover this oil dispenser complies with the requirements of the WHG. Available with can filling tables or automatic hose reel.

### Basic model:

- Double-walled tank type T/S with transport authorisation
- Electric or pneumatic oil pumps
- Venting cap type EK
- Can filling table or hose reel with manual flow meter

**Performance:** (depending on degree of viscosity - see p. 240)

- **Pneumatic pump** max. 10 Ltr./min
- Air inlet pressure max. 8 bar (150 PSI)
- Type OP 90 D 35/1 incl. pressure reducer D/M 06 (Mod. KAS)
- Type OP 90 D 30/1 incl. pressure reducer D/M 06 (Mod. ÖAS)

- **Electrical pump** max. 10 Ltr./min
- Connection 230 V~, 50 Hz, 0.55 kW
- Type OP 140 E/1 (on-off-switch)
- With connecting cable and power plug

### Model KAS 700 P (without ill.)

- 700 Ltr.-Tank T/S 700
- Pneum. Pump Type OP 90 D 35/1, incl. suction hose and pressure reducer
- Can filling table type KAS 1

### Model KAS 1000 P

- Identical to model KAS 700 P, but with:
- 1000 Ltr.-Tank T/S 1000

### Model KAS 700 E (without ill.)

- Identical to model KAS 700 P, but with:
- Elektr. pump type OP 140 E/1, incl. suction hose

### Model KAS 1000 E (without ill.)

- Identical to model KAS 700 E, but with:
- 1000 Ltr.-Tank T/S 1000

### Model ÖAS 700 P/1-SET

- 700 Ltr.-Tank T/S 700
- Pneum. pump type OP 90 D 30/1, incl. suction hose and pressure reducer
- Autom. hose reel type 9.10.12/1, 10 m, DN 12
- Manual flow meter type LCD 18/1

### Model ÖAS 1000 P/1-SET (without ill.)

- Identical to model ÖAS 700 P/1-SET, but with:
- 1000 Ltr.-Tank T/S 1000

### Model ÖAS 700 E/1-SET (without ill.)

- Identical to model ÖAS 700 P/1-SET, but with:
- Elektr. pump type OP 140 E/1, incl. suction hose

### Model ÖAS 1000 E/1-SET (without ill.)

- Identical to model ÖAS 700 E/1-SET, but with:
- 1000 Ltr.-Tank T/S 1000

**Assembly ready to connect for mod. KAS + ÖAS**  
**Plus proportion of the cost for cargo for mod. KAS + ÖAS**

199,-  
Request

### Accessories

#### Add.charge for press. switch for electr. pump type MD

- Assembly including pressure switch for ÖAM and ÖAS

#### Remote tank filling set type TFB-Set

- Accessory package for remote tank filling, consisting of:
- Overfill protection type ÜBF
- T-piece type T-50 and tank truck coupling type TWK 90

part no.	price EUR
27 080	2.069,77
27 081	2.262,16
27 082	2.387,70
27 083	2.580,09
27 074	2.329,06
27 075	2.508,31
27 076	2.568,06
27 077	2.747,31
20 199	316,68
27 164	854,43



Mod. M/T

**Please note:**

Conforming to § WHG 19 I of German Federal Law an overflow prevention system is necessary when using a coupling (see page 92-94).

These tanks can be put up without an additional drain pan and without any space between them or between tank and wall. They are as well useable without drain pan in a water pollution control area.



Mod. GS 995

**Storage and waste tanks**

These all-purpose double-walled steel storage tanks can be used for fresh oil, waste oil and other flammable (GF Alll VbF) and water polluting liquids (WGK 1 - 3)  
**Licensed conforming DIBT no. Z-38.12-41.**

**Basic version:**

- Container made out of varnished, double walled steel
- Easily cleaned tank cover with 500 mm diameter, 6 x 2" sleeves
- Vakuu-meter for permanent leakage control and continuous display of content

**Model M/T 900**

- Capacity 900 ltr., weight approx. 200 kg
- Dim. approx. 1200 x 800 x 1140 mm (L x W x H)
- Entire height 1290 mm

**Model M/T 1300**

- Capacity 1300 ltr., weight approx. 260 kg
- Dim. approx. 1200 x 800 x 1600 mm (L x W x H)
- Entire height 1750 mm

**Model M/T 2000**

- Capacity 2000 Ltr., weight approx. 370 kg
- Dim. approx. 1800 x 800 x 1600 mm (L x W x H)
- Entire height 1750 mm

**Model M/T 2400**

- Capacity 2400 ltr., weight approx. 420 kg
- Dim. approx. 2200 x 800 x 1600 mm (L x W x H)
- Entire height 1750 mm

**Add. charge waste oil accessories set type M/T-AS**

- Incl. tank cover with suction pipe, filling pipe and ventilation cap

**Plus proportion of the cost for cargo for mod. M/T**

**Storage tanks for Al VbF in the same dimensions as above available.**

**Licensed conforming DIBT no. Z-38.12.41**

**Storage container of hazardous goods**

Collecting container for water polluting goods conforming German Federal Law VbF Al up to Alll and B for in and outside use. Only to be used by trained staff. Self closing funnel. The containers are resistant against the pressure of an explosion. They are double-walled and hot-galvanised with airing pipe, fuel level plunger and automatically closing 2" suction pipe with brass-safty thread. The filling pipe has a gas-tight ball valve.  
Licence no: Z-38.12-59

**Model GS 250**

- Capacity 250 ltr., weight approx. 170 kg
- Dim. approx. 800 x 700 x 1200 mm (L x W x H)
- Manuel use of the funnel lid

**Model GS 400**

- Capacity 400 ltr., weight approx. 200 kg
- Dim. approx. 1200 x 1000 x 1025 mm (L x W x H)
- Manuel use of the funnel lid

**Model GS 600**

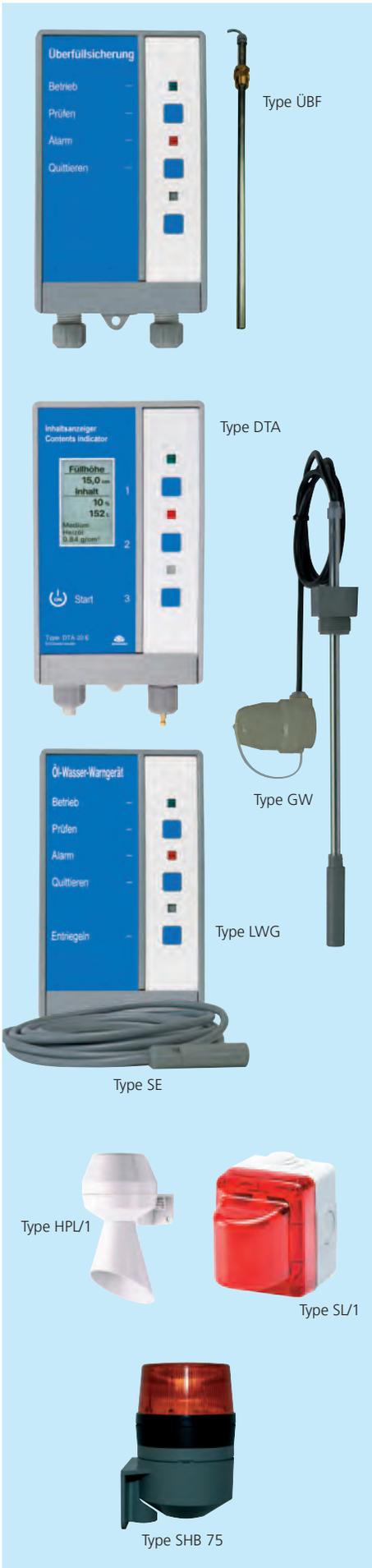
- Capacity 600 ltr., weight approx. 230 kg
- Dim. approx. 1200 x 1000 x 1210 mm (L x W x H)
- Use of funnel lid per pedal

**Model GS 950**

- Capacity 950 ltr., weight approx. 290 kg
- Dim. approx. 1450 x 1250 x 1230 mm (L x W x H)
- Use of funnel lid per pedal

**Plus proportion of the cost for cargo for mod. GS**

part no.	price EUR
27 005	4.176,53
27 007	4.535,03
27 010	5.491,03
27 011	6.805,53
27 162	596,31
	Request
27 044	6.566,53
27 045	7.044,53
27 046	7.761,53
27 047	8.717,53
	Request



**For oil tanks T/S, T/R, T/C, M/T, M/S, E/T**

**Overfill prevention system type ÜBF**

The system meets the WHG § 19 I requirements of German Federal Law for fresh and waste oil A III.

- Level sensor type 76 A, probe length 500 mm, Ø 16 mm connection 3/4"
- Level limiter type NB 220 QS with integrated alarm and quit devices. Signal lamp and buzzer give alarm signal. To quit the alarm press the quit button, which is as well the signal lamp. More connections for external signal devices are available
- Plastic housing protected by IP 40, emergency current, alternating current 230 V~, 50 Hz

**Digital Level Indicator for Tank type DTA**

Multipurpose level indicator for tank, for continuous level measuring

- Multipurpose use for container up to 4 m height
- Density from 0,5 up to 1,5 g/cm<sup>3</sup>, variably adjustable, therefore to be used for different liquids
- Digital display with background lighting
- Applied operation languages Englisch French, German
- Battery powered, no external supply voltage necessary
- Push-To-Read function: Quick start by keystroke
- Remote measurement

**Limit indicator type GW**

- Licenced for Diesel and fuel
- Protection IP 40

**Leakage indicator type LWG**

- For fresh and waste oil storage conforming GF A III VbF
- Warning unit with probe for level control
- With acustical and visual signal
- Protection IP 30

**Probe optic-electronically type SE**

- Licenced for engine oil
- Applicable only in connection with LWG
- Connection cable 10 m

**Leakage indicator type LWG 5**

- Identical with model LWG, but with
- For up to 5 tanks

**Dry-running prevention type FLA (without ill.)**

- Level switch for pump
- Warning unit with probe for level control
- With acustical and visual signal
- Protection IP 30

**Signal horn type HPL/1**

- For safty reasons to be connected to the overfill prevention system type ÜBF, ÜBF 1 or ÜBF 2
- 230 V~, protection IP 43, 92 dB

**Signal lamp type SL/1**

- Incl. bulb, red
- 230 V~, protection IP 55

**Combination signal type SHB 75**

- Signal horn, 92 dB / 1 m, 230 V~
- Flash light, orange

part no.	price EUR
27 100	651,28
27 163	388,38
27 103	83,65
27 104	460,08
27 124	125,48
27 147	651,28
24 148	352,53
27 105	113,53
27 106	53,78
27 160	197,18



**For oil tanks T/S, T/R, M/T, M/S, E/T**

**Tank coupling type TWK 90**

■ With blind lid, incl. 90° arch

**Tank coupling type TWK 45**

■ With blind lid, incl. 45° arch

**Tank coupling type TK**

■ With blind lid

**Tank cover type TK/DN 20**

■ Incl. double nipple 3/4" ex. th.

**Tank cover type TK/SSK 20**

■ Incl. quick coupling 3/4"

**T-unit G 2" ex. th. type T-50**

■ Incl. 90° angle, 2" (fifth 2" opening)

**Ventilation cap type EK**

■ Pipe 100 mm, G2"

**Ventilation cap type EK-2**

■ Pipe 600 mm, G2"

**Suction hose detent type SG 20K**

■ For G 2", plastic made, 2 ports, NPS 20 and NPS 08

**Suction hose detent type SG 25K**

■ For G 2", plastic made, 2 ports, NPS 25 and NPS 08

**Suction hose detent type SG 20**

■ For G 2", aluminium made, 2 ports, , NPS 20 and return port NPS 08

**Suction hose detent type SG 25**

■ For G 2", aluminium made, 2 ports, NPS 25 and return port NPS 08

**Suction hose type SG 20-1.5**

■ NPS 20, 1,5 m with bottom valve and filter

**Suction hose type SG 20-2.5**

■ NPS 20, 2,5 m with bottom valve and filter

**Suction hose type SG 25-1,5**

■ NPS 25, 1,5 m with bottom valve and filter

**Suction hose type SG 25-2,5**

■ NPS 25, 2,5 m with bottom valve and filter

**Suction hose type SG 32-1,5**

■ NPS 32, 1,5 m with bottom valve and filter

**Suction hose type SG 32-2,5**

■ NPS 32, 2,5 m with bottom valve and filter

**3-way forced change-over type ZSG 20**

■ For the assembling of two suction pipe, NPS 20

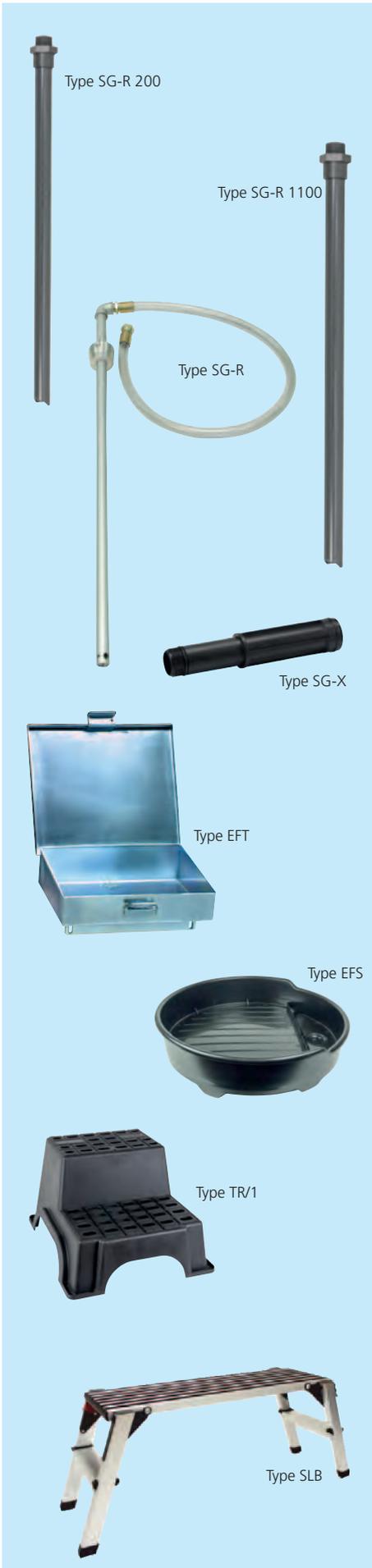
**3-way forced change-over type ZSG 25**

■ For the assembling of two suction pipe, NPS 25

**3-way forced change-over type ZSG 32**

■ For the assembling of two suction pipe, NPS 32

part no.	price EUR
27 108	106,36
27 138	106,36
27 137	58,56
27 153	106,36
27 154	142,21
27 109	94,41
27 110	29,88
27 139	65,73
20 515	24,98
20 731	24,98
20 516	116,99
20 732	116,99
20 511	98,59
20 512	111,73
20 525	124,88
20 618	136,83
20 710	230,04
20 711	256,33
20 513	221,08
20 674	280,83
20 720	340,58



**For oil tanks T/S, T/R, M/T, M/S, E/T**

**Suction pipe type SG-R 60**

- Suction pipe for 60 ltr.-barrel
- For pneumatic pumps OP 90 and OP 110

**Suction pipe type SG-R 200**

- Suction pipe for 200 ltr.-barrel
- For pneumatic pumps OP 90 and OP 110

**Suction pipe type SG-R 800**

- Suction pipe for tanks T/S 700 and T/R 400
- For pneumatic pumps OP 90 und OP 110

**Suction pipe type SG-R 1100**

- Suction pipe for tanks T/R 750 and T/R 1000
- For pneumatic pumps OP 90 und OP 110

**Suction pipe type SG-R 1300**

- Suction pipe for tanks T/S 1000
- For pneumatic pumps OP 90 und OP 110

**Suction pipe type SG-R 1540**

- Suction pipe for tanks T/R 1500
- For pneumatic pumps OP 90 und OP 110

**Suction pipe type SG-R**

- Suction pipe DN 20, 806 mm length
- Barrel screw connection, 2 m suction hose DN 20

**Filling funnel type EFT**

- Galvanised, G 2" ex. th., incl. sieve, with lock
- Dim. approx. 400 x 350 x 170 mm (L x W x H)

**Pan Model EFS**

- Plastic
- Drain G 2", incl. collection sieve
- Pan, Ø 600 mm
- For piling on top of 200 ltr. Barrel

**Step type TR/1**

- 2-steps
- Plastic
- Dim. approx. 600 x 360 x 360 mm (L x W x H)
- Weight approx. 3,0 kg

**Safety platform type SLB**

**NEW**

- Stable work platform made of aluminum, for safe use in workshop, including safety lock
- Foldable for easy transport and storage
- Load cap. up to 150 kg
- Stepping surface approx. 950 x 300 mm (l/w)
- Dim. approx. 1028 x 380 x 495 mm (l/w/h)
- Weight approx. 7,2 kg

part no.	price EUR
20 779	46,61
20 780	46,61
20 758	46,61
20 759	58,56
20 760	70,51
20 761	82,46
20 558	233,03
27 111	285,61
25 144	131,33
27 114	119,38
27 170	154,16

**Calibratable Rapid Measurement plants for lubricants and anti-freeze are licensed for approval according to Certificate of EC-type examination, DE-16-MI005-PTB026.**



Mod. OS 200 P

**Please note:**

Model regulated drain pans for storage of 200 ltr. barrels are shown on page 58.



Mod. OS 200 E-M

## Oil cabinet

These oil cabinets are made out of varnished sheet steel and are designed to deliver oil, Diesel and similar fluids.

### Basic version:

- Sturdy sheet steel cabinet with a lock
- Electrical or pneumatic pump
- 1,5 m suction hose, bottom valve and filter
- Oil connecting hose from pump to reel
- Automatic hose reel type 9.10.12/1, incl. 8 m hose, NPS 12
- Axial swivel joint for optimal use
- Hose end meter incl. outlet pipe and bracket
- Dim. approx. 700 x 700 x 1600 mm (L x W x H)
- Weight approx. 75 kg

**Performance:** (depending on degree of viscosity - (see page 230))

- **Pneumatic Pump** max. 10 ltr./min
- Air inlet pressure max. 8 bar (150 PSI)
- Type OP 90 D 30/1
- Type OP 90 D 30/1 E (**calibratable**)
  
- **Electrical pump** max. 10 ltr./min
- connection 230 V~, 50 Hz, 0,55 kW
- Type OP 140 ED (incl. pressure switch)
- Type OP 140 E/E (**calibratable**, on-off-switch)
- Type OP 140 ED/E (**calibratable**, incl. pressure switch)

### Model OS 200 P, pneum. pump

- Pneum. pump type OP 90 D 30/1, incl. suction hose and pressure switch
- Flow meter, digital, type LCD 18/1
- Engine oil outlet, type AR-M
- **Not-calibratable**

### Model OS 200 P/E, pneum. Pumpe

- Pneum. pump type OP 90 D 30/1 E, incl. suction hose and pressure switch
- Air separator, certificate of EC type examination
- Flow meter, digital, type LCD 18/1
- Engine oil outlet, type AR-M
- **Calibratable / according to MID**

### Model OS 200 E, electr. pump

- Electr. pump OP 140 ED/1, incl. suction hose
- Pressure switch, cabled
- Flow meter, digital, type LCD 18/1
- Engine oil outlet, type AR-M
- **Not-calibratable**

### Model OS 200 E/E, electr. Pumpe

- Electr. pump OP 140 ED/1, incl. suction hose
- Pressure switch, cabled
- Air separator, certificate of EC type examination
- Flow meter, digital, type LCD 18/1
- Engine oil outlet, type AR-M
- **Calibratable / according to MID**

### Model OS 200 E-M, quantity preselection

- Electr. pump OP 140 ED/1, incl. suction hose
- Preselection via flow meter LCD 50
- Min. quantity preselection 0,1 ltr.
- Nozzle with outlet for engine oil, type AR-M
- **Not-calibratable**

### Model OS 200, manual (without illustr.)

- Handpump capacity 0,25 ltr. / stroke
- Without hose and hose end meter
- **Not-calibratable**

part no.	price EUR
22 200	3.280,28
22 201	3.937,53
22 202	3.579,03
22 203	4.355,78
22 205	6.327,53
22 204	2.085,28



Type ÖAM 60/2

**Mobile Trollies**

These trollies are suitable for barrels of 60 or 200 ltr. They are made out of galvanized sheet steel in an ergonomic and solid design for daily use. Combinable with drain pans (see page 54).

**Model ÖAM 60/2**

These trollies are suitable for barrels of 60 ltr. They are made out of galvanized sheet steel in an ergonomic and solid design for daily use. Combinable with drain pans (see page 54).

- With drum and pump holder
- With 2 rollers Ø 150 mm and 2 steering rollers Ø 70 mm
- Storage space approx. 390 x 400 mm (L x B)
- Dim. approx. 460 x 490 x 970 mm (L x B x H), 12 kg

part no.

price EUR

22 152

185,23



Type ÖAM 200/2

**Model ÖAM 200/2**

These trollies are suitable for barrels of 200 ltr. They are made out of galvanized sheet steel in an ergonomic and solid design for daily use. Combinable with drain pans (see page 54).

- With drum and pump holder
- **Ergonomic, adjustable handle**
- with 2 rollers Ø 150 mm and 2 steering rollers Ø 70 mm
- Storage space approx. 600 x 620 mm (L x B)
- Dim. approx. 660 x 510 x 970 mm (L x W x H), 20 kg

22 153

316,68



Type ÖAM 200-2/2

**Model ÖAM 200-2/2**

These trollies are suitable for barrels of 200 ltr. They are made out of galvanized sheet steel in an ergonomic and solid design for daily use. Combinable with drain pans (see page 54).

- With drum and pump holder, pole and mounting bracket for pumps, hose reels or something similar
- with 2 rollers Ø 200 mm and 2 steering rollers Ø 150 mm
- Storage space approx. 630 x 620 mm (L x B)
- Dim. approx. 1000 x 680 x 970 mm (L x W x H), 40 kg

22 154

388,38



## Oil dispenser 80 Ltr.

These mobile oil dispensers with the barrel capacity up to 80 ltr. are mainly designed for the network independent use. The oil is filled in the dispenser with the force of gravity and the help of a funnel out of 50, 60 or 200 ltr.-barrels. You may also use a decanting pump to fill the oil out of a tank into the dispenser.

The extraction takes place through former impingment by compressed air of the barrel or trough hand pumps and is network independent. You could also use a pneumatic pump even though this has to be network-dependent. The later version could be calibratable.

### Basic version:

- Rugged container with 80 ltr. capacity
- 2 rollers and 2 steering rollers
- Funnel, Ø = 150 mm
- Dim. of the container without fittings 470 x 440 x 860 mm (L x W x H)
- Dead weight 30 kg

### Model OSD 80

- Network-independent mode of operation through storage of compressed air, pressure gauge
- Max. 2,5 bar, impingment by air by pressure delimitter
- 2 m dispensing hose with nozzle ZP 12
- **Not calibratable**

### Model OSD 80 Z (without illustr.)

- Identical with model OSD 80, but with
- Hose end meter LCD 18/1
- **Not calibratable**

### Model OSD 80 B (without illustr.)

- Identical with model OSD 80, but with
- **Container filling by means of vacuum, hose length 3 m**
- **Not calibratable**

### Model OSD 80 BZ (without illustr.)

- Identical with model OSD 80 B, but with
- Hose end meter LCD 18 U
- **Not calibratable**

### Model OSG 80 HP (without illustr.)

- Basic version, but with
- Hose lever pump model 13012 with 1,5 m hose and gear oil outlet
- **Not calibratable**

### Model OSG 80 K

- Basic version, but with
- Crank pump model HP 100
- **Not calibratable**

### Model OSG 80 P (without illustr.)

- Basic version, but with
- Pneum. oil pump model OP 90 D 30/1
- 2 m dispensing hose with nozzle ZP 12
- **Not calibratable**

### Model OSG 80 PZ

- Identical with model OSG 80 P, but with
- Hose end meter LCD 18/1
- **Not calibratable**

### Model OSG 80 PZ/E (without illustr.)

- Identical with model OSG 80 P, but with
- Pneum. oil pump model OP 90 D 30/1/E
- Hose end meter LCD 18 E
- **Calibratable / according to MID**

part no.	price EUR
22 112	627,38
22 113	866,38
22 130	977,38
22 131	1.216,35
22 114	412,28
22 115	507,88
22 116	926,13
22 117	1.189,03
22 118	1.667,03

**Please note:**

Model regulated drain pans for storage of 200 ltr. barrels are shown on page 58.



Mod. ÖAM 200/2 ZP



Mod. ÖAM 200/2 SZP/E



Mod. ÖAM 200/2 SZE

**Mobile version**

This mobile version set is designed for 200 ltr. barrels and is available in a calibratable or non-calibratable version. Barrels can be changed fast and easy due to a low load floor.

**Basic version:**

- Rugged base frame type ÖAM 200-2/1 with 2 rollers and 2 steering rollers
- Electrical or pneumatic oil pump
- 2 m oil dispensing hose, NPS 12
- Hose end meter incl. outlet pipe and bracket

**Performance:** (depending on degree of viscosity - see p. 240)

- **Pneumatic pump** max. 10 Ltr./min
- Air inlet pressure max. 8 bar (150 PSI)
- type OP 90 D 30/1

- **Electrical pump** max. 10 Ltr./min
- Connection 230 V~, 50 Hz, 0,55 kW
- Type OP 140 E/1 (on-off-switch)
- Type OP 140 ED/1 (pressure switch in addition of surcharge available)
- With connecting cable and power plug

**Model ÖAM 200/2 ZP, pneum. pump**

- Pneum. pump type OP 90 D 30/1, incl. suction pipe
- Hose end meter type LCD 18/1
- Dim. approx. 1005 x 760 x 1000 mm (L x W x H), 46 kg
- **Not calibratable**

**Model ÖAM 200/2 SZP, pneum. pump**

- Identical with Model ÖAM 200 ZP, but with:
- Autom. hose reel type 9.10.12, 10 m, NPS12
- Dim. approx. 1005 x 760 x 1000 mm (L x W x H), 56 kg
- **Not calibratable**

**Model ÖAM 200/2 ZP/E, pneum. pump**

- Pneum. pump type OP 90 D 30/1, incl. suction pipe
- Air separator, Certificate of EC-type examination
- Hose end meter type LCD 18 E
- Dim. approx. 1005 x 760 x 1000 mm (L x W x H), 48 kg
- **Calibratable / according to MID**

**Model ÖAM 200/2 SZP/E, pneum. pump**

- Identical with model ÖAM 200 ZP/E, but with:
- Autom. hose reel type 9.10.12, 10 m, NPS12
- Dim. approx. 1005 x 760 x 1000 mm (L x W x H), 58 kg
- **Calibratable / according to MID**

**Model ÖAM 200/2 ZE, electr. pump**

- Electr. pump type OP 140 E, incl. suction pipe
- Hose end meter type LCD 18/1
- Dim. approx. 1005 x 760 x 1000 mm (L x W x H), 48 kg
- **Not calibratable**

**Model ÖAM 200/2 SZE, electr. pump**

- Identical with model ÖAM 200 ZE, but with:
- Autom. hose reel type 9.10.12, 10 m, NPS12
- Dim. approx. 1005 x 760 x 1000 mm (L x W x H), 58 kg
- **Not calibratable**

**Model ÖAM 200/2 ZE/E, electr. pump**

- Electr. pump type OP 140 E/E, incl. suction pipe
- Air separator, Certificate of EC-type examination
- Hose end meter type LCD 18 E
- Dim. approx. 1005 x 760 x 1000 mm (L x W x H), 50 kg
- **Calibratable / according to MID**

**Model ÖAM 200/2 SZE/E, electr. pump**

- Identical with model ÖAM ZE/E, but with:
- Autom. hose reel type 9.10.12, 10 m, NPS12
- Dim. approx. 1005 x 760 x 1000 mm (L x W x H), 60 kg
- **Calibratable / according to MID**

part no.	price EUR
22 100	1.248,78
22 101	1.762,63
22 102	1.762,63
22 103	2.145,03
22 104	1.523,63
22 105	2.001,63
22 106	2.001,63
22 107	2.360,13

Calibratable Rapid Measurement plants for lubricants and anti-freeze are licensed for approval according to Certificate of EC-type examination, DE-16-MI005-PTB026.



Inkl. D/M 06



Mod. ÖAM 60/2 ZP



Mod. ÖAM 60/2 ZE

### Mobile Version

This mobile version set is designed for 50-60 ltr. barrels and is available in a calibratable or non-calibratable version. Barrels can be changed fast and easy due to a low load floor.

#### Basic version:

- Rugged base frame type ÖAM 60/1 with 2 rollers and 2 steering rollers
- Electrical or pneumatic oil pump
- 2 m oil dispensing hose, NPS 12
- Hose end meter incl. outlet pipe and bracket

**Performance:** (depending on degree of viscosity - see p. 240)

- **Pneumatic pump** max. 10 Ltr./min
- Air inlet pressure max. 8 bar (150 PSI)
- Type OP 90 D 30/1 incl. pressure reducer D/M 06

- **Electrical pump** max. 10 Ltr./min
- Connection 230 V~, 50 Hz, 0,55 kW
- Type OP 140 E/1 (on-off-switch)
- Type OP 140 ED/1 (pressure switch in addition of surcharge available)
- With connecting cable and power plug

### Model ÖAM 60/2 ZP, pneum. pump

- Pneum. pump Type OP 90 D 30/1, incl. suction pipe
- Hose end meter type LCD 18/1
- Dim approx. 460 x 490 x 970 mm (L x W x H), 20 kg
- **Not calibratable**

### Model ÖAM 60/2 ZP/E, pneum. pump

- Pneum. pump type OP 90 D 30/1, incl. suction pipe
- Air separator, certificate of EC-type examination
- Hose end meter type LCD 18 E
- Dim approx. 460 x 490 x 970 mm (L x W x H), 22 kg
- **Calibratable / according to MID**

### Model ÖAM 60/2 ZE, electr. pump

- Electr. pump type OP 140 E, incl. suction pipe
- Hose end meter type LCD 18/E
- Dim. approx. 460 x 490 x 970 mm (L x W x H), 24 kg
- **Not calibratable**

### Model ÖAM 60/2 ZE/E, electr. pump

- Electr. pump type OP 140 E/E, incl. suction pipe
- Air separator, certificate of EC-type examination
- Hose end meter type LCD 18 E
- Dim. approx. 460 x 490 x 970 mm (L x W x H), 26 kg
- **Calibratable / according to MID**

**Assembly ready to connect for ÖAM  
Additional freight charges for ÖAM**

### Add.charge for press. switch for electr. pump type MD

- Assembly including pressure switch for ÖAM and ÖAS

part no.

price EUR

22 109

1.045,63

22 108

1.523,63

22 110

1.260,73

22 111

1.738,73

149,-  
Request

20 199

316,68



Mod. ÖAS 200 ZE



Mod. ÖAS 200 SZP



Mod. ÖAS 200 SZE

**Please note:**

Model regulated drain pans for storage of 200 ltr. barrels are shown on page 58.

**Stationary version**

These compact and handy version is suitable for 200 ltrs. barrels. It facilitates a comfortable oil supply within a radius of 10 m.

**Performance:** (depending on degree of viscosity - see p. 240)

- **Pneumatic pump** max. 10 Ltr./min
- Air inlet pressure max. 8 bar (150 PSI)
- Type OP 90 D 30/1 incl. pressure reducer D/M 06

- **Electrical pump** max. 10 Ltr./min
- Connection 230 V~, 50 Hz, 0,55 kW
- Type OP 140 E/1 (on-off-switch)
- Type OP 140 ED/1 (pressure switch for additional charge)
- With connecting cable and power plug

**Model ÖAS 200 ZP, pneum. pump**

- Pneum. pump type OP 90 D 30/1, incl. suction pipe
- Oil dispensing hose type ÖVS 05.12, 5 m, NPS 12
- Hose end meter, digital, Type LCD 18/1
- **Not calibratable**

**Model ÖAS 200 SZP, pneum. pump**

- Pneum. pump type OP 90 D 30/1, incl. suction pipe
- Automatic hose reel Type 9.10.12, 10 m, NPS 12
- Hose end meter, digital, type LCD 18/1
- **Not calibratable**

**Model ÖAS 200 ZE, electr. pump**

- Electr. pump type OP 140 E
- Oil dispensing hose type ÖVS 05.12, 5 m, NPS 12
- Hose end meter, digital, type LCD 18/1
- **Not calibratable**

**Model ÖAS 200 SZE, electr. pump**

- Electr. pump type OP 140 E
- Automatic hose reel type 9.10.12, 10 m, NPS 12
- Hose end meter, digital, type LCD 18/1
- **Not calibratable**

**Assembly ready to connect for ÖAS 200**

99,-

**Accessories**

**Add.charge for press. switch for electr. pump type MD**

- Assembly including pressure switch for ÖAM and ÖAS

part no.

price EUR

22 015

770,78

22 001

1.308,53

22 017

1.009,78

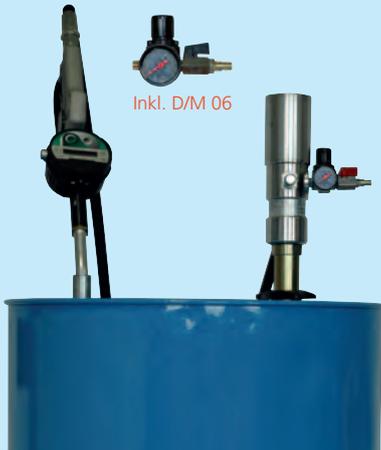
22 003

1.547,53

20 199

316,68

Calibratable Rapid Measurement plants for lubricants and anti-freeze are licensed for approval according to Certificate of EC-type examination, DE-16-MI005-PTB026.



Mod. ÖAS 200 ZP/E



Mod. ÖAS 200 SZP/E



Mod. ÖAS 200 SZE/E

**Please note:**

Model regulated drain pans for storage of 200 ltr. barrels are shown on page 58.

### Stationary version

These compact and handy version is suitable for 200 ltr. barrels. It facilitates a comfortable oil supply within a radius of 10 m.

**Performance:** (depending on degree of viscosity - see p. 240)

- **Pneumatic pump** max. 10 Ltr./min
- Air inlet pressure max. 8 bar (150 PSI)
- Type OP 90 D 30/1 E (calibratable)
- **Electrical pump** max. 10 Ltr./min
- Connection 230 V~, 50 Hz, 0,55 kW
- Type OP 140 E/1 (on-off-switch)
- Type OP 140 ED/1 (pressure switch for additional charge)
- With connecting cable and power plug

### Model ÖAS 200 ZP/E, pneum. pump

- Pneum. pump type OP 90 D 30/1, incl. suction pipe
- Air separator, certificate of EC-type examination
- Oil dispensing hose type ÖVS 05.12, 5 m, NPS 12
- Hose end meter, digital, type LCD 18 E
- **Calibratable / according to MID**

### Model ÖAS 200 SZP/E, pneum. pump

- Pneum. pump type OP 90 D 30/1, incl. suction pipe
- Air separator, certificate of EC-type examination
- Automatic hose reel type 9.10.12, 10 m, NPS 12
- Hose end meter, digital, type LCD 18 E
- **Calibratable / according to MID**

### Model ÖAS 200 ZE/E, electr. pump

- Electr. pump type OP 140 E/E
- Air separator, certificate of EC-type examination
- Oil dispensing hose Type ÖVS 05.12, 5 m, NPS 12
- Hose end meter, digital, type LCD 18 E
- **Calibratable / according to MID**

### Model ÖAS 200 SZE/E, electr. pump

- Electr. pump type OP 140 E/E
- Air separator, certificate of EC-type examination
- Autom. hose reel type 9.10.12, 10 m, NPS 12
- Hose end meter, digital, type LCD 18 E
- **Calibratable / according to MID**

### Assembly ready to connect for ÖAS 200

### Accessories

#### Add.charge for press. switch for electr. pump type MD

- Assembly including pressure switch for ÖAM and ÖAS

part no.	price EUR
22 016	1.129,28
22 002	1.786,53
22 018	1.368,28
22 004	1.906,03
	99,-
20 199	316,68



Inkl. D/M 06

Mod. ÖAS 1000 P

Mod. ÖAS E

Mod. ÖAS 1000 E

## Stationary Version

A ready-for-use oil dispenser set provides optimal oil supply using only little space. Moreover this oil dispenser complies with the requirements of the WHG.

### Basic model for T/S-tank or T/R-tank

- Rugged mounting plate for the tank
- Electrical or pneumatic oil pump
- Suction hose going from the pump to the reel
- Axial swivel joint for optimise the use
- Hose end meter
- Engine oil outlet with anti-drip nozzle
- Bracket for hose end meter
- Delivery does not include tank (see page 80)

**Performance:** (depending on degree of viscosity - see p. 240)

- **Pneumatic pump** max. 10 Ltr./min
- Air inlet pressure max. 8 bar (150 PSI)
- Type OP 90 D 30/1 incl. pressure reducer D/M 06

- **Electrical pump** max. 10 Ltr./min
- Connection 230 V~, 50 Hz, 0.55 kW
- Type OP 140 E/1 (on-off-switch)
- Type OP 140 ED/1 (pressure switch for additional charge available)
- With connecting cable and power plug

### Model ÖAS P, pneum. pump

- Pneum. pump type OP 90 D 30/1, incl. suction hose and pressure reducer
- 5 m dispensing hose, NPS 12, swivel joint
- Hose end meter type LCD 18/1
- For 700 ltr. or 1000 ltr. tank T/S or T/R
- **Not calibratable**

### Model ÖAS E, electr. pump

- Electr. pump type OP 140 E/1, incl. suction hose
- On-off-switch
- 5 m dispensing hose, NPS 12, swivel joint
- Hose end meter type LCD 18/1
- For 700 ltr. or 1000 ltr. tank T/S or T/R
- **Not calibratable**

### Model ÖAS 1000 P, pneum. pump

- Pneum. pump type OP 90 D 30/1, incl. suction hose and pressure reducer
- Automatic hose reel type 9.10.12, 10 m, NPS 12, swivel joint
- Hose end meter type LCD 18/1
- For 700 ltr. or 1000 ltr. tank T/S or T/R
- **Not calibratable**

### Model ÖAS 1000 E, electr. pump

- Electr. pump type OP 140 E/1, incl. suction hose
- Wired pressure switch for additional charge available
- Automatic hose reel type 9.10.12, 10 m, NPS 12, swivel joint
- Hose end meter type LCD 18/1
- For 700 ltr. or 1000 ltr. tank T/S or T/R
- **Not calibratable**

### Assembly ready to connect for ÖAS 1000

### Accessories

#### Add.charge for press. switch for electr. pump type MD

- Assembly including pressure switch for ÖAM and ÖAS

part no.	price EUR
22 005	890,28
22 006	1.129,28
22 007	1.428,03
22 009	1.667,03
	Request
20 199	316,68

Calibratable Rapid Measurement plants for lubricants and anti-freeze are licensed for approval according to Certificate of EC-type examination, DE-16-MI005-PTB026.



Mod. ÖAS E/E



Inkl. D/M 06

Mod. ÖAS 1000 P/E



Mod. ÖAS 1000 E/E

## Stationary version

A ready-to-use oil dispenser set provides optimal oil supply using only little space. Moreover this oil dispenser complies with the requirements of the WHG.

### Basic model for T/S-tank or T/R-tank

- Sturdy mounting plate
- Electrical or pneumatic pump
- Air separator, certificate of EC-type examination
- Oil connecting hose between pump and reel
- Automatic hose reel incl. 10 m hose DN 12
- Swivel joint to optimise the use
- Hose end meter
- Engine oil outlet with anti-drip nozzle
- Hose end meter bracket
- Tank is not included (see page 80)

**Performance:** (depending on degree of viscosity - see p. 240)

- **Pneumatic pump** max. 10 ltr./min
- Air inlet pressure max. 8 bar (150 PSI)
- Type OP 90 D 30/1 E (air separator, calibratable)
- **Electrical pump** max. 10 ltr./min
- Connection 230 V~, 50 Hz, 0,55 kW
- Type OP 140 ED/E (calibratable, pressure switch for additional charge available)
- Type OP 140 E/E (calibratable, on-off-switch)
- With connecting cable and power plug

### Model ÖAS P/E, pneum. pump

- Pneum. pump type OP 90 D 30/1, incl. suction hose and pressure reducer
- Air separator, Certificate of EC-type examination
- Dispensing hose 5 m DN 12, swivel joint
- Hose end meter type LCD 18 E
- For 700 ltr.- or 1000 ltr.-tank T/S or T/R
- **Calibratable / according to MID**

### Model ÖAS E/E, electr. pump

- Electr. pump type OP 140 E/E, incl. suction hose
- Air separator, certificate of EC-type examination
- Dispensing hose 5 m DN 12, swivel joint
- Hose end meter type LCD 18 E
- For 700 ltr.- or 1000 ltr.-tank T/S or T/R
- **Calibratable / according to MID**

### Model ÖAS 1000 P/E, pneum. pump

- Pneum. pump type OP 90 D30/1 E, incl. suction hose and pressure reducer
- Air separator, certificate of EC-type examination
- Automatic hose reel type 9.10.12, 10 m, NPS 12, swivel joint
- Hose end meter type LCD 18 E
- For 700 ltr.- or 1000 ltr.-tank T/S or T/R
- **Calibratable / according to MID**

### Model ÖAS 1000 E/E, electr. pump

- Electr. pump type OP 140 E/E, incl. suction hose
- Air separator, certificate of EC-type examination
- Automatic hose reel type 9.10.12, 10 m, NPS 12, swivel joint
- Hose end meter type LCD 18 E
- For 700 ltr.- or 1000 ltr.-tank T/S or T/R
- **Calibratable / according to MID**

### Assembly ready to connect for ÖAS 1000

### Accessories

#### Add.charge for press. switch for electr. pump type MD

- Assembly including pressure switch for ÖAM and ÖAS

part no.	price EUR
22 019	1.308,53
22 020	1.547,53
22 011	1.786,53
22 013	2.025,53
	Request
20 199	316,68



**Mobile Version**

This mobile oil dispenser set truck is designed for use with 200 l barrel, available in calibratable and non-calibratable version. The low levelled loading floor makes barrel change easy and fast.

**Basic version :**

- Solid trolley type ÖAM 200/2 or ÖAM 200-s/2 with 2 wheels and 2 castors
- Electric or pneumatic oil pump
- 2 m oil dispensing hose DN 16
- Digital flow meter (6-60 ltr./min.) incl. outlet pipe and holder

**Performance:** (depending on degree of viscosity - see p. 240)

- **Pneumatic pump** max. 15 ltr./Min
- Air inlet pressure max. 8 bar (160 PSI)
- Type OP 110 D 30/1 (1:3) incl. pressure reducer D/M 06

- **Electrical pump** max. 14 Ltr./min
- Connection 230 V~, 50 Hz, 1,1 kW
- Type OP 145 E/1 (on-off-switch)
- Type OP 145 ED/1 (pressure switch for additional charge available)
- With connecting cable and power plug

**Model TÖAM 200/2 ZP, pneum. Pump**

**part no.** 22 155 **price EUR** 1.607,28

- Pneum. pump type OP 110 D30/1, incl. suction pipe
- Digital flow meter type LCD 19
- Dim. approx. 920 x 780 x 1000 mm (L x W x H), 46 kg
- **Non-calibratable**

**Model TÖAM 200/2 SZP, pneum. pump**

**part no.** 22 156 **price EUR** 2.204,78

- Identical to model TÖAM 200/2 UP but with
- Automatic hose reel type 9.10.16/1, 10 m DN 16
- Dim. approx. 920 x 780 x 1000 mm (L x W x H), 46 kg
- **Non-calibratable**

**Model TÖAM 200/2 ZE, electr. pump**

**part no.** 22 159 **price EUR** 1.846,28

- Electr. pump type OP 145 E/1, incl. 1" suction hose
- Digital flow meter type LCD 19
- Dim. approx. 920 x 780 x 1000 mm (L x W x H), 48 kg
- **Non-calibratable**

**Model TÖAM 200/2 SZE, electr. pump**

**part no.** 22 160 **price EUR** 2.443,78

- Identical to model TÖAM 200/2 ZE but with
- Automatic hose reel type 9.10.16/1, 10 m DN 16
- Dim. approx. 920x780x1000 mm (L x W x H), 48 kg
- **Non-calibratable**

**Extra charge for assembling ready to use**

Request

**Accessories**

**Add.charge for press. switch for electr. pump type MD**

**part no.** 20 199 **price EUR** 316,68

- Assembly including pressure switch for ÖAM and ÖAS



Mod. TÖAM 200/2 ZP/E



Inkl. D/M 06



Mod. TÖAM 200/2 SZP/E



Mod. TÖAM 200/2 SZE/E

## Mobile Version

This mobile oil dispenser set truck is designed for use with 200 l barrel, available in calibratable and non-calibratable version. The low levelled loading floor makes barrel change easy and fast.

### Basic version :

- Solid trolley type ÖAM 200/2 or ÖAM 200-s/2 with 2 wheels and 2 castors
- Electric or pneumatic oil pump
- 2 m oil dispensing hose DN 16
- Digital flow meter (6-60 ltr./min.) incl. outlet pipe and holder

**Performance:** (depending on degree of viscosity - see p. 240)

- **Pneumatic pump** max. 15 ltr./Min
- Air inlet pressure max. 8 bar (160 PSI)
- Type OP 110 D 30/1 (1:3) incl. pressure reducer D/M 06

- **Electrical pump** max. 14 Ltr./min
- Connection 230 V~, 50 Hz, 1,1 kW
- Type OP 145 E/1 (on-off-switch)
- Type OP 145 ED/1 (pressure switch for additional charge available)
- With connecting cable and power plug

## Model TÖAM 200/2 ZP/E, pneum. Pump

22 157

1.965,78

- Pneum. pump type OP 110 D30/1, incl. suction pipe
- Air separator, certificate of EC type examination
- Digital flow meter type LCD 18/E
- Dim. approx. 920 x 780 x 1000 mm (L x W x H), 46 kg
- **Calibratable / according to MID**

## Model TÖAM 200/2 SZP/E, pneum. pump

22 158

2.563,28

- Identical to model TÖAM 200/2 ZP but with
- Automatic hose reel type 9.10.16/1, 10 m DN 16
- Dim. approx. 920 x 780 x 1000 mm (L x W x H), 46 kg
- **Calibratable / according to MID**

## Model TÖAM 200/2 ZE/E, electr. pump

22 161

2.204,78

- Electr. pump type OP 145 E/1, incl. 1" suction
- Air separator, certificate of EC type examination
- Digital flow meter type LCD 18/E
- Dim. approx. 920 x 780 x 1000 mm (L x W x H), 46 kg
- **Calibratable / according to MID**

## Model TÖAM 200/2 SZE/E, electr. pump

22 162

3.041,28

- Identical to model TÖAM 200/2 ZE but with
- Automatic hose reel type 9.10.16/1, 10 m DN 16
- Dim. approx. 920 x 780 x 1000 mm (L x W x H), 46 kg
- **Calibratable / according to MID**

**Extra charge for assembling ready to use**

Request

## Accessories

### Add.charge for press. switch for electr. pump type MD

20 199

316,68

- Assembly including pressure switch for TÖAM and TÖAS



Inkl. D/M 06

Mod. TÖAS 200 ZP



Mod. TÖAS 200 ZE



Mod. TÖAS 200 SZE

**Please note:**

Model regulated drain pans for storage of 200 ltr. barrels are shown on page 58.

**Stationary version**

For mounting on 200 ltr. barrel. For an operation area up to 10 m in comfortable and practical design.

**Basic type:**

- Electric or pneumatic oil pump
- 5 m oil dispensing hose DN 16
- Digital flow meter (6-60 ltr./min.) incl. outlet pipe and holder

**Performance:** (depending on degree of viscosity - see p. 240)

- **Pneumatic pump** max. 15 ltr./Min
- Air inlet pressure max. 8 bar (160 PSI)
- Type OP 110 D 30/1 (1:3) incl. pressure reducer D/M 06
- **Electrical pump** max. 14 Ltr./min
- Connection 230 V~, 50 Hz, 1,1 kW
- Type OP 145 E/1 (on-off-switch)
- Type OP 145 ED/1 (pressure switch for additional charge available)
- With connecting cable and power plug

**Model TÖAS 200/2 ZP, pneum. Pump**

- Pneum. pump type OP 110 D30/1, incl. suction pipe
- Dispensing hose type ÖVS 05.16, 5 m, NPS 16
- Digital flow meter type LCD 19
- **Non-calibratable**

**Model TÖAS 200/2 SZP, pneum. pump**

- Pneum. pump type OP 110 D30/1, incl. suction pipe
- Automatic hose reel type 9.10.16/1, 10 m NPS 16
- Digital flow meter type LCD 19
- **Non-calibratable**

**Model TÖAS 200/2 ZE, electr. pump**

- Electr. pump type OP 145 E/1, incl. 1" suction hose
- Dispensing hose type ÖVS 05.16, 5 m, NPS 16
- Digital flow meter type LCD 19
- **Non-calibratable**

**Model TÖAS 200/2 SZE, electr. pump**

- Electr. pump type OP 145 E/1, incl. 1" suction hose
- Automatic hose reel type 9.10.16/1, 10 m NPS 16
- Digital flow meter type LCD 19
- **Non-calibratable**

**Extra charge for assembling ready to use**

**Accessories**

**Add. charge for press. switch for electr. pump type MD**

- Assembly including pressure switch for ÖAM and ÖAS

part no. price EUR

22 167 1.165,13

22 168 1.762,63

22 169 1.404,13

22 170 2.001,63

Request

20 199 316,68



Mod. TÖAS 200 ZP/E



Mod. TÖAS 200 ZE/E

## Stationary version

For mounting on 200 ltr. barrel. For an operation area up to 10 m in comfortable and practical design. Calibratable RAPID measuring devices for lubricants and anti-freeze are approved for calibration according the certificate of EC type examination DE-16-MI005-PTB026.

Basic type:

- Electric or pneumatic oil pump
- 5 m oil dispensing hose DN 16
- Digital flow meter (6-60 ltr./min.) incl. outlet pipe and holder

Performance: (depending on degree of viscosity - see p. 240)

- Pneumatic pump max. 10 ltr./Min
- Air inlet pressure max. 8 bar (150 PSI)
- Type OP 110 D 30/1 E (1:3) (calibratable) incl. pressure reducer
- Electrical pump max. 10 Ltr./min
- Connection 230 V~, 50 Hz 1,1 kW
- Type OP 145 E/E/1 (on-off-switch, calibratable)
- Type OP 145 ED/E/1 (calibratable, pressure switch for additional charge)
- With connecting cable and power plug

### Model TÖAS 200/2 ZP/E, pneum. Pump

- Pneum. pump type OP 110 D 30/1 E, incl. suction pipe
- Air separator, certificate of EC type examination
- Oil dispensing hose type ÖVS 05.12, 5 m, NPS 12
- Flow meter type LCD 18/E
- Calibratable / according to MID

### Model TÖAS 200/2 SZP/E, pneum. pump

- Pneum. pump type OP 110 D 30/1 E, incl. suction pipe
- Air separator, certificate of EC type examination
- Automatic hose reel type 9.10.16/1, 10 m DN 16
- Flow meter type LCD 18/E
- Calibratable / according to MID

### Model TÖAS 200/2 ZE/E, electr. pump

- Electr. pump type OP 145 E/1, incl. 1" suction hose
- Air separator, certificate of EC type examination
- Oil dispensing hose type ÖVS 05.16, 5 m, NPS 16
- Flow meter type LCD 18/E
- Calibratable / according to MID

### Model TÖAM 200/2 SZE/E, electr. pump

- Electr. pump type OP 145 E/1, incl. 1" suction hose
- Air separator, certificate of EC type examination
- Automatic hose reel type 9.10.16/1, 10 m DN 16
- Flow meter type LCD 18/E
- Calibratable / according to MID

**Extra charge for assembling ready to use**

## Accessories

### Add.charge for press. switch for electr. pump type MD

- Assembly including pressure switch for TÖAM and TÖAS

part no.

price EUR

22 171

1.523,63

22 172

2.121,13

22 173

1.762,63

22 174

2.360,13

Request

20 199

316,68

**Please note:**

Model regulated drain pans for storage of 200 ltr. barrels are shown on page 58



Mod. TÖAS P

Mod. TÖAS 1000 E

## Stationary Version

A ready to oil dispensing set enables an optimized oil supply and meets all requirements of German rule WHG (water protection).

### Basic version for T/S tank or T/R tank

- Solid mounting bracket
- Electric or pneumatic pump
- Flexible oil connection from pump to hose reel
- Oil swivel joint for easy operation
- Flow meter (6-60 ltr/min)
- Engine oil spout with anti-drip nozzle
- Holder for flow meter
- Tank is not included in delivery (see page 80)

**Performance:** (depending on degree of viscosity - see p. 240)

- **Pneumatic pump** max. 15 ltr./Min
- Air inlet pressure max. 8 bar (160 PSI)
- Type OP 110 D 30/1 (1:3) incl. pressure reducer D/M 06
- **Electrical pump** max. 14 Ltr./min
- Connection 230 V~, 50 Hz, 1,1 kW
- Type OP 145 E/1 (on-off-switch)
- Type OP 145 ED/1 (pressure switch for additional charge available)
- With connecting cable and power plug

### Model TÖAS P, pneum. pump

- Pneumatic pump type OP 110 D 30/1 incl. suction hose and pressure reducer
- 5 m dispensing hose NPS 16, oil swivel joint
- Flow meter type LCD 19
- For 700 ltr. or 1000 ltr. tank T/S or T/R
- **Non-calibratable**

### Model TÖAS E electr. pump

- Electr. pump type OP 145 E/1 including suction hose
- On/off switch
- 5 m dispensing hose NPS 16, oil swivel joint
- Flow meter type LCD 19
- For 700 ltr or 1000 ltr tank T/S or T/R
- **Non-calibratable**

### Model TÖAS 1000 P, pneum. pump

- Pneum. pump type OP 110 D 30/1 incl. suction hose and pressure reducer
- Automatic hose reel type 9.10.16/1 10 m NPS 16, oil swivel joint
- Flow meter type LCD 19
- For 700 ltr. or 1000 ltr. tank T/S or T/R
- **Non-calibratable**

### Modell TÖAS 1000 E, elektr. Pumpe

- Electr. pump type OP 145 E/1 including suction hose
- Cabled pressure switch for an add. charge
- Automatic hose reel type 9.10.16/1, 10 m, NPS 16, Öldrehgelenk
- Flow meter type LCD 19
- For 700 ltr. or 1000 ltr. tank T/S or T/R
- **Non-calibratable**

**Extra charge for assembling ready to use**

### Accessories

#### Add.charge for press. switch for electr. pump type MD

- Assembly including pressure switch for TÖAM and TÖAS

part no. price EUR

22 175 1.284,63

22 176 1.583,38

22 177 1.882,13

22 178 2.180,88

Request

20 199 316,68



Mod. TÖAS E/E



Mod. TÖAS 1000 P/E

Inkl. D/M 06

## Stationary Version

A ready to oil dispensing set enables an optimized oil supply. Calibratable RAPID measuring devices for lubricants and anti-freeze are approved for calibration according the certificate of EC type examination DE-16-MI005-PTB026.

### Basic version for T/S tank or T/R tank

- Solid mounting bracket
- Electric or pneumatic pump
- Air separator, certificate of EC type examination
- Flexible oil connection from pump to hose reel
- Autom. hose reel incl. 8 m hose NPS 16
- Oil swivel joint for easy operation
- Flow meter (6-60 ltr/min)
- Engine oil spout with anti-drip nozzle
- Holder for flow meter
- Tank is not included in delivery (see page 80)

**Performance:** (depending on degree of viscosity - see p. 240)

- **Pneumatic pump** max. 10 ltr./Min
- Air inlet pressure max. 8 bar (150 PSI)
- Type OP 110 D 30/1 E (1:3) (air separator, caribratable)
- **Electrical pump** max. 10 Ltr./min
- Connection 230 V~, 50 Hz 1,1 kW
- Type OP 145 E/E/1 (on-off-switch, calibratable)
- Type OP 145 ED/E/1 (calibratable, pressure switch for additional charge)
- With connecting cable and power plug

### Model TÖAS P/E, pneum. pump

- Pneum. pump type OP 110 D 30/1 E
- Incl. suction hose and pressure reducer
- Air separator, certificate of EC type examination
- 5 m dispensing hose NPS 16, oil swivel joint
- Flow meter type LCD 18 E
- For 700 ltr. or 1000 ltr. tank T/S or T/R
- **Calibratable / according to MID**

### Model TÖAS E/E electr. pump

- Electr. pump type OP 145 E/E/1 including suction hose
- Air separator, certificate of EC type examination
- 5 m dispensing hose NPS 16, oil swivel joint
- Flow meter type LCD 18 E
- For 700 ltr. or 1000 ltr. tank T/S or T/R
- **Calibratable / according to MID**

### Model TÖAS 1000 P/E, pneum. pump

- Pneum. pump type OP 110 D 30/1 E
- Incl. suction hose and pressure reducer
- Air separator, certificate of EC type examination
- Automatic hose reel type 9.10.16/1 10 m NPS 16, oil swivel joint
- Flow meter type LCD 18 E
- For 700 ltr. or 1000 ltr. tank T/S or T/R
- **Calibratable / according to MID**

### Model TÖAS 1000 E/E, electr. pump

- Electr. pump type OP 145 E/E/1 including suction hose
- Air separator, certificate of EC type examination
- Automatic hose reel type 9.10.16/1 10 m NPS 16, oil swivel joint
- Flow meter type LCD 18 E
- For 700 ltr. or 1000 ltr. tank T/S or T/R
- **Calibratable / according to MID**

**Extra charge for assembling ready to use**

### Accessories

#### Add.charge for press. switch for electr. pump type MD

- Assembly including pressure switch for TÖAM and TÖAS

part no. price EUR

22 179 1.762,63

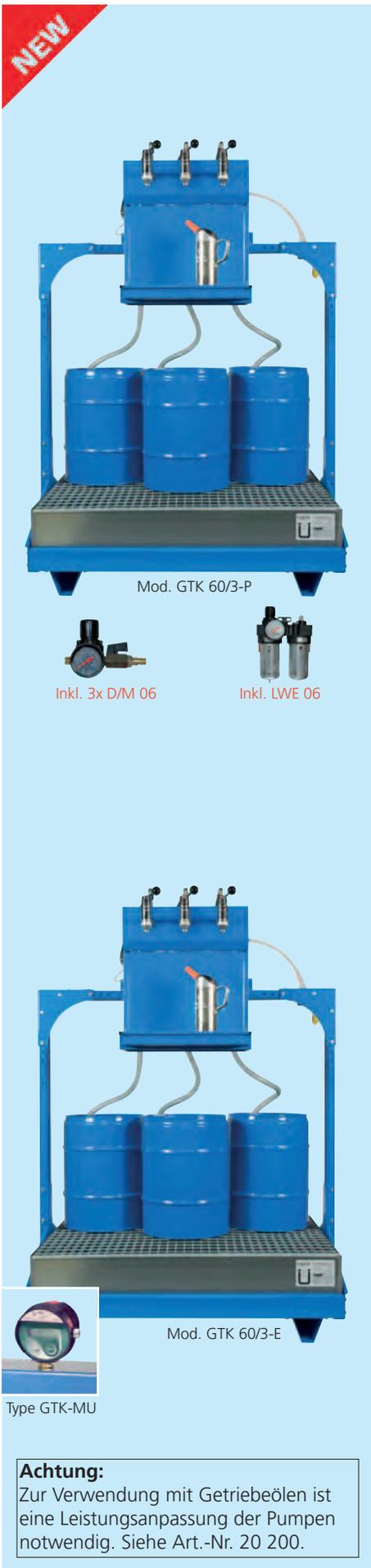
22 180 1.941,88

22 181 2.360,13

22 182 2.539,38

Request

20 199 316,68



### Stationary version with carrying unit

This special dispenser set is designed to optimise your oil supply. It is ready to use and can be employed nearly everywhere. The carrying unit can be fitted with electrical or pneumatic pumps. 1 - 3 different kind of oils can be dispensed via oil bar.

#### Basic version:

- Varnished self-supporting carrier unit
- 2 or 3 x electrical or pneumatic pumps
- Oil connection and suction hoses
- 1 x oil bar, with 2 or 3 nozzles
- 1 x drain pan zinc coated, PTB licensed

**Performance:** (depending on degree of viscosity - see p. 240)

- **Pneumatic pump** max. 10 ltr./Min
- Air inlet pressure max. 8 bar (160 PSI)
- Type OP 110 D 30/1 (1:3) incl. pressure reducer D/M 06

- **Electrical pump** max. 10 Ltr./min
- Connection 230 V~, 50 Hz, 1,1 kW
- Type OP 145 ED/1 (incl. pressure switch)
- With connecting cable and power plug

### Model GTK 60/2-P, pneum. pumps

**part no.** 22 304 **price EUR** 2.204,78

- 1 x carrier unit type W 10 T, for 2 x 60 ltr.-barrels
- 2 x pneum. pump type OP 90 D 30/1, incl. suction hose
- 1 x oil bar with 2 nozzles
- 1 x drain pan type W 10
- Dim. approx. 1360 x 800 x 1755 mm (L x W x H)

### Model GTK 60/3-P, pneum. pumps

**part no.** 22 305 **price EUR** 2.623,03

- Identical with model GTK 60/2-P, but with
- 1 x carrier unit type W 10 T, for 3 x 60 ltr.-barrels
- 3 x pneum. pump type OP 90 D 30/1, incl. suction hose
- 1 x oil bar with 3 nozzles
- Dim. approx. 1360 x 800 x 1755 mm (L x W x H)

### Model GTK 200/2-P, pneum. pumps

**part no.** 22 308 **price EUR** 2.204,78

- 1 x carrier unit type W 10 T, for 2 x 200 ltr.-barrels
- 2 x pneum. pump type OP 90 D 30/1, incl. suction hose
- 1 x oil bar with 2 nozzles
- 1 x Drain pan type W 10
- Dim. approx. 1360 x 800 x 1755 mm (L x W x H)

### Model GTK 60/2-E, electr. pumps

**part no.** 22 306 **price EUR** 3.160,78

- Identical with model GTK 60/2-P, but with
- 2 x electr. pump type OP 140 ED/1, incl. suction hose
- 2 x pressure switch, cabled
- Dim. approx. 1360 x 800 x 1755 mm (L x W x H)

### Model GTK 60/3-E, electr. pumps

**part no.** 22 307 **price EUR** 3.818,03

- Identical with model GTK 60/3-P, but with
- 1 x carrier unit type W 10 T, for 3 x 60 ltr.-barrels
- 3 x electr. pump type OP 140 ED/1, incl. suction hose
- 3 x pressure switch, cabled
- Dim. approx. 1360 x 800 x 1755 mm (L x W x H)

### Model GTK 200/2-E, electr. pumps

**part no.** 22 309 **price EUR** 3.160,78

- Identical with model GTK 200/2-P, but with
- 2 x electr. pump type OP 140 ED, incl. suction hose
- 2 x pressure switch, cabled
- Dim. approx. 800 x 1900 x 1900 mm (L x W x H)

### Add. charge for meter for mod. GTK type GTK-MU

**part no.** 22 316 **price EUR** 381,21

- Per nozzle

**Assembly ready to connect for GTK**  
**Additional freight charges for GTK**

199,-  
Request

**Achtung:**  
Zur Verwendung mit Getriebeölen ist eine Leistungsanpassung der Pumpen notwendig. Siehe Art.-Nr. 20 200.

Type GTK-MU

Mod. GTK 60/3-E

Mod. GTK 60/3-P

Inkl. 3x D/M 06

Inkl. LWE 06



## Stationary version with carrying unit

This special dispenser set is designed to optimise your oil supply. It is ready to use and can be employed nearly everywhere. The carrying unit can be fitted with electrical or pneumatic pumps. 1 - 6 different kind of oils can be dispensed via oil bar. Drain pan confirming VAWS is included.

### Basic version:

- Varnished self-support carrier unit
- 3 or 6 x electric or pneumatic pump
- Oil connection and suction hoses
- Oil bar (s) with 3 x spigot
- 1 x drain pan zinc coated, PTB licensed

**Performance:** (depending on degree of viscosity - see p. 240)

- **Pneumatic pump** max. 10 ltr./min
- Air inlet pressure max. 8 bar (150 PSI)
- Type OP 90 D 30/1

- **Electrical pump** max. 10 ltr./min
- Connection 230 V~, 50 Hz, 0,55 kW
- Type OP 140 ED (incl. pressure switch)

### Model GTK 60/6-P, pneum. pumps

- 1 x carrier unit type W 11 T for 6 x 60 ltr. barrels
- 6 x pneum. pumps type OP 90D30/1, incl. suction hose
- 2 x oil bar with 6 spigots totally
- 1 x drain pan type W 11
- Dim. 1800 x 800 x 1755 mm (L x W x H)

### Model GTK 60/200/6-P, pneum. pumps

- 1 x carrier unit type W 11 T for 6 x 60 ltr. barrels and 2 x 200 ltr. barrels
- 6 x pneum. pumps type OP 90D30/1, incl. suction hose
- 2 x oil bar with 6 spigots totally
- 1 x drain pan type W 11
- Dim. 1800 x 800 x 1755 mm (L x W x H)

### Model GTK 200/3-P, pneum. pumps

- 1 x carrier unit type W 11 T for 3 x 200 ltr. barrels
- 3 x pneum. pumps type OP 90D30/1, incl. suction hose
- 1 x oil bar with 36 spigots totally
- 1 x drain pan type W 11
- Dim. 1800 x 800 x 1755 mm (L x W x H)

### Model GTK 60/6-E, electr. pumps

- Identical with GTK 60/6-P but
- 6 x electr. pumps OP 140 ED/1, incl. suction hose
- 6 x Pressure switch, cabled
- Dim. 1800 x 800 x 1755 mm (L x W x H)

### Model GTK 60/200/6-E, electr. pumps

- Identical with 60//200/6-P but
- 6 x electr. pumps OP 140 ED/1, incl. suction hose
- 6 x Pressure switch, cabled
- Dim. 1800 x 800 x 1755 mm (L x W x H)

### Model GTK 200/3-E, electr. pumps

- Identical with GTK 200/3-P but
- 3 x electr. pumps OP 140 ED/1, incl. suction hose
- 3 x pressure switch, cabled
- Dim. 1800 x 800 x 1755 mm (L x W x H)

### Add. charge for meter for mod. GTK type GTK-MU

- Per nozzle

**Assembly ready to connect up to models GTK 60/6**  
**Additional freight charges up to models GTK 60/6**

part no.	price EUR
22 310	3.937,53
22 311	3.937,53
22 312	2.802,28
22 313	6.387,28
22 314	6.387,28
22 315	3.758,28
22 316	381,21
	299,- Request



**Calibratable Rapid Measurement plants for lubricants and anti-freeze are licensed for approval according to Certificate of EC-type examination, DE-16-MI005-PTB026.**



Mod. GT-P



Mod. GT-E

**Attention:**  
If used with gear oil the performance of pumps must be adjusted. Refer to article no. 20 200

**Stationary version with carrying unit**

This special dispenser set is designed to optimise your oil supply and is ready for use. It can be employed nearly everywhere. The carrying unit can be fitted with an electrical or a pneumatic pump, automatic hose reel and hose end meters.

**Basic version:**

- Varnished self supporting carrier unit
- 2 x electrical or pneumatic pumps
- Oil connection and suction hoses
- 2 x automatic hose reels
- 2 x flow meter incl. swivel joint
- 2 x engine oil outlets with anti-drip nozzle
- 2 x holder for flow meter
- 1 x drain pan zinc coated, PTB licensed

**Performance:** (depending on degree of viscosity - see p. 240)

- **Pneumatic pump** max. 10 ltr./Min
- Air inlet pressure max. 8 bar (160 PSI)
- Type OP 90 D 30/1 (1:3) incl. pressure reducer
- **Electrical pump** max. 10 Ltr./min
- Connection 230 V~, 50 Hz, 0,55 kW
- Type OP 140 E/1 (on-off-switch)
- Type OP 140 E/E/1 (calibratable, on-off-switch)
- Type OP 145 ED/1 (incl. pressure switch)
- Type OP 145 ED/E/1 (calibratable, incl. pressure switch)
- With connecting cable and power plug

**Model GT-P, pneum. pump**

**22 300 4.057,03**

- 1 x carrier unit type W 10 T
- 2 x pneum. pump type OP 90 D 30/1, incl. suction hose
- 2 x autom. hose reels type 9.10.12, 10 m, DN 12, 2 x type ODG 12, 2 x type WH 12
- 2 x hose end meter, digital, type LCD 18/1
- 1 x drain pan type W 10
- **Not calibratable**

**Model GT-PE, pneum. pump**

**22 301 4.774,03**

- Identical with model GT-P, but with
- 2 x pneum. pump type OP 90 D 30/1 E
- 2 x air separator, certificate of EC type examination
- 2 x hose end meter, digital, type LCD 18 E
- **Calibratable / according to MID**

**Model GT-E, electr. pump**

**22 302 5.132,53**

- Identical with model GT-P, but with
- 2 x electr. pump type OP 140 ED/1, incl. suction hose
- 2 x pressure switch, cabled
- **Not calibratable**

**Model GT-EE, electr. pump**

**22 303 5.849,53**

- Identical with model GT-E, but with
- 2 x electr. pump type OP 140 ED/E/1, incl. suction hose
- 2 x air separator, certificate of EC type examination
- 2 x hose end meter, digital, type LCD 18 E
- **Calibratable / according to MID**

**Assembly ready to connect for GT**  
**Additional freight charges for GT**

199,-  
Request

**Accessories**

**Carrier unit type W 10 T (without illustr.)**

**25 002 679,-**

- Varnished, self-supporting, without components
- Incl. 1 drain pan 2 x 200 ltr., type W 10
- Dim. approx. 1400 x 800 x 1300 mm

NEW



Mod. ÖAM 200 DSM



Delivery hose with robust kink protection



Quick connection for drum change



Mod. ABM 200 DSM



Digital Dispensing Sets

The new mobile and battery-operated RAPID dispensing sets with 7" touch display are designed to hold 60 - 200 litre drums and are available for the digital recording of oil, coolant or AdBlue® dispensing. Dispensing quantities and order data are documented with date and time. The data can be transferred via USB stick or WiFi. Thanks to battery technology, the devices can be operated independently of the mains or using a 230 V mains plug. The very low loading surface of the trolley makes it quick and easy to change drums. **12 V, 45 Ah rechargeable battery not included.** A gel car battery is recommended.

Model ÖAM 200 DSM

For machine and engine oils

- Digital service management with data storage for users, orders and quantities
- Control via 7" touch display
- Quantity preselection or manual dispensing
- 230 V mains plug for operation and battery charging
- 12 V battery, 45 Ah (not included in scope of delivery)
- Battery operation max. 8 hours / charging time approx. 10 hours
- Electric pump, max. 2-4 ltr./min. (depending on visc.)
- Quick connection for drum change incl. drum strap
- 2 m oil delivery hose with engine oil nozzle, DN 12
- Sturdy chassis with 2 castors Ø 150 mm and 2 swivel castors, for holding a 60-200 litre drum
- Dimensions approx. 921 x 722 x 1133 mm (L x W x H), approx. 56 kg

Model KAM 200 DSM

(without Illustr.)

For coolant and water

- Digital service management with data storage for users, orders and quantities
- Control via 7" touch display
- Quantity preselection or manual dispensing
- 230 V mains plug for operation and battery charging
- 12 V battery, 45 Ah (not included in scope of delivery)
- Battery operation max. 8 hours / charging time approx. 10 hours
- Electric pump, max. 8 ltr./min.
- Quick connection for drum change incl. drum strap
- 2 m oil delivery hose with dispensing nozzle, DN 12
- Sturdy chassis with 2 castors Ø 150 mm and 2 swivel castors, for holding a 60-200 litre drum
- Dimensions approx. 921 x 722 x 1133 mm (L x W x H), approx. 56 kg

Model ABM 200 DSM

For AdBlue®

- Digital service management with data storage for users, orders and quantities
- Control via 7" touch display
- Quantity preselection or manual dispensing
- 230 V mains plug for operation and battery charging
- 12 V battery, 45 Ah (not included in scope of delivery)
- Battery operation max. 8 hours / charging time approx. 10 hours
- Electric pump, max. 8 ltr./min.
- Quick connection for drum change incl. drum strap
- 2 m oil delivery hose with automatic-nozzle, DN 20
- Sturdy chassis with 2 castors Ø 150 mm and 2 swivel castors, for holding a 60-200 litre drum
- Dimensions approx. 921 x 722 x 1133 mm (L x W x H), approx. 56 kg

Assembly ready to connect for DSM models  
Additional freight charges for DSM models

part no.

price EUR

22 120

1.990,00

25 239

1.990,00

28 237

2.190,00

149,-  
Request



Mod. ZO 12



Mod. KAS 3



Type GTK-MU



Mod. KAS 1/Z



Mod. WSR 4

**Oil bar**

For connection to oil pump or oil pipe for filling of oil cans.  
For unmeasured, measured and gauged dispensing.

**Model ZO 12**

- Valve with anti-drip snout
- Space for oil can including drain
- For direct installment at pneumatic oil pumps
- Scope of delivery without pump and can

**Model KAS 1**

- Dispenser tap with anti-dripping nozzle
- Solid steel sheet carrier
- Galvanized grid, dripping pan
- Dim. approx. 340 x 520 x 700 mm (L x W x H)

**Model KAS 2**

- Identical with model KAS 1, but with
- 2 dispenser taps with anti-dripping nozzles
- Dim. approx. 340 x 520 x 700 mm (L x W x H)

**Model KAS 3**

- Identical with model KAS 1, but with
- 3 dispenser taps with anti-dripping nozzles
- Dim. approx. 340 x 520 x 700 mm (L x W x H)

**Add. charge for meter for mod. GTK type GTK-MU**

- per nozzle

**Model KAS 1/Z**

- Identical with modell KAS 1, but with
- In-line meter for pre-selection
- **Not-calibratable**

**Model KAS 2/Z**

- Identical with model KAS 2, but with
- 2x in-line metesr for pre-selection
- **Not-calibratable**

**Accessories**

**Additional charge for nozzle type ZP 12/K**

- Screen clear and cooling liquid
- Only available for KAS and KAS/S, not available for KAS/Z and /ZE

**Cabinet for hose reels**

Housing steel sheet, to be opened with plastic shutter.  
For mounting at wall, including drip tray and drain screw.

**Model WSR 4**

- Could take up to 4 hose reels series 9
- Dim. approx. 1050 x 600 x 630 mm (L x W x H)

**Model WSR 2**

- Could take up to 2 hose reels series 5
- Dim. approx. 1050 x 600 x 630 mm (L x B x H)

**part no. price EUR**

**21 306 154,16**

**22 401 627,38**

**22 402 711,03**

**22 403 794,68**

**22 316 381,21**

**22 407 1.541,55**

**22 408 2.378,05**

**21 506 77,68**

**09 600 1.069,53**

**09 601 1.069,53**

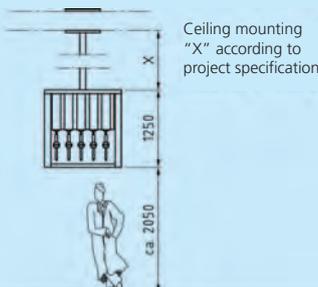


Mod. ES 4 + ES-SV

For assembling and mounting of models ES and DA statically requirements are needed on site.



Mod. DA 5



Ceiling mounting "X" according to project specification

### Dispensing pillars

Energy pole for the supply of vehicles with all kinds of media and for modern usage of liquids during maintenance. The grand entity offers a supply up to 4 media. The extension unit expands the supply at 4 media each.

#### Model ES 4

Dispensing pillar, varnished, self-carrying  
 ■ Incl. drain pan with grid, pre-assembled  
 ■ For 4 autom. reels BR9, open  
 ■ Covering with roller shutter, on both sides  
 ■ Dim. approx. 1050 x 600 x 2600 mm (L x B x H)

#### Model AS 4

Energy extension pole for 4 additional automatic reels BR9, open  
 ■ Incl. drain pan with grid, pre-assembled  
 ■ For more 4 autom. reels BR9, open  
 ■ Covering with roller shutter, on both sides  
 ■ Dim. approx. 1000 x 600 x 2600 mm (L x B x H)

### Additional freight charges for ES/AS

#### Accessories

#### Sheet steel cover type ES-SV

■ Cover for lower half of the dispensing pillar, below the drain pan, varnished, detachable

#### Flexible conn. hose set for energy rack type ES-ÖVS

■ Consisting of 4 x oil connection hoses, NPS 12, armoured on both sides 1/2" female/female, length: 1,8/2,0/2,3 and 2,4 mm

### Hanging devices

Ceiling suspension for the supply of vehicles with all kinds of media and for modern usage of liquids during maintenance. An examination of the statics is indispensable.

#### Model DA 2

Hanging device 1-2 m, varnished, incl. drain pan  
 ■ For 2 autom. reels Series 9, open  
 ■ Covering with roller shutter, on both sides  
 ■ Dim. approx. 650 x 600 x o.r mm (L x W x H)

#### Model DA 3

Hanging device 1-2 m, varnished, incl. drain pan  
 ■ For 3 autom. reels Series 9, open  
 ■ Covering with roller shutter, on both sides  
 ■ Dim. approx. 850 x 600 x o.r mm (L x W x H)

#### Model DA 4

Hanging device 1-2 m, varnished, incl. drain pan  
 ■ For 4 autom. reels Series 9, open  
 ■ Covering with roller shutter, on both sides  
 ■ Dim. approx. 1050 x 600 x o.r mm (L x W x H)

#### Model DA 5

Hanging device 1-2 m, varnished, incl. drain pan  
 ■ For 5 autom. reels Series 9, open  
 ■ Covering with roller shutter, on both sides  
 ■ Dim. approx. 1250 x 600 x o.r mm (L x W x H)

#### Model DA 6

Hanging device 1-2 m, varnished, incl. drain pan  
 ■ For 6 autom. reels Series 9, open  
 ■ Covering with roller shutter, on both sides  
 ■ Dim approx. 1459 x 600 x o.r mm (L x W x H)

### Additional freight charges for DA

#### Accessories

#### Cord with ball type KOR

part no.	price EUR
25 202	1.786,53
25 206	1.607,28
	Request
25 500	472,03
25 502	221,08
25 210	Request
25 211	Request
25 212	Request
25 213	Request
25 214	Request
	Request
25 501	34,66

**NEW** note:  
Model regulated drain pans for storage of 200 ltr. barrels are shown on page 58.



Mod. KAM 200/2 ZP



Mod. KAM 200/2 SZE



Type KAV



Mod. LCD 18 S

## Mobile Version

This mobile version set is designed for 200 ltr. barrels. Barrels can be changed fast and easy due to a low load floor.

### Basic version:

- Rugged base frame type ÖAM 200-2/1 with 2 rollers and 2 steering rollers
- Pneumatic or electric pump
- 2 m dispensing hose, NPS 12
- Flow meter incl. nozzle and holder

**Performance:** (depending on viscosity – refer to page 240)

- **Pneumatic pump**, max 16 lt/min.
- Air inlet pressure max. 8 bar (150 PSI)
- Type OP 90 D 35/1 (1:5), incl. pressure reducer D/M 06

- **Electric pump**, max. 10 ltr/min
- Connection 230 v – 50Hz, 0,55 kW
- Type KP 140 E/1 (on/off button)
- Type KP 140 ED/1 (pressure button – extra charge)
- With cable and plug

## Model KAM 200/2 ZP, pneumatic pump

- Pneum. pump type OP 90 D 35/1, incl. suction pipe
- Flow meter, digital, type LCD 18 K
- **Not-calibratable**

## Model KAM 200/2 SZP, pneumatic pump (w. III.)

- Identical with Model KAM 200/2 ZP, but
- Autom. Hose reel type 9.10.12/1, 10 m, DN 12
- **Not-calibratable**

## Model KAM 200/2 ZE, electric pump (w. III.)

- Elektr. pump type KP 140 E/1, incl. suction hose
- Handdurchlaufzähler, digital, Typ LCD 18 K
- **Not-calibratable**

## Model KAM 200/2 SZE, electric pump

- Identical with Model KAM 200/2 ZE, but
- Autom. hose reel type 9.10.12/1, 10 m, DN 12
- **Not-calibratable**

## Extra charge pressure switch for electric pumps type MD

- Assembling incl. pressure switch for models KAM

## Assembling ready to use for models KAS

### Additional freight charges for models KAM

- Only with pre-assembly

## Accessories

### Coolant system kit type KAV

- For easy and bubble-free filling and ventilation of coolant systems
- With simultaneous testing of tightness by negative pressure (vacuum)
- Multi-purpose version with quick coupling
- Manometer with rubber protection (tolerance +/- 2%)
- Universal connection suitable for nearly all common vehicles

### Flow meter Model LCD 18 S

- Resettable LCD display 5-digit / mm
- Not resettable totalizer thread 1/2 female
- For windscreen cleaner

part no.	price EUR
25 230	1.392,18
25 231	1.750,68
25 232	1.631,18
25 233	2.109,18
20 199	316,68
	199,- Request
25 242	178,06
21 022	656,06

**NEW**

**Note:**

Model regulated drain pans for storage of 200 ltr. barrels are shown on page 58.



Mod. KAS 200 ZP



Mod. KAS 200 ZE



Mod. KAS 200 SZP



Mod. KP 140 E/1

## Stationary Version

These coolant dispenser sets are designed for mounting on top of 200 ltr.-barrels. Enables the easy supply within a radius up to 10 m.

### Basic version:

- Mounting plate for fixation on top of 200 ltr. barrel
- Pneumatic or electric pump
- Flow meter incl. nozzle and holder

**Performance:** (depending on viscosity – refer to page 240)

- **Pneumatic pump**, max 16 lt/min.
- Air inlet pressure max. 8 bar (150 PSI)
- Type OP 90 D 35/1 (1:5), incl. pressure reducer D/M 06
- Only for antifreeze concentrate

- **Electric pump**, max. 10 ltr/min
- Connection 230 v – 50Hz, 0,55 kW
- Type KP 140 E/1 (on/off button)
- Type KP 140 ED/1 (pressure button – extra charge)
- With cable and plug
- For antifreeze concentrate and water

### Model KAS 200 ZP, pneumatic pump

**25 235 950,03**

- Pneumatic pump type OP 90 D 35/1, plus suction pipe
- Dispensing hose type ÖVS 05.12, 5 m DN 12
- Flow meter, digital, type LCD 18 K
- **Not calibratable**

### Model KAS 200 SZP, pneumatic pump

**25 236 1.428,03**

- Identical to model KAS 200 ZP but with
- Automatic hose reel type 9.10.12/1, 10 m DN 12
- Flow meter, digital, type LCD 18 K
- **Not calibratable**

### Model KAS 200 ZE, electric pump

**25 237 1.189,03**

- Electric pump type KP 140 E/1 plus suction hose
- Dispensing hose type ÖVS 05.12, 5 m DN 12
- Flow meter, digital, type LCD 18 K
- **Not calibratable**

### Model KAS 200 SZE, electric pump

**25 238 1.786,53**

- Identical to model KAS 200 ZE but with
- Automatic hose reel type 9.10.12/1, 10 m DN 12
- Flow meter, digital, type LCD 18 K
- **Not calibratable**

### Extra charge pressure switch for electric pumps type MD

**20 199 316,68**

- Assembling incl. pressure switch for models KAM

### Assembling ready to use for models KAS

**99,-**

More powerful versions on request

### Antifreeze liquid pumps, electric

For antifreeze, for connection with pressure lines-

**Performance:** (depending on viscosity – refer to page 240 )

- For connection to AC/DC
- Pressure max 15 bar

### Connection

- Connection (pressure side) 3/4" male
- Connection (suction side) 3/4" male

### Model KP 140 E/1

**20 123 830,53**

- Bypass hose, wall bracket
- On/off switch
- Cabled ready for connection
- **Performance 0,55 kW/230 V**
- Capacity up to 10 ltar/min. depending on Viscosity



## Mixing device blueMix

The mixing device is suitable for the production of liquids in a wide range of concentrates. All water-soluble antifreeze and windshield washer concentrate can be mixed. The mixer is excellently suitable for filling in single machines or containers

## Model blueMix

- Solid polyamide housing with fiberglass for direct screw on the concentrate barrel, jet device with propulsion nozzle
- Regulating valve with zero shutoff for stepless adjustment of mixture from 0-10%
- Generously dimensioned suction fittings.
- Dispensing hose with ball cock
- Capacity range: 1.500 ltr./hour at a flow pressure of 1,5 – 10,0 bar and water pipe of min. 1/2"
- **Separately available system separator required**

## Mixing devices

The mixing devices for wall or barrel mounting are operating by jet pump principle. All kinds of water-soluble antifreeze or windscreen washer concentrates can be mixed. The mixer is excellently suitable for filling in single machines or containers

### Basic version:

- Solid tin housing for barrel or wall mounting
- Adjustable for mixtures from 0-10%
- Generously dimensioned suction fittings

## Model FAG 800

- Mixing device for direct mounting on 200 ltr-barrel
- Capacity range: 1.500 ltr./hour at a flow pressure of 1,5 – 10,0 bar and water pipe of min. R 1/2"
- Incl. dispensing hose and ball cock
- **Separately available system separator required**

## Model VM Mini 1500

- Mixing device for wall mounting
- Capacity range: 1.500 ltr./hour at a flow pressure of 2,5 and water pipe of min. R 1/2"
- **Incl. required system separator**

## Model VM Mini 1500-A

- Identical to model VM Mini 1500, but
- Lockable to prevent unauthorized use

## Model VM Mini 3000

- Identical to model VM Mini 1500 but
- Capacity range: 3.000 ltr./hour at a flow pressure of 2,5 and water pipe of min. R 1/2"

## Model VM Mini 3000-A

- Identical to model VM Mini 3000, but
- Lockable to prevent unauthorized use

## Accessories

### System separator type BA

- For connection of mixing devices to the fresh water pipe line, suitable for liquid categories 1,2,3 and 4 – according to DIN EN 1717

part no.	price EUR
25 224	328,63
25 225	806,63
25 226	1.643,13
25 227	1.762,63
25 228	2.145,03
25 229	2.384,03
25 240	567,63



Mod. SMS-S



Mod. FMA-S

## For windscreen cleaning lotions (ATEX)

The mixing device serves for making mixture of water and appropriate wind screen concentrate. Infinitely adjustable mixtures of different concentrate settings between 0% up to 100 % are possible. Discharge of mixture either by hose reel or tin bar with meter a nozzle. The mixing devices match the regulations for explosion protection 949/9EG and are suitable for direct connect to water pipe according to DIN 1988.

### Model SMS-S (ATEX)

Is used for the extraction of spirit out of barrels. The delivery includes a drain pan and a pillar.

- Continuous adjustment of heading mixture
- Pneum. membrane pump, max 25 ltr./min
- Water canister incl. float valve
- Dim. approx. 1100 x 850 x 1740 mm (L x W x H)
- Weight approx. 140 kg
- Ready for connection

### Model SMS-W (ATEX) (without illustr.)

Is used for the extraction of spirit out of tanks. The delivery includes a console to assamlbe the device above the tank.

- Continuous adjustment of heading mixture
- Pneum. membrane pump, max 25 ltr./min
- Water canister incl. float valve
- Dim. approx. 950 x 420 x 850 mm (L x W x H)
- Weight approx. 115 kg
- Ready for connection, tank is not included in delivery

## Coolant mixing device

The coolant mixing devices serve the making of coolants or other mixtures and emulsions on request. Different mixtures up to 55% concentrate can be blended in the process confirming to the temperature range of -40°C (ASTM D 1177). The mixture is disposed through hose reels or can filling tables with meters or nozzles.

Die mixing batteries are confirming to the regulation DIN 1988 as well as DVGW worksheet W 314 and are suitable for the direct connection to water pipes.

### Model FMA-S

Is used for the extraction of headings out of barrels. The delivery includes a drain pan and a pillar.

- Continuous adjustment of heading mixture
- Electr. pump, 230 V~, as water pump
- Electr. pump, 230 V~, as pressure pump
- Compressed air vesel, 25 ltr.
- Dim. approx. 850 x 850 x 2150 mm (L x W x H)
- Weight approx. 140 kg
- Ready to plug in

### Model FMA-W (without illustr.)

Is used for the extraction of headings out of tanks. The delivery includes a console to assamlbe the device above the tank.

- Continuous adjustment of heading mixture
- Electr. pump, 230 V~, as water pump
- Electr. pump, 230 V~, as pressure pump
- Compressed air vesel, 25 ltr.
- Dim. approx. 850 x 850 x 2150 mm (L x W x H)
- Weight approx. 115 kg
- Ready to plug in, tank is not included in delivery

**Carrying charges for SMS and FMA not included**

part no.	price EUR
25 220	9.135,78
25 221	9.004,33
25 222	8.872,88
25 223	9.135,78
	Request



Mod. DTS 1000 WX



Mod. AOL 1000 S



Type TR/1



Type TK/SSK 20

**Diesel Dispensing Sets incl. tank**

A ready-to-connect diesel dispensing set enables optimum diesel supply in a small space and meets all requirements of German rule WHG (water protection).

**Basic version:**

- Double-walled tank type T/S with transport authorisation
- Electric diesel feed pump Mod. WX 40 A
- 4 m delivery hose with automatic nozzle
- Limit value transmitter type GW
- T-piece type T-50
- Tanker coupling type TWK 90
- Venting cap type EK

**Performance:** (depending on viscosity – refer to page 240)

- **Electric pump**, max. 35 ltr/min
- Connection 230 v – 50Hz, 0,32 kW
- With cable and plug

**Model DTS 700 WX (ohne Abb.)**

- 700 Ltr.-Tank T/S 700
- Electrical Diesel Conveying Pump, mod. WX 40 A
- Automatik-Zapfpistole

**Model DTS 1000 WX**

- Identical with model DTS 700 WX, but with
- 1000 Ltr.-Tank T/S 1000

**Plus freight costs for DTS models**

**Waste oil storage kits incl. tank**

A ready-to-install waste oil storage set enables optimum storage of waste oil in a small space and meets all requirements of German rule WHG (water protection).

**Basic version:**

- Double-walled tank type T/S with transport authorisation
- Leak oil indicator type LWG with acoustic and visual signal
- Filling funnel, type EFT, galvanised with collecting strainer, lockable
- Filling level indicator type F/A
- Suction pipe type ASR
- Tanker coupling type TWK 90
- Venting cap type EK

**Model AOL 700 S (ohne Abb.)**

- 700 Ltr.-Tank T/S 700

**Model AOL 1000 S**

- Identical with model AOL 700 S, but with
- 1000 Ltr.-Tank T/S 1000

**Montage anschlussfertig für Modelle DTS + AOL**  
**Plus freight costs for AOL models**

**Accessories**

**Step type TR/1**

- 2-steps
- Plastic
- Dim. approx. 600 x 360 x 360 mm (L x W x H)
- Weight approx. 3,0 kg

**Tank cover type TK/SSK 20**

- Incl. quick coupling 3/4" "

Art.-Nr.	Preis EUR
27 078	1.612,06
27 079	1.791,31
	Request
27 070	1.766,12
27 072	1.970,56
	99,- Request
27 114	119,38
27 154	142,21

Type T/R-M



Type ST K 18



Type BX ST K 18



Mod. Cube 56



Mod. Cube 70



Mod. Cube 70-MC 50



DDG 20-25

## For Diesel and fuel oil

These filling stations are carefully planned to offer a modern and reasonable concept for professional Diesel refilling. A line meter, a resettable 3-digit partial counter and a 5-digit totalizer give the opportunity of precise measurements. The design approved automatic pump pistol and RAPID siphon protection meet the requirements of the WHG (German Federal LAW).

### Model ST K 18

Diesel dispensing unit to use with a stationary or mobile tank:

- Self priming vane pump, ca. 56 ltr./min with electric drive 230 V / 50 Hz / 0,37 kW
- 2 m suction hose with dirt screen and holding valve
- 4 m hose DN 20 with automatic pump pistol
- Resettable 3-digit counter
- Non-resettable 6-digit totaliser
- Fully assembled on mounting plate
- Dim. approx. 300 x 500 x 550 mm (L x W x H)
- Weight approx. 20 kg

### Mounting plate for Cube type T/R-M

- To be mounted directly on tanks T/S, T/R, M/T

### Lockable metal cover type BX ST K 18

- Dim. approx. 310 x 565 x 585 mm (L x W x H), weight approx. 22 kg

### Model Cube 56

- Self priming electro pump max. 56 ltr./min, 230 V / 50 Hz / 0,36 kW, IP 55
- On-off-switch
- Pump pistol bracket
- Resettable 3-digit counter, mechanical
- Non-resettable totalizer
- 4 m hose, NPS 20
- 2,5 m suction hose, NPS 25, incl. siphon protector
- Automatic pump pistol type DZP 20, design approved
- Varnished steel sheet cover
- Dim. approx. 310 x 285 x 300 mm (L x W x H), weight approx. 20 kg

### Model Cube 70

- Identical with Cube 56, but with max. 70 ltr./min, 230 V / 50 Hz / 0,55 kW, IP 55

### Model Cube 70-MC 50

- Similar to modell Cube 70, but with
- Up to 50 user codes can be programmed
- Protection cover for display
- Programmable user-code-no, 50 x
- Partly delivered quantity is resettable
- Entire totalizer is not resettable
- Display of user total
- Addition of all quantities delivered
- Error detection
- Quantity pre-selection
- Printer connection

Storage tanks (see page 88)  
Accessories (see page 122)

part no.

price EUR

28 025

591,53

28 102

65,73

28 107

352,53

28 001

711,03

28 020

1.009,78

28 003

2.145,03



## Accessories

### Mounting plate for Cube type T/R-M

- To be mounted directly on tanks T/S, T/R, M/T

### Column for Cube Typ SC

- Dim. approx. 340 x 300 x 1020 mm (L x W x H)
- Weight approx. 18 kg

### Delivery hose for Diesel type DS 20

- delivery hose , price per meter

### Automatic-nozzle type DZP 20

- For Diesel, without type approval

### Automatic-nozzle type DZP 20-B

- For Diesel, incl. type approval

### Automatic-nozzle type DZP 20-Z

- For Diesel, without type approval, inkl. meter

### Automatic-nozzle type DZP 25

- For Diesel, without type approval

Storage Tanks (see page 88)

## Control of Tank Data

### Terminal management device for liquid level type TSV

- Measurement of the statistical pressure via hose
- Incl. 10 m hose, up to 50 m possible
- RS-232 interface available
- In connection with type EVG the minimum level is captured and the pump stopped
- 230 V

### Electronic administrative device type EVG

- Administration of the max. 80 user via key
- Power switch of the pump, with emergency-stop
- 230 V

### Magnetic key type Key-Set

- 10 magnetic keys for user identification

### Manager key type Key-M

- 1 manager key

### USB-converter type USBC

- USB converter for pc-connection, with online-software

### Kit key-software type Key-S

- Offline-Software

## Control of Diesel Dispensing Sets Mod. DAS

### Electronic administrative device type EVG

- Administration of the max. 80 user via key
- Power switch of the pump, with emergency-stop
- 230 V

### Magnetic key type Key-Set

- 10 magnetic keys for user identification

### Manager key type Key-M

- 1 manager key

### USB-converter type USBC

- USB converter for pc-connection, with online-software

### Kit key-software type Key-S

- Offline-Software

part no.	price EUR
28 102	65,73
28 103	352,53
10 547	9,07
28 116	190,01
28 100	237,81
28 115	333,41
28 101	237,81
28 114	591,53
28 113	304,73
28 109	221,08
28 110	107,55
28 111	830,53
28 112	770,78
28 113	304,73
28 109	221,08
28 110	107,55
28 111	830,53
28 112	770,78



Mod. WX 40

Mod. WX 40 A

Mod. WX 40 AZ

DDG 20-25

Type SG-X

Type DS 20

## Electronical pump for Diesel and fuel oil

These pumps are suitable for Diesel, Bio-Diesel (RME), fuel oil and coolants. They are not suitable for cold-pressed rapeseed oil - for this purpose see page 108.

### Model WX 40

- Discharge capacity approx. 40 ltr./min
- Suction with barrel thread M 64 x 4 and G2"
- Voltage 230 V, 50 Hz, 320 W
- Incl. suction hose with filter, 1600 mm
- 4 m hose, DN 19
- Non-buckling spring and suction valve
- Incl. siphon protection, weight approx. 4,5 kg

### Model GX 40/12

- Identical with model WX 40, but with
- Voltage 12 V, 180 W

### Model GX 40/24

- Identical with model WX 40, but with
- Voltage 24 V, 240 W

### Model WX 40 A

- Identical with model WX 40, but with
- Discharge capacity approx. 35 ltr./min
- Automatic pump pistol type DZP 20, without type approval

### Model GX 40/12 A

- Identical with model WX 40 A, but with
- Voltage 12 V

### Model GX 40/24 A

- Identical with model WX 40 A, but with
- Voltage 24 V

### Model WX 40 AZ

**NEW**

- Identical with model WX 40, but with
- Discharge capacity approx. 35 ltr./min
- Automatic pump pistol type DZP 20-Z, **with totaliser**, without type approval

### Model GX 40/12 AZ

**NEW**

- Identical with model WX 40 AZ, but with
- Voltage 12 V

### Model GX 40/24 AZ

**NEW**

- Identical with model WX 40 AZ, but with
- Voltage 24 V

## Accessories

### Automatic-nozzle type DZP 20-B

- For Diesel, incl. type approval

### Diesel swivel joint type DDG 25-20

- Swivel joint for manual flow meter, 1" IG / 3/4" AG

### Suction pipe extension type SG-X

- For Mod. WX and GX
- 210 mm long, G 1" AG / 1" IG

### Delivery hose for Diesel type DS 20

- delivery hose , price per meter

part no.	price EUR
28 009	297,56
28 010	297,56
28 011	297,56
28 012	440,96
28 013	440,96
28 014	440,96
28 064	584,36
28 065	584,36
28 066	584,36
28 100	237,81
28 118	24,85
28 507	41,71
10 547	9,07



Mod. KIT 12



Mod. KX 33/1



Mod. KX 24

**Please note:**  
Hand pumps for diesel see page 147.



Mod. D-Box



Mod. D-Box Pro

**Electronical pump for Diesel and fuel oil**

These pumps are suitable for Diesel, Bio-Diesel (RME), fuel oil and coolants. They are not suitable for cold-pressed rapeseed oil - for this purpose see page 108.

**Model KIT 12**

- Pump with on-off-switch, 12 V
- Discharge capacity 40 ltr./min., 120 Watt
- 1,5 m battery cable with clips and handel
- Hose 4 m, NPS 20 and pump pistol
- 2,5 m suction hise with filter
- Hose connection and clips
- Weight approx. 3,1 kg

**Model KIT 12 A**

- Identical with model KIT 12, but with Automatic pump pistol type DZP 20, without type approval

**Model KIT 24**

- Identical with model KIT 12 A, but with Voltage 24 V

**Model KIT 24 A**

- Identical with model KIT 24, but with Automatic pump pistol type DZP 20, design appr.

**Model K 33/1**

- Resetable 3-digit counter
- Non-resetable 6-digit totalizer
- Measuring range 10-100 ltr./min, max 10 bar, 1" int.th.

**Model K 44/1**

- Identical with modell K 33, but with 4 digits

**Model KX 24**

- digital meter with LCD display
- 5-digit sum, 6-digit totalizer
- totalizer can be reset
- measuring range up to 120 ltr./min, max. 20 bar, 1" int. th.

**Dieselbox**

Diesel box for efficient and clean diesel fuel filling of vehicles and work machines on building sites or outdoor. Portable unit in a plastic case with an electronic pump, all essential hoses and cable connections to the 12V- or 24V-power network of the vehicle in the basic version. Professional version with an additional diesel strainer and fuel gloves.

**Model D-Box 12 B**

- 2 m suction hose with dirt deflector and check valve
- 2 m fuel hose with manual pump nozzle
- Flow rate approx. 45 l/min, ED 30 min
- Connected load 12 V, 260 W
- Dim. approx. 400 x 300 x 417 mm (L x W x H), approx. 11 kg

**Model D-Box 12 Pro**

- Similar to D-box 12 B unit, but
- 4 m fuel hose with manual pump nozzle
- Incl. 10 µ diesel strainer and fuel gloves

**Model D-Box 24 B**

- 2 m suction hose with dirt deflector and check valve
- 2 m fuel hose with manual pump nozzle
- Flow rate approx. 45 l/min, ED 30 min
- Connected load 12 V, 310 W
- Dim. approx. 400 x 300 x 417 mm (L x W x H), approx. 11 kg

**Model D-Box 24 Pro**

- Similar to D-box 24 B unit, but
- 4 m fuel hose with manual pump nozzle
- Incl. 10 µ diesel strainer and fuel gloves

**part no. price EUR**

**28 015 268,88**

**28 016 412,28**

**28 017 268,88**

**28 018 412,28**

**28 004 173,28**

**28 005 197,18**

**21 016 237,81**

**28 060 381,21**

**28 061 440,96**

**28 062 381,21**

**28 063 440,96**



Mod. TM 200

The real permitted tank filling is 95% of the nominal value.



Mod. TM 450/230

**Mobile diesel filling**

Mobile diesel filling station with ADR-admission. Tank with lockable cover made of MDPE with integrated fuel-filling facility (electronic pump). Suitable for trucks according to the warrant Nr. D/BAM 13047-ARES/0/286

**Model TM 200**

- Tank capacity 200 l, with accessories, without pump
- Suction line with line filter
- Fuel tank gauge
- Dim. approx. 1000 x 654 x 547 mm (L x W x H)

**Model TM 200/12**

- Similar to model TM 200, but
- Electr. pump, flow rate approx. 35 l/min
- Connected load 12 V, Protection system IP 54
- 4m fuel hose with automatic nozzle, without type appr.

**Model TM 200/24**

- Similar to model TM 200/12, but
- Electr. pump, flow rate approx. 35 l/min
- Connected load 24 V, Protection system IP 54

**Model TM 200/12-Z**

- Similar to model TM 200/12, but
- **Incl. digital flow meter**
- Connected load 12 V, Protection system IP 54

**Model TM 200/24-Z**

- Similar to model TM 200/12-Z, but
- **Incl. digital flow meter**
- Connected load 24 V, Protection system IP 54

**Model TM 450 (D/BAM 12992-ARES/0/601)**

- Tank capacity 450 l, with accessories, without pump
- Suction line with line filter
- Fuel tank gauge
- Dim. approx. 1200 x 800 x 912 mm (L x W x H)

**Model TM 450/12**

- Similar to model TM 450, but
- Electr. pump, flow rate approx. 35 l/min
- Connected load 12 V, Protection system IP 54
- 4m fuel hose with automatic nozzle, without type appr.

**Model TM 450/24**

- Similar to model TM 450/12, but
- Electr. pump, flow rate approx. 35 l/min
- Connected load 24 V, Protection system IP 54

**Model TM 450/230**

- Similar to model TM 450/12, but
- Electr. pump, flow rate approx. 35 l/min
- Connected load 230 V, Protection system IP 54

**Model TM 450/12-Z**

- Similar to model TM 450/12, but
- **Incl. digital flow meter**
- Connected load 12 V, Protection system IP 54

**Model TM 450/24-Z**

- Similar to model TM 450/12-Z, but
- **Incl. digital flow meter**
- Connected load 24 V, Protection system IP 54

**Model TM 450/230-Z**

- Similar to model TM 450/12-Z, but
- **Incl. digital flow meter**
- Connected load 230 V, Protection system IP 54

Carrying charges for TM units not included

part no.	price EUR
28 044	896,25
28 045	1.374,25
28 046	1.374,25
28 047	1.493,75
28 048	1.613,25
28 049	2.019,55
28 050	2.258,55
28 051	2.258,55
28 052	2.258,55
28 056	2.378,05
28 057	2.378,05
28 058	2.378,05
	Request

# RAPID GROUP

## Anlagenbau & Ölmanagement



WHG-konform



Zukunft



### Projektierung



Funktechnologie

MID-konform

### Design

### Anlagenbau



### Effizienz

### Innovation



### Individualität



### Ölmanagement





Mod. ABP 5 B

**Canister pump, battery operated**

To reach the Emission Standard Euro 5/6 for truck as well as the American Emission Standard for car the SCR technique (Selective Catalytic Reaction) is applied. For this an aqueous UREA solution, AdBlue or AUS 32 in a separate tank of the car is used. The extraordinary requirements for quality of this product (drawn under in the Quality Regulations AUS 32) will be met by the devices and parts described hereunder.

**Canister pump model ABP 5 B**

- Pump to decant AdBlue or other aqueous fluids
- Battery operated (incl. 6xAA-Batteries)
- Capacity approx. 5 ltr/min
- Suction pipe 340 mm
- Dispensing hose 1600mm

part no.	price EUR
28 238	47,68

**Barrel and container pump rechargeable**

**Barrel Pump Model ABP 15**

- Pump to decant AdBlue or other aqueous fluids
- Suction side 2" barrel screwing
- Strong 12/2130 V, 30 W motor
- For up to 15 min. permanent operation
- State-of-the-art battery technology **12 V Li-Io**,
- Quick recharge, no memory effect, up to 800 ltr. charging capacity with one charge
- Incl. 230 V battery charger / power supply with 4 m cable
- Capacity approx. 15 ltr. /min
- Telescopic suction pipe: 850 – 1.245 mm
- Dispensing hose, 2 m DN 10
- Manual nozzle (PP)
- 2 x Adaptor 2" BSP female to 2" Mauser or 2" Tri-Sure
- Optional: Adaptor for IBC container
- Optional : 12 V charging cable with clamps.

28 239	273,66
--------	--------

**Accessories**

**12 V Charging Cable Type LK 12**

- 12 V charging cable incl. clamps
- Suitable for barrel pump model ABP 15

28 502	23,78
--------	-------

**Barrel Adaptor Type GAO**

- Tri-Sure course thread Male ( S56x4) / 2" BSP female

25 114	35,73
--------	-------

**Barrel Adaptor Type GAB**

- 2" male Mauser course thread (S70x6) / 2" BSP female

25 115	35,73
--------	-------

**IBC-Adaptor Type GIBC-150**

- Screw Cap for IBC container, 2" BSP female
- Thread 155\*4 female, Ø 185 mm, DN 150

25 179	29,76
--------	-------

**IBC-Adaptor Type GIBC-225**

- Screw Cap for IBC container, 2" BSP female
- Thread 155\*4 female, Ø 185 mm, DN 225

25 180	41,71
--------	-------

**Dispensing hose Type ABS 20 (without ill.)**

- Dispensing hose for AdBlue DN 20 (price per meter)

10 549	13,01
--------	-------



Mod. ABP 15



Type LK12



Type GAO

Type GAB



Type GIBC



	part no.	price EUR
<b>For AdBlue®</b>		
<b>Hand lever piston pump model HPA</b>	<b>24 032</b>	<b>119,38</b>
<ul style="list-style-type: none"> <li>■ For AdBlue</li> <li>■ Polypropylene, EPDM-sealing</li> <li>■ Angled spout</li> <li>■ Plastic suction pipe for 50 - 200 ltr.-barrels, AG 2"</li> <li>■ Approx. 0,3 ltr. / pass</li> <li>■ Adapter for barrel G 2" / ext. th. Mauser</li> </ul>		
<b>Hand lever piston pump model HPA-S</b>	<b>24 033</b>	<b>143,28</b>
<ul style="list-style-type: none"> <li>■ Identical with model HPA but with</li> <li>■ Delivery hose, 1200 mm</li> <li>■ Delivery nozzle stainless steel, outside -Ø 19 mm</li> </ul>		
<b>Hand lever piston pump model AF 10-AB</b>	<b>24 034</b>	<b>131,33</b>
<ul style="list-style-type: none"> <li>■ For AdBlue</li> <li>■ Polypropylene, EPDM-sealing</li> <li>■ Angled spout</li> <li>■ Plastic telescope suction pipe for 50 - 200 ltr.-barrels, connection thread 2"</li> <li>■ Approx. 0,25 ltr. / pass</li> </ul>		
<b>Hand lever piston pump model AF 10-AB-S</b>	<b>24 035</b>	<b>167,18</b>
<ul style="list-style-type: none"> <li>■ Identical with model AF 10-AB, but with</li> <li>■ Delivery hose, 1200 mm</li> <li>■ Delivery nozzle stainless steel, outside -Ø 19 mm</li> </ul>		
<b>Model ABM 200 DSM</b>	<b>28 237</b>	<b>2.190,00</b>
<b>For AdBlue®</b>		
<ul style="list-style-type: none"> <li>■ <b>Digital service management</b> with data storage for users, orders and quantities</li> <li>■ <b>Control via 7" touch display</b></li> <li>■ <b>Quantity preselection or manual dispensing</b></li> <li>■ <b>230 V mains plug for operation and battery charging</b></li> <li>■ <b>12 V battery, 45 Ah (not included in scope of delivery)</b></li> <li>■ Battery operation max. 8 hours / charging time approx. 10 hours</li> <li>■ Electric pump, max. 8 ltr./min.</li> <li>■ Quick connection for drum change incl. drum strap</li> <li>■ 2 m oil delivery hose with automatic-nozzle, DN 20</li> <li>■ Sturdy chassis with 2 castors Ø 150 mm and 2 swivel castors, for holding a 60-200 litre drum</li> <li>■ Dimensions approx. 921 x 722 x 1133 mm (L x W x H), approx. 56 kg</li> </ul>		
<b>Assembly ready to connect for DSM model</b>		<b>149,-</b>
<b>Additional freight charges for DSM model</b>		<b>Request</b>
<b>Accessories</b>		
<b>Adapter for barrels type GAB</b>	<b>25 115</b>	<b>35,73</b>
<ul style="list-style-type: none"> <li>■ Ext. th. 2"Mauser coarse thread / int. th. 2" BSP</li> </ul>		
<b>Adaptor for canister AdBlue® type GA-K</b>	<b>25 145</b>	<b>35,73</b>
<ul style="list-style-type: none"> <li>■ For use with 60 ltr. AdBlue® canister</li> <li>■ 2" BSP female/DIN 61</li> </ul>		
<b>Adaptor for canister AdBlue® type GA-T</b>	<b>25 146</b>	<b>41,71</b>
<ul style="list-style-type: none"> <li>■ Designed for connection of AdBlue® canister to the Delphin Pro System</li> <li>■ Thread Treasure female/DIN 61</li> </ul>		
<b>Level indicator model FA 200</b>	<b>27 145</b>	<b>58,56</b>
<ul style="list-style-type: none"> <li>■ Liquid level indicator for 200 ltr.-barrel, G 3/8"</li> </ul>		
<b>AdBlue® filling hose for car type FS-AB</b>	<b>28 269</b>	<b>35,73</b>
<ul style="list-style-type: none"> <li>■ By using this system a 5/10/20 ltr jerry can is easily be connected with filler neck of car.</li> </ul>		
<b>AdBlue® adaptor for car type A-AB</b>	<b>28 224</b>	<b>95,48</b>
<ul style="list-style-type: none"> <li>■ AdBlue® adaptor for refuelling car</li> </ul>		



**Pumps for AdBlue®**

To meet the emission standard Euro 5/6 for trucks and the American emission standards for cars the SCR-method, Selctive Catalytic Reaktion, is applied. Therefore a diluted urea solution AdBlue® or AUS 32 is used and in a separate tank of the vehicles carried. The exceeding quality standard of the product, defined in the "quality directives AUS 32" are also observed by the following structural parts and equipment.

**Model ABP 10/230/1**

- Electr. plastic pump assembly for AdBlue®
- Self-priming membrane pump, max. 10 ltr./min
- Electric power 230 V, 50 Hz, 0,12 kW
- 2 m cable connection with plug
- On-off switch
- 2 x Plug connector for hose NPS 19

**Model ABP 35/230**

- Electrical plastic delivery pump for AdBlue®.
- Self-priming membrane pump, max. 25l/min
- Electr. power system 230 V, 50 Hz, 0,3 kW.
- 2 m connecting cable with power plug
- Power switch
- 2 plug can adapter for hose NPS 19

**Model ABP 35/12**

- Electrical plastic delivery pump for AdBlue®.
- Self-priming membrahe pump, max. 25l/min
- Electr. drive 2 V, 18 A
- 2 m connecting cable with battery clamp
- Power switch
- **2 plug can adapter** for hose NPS 19
- **Manuel plastic nozzle**, NPS 19

**Model ABP 35/24**

- Identical to model ABP 35 G12, but
- Electr. drive 24 V, 9 A

**Accessories**

**Snap closing type SEC-AB**

- Snap closing for CDS suction hose connection

**Suction hose type CDS-AB**

- Suction hose with connection for SEC snap closing

**Snap closing type SGV**

- Transition for suction conduction at IBC-base valve

**Suction hose type SG 20 AB**

- 1,5 m suction hose NPS 20, with bottom valve for AdBlue®

**Automatic nozzle type ZPA-AB/E**

- For AdBlue®, with Axial-swivel joint 3/4"
- Parts in contact with media and spout in stainless steel, NPS 19

**Automatic nozzle type ZPA 19-AB**

- For AdBlue®, with Axial-swivel joint 3/4"
- Parts in contact with media made in plastic
- stainless steel spout NPS 19

**Automatic nozzle type ZPA 15-AB**

- For AdBlue®, with Axial-swivel joint 3/4"
- Parts in contact with media made in plastic
- stainless steel spout NPS 15

**Nozzle type ZP 12 AB**

- For AdBlue®, without automatic cut-off
- With spout in stainless steel, NPS 19

**Model AB-Z**

Digital plastic flow meter for AdBlue®. To assemble in tube or to connect to pump nozzle type ZPA-AB und ZPM-AB.

- LCD-display, single delivery 0,1 till 99.999 l
- Exactness of measurement +/- 1%, compression max. 10 bar
- Flow rate 6 till 100 l/min
- Connection 1" AG/1" AG

**Metal bush type MU 1 AB**

- Stainless steel bush with 1" int. th. for AdBlue®

part no.	price EUR
28 223	357,31
28 264	345,36
28 265	429,01
28 266	429,01
28 272	53,78
28 271	70,51
28 273	89,63
28 274	77,68
28 256	357,31
28 276	237,81
28 275	237,81
28 257	70,51
21 015	178,06
28 215	17,81



Mod. ABM 1000 Z-PKW



Mod. ABM 200 Z-PKW



Mod. ABS 200 A-PKW



Type ZPA-AB



Type ZPA-AB/Z

### AdBlue®-delivery

To meet the emission standard Euro 5/6 for trucks and the American emission standards for cars the SCR-method, Selective Catalytic Reaktion, is applied. Therefore a diluted urea solution AdBlue® or AUS 32 is used and in a separate tank of the vehicles carried. The exceeding quality standard of the product, defined in the "quality directives AUS 32" are also observed by the following structural parts and equipment.

### Modell ABS 1000 A-PKW

Electrical plastic pump assembly for AdBlue®  
**for use with IBC-container.**

- Self-priming membrane pump, max. 10 ltr./min
- Electr. power 230 V, 50 Hz, 0,12 kW
- On-off switch
- Fuel hose 4 m, suction hose 2 m NPS 19
- Incl. snap closure type SEC-AB
- **Automatic nozzle** with stainless steel spout NPS 15

### Modell ABS 1000 Z-PKW (without illustr.)

- Identical to model ABS 1000, but
- **Automatic nozzle with meter** with stainless steel spout NPS 15

### Model ABM 200 A-PKW (without illustr.)

Mobile electrical plastic pump assembly for AdBlue®  
**for use with barrels and jerry cans**

- Self-priming membrane pump, max. 10 ltr./min
- Electr. power 230 V, 50 Hz, 0,12 kW
- On-off switch
- Fuel hose 4 m, suction hose 2 m NPS 19
- Incl. snap closure type SEC-AB
- **With trolley ÖAM 200/2**
- **To use with 60 ltr. jerry can or 200 ltr. barrel**
- **Automatic nozzle** with stainless steel spout NPS 15

### Modell ABM 200 Z-PKW

- Identical to model ABM 200 A-PKW, but
- **Automatic nozzle with meter** with stainless steel spout NPS 15

### Model ABS 200 A-PKW

Electrical plastic pump assembly for AdBlue®  
**for use with barrels**

- Self-priming membrane pump, max. 10 ltr./min
- Electr. power 230 V, 50 Hz, 0,12 kW
- On-off switch
- Fuel hose 4 m, suction hose 2 m NPS 19
- Incl. snap closure type SEC-AB
- **Automatic nozzle** with stainless steel spout NPS 15

### Modell ABS 200 Z-PKW (without illustr.)

- Identical to model ABS 200 A-PKW, but
- **Automatic nozzle with meter** with stainless steel spout NPS 15

### Accessories

#### Automatic nozzle type ZPA-AB

- For AdBlue® with axial swivel joint ¾"
- Parts in contact with media made in plastic
- stainless steel spout NPS 15

#### Automatic nozzle type ZPA-AB/Z

- For AdBlue® with axial swivel joint ¾"
- Parts in contact with media made in plastic
- stainless steel spout NPS 15
- with meter

part no.	price EUR
28 229	799,46
28 230	930,91
28 277	895,06
28 227	954,81
28 278	715,81
28 228	751,66
28 282	237,81
28 283	333,41

NEW



Mod. Delphin Pro IBC



Mod. Delphin Pro



Mod. Delphin Pro X



Type Delphin MAS

### AdBlue®-delivery

To meet the emission standard Euro 5/6 for trucks and the American emission standards for cars the SCR-method, Selective Catalytic Reaction, is applied. Therefore a diluted urea solution AdBlue® or AUS 32 is used and in a separate tank of the vehicles carried. The exceeding quality standard of the product, defined in the "quality directives AUS 32" are also observed by the following structural parts and equipment.

#### Model Delphin Pro IBC

Fully automatic car filling system AdBlue® for garages for use with IBC container.

- Self-cleaning sensor avoids overfilling and stops the filling process automatically
- Multipurpose 2 m ISO -coupler, compatible to all types of car tanks
- Closed system with air return avoids leaking of smell and vapour
- Digital flow meter for display of dispensed quantity
- 230 V pump, flow rate adjustable, from 3 until 11 l/min.
- Dim. approx. 366x340x583 mm (LxWxH), 21,5 kg

#### Model Delphin Pro

Fully automatic car filling system AdBlue®, mobile, for garages for use with 60 l canister or 200 ltr. barrel

- Self-cleaning sensor avoids overfilling and stops the filling process automatically
- Multipurpose 2 m ISO -coupler, compatible to all types of car tanks
- Closed system with air return avoids leaking of smell and vapour
- Digital flow meter for display of dispensed quantity
- 230 V pump, flow rate adjustable, from 3 until 11 l/min.
- Dim. approx. 800x860x1200mm (LxWxH), 6 kg

#### Model Delphin Pro SEC

- Identical to model Delphin Pro but
- SEC adaptor for use with IBC tank (for transfer into barrel and canister)



#### Modell Delphin Pro X

Mobiles vollautomatisches PKW-Betankungssystem für AdBlue® für die Werkstatt, zur Verwendung mit 60 Ltr.-Kanistern oder 200 Ltr.-Fässern

- Identisch mit Modell Delphin Pro, jedoch mit
- Variable Einstellmöglichkeit:
  1. Volumenstrom: Manuelle Einstellung von 2 bis maximal 15 Ltr./min, um vollständige Kompatibilität mit allen Fahrzeugen zu gewährleisten
  2. Automatische Anpassung: Integrierte Funktion zum automatischen Anpassen des Volumenstrom an den jeweiligen Fahrzeugtyp
  3. Mengenvorwahl: Präzise Voreinstellung der Gesamtmenge an AdBlue®

#### Model Delphin Pro DC

- Identical to model Delphin Pro X but
- Network independent by battery supply (sufficient for approx. 50 filling operation)



#### Plus Transport charges for models Delphin Pro (mobile)

#### Manual Suction Device Type Delphin MAS

- Manual suction device for emptying of an overfilled tank, hose with integrated hand pump
- Storage in a 5 ltr. canister
- To be mounted at Delphin Pro devices

#### Retrofit Kit for Delphin Pro Type NRS-SEC

- Add-on kit for SEC connection
- Tank quick release fastener with V2A clamp and suction pipe with SEC-connector



part no.	price EUR
28 234	2.981,53
28 284	3,340,03
28 231	3.519,28
28 235	3.519,28
28 232	4.057,03
	Request
28 236	273,66
28 500	178,06



Mod. ABS 1000-LKW



Mod. ABS 200-LKW



Mod. ABM 200 A-LKW

**AdBlue®-delivery**

To meet the emission standard Euro 5/6 for trucks and the American emission standards for cars the SCR-method, Selective Catalytic Reaktion, is applied. Therefore a diluted urea solution AdBlue® or AUS 32 is used and in a separate tank of the vehicles carried. The exceeding quality standard of the product, defined in the "quality directives AUS 32" are also observed by the following structural parts and equipment.

**Model ABS 1000-LKW**

Electrical plastic pump assembly for AdBlue® for use with IBC-container.

- Self-priming membrane pump, max. 25 l/min
- Electric power system 230V, 50 Hz, 0,37kW.
- Power switch
- **Digital counter** with total volume display and resettable parts
- Fuel hose NPS 19 x 6 m
- Suction hose NPS 19 x 1,5 m
- Incl. snap closure Typ SEC-AB
- **Manuel plastic nozzle**, NPS 19

**Model ABS 1000 A-LKW (without illustr.)**

- Identical to model ABS 1000, but
- **Digital counter** with total volume display and resettable parts
- **Automatic-stainless steel nozzle**, NPS 19

**Model ABS 200-LKW**

Electrical plastic pump assembly for AdBlue® for use with barrels.

- Self-priming membrane pump, max. 25 l/min
- Electric power system 230V, 50 Hz, 0,37kW.
- Power switch
- **Digital counter** with total volume display and resettable parts
- Fuel hose NPS 19 x 6 m
- Suction hose NPS 19 x 1,5 m
- Incl. snap closure Typ SEC-AB
- **Manuel plastic nozzle**, NPS 19

**Model ABS 200 A-LKW (without illustr.)**

- Identical to model ABS 200, but
- **Digital counter** with total volume display and resettable parts
- **Automatic-stainless steel nozzle**, NPS 19

**Model ABM 200-LKW (without illustr.)**

Electrical plastic pump assembly for AdBlue® for use with barrels.

- Identical to model ABS 200, but
- **Digital counter** with total volume display and resettable parts
- **With barrel trolley ÖAM 200/2**

**Model ABM 200 A-LKW**

Electrical plastic pump assembly for AdBlue® for use with barrels.

- Identical to model ABS 200, but
- **Digital counter** with total volume display and resettable parts
- **With barrel trolley ÖAM 200/2**
- **Automatic-stainless steel nozzle**, NPS 19

part no.	price EUR
28 261	656,06
28 260	835,31
28 262	656,06
28 280	835,31
28 263	835,31
28 281	1.014,56

**NEW** IBC-drain pans are type examination tested according to the quality mark, TÜV-Hessen, WS-Ü 12/12-01 building code A part 1, consecutive no.: 15.22



Mod. W 01-IBC



Mod. P 01



Mod. P 02 A



Mod. PG 01



Mod. PG 02 A

## Drain Pans for IBC-Container

### Drain Pans Made Of Steel

Drain pans for IBC made of steel sheet, zinc coated, licensed by the regulations of the German Federal Office of technical Physics. Easy moving with forklift or hand lift.

#### Model W 01-IBC

Drain pan with grid and feet, zinc coated

- Capacity of pan 1.100 ltr.
- Max Load 2.000 kg , weight approx. 204 kg
- Dim. approx. 1300 x1360 x 350 mm (LxWxH)

#### Model W 02-IBC (without illustr.)

Drain pan without grid and feet, zinc coated

- Capacity of pan 1.100 ltr.
- Max Load 2.000 kg , weight approx. 157 kg
- Dim. approx. 1300 x1360 x 350 mm (LxWxH)

**Plus Transport charges for models W-IBC**

### Drain Pans Made Of PE

IBC drain pans made of plastic (PE) licensed according the regulations of the German Federal Office of technical Physics. Easy moving with forklift or hand lift. Important: Only empty pan can be moved.

#### Model P 01

IBC drain pans made of plastic (PE), with supporting cross

- Capacity of pan 1.100 ltr.
- Max Load 1.500 kg, weight approx. 63 kg
- Dim. approx. 1460x1170x870 mm (LxWxH)

#### Model P 01 A (without illustr.)

IBC drain pans made of plastic (PE), with supporting cross

- Incl. Filling device
- Capacity of pan 1.100 ltr.
- Max Load 1.500 kg, weight approx. 65 kg
- Dim. approx. 16200x1170x870 mm (LxWxH)

#### Model P 02 A

IBC drain pans made of plastic (PE), with supporting cross

- Incl. Filling device
- Capacity of pan 1.100 ltr.
- Max Load 3.300 kg, weight approx. 87 kg
- Dim. approx. 2230x1460x440 mm (LxWxH)

#### Model PG 01

IBC drain pans made of plastic (PE), with zinc coated grid

- Capacity of pan 1.100 ltr.
- Max Load 1.500 kg, weight approx. 63 kg
- Dim. approx. 1460x1170x870 mm (LxWxH)

#### Model PG 01 A (without illustr.)

IBC drain pans made of plastic (PE), with zinc coated grid

- Incl. Filling device
- Capacity of pan 1.100 ltr.
- Max Load 1.500 kg, weight approx. 65 kg
- Dim. approx. 1620x1170x870 mm (LxWxH)

#### Model PG 02 A

IBC drain pans made of plastic (PE), with zinc coated grid

- Incl. Filling device
- Capacity of pan 1.100 ltr.
- Max Load 3.300 kg, weight approx. 87 kg
- Dim. approx. 2230x1460x440 mm (LxWxH)

**Plus Transport charges for models P/PG**

part no.	price EUR
25 154	1.428,03
25 155	2.145,03
	Request
25 148	1.069,53
25 149	1.189,03
25 150	2.025,53
25 151	1.428,03
25 152	1.428,03
25 153	2.384,03
	Request



Mod. TM-AB 200



Mod. TM-AB 450/230



**Mobile AdBlue®-filling**

Mobile AdBlue® filling station with ADR-admission. TÜV-geprüft. Tank with lockable cover made of MDPE with integrated fuel-filling facility (electronic pump).

**Model TM-AB 250**

- Tank capacity 250 l, with accessories, without pump
- Suction line with line filter
- Fuel tank gauge
- Dim. approx. 1200 x 800 x 625 mm (L x W x H)

**Model TM-AB 250/12**

- Similar to model TM-AB 250, but
- Electr. pump, flow rate approx. 30 l/min
- Connected load 12 V, protection system IP 54
- 4m fuel hose with automatic nozzle

**Model TM-AB 250/24**

- Similar to model TM-AB 250/12, but
- Electr. pump, flow rate approx. 30 l/min
- Connected load 24 V, protection system IP 54

**Model TM-AB 250/230**

- Similar to model TM-AB 250/12, but
- Electr. pump, flow rate approx. 35 l/min
- Connected load 230 V, protection system IP 54

**Model TM-AB 250/12-Z**

- Similar to model TM-AB 250/12, but
- **Incl. digital flow meter**
- Connected load 12 V, protection system IP 54

**Model TM-AB 250/24-Z**

- Similar to model TM-AB 250/12, but
- **Incl. digital flow meter**
- Connected load 24 V, protection system IP 54

**Model TM-AB 250/230-Z**

- Similar to model TM-AB 250/12, but
- **Incl. digital flow meter**
- Connected load 230 V, protection system IP 54

**Model TM-AB 450**

- Tank capacity 450 l, with accessories, without pump
- Suction line with line filter
- Fuel tank gauge
- Dim. approx. 1200 x 800 x 912 mm (L x B x H)

**Model TM-AB 450/12**

- Similar to model TM-AB 450, but
- Electr. pump, flow rate approx. 30 l/min
- Connected load 12 V, protection system IP 54
- 4 m fuel hose with automatic nozzle

**Model TM-AB 450/24**

- Similar to model TM-AB 450/12, but
- Electr. pump, flow rate approx. 30 l/min
- Connected load 24 V, protection system IP 54

**Model TM-AB 450/230**

- Similar to model TM-AB 450/12, but
- Electr. pump, flow rate approx. 35 l/min
- Connected load 230 V, protection system IP 54

**Model TM-AB 450/12-Z**

- Similar to model TM-AB 450/12, but
- **Incl. digital flow meter**
- Connected load 12 V, protection system IP 54

**Model TM-AB 450/24-Z**

- Similar to model TM-AB 450/12, but
- **Incl. digital flow meter**
- Connected load 24 V, protection system IP 54

**Model TM-AB 450/230-Z**

- Similar to model TM-AB 450/12, but
- **Incl. digital flow meter**
- Connected load 230 V, protection system IP 54

**Carrying charges for TM-AB units not included**

part no.	price EUR
28 285	1.422,05
28 286	1.900,05
28 287	1.900,05
28 288	1.900,05
28 289	2.019,55
28 290	2.019,55
28 291	2.019,55
28 292	1.661,05
28 293	2.258,55
28 294	2.258,55
28 295	2.258,55
28 296	2.378,05
28 297	2.378,05
28 298	2.378,05
	Request



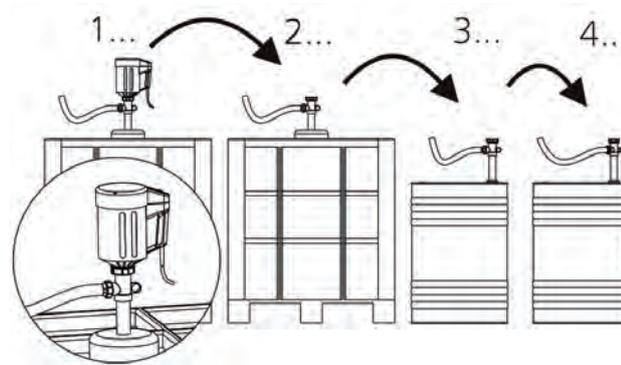
## Electric drum and container pump

This feed pump is the result of careful development and offers a modern and convenient solution for the safe filling of liquids that are aggressive or hazardous to the aquatic environment. Feeding without mixing of different media guaranteed.

- Performance:** (depending on viscosity – see page 127)
- Connection to alternating current 230 V, protection class IP 44
  - Output about 90 ltr./min.
  - Fluid viscosity 0-300 cPs

### Model WX 90

- Electric feed pump
- variable engine timing from 1100 to 3500 U/min. (7 steps)
- For flame-resistant and non-explosive liquids
- Scope of delivery without suction pipe and dispensing unit



### Suction pipe made of polypropylene (PP)

- **Alkaline solution:**  
Fluid alkaline solution, sodium hydroxide, potassium hydroxide, ammonia water, formic acid, acetic acid etc.
- **Acids:**  
Hydrochloric acid, phosphoric acid, chromic acid, battery acid, citric acid

### Suction pipe PP, length 1000 mm type SR 1000 PP-Set 28 410

- Incl. 2 m PVC Gewebehose NPS 19
- Incl. nozzle (PP)
- Incl. drum adapter and pump screw connection (PP), 2" out. th

### Suction pipe PP, length 1200 mm type SR 1200 PP-Set 28 412

- Incl. 2 m PVC Gewebehose NPS 19
- Incl. nozzle (PP)
- Incl. drum adapter and pump screw connection (PP), 2" out. th

### Model WX 90-Z

- Digital plastic flow meter
- LCD-display, single delivery 0,1 till 99.999 l, total display till 999.999 l
  - Exactness of measurement +/- 1%, compression max. 10 bar
  - Display position movable in 4 positions
  - Flow rate 6 till 100 ltr./min
  - Battery operated
  - Connection 1" out. th./1" out. th.

part no.

price EUR

28 400

352,53

28 410

233,03

28 412

233,03

28 414

213,91



## Hand pumps for petrol and 2-stroke-mixture

### Hand lever piston pump model HPB

- For petrol and 2-stroke-mixture, inflammable fluids class R12
- Zinc-coated steel, Viton-sealing
- Angled spout
- Steel telescope suction pipe for 50 - 200 ltr.-barrels, ext. th. 2" and R11/2"
- Earth cable with clamp
- Approx. 0,35 ltr. / pass

### Hand lever piston pump model HPB 1

- For petrol or oil/petrol mixture, dangerous class R12
- Aluminum, viton seals
- Dispensing hose DN 19x1,5 m with rigid nozzle and bend protection
- Steel made telescopic suction pipe for 50-200 ltr. barrel
- Connection 2" and M64x4
- Ground cable with clamp
- Approx. 0,25 ltr. / stroke

## Petrol jerrycans

Jerrycans made of HDPE or metal for transport of liquid fuels.

**When ordering packing unit (PU) we grant you a quantity discount of 10%.**

### Model KKB

Robust jerrycan made of HDPE, red, suitable for liquid fuels, **not calibratable**

- Flexible discharge spout with integral ventilation
- Cover cap is secured against loss with flex. band
- Robust and resistant against impact
- TÜV-approved, UN/BAM-approved

**Type KKB 5 for 5 ltr.**

**Type KKB 10 for 10 ltr.**

**Type KKB 20 for 20 ltr.**

part no.	price EUR
24 031	149,26

24 002	179,13
--------	--------

24 200	20,20
24 201	23,78
24 202	35,73

### Model MKB

Robust Jerrycan made of metal, olive-green, suitable for liquid fuels, **not calibratable**

- Internally painted
- Safe lock
- TÜV-approved, UN-approved

**Type MKB 5 for 5 ltr. (PU 5)**

**Type MKB 10 for 10 ltr. (PU 5)**

**Type MKB 20 for 20 ltr. (PU 4)**

24 204	53,66
24 205	59,63
24 206	71,58

### Flexible discharge spout type MKB-AF

- Für Metallkanister Type MKB, 240 mm lang

24 208	23,78
--------	-------



**Electric Pumps for Petrol and similar**

Self-priming, explosion protected vane pump with ATEX licence, Ex dIIA T4 Gb, suitable for fluids according to dangerous class A 1 (flash point <21°C).

**Electric Vane Pump Model BAS**

- Self-priming vane pump, max. 50 ltr/min
- For petro or oil/petrol mixture, kerosene, Diesel
- Power, 230 V 50 Hz, 0,25 kW
- Plus integrated Bypass-overpressure control and non-return valve
- Flange connection 1" female
- Power supply with 4 m cable
- 2" barrel adaptor, suction filter and nozzle holder
- Ground cable with clamp
- Approx. 50ltr. /min
- With ATEX licence

**Electric Vane Pump Model BAS 200**

- Identical to model BAS but with
- Telescopic suction pipe up to 1100 mm
- Connection Thread 2"
- 4 m Dispensing hose DN 20
- **Automatic nozzle**
- Filter 30 µm
- With ATEX licence

**Electric Vane Pump Model BAS 200-Z**

- Identical to model BAS but with
- Telescopic suction pipe up to 1100 mm
- Connection Thread 2"
- **Incl. flow meter**
- Accuracy +/- 1% (16-80 ltr./min)
- 4 m Dispensing hose DN 20
- **Automatic nozzle**
- Filter 30 µm
- With ATEX licence

**Flow Meter Model BAZ**

- Resettable dispensing counter, 3-digit
- Non-resettable totalizer, 6-digit
- Viton seals
- Measuring range 20-120 ltr/min, accuracy +/- 1%
- Connection 1" male/1" female

**Accessories**

**Water Separating Filter with Holder type HFW**

- Filter (2x) with screwable cartridge for the supply side of lubrication systems, including 1" holder
- Suitable for BioDiesel, Diesel and petrol
- Filter 30 µm
- Flow: rate 70 l/min operation pressure 3,5 bar

**Oil Filter with Holder type HFÖ**

- Filter (1x) with screwable cartridge for the suction and supply side of lubrication systems, including 1" holder
- Suitable for BioDiesel, Diesel and petrol
- Filter 10 µm
- Flow: rate 100 l/min operation pressure 12 bar

part no. price EUR

28 070 678,76

28 071 834,11

28 072 1.192,61

28 023 352,53

28 503 154,16

28 505 118,31



Mod. GÖK 60/2 HP



Mod. GÖK 35/1 HP



Mod. GÖK 60/2 P



Mod. GÖK 80 P

## Manual version

Suitable for oil up to SAE 140 (SAE 90)

- Approx. 0,25 ltr. discharge capacity per pass

### Model G 60 HP (without illustr.)

- Hand lever pump with 1,5 m dispenser hose with spout, incl. gate valve
- For 60 ltr.-container
- Weight approx. 3 kg
- Delivery without cart

### Model GÖK 60/1 HP

- Hand lever pump with 1,5 m dispenser hose with spout, incl. gate valve
- Chassis type ÖAM 60/1 with 2 rollers Ø 155 mm and 2 steering rollers Ø 80 mm
- For 20-60 ltr.-container
- Weight approx. 14 kg
- Dim. approx. 500 x 450 x 150 mm (L x W x H)

### Model GÖK 200/2 HP (without illustr.)

- Hand lever pump with 1,5 m dispenser hose with spout, incl. gate valve
- Chassis type ÖAM 200/2 with 2 rollers and 2 swivel castors
- For 200 ltr.-container
- Weight approx. 29 kg
- Dim. approx. 800 x 650 x 1050 mm (L x B x H)

### Model GÖK 35/1 HP

- Hand lever pump with 1,5 m dispensing hose with spout, incl. gate valve
- Mobile with 30 ltr.-container
- 2 rubber rollers Ø 100 mm
- Filling funnel Ø 150 mm
- Weight approx. 16 kg
- Dim. approx. 340 x 380 x 940 mm (L x B x H)

### Model GÖK 80 HP (without illustr.)

- Hand lever pump with 1,5 m dispensing hose with spout, incl. gate valve
- Mobile **with 80 ltr.-container**
- 2 wheels, 2 swivel castors and swivel bracket
- Filling funnel Ø 150 mm
- Weight approx. 35 kg
- Dim approx. 600 x 430 x 1215 mm (L x B x H)

## Pneumatic version

Suitable for oil up to SAE 140

- Approx. 3,5 ltr. discharge capacity per min.

### Model GÖK 60/1 P, pneum. pump

- Pneum. pump OP 90 D 30/1, suction capacity 530 mm with 1,5 m dispensing hose with spout, incl. gate valve
- Chassis type ÖAM 60/1 with 2 rollers Ø 155 mm and 2 steering rollers Ø 80 mm
- For 20 - 60 ltr.-container
- Weight approx. 18 kg
- Dim approx. 500 x 450 x 150 mm (L x W x H)

### Model GÖK 200/1 P, pneum. pump (w. illustr.)

- Pneum. pump OP 90 D 30/1, suction capacity 530 mm with 1,5 m dispensing hose with spout, incl. gate valve
- Chassis type ÖAM 200/1 with 2 rollers Ø 200 mm and 2 steering rollers Ø 80 mm
- For 200 ltr.-container
- Weight approx. 29 kg
- Dim. approx. 800 x 650 x 150 mm (L x W x H)

### Model GÖK 80 P

- Identical with Mod. GÖK 80 HP, but:
- Pneum. pump OP 90 D 25/1, suction pipe 530 mm mit 1,5 m delivery hose with outlet spout incl. gate valve
- Mobile **with 80 Ltr.-container**

part no. price EUR

23 042 130,26

23 004 273,66

23 001 405,11

23 018 321,46

23 007 412,28

23 005 691,91

23 006 871,16

23 009 768,27



### Digital Dispensing Sets

The new mobile and battery-operated RAPID dispensing sets with 7" touch display are designed to hold 60 - 200 litre drums and are available for the digital recording of oil, coolant or AdBlue® dispensing. Dispensing quantities and order data are documented with date and time. The data can be transferred via USB stick or WiFi. Thanks to battery technology, the devices can be operated independently of the mains or using a 230 V mains plug. The very low loading surface of the trolley makes it quick and easy to change drums. **12 V, 45 Ah rechargeable battery not included.** A gel car battery is recommended.

#### Model GAM 200 DSM

For gear oils

- Digital service management with data storage for users, orders and quantities
- Control via 7" touch display
- Quantity preselection or manual dispensing
- 230 V mains plug for operation and battery charging
- 12 V battery, 45 Ah (not included in scope of delivery)
- Battery operation max. 8 hours / charging time approx. 10 hours
- Electric pump, max. 2 ltr./min. (depending on visc.)
- Quick connection for drum change incl. drum strap
- 2 m oil delivery hose with flexible gearbox oil outlet
- Sturdy chassis with 2 castors Ø 150 mm and 2 swivel castors, for holding a 60-200 litre drum
- Dimensions approx. 921 x 722 x 1133 mm (L x W x H), approx. 56 kg

Assembly ready to connect for GAM 200 DSM

Additional freight charges for GAM 200 DSM

#### Model GÖK 7

- Gear oil filler with hand lever pump, incl. 1,5 m dispensing hose with spout
- Connection-adapter-set for automatic- and gearbox
- Volume 7,5 Ltr.
- Connection-adapter-set car models as follows: Audi, Audi-CVT, Audi-DSG, BMW, Ford, Honda, Nissan, Mercedes, Mini-Cooper, Porsche, VW, 1/8", M 10x1, M 12x1,5, M22x1,5, M24x1,5 and universal-adapter

### Accessories

#### Quick change connection, fixed type AR-SSK

Quick change connection in order to fill gears in conjunction with oil change adapter for use with Rapid-oil gear trolleys.

- Fixed with hose nozzle NPS 12 and -clip

#### Quick change connection, flexible type AF-SSK

Quick change connection in order to fill gears in conjunction with oil change adapter for use with Rapid-gear oil trolleys or counter.

- Flexible with 1/2" ext. th. connection

#### Filling pipe type BR-G

Universal filling pipe for gear oils.

- Usable for quick change connection

#### Oil change adapter type G-7GMB

Oil change adapter for 7G-Tronic gears (NAG 2) usable for MB-vehicles.

- Suitable for quick change connections

#### Oil change adapter type G-DSG 02E

Oil change adapter for 6-speed direct shift gearbox DSG 02E from VW, Audi and Seat.

- For emptying and filling
- Suitable for quick change connections

part no.	price EUR
23 045	2.190,00
	149,- Request
23 019	357,31
23 503	32,86
23 506	47,20
23 505	32,86
23 504	32,86
23 507	154,75

**Please note:**

Model regulated drain pans for storage of 200 ltr. barrels are shown on page 58.



Mod. GAM 200/2 ZP



Mod. GAM 200/2 SZP



Mod. GAM 200/2 SZE

**Mobile Version**

This mobile oil dispenser set truck is designed for use with 200 ltr.-barrel, available in calibratable and non-calibratable version. The low levelled loading floor makes barrel change easy and fast.

**Basic version :**

- Solid trolley type ÖAM 200/2 or ÖAM 200-S/2 with 2 wheels and 2 castors
- Electric or pneumatic oil pump
- 2 m oil dispensing hose NPS 16
- Digital flow meter incl. outlet pipe and holder

**Performance:** (depending on degree of viscosity - see p. 240)

- **Pneumatic pump** max. 5 ltr./Min
- Air inlet pressure max. 8 bar (160 PSI)
- Type OP 90 D 25/1 (1:5) incl. pressure reducer D/M 06

- **Electrical pump** max. 7 Ltr./min
- Connection 230 V~, 50 Hz, 1,1 kW
- Type OP 145 E/1 (on-off-switch)
- Type OP 145 ED/1 (pressure switch for additional charge available)
- With connecting cable and power plug

**Model GAM 200/2 ZP, pneum. Pump**

- Pneum. pump type OP 90 D 25/1, incl. suction pipe
- Digital flow meter type LCD 18/1
- Dim. approx. 920 x 780 x 1000 mm (L x W x H), 46 kg
- **Non-calibratable**

**Model GAM 200/2 SZP, pneum. pump**

- Identical to model GAM 200/2 ZP but with
- Automatic hose reel type 9.10.16/1, 10 m NPS 16
- Dim. approx. 920 x 780 x 1000 mm (L x W x H), 56 kg
- **Non-calibratable**

**Model GAM 200/2 ZE, electr. pump**

- Electr. pump type OP 145 E/1, incl. 1" suction hose
- Digital flow meter type LCD 18/1
- Dim. approx. 920 x 780 x 1000 mm (L x W x H), 48 kg
- **Non-calibratable**

**Model GAM 200/2 SZE, electr. pump**

- Identical to model TÖAM 200/2 ZE but with
- Automatic hose reel type 9.10.16/1, 10 m NPS 16
- Dim. approx. 920x780x1000 mm (L x W x H), 58 kg
- **Non-calibratable**

**Extra charge for assembling ready to use  
Plus Transport charges for models P/PG**

- Only for pre-assembly

**Accessories**

**Add.charge for press. switch for electr. pump type MD**

- Assembly including pressure switch for GAM

part no.	price EUR
23 030	1.368,28
23 031	1.965,78
23 032	1.726,78
23 033	2.324,28
	199,- Request
20 199	316,68

## Stationary version

These compact and handy version is suitable for 200 ltr. barrels. It facilitates a comfortable oil supply within a radius of 10 m.

### Basic version:

- Mounting bracket for 200 Ltr. barrels
- Electric or pneumatic oil pump
- Digital flow meter incl. outlet pipe and holder

**Performance:** (depending on degree of viscosity - see p. 240)

- **Pneumatic pump** max. 5 ltr./Min
- Air inlet pressure max. 8 bar (160 PSI)
- Type OP 90 D 25/1 (1:5) incl. pressure reducer D/M 06
- **Electrical pump** max. 7 Ltr./min
- Connection 230 V~, 50 Hz, 1,1 kW
- Type OP 145 E/1 (on-off-switch)
- Type OP 145 ED/1 (pressure switch for additional charge available)
- With connecting cable and power plug

## Model GAS 200 ZP, pneum. pump

- Pneum. pump type OP 90 D 25/1, incl. suction pipe
- Oil dispensing hose type ÖVS 05.16, 5 m, NPS 16
- Hose end meter, digital, Typ LCD 18/1
- **Not calibratable**

## Model GAS 200 SZP, pneum. pump

- Pneum. pump type OP 90 D 25/1, incl. suction pipe
- Automatic hose reel typ 9.10.16/1, 10 m, NPS 16
- Hose end meter, digital, type LCD 18/1
- **Not calibratable**

## Model GAS 200 ZE, electr. pump

- Electrical pump type OP 145 E/1
- Oil dispensing hose type ÖVS 05.16, 5 m, NPS 16
- Hose end meter, digital, Typ LCD 18/1
- **Not calibratable**

## Model GAS 200 SZE, electr. pump

- Electrical pump type OP 145 E/1
- Automatic hose reel typ 9.10.16/1, 10 m, NPS 16
- Hose end meter, digital, type LCD 18/1
- **Not calibratable**

**Assembly ready to connect for GAS  
Plus Transport charges for models P/PG**

- Only for pre-assembly

**Higher performance version on request**

## Accessories

**Add.charge for press. switch for electr. pump type MD**

- Assembly including pressure switch for GAS

part no.

Preis EUR

23 034

890,28

23 035

1.487,78

23 036

1.248,78

23 037

1.846,28

99,-  
Request

20 199

316,68



Mod. GAS 200 SZP



Mod. GAS 200 ZE



Mod. GAS 200 SZE

**Please note:**

Model regulated drain pans for storage of 200 ltr. barrels are shown on page 58.



Inkl. D/M 06

Mod. GAS 1000 P



Mod. GAS E



Mod. GAS 1000 E

## Stationary Version

A ready-for-use oil dispenser set provides optimal oil supply using only little space. Moreover this oil dispenser complies with the requirements of the WHG.

### Basic model for T/S-tank or T/R-tank

- Rugged mounting plate for the tank
- Electrical or pneumatic oil pump
- Suction hose going from the pump to the reel
- Axial swivel joint for optimise the use
- Digital flow meter incl. outlet pipe and holder
- Delivery does not include tank (see page 80)

**Performance:** (depending on degree of viscosity - see p. 240)

- **Pneumatic pump** max. 5 ltr./Min
- Air inlet pressure max. 8 bar (160 PSI)
- Type OP 90 D 25/1 (1:5) incl. pressure reducer D/M 06

- **Electrical pump** max. 7 ltr./min
- Connection 230 V~, 50 Hz, 1,1 kW
- Type OP 145 E/1 (on-off-switch)
- Type OP 145 ED/1 (pressure switch for additional charge available)
- With connecting cable and power plug

### Model GAS P, pneum. pump

- Pneum. pump type OP 90 D 25/1, incl. suction hose and pressure reducer
- 5 m dispensing hose, NPS 16, swivel joint
- Hose end meter type LCD 18/1
- For 700 ltr. or 1000 ltr. tank T/S or T/R
- **Not calibratable**

### Model GAS E, electr. pump

- Electr. pump type OP 145/1 E, incl. suction hose
- On-off-switch
- 5 m dispensing hose, NPS 16, swivel joint
- Hose end meter type LCD 18/1
- For 700 ltr. or 1000 ltr. tank T/S or T/R
- **Not calibratable**

### Model GAS 1000 P, pneum. pump

- Pneum. pump type OP 90 D 25/1, incl. suction hose and pressure reducer
- Automatic hose reel type 9.10.16/1, 10 m, NPS 16, swivel joint
- Hose end meter type LCD 18/1
- For 700 ltr. or 1000 ltr. tank T/S or T/R
- **Not calibratable**

### Model GAS 1000 E, electr. pump

- Electr. pump type OP 145/1 E, incl. suction hose
- Wired pressure switch for additional charge available
- Automatic hose reel type 9.10.16/1, 10 m, NPS 16, swivel joint
- Hose end meter type LCD 18/1
- For 700 ltr. or 1000 ltr. tank T/S or T/R
- **Not calibratable**

### Assembly ready to connect for GAS

199,-

### Higher performance version on request

### Accessories

#### Add.charge for press. switch for electr. pump type MD

- Assembly including pressure switch for GAS

part no.

price EUR

23 038

1.009,78

23 039

1.368,28

23 040

1.667,03

23 041

2.025,53

20 199

316,68



### Syringes

Syringes for filling, cleaning and emptying gear boxes and similar parts with oil. Made out of varnished sheet steel. Delivery with bent filling pipe, 135 mm in length.

#### Model SFS 250

- 0,25 ltr. capacity, Ø 40 mm
- Length without pipe approx. 270 mm

#### Model SFS 500

- 0,5 ltr. capacity, Ø 50 mm
- Length without pipe approx. 340 mm

#### Model SFS 1000

- 1 ltr. capacity, Ø 50 mm
- Length without pipe approx. 580 mm

#### Model SFS-K 500

- 0,5 ltr. capacity, Ø 50 mm, plastic
- Length without pipe approx. 340 mm

#### Model SFS-K 1000

- 1 ltr. capacity, Ø 50 mm, plastic
- Length without pipe approx. 580 mm

### Accessories

Suction and dispensing hose type SFS-S

- Flexible, NPS 10, length approx. 300 mm

### Oiler

High-quality oiler for professional usage during all service- and maintenance tasks in industry and crafts.

When ordering packing unit (PU) we grant you a quantity discount of 10%.

#### SPECIAL-pump oiler Model PÖ 250

- 0,25 ltr. tin plate container (PU 6)
- 165 mm aluminium spout, angled

#### Industrial oiler Model IÖ 200

- 0,20 ltr. zinc die casting container (PU 6)
- 135 mm aluminium spout, angled

#### Industrial oiler Model IÖ 500

- 0,50 ltr. zinc die casting container (PU 6)
- 165 mm aluminium spout, angled

#### Workshop oiler Model WÖ 200

- 0,20 ltr. HDPE-container, white (PU 6)
- 135 mm aluminium spout, angled

#### Workshop oiler Model WÖ 300

- 0,30 ltr. HDPE-container, white (PU 6)
- 165 mm aluminium spout, angled

#### Oiler Model Ö 250

- 0,25 ltr. LDPE-container, transparent (PU 10)
- Brass discharge spout, telescopic from 36 - 145 mm

#### Oiler Model Ö 500

- 0,50 ltr. LDPE-container, transparent (PU 10)
- Brass discharge spout, telescopic from 36 - 180 mm

part no.

price EUR

23 014

22,59

23 015

24,98

23 016

30,95

23 043

59,63

23 044

71,58

23 502

6,45

23 020

21,39

23 021

29,76

23 022

35,73

23 023

26,17

23 024

28,56

23 025

6,57

23 026

7,05



Mod. KK



Mod. KK-A



Mod. BKF



Mod. BK



Mod. KB



Mod. KWK

## Measuring cups, measuring cans and funnels

For controlled filling and dispensing of oil.  
**When ordering packing unit (PU) we grant you a quantity discount of 10%.**

### Basic version:

- Stable and resistent to rupture
- Oil and acid resistant
- Designed for practical handling
- High brim for save pouring
- handle for comfortable use

### Model KK

Plastic can with outlet funnel and scale.

- Outlet with protection cover and protection cap

**Type KK 1 für 1 ltr. (PU 6)**

**Type KK 2 für 2 ltr. (PU 6)**

**Type KK 3 für 3 ltr. (PU 6)**

**Type KK 5 für 5 ltr. (PU 6)**

### Accessories

Flexible outlet pipe for plastic can (PU 6)

**Type KK-A1 for 1 ltr. plastic can**

**Type KK-A2 for 2 ltr. plastic can**

**Type KK-A3 for 3-5 ltr. plastic can**

### Model BKF

Tin can with metal flex spoud and scale,

**Type BKF 1 for 1 Ltr. (PU 6)**

### Model BK

Tin can with outlet funnel and scale.

**Type BK 0,5 for 0,5 Ltr. (PU 5)**

**Type BK 1 for 1 Ltr. (PU 5)**

**Type BK 2 for 2 Ltr. (PU 5)**

### Model BK-Set

**Type BK-Set**

- Tin can 1 Ltr. and 2 Ltr.

### Model KB

Plastic liquid measure, transparent with scale

**Type KB 0,5 for 0,5 ltr. (PU 12)**

**Type KB 1 for 1 ltr. (PU 6)**

**Type KB 2 for 2 ltr. (PU 6)**

**Type KB 3 for 3 ltr. (PU 6)**

**Type KB 5 for 5 ltr. (PU 6)**

### Model KB-Set

**Type KB-Set**

- Plastic liquid measure 1 Ltr., 3 Ltr. and 5 Ltr.

### Model KWK

Can for anti-freeze, made of polyethylene, black

- with sealing cap and filter

**Type KWK for 11 ltr.**

part no. price EUR

24 101 11,83

24 102 15,42

24 103 20,20

24 104 23,78

24 113 3,11

24 145 3,47

24 146 4,18

24 147 20,20

24 105 13,03

24 106 16,61

24 107 21,39

24 159 35,73

24 108 5,86

24 109 8,25

24 110 13,03

24 111 20,20

24 112 32,15

24 160 35,73

24 149 41,71



## Funnels

For controlled filling and dispensing of oil.  
 Oil, acid and fuel resistant

**When ordering packing unit (PU) we grant you a quantity discount of 10%.**

### Model KT

Plastic funnel

**Type KT 100** Ø 100 mm, 0,25 ltr. (PU 10)

**Type KT 120** Ø 120 mm, 0,27 ltr. (PU 10)

**Type KT 150** Ø 150 mm, 0,7 ltr. (PU 10)

**Type KT 200** Ø 200 mm, 2,9 ltr. (PU 6)

**Type KT-Satz** Ø 50, 75, 100 and 120 mm (VE PU)

**Type KTH 160** for Ø 160 mm, 1,2 ltr. (PU 5)

- Ergonomic and safe handle
- High overflow rim functions as splash guard
- Removable strainer, brass

**Type KTF 160** for Ø 160 mm, 1,2 ltr. (PU 6)

- Identical with type KTH 160, but with:
- Flex spoud, removable

**Type KTK 160** for Ø 160 mm, 1,2 ltr. (PU 6)

- Angled tube, safety discharge spoud
- High overflow rim fundctions as splash guard
- Removable strainer, brass

**Type KTD 250** Ø 250 mm, 2,0 ltr.

- funnel with flap lid, 2" AG

### Model BT

Tin funnel with strainer

- High rim as splash guard
- Removable fine brass strainer

**Type BT 160** Ø 160 mm, incl. strainer, 1,3 Ltr. (VE 10)

**Type BT 200** Ø 200 mm, incl. strainer, 3,2 Ltr. (VE 6)

### Accessories

Flexible discharge spout-metal for funnels

**Type BT-A** for type BT 160 and BT 200, to screw-on

### Model KTU

**NEW**

**Type KTU 120** Ø 120 mm

Multipurpose plastic funnel

- Funnel to be fixed by universal clamping device
- Control by transparent line
- Suitable for various types of vehicles
- Clamp system also suitable for other funnels

### Measuring cans

For controlled filling and dispensing of oil.

### Model BE

Measuring canmade of galvanised sheet steel with funnel discharge spout

- Handle and swivelling carrying handle
- Calibratable

**Type BE 5/E** for 5 ltr.

**Type BE 10/E** for 10 ltr.

part no.	price EUR
24 114	3,47
24 115	4,06
24 116	5,26
24 117	7,17
24 144	5,86
24 150	9,44
24 151	10,64
24 152	19,00
24 158	35,73
24 118	21,39
24 119	23,78
24 153	11,83
24 161	46,61
24 156	166,11
24 157	190,01



**Petrol jerrycans**

Jerrycans made of HDPE or metal for transport of liquid fuels.

**When ordering packing unit (PU) we grant you a quantity discount of 10%.**

**Model KKB**

Robust jerrycan made of HDPE, red, suitable for liquid fuels, **not calibratable**

- Flexible discharge spout with integral ventilation
- Cover cap is secured against loss with flex. band
- Robust and resistant against impact
- TÜV-approved, UN/BAM-approved

**Type KKB 5 for 5 ltr.**

**Type KKB 10 for 10 ltr.**

**Type KKB 20 for 20 ltr.**

**Model AKB**

Robust jerrycan made of HDPE, steel-grey, suitable for liquid fuels, **not calibratable**

- Flexible discharge spout with integral ventilation
- Cover cap is secured against loss with flex. band
- Robust and resistant against impact
- Dimensions compatible with military jerrycans
- TÜV-approved, UN/BAM-approved

**Type AKB 20 for 20 ltr.**

**Model MKB**

Robust Jerrycan made of metal, olive-green, suitable for liquid fuels, **not calibratable**

- Internally painted
- Safe lock
- TÜV-approved, UN-approved

**Type MKB 5 for 5 ltr. (PU 5)**

**Type MKB 10 for 10 ltr. (PU 5)**

**Type MKB 20 for 20 ltr. (PU 4)**

**Accessories**

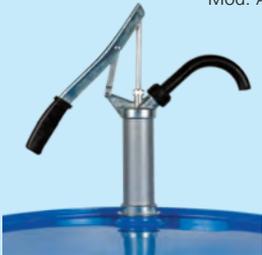
**Flexible discharge spout type MKB-AF**

- Für Metallkanister Type MKB, 240 mm lang

part no.	price EUR
24 200	20,20
24 201	23,78
24 202	35,73
24 203	47,68
24 204	53,66
24 205	59,63
24 206	71,58
24 208	23,78



Mod. AF 10



Mod. HP 012/2



Mod. HP 840



Mod. HP 800



Mod. HP 910



Mod. HP 700



Mod. HP 100

## For self-lubricating non-aggressive fluids

### Hand lever piston pump model AF 10

- For Diesel, fuel oil, lubes up to max. 150 mm<sup>2</sup>/s
- Polypropylene, NBR-sealing
- Angled spout,
- Plastic telescope suction pipe for 50 - 200 ltr.-barrels, connection thread 2"
- Approx. 0,25 ltr. / pass

### Hand lever piston pump model 13012/1

- For Diesel, fuel oil, lubes up to max. 150 mm<sup>2</sup>/s
- Zinc-coated steel, NBR-sealing
- Angled spout
- Plastic telescope suction pipe for 50 - 200 ltr.-barrels, connection thread 2"
- Approx. 0,3 ltr. / pass

### Hand lever piston pump model HP 840

- For Diesel, fuel oil, light lubes
- Aluminium, NBR-sealing
- Dispensing hose DN 18 x 1,5 m outlet pipe, lockable
- Steel suction pipe for 50 - 200 ltr.-barrels, connection thread 2"
- Approx. 0,3 ltr. / pass

### Hand lever piston pump model HP 800

- For Diesel, fuel oil, light lubes
- Aluminium, NBR-sealing
- Lockable, angled spout
- Steel suction pipe for 50 - 200 ltr.-barrels, connection thread 2"
- Approx. 0,35 ltr. / pass

### Hand lever piston pump model HP 910

- For Diesel, fuel oil, lubes up to max. 150 mm<sup>2</sup>/s
- Polypropylene, NBR-sealing
- Angled spit 360° rotatable
- Plastic telescope suction pipe for 50 - 200 ltr.-barrels, connection thread 2"
- Approx. 0,5 ltr. / pass

### Hand lever piston pump model HP 700

- For Diesel, fuel oil, light lubes
- Aluminium, NBR-sealing
- Angled spout, footprint for cans with overflow collecting
- Steel suction pipe for 50 - 200 ltr.-barrels, connection thread 2"
- Approx. 0,5 ltr. / pass, delivery without measuring cup

### Rotary vane pump model HP 100

- For Diesel, fuel oil, light lubes
- Aluminium, NBR-sealing
- Dispensing hose DN 18 x 1,5 m with outlet pipe and bend protection,
- Steel suction pipe for 50 - 200 ltr.-barrels, connection thread 2"
- Approx. 0,3 ltr. / round

part no.	price EUR
24 005	83,53
24 003	50,07
24 004	101,46
24 017	89,51
24 038	119,38
24 027	149,26
24 022	149,26



**Please note:**

\* Unless stated otherwise inflammable materials of hazard category R10, R11 and R12 (A1, All Gef.Kl.-VbF) are not permitted to be discharged.

\*\* Please pay attention when choosing the pumps that the used fluids won't damage the stated materials of the pumps.

**For self-lubricating non-aggressive fluids**

**Rotary vane pump model HP 113**

- For Diesel, fuel oil, light lubes
- Aluminium, NBR-sealing
- Angled spout DN 25,
- Steel suction pipe for 50 - 200 ltr.-barrels, connection thread 2"
- **Approx. 1,0 ltr. / round**

**Lift pump model LPS 25**

- For thin oils, coolant concentrate, glycerine, washing-up liquid
- Polypropylene, steel, NBR-sealing
- Angled spout, universal thread for all established connections on canisters,
- Suction pipe length 500 mm
- Approx. 0,25 ltr. / pass

**Lift pump model LPS 200**

- Identical with model LPS 25, but with
- Adapter for threads 2", suction pipe length 1000 mm

**Pneum. piston pump model AF 15**

- For Diesel, fuel oil, lubes up to max. 200 mm<sup>2</sup>/s
- Polypropylene, NBR-sealing
- Angled spout locable
- Plastic telescope suction pipe for 50 - 200 ltr.-barrels, connection thread 2"
- Compressed air drive system with ratio 1:1, max. 7 bar
- Max. 20 ltr. / min., depending on degree of viscosity

**Accessories**

**Dispensing hose type AS 25**

- For rotary piston pump model HP 113
- Hose NPS 25 x 1,5 m
- Outlet pipe

**Angled spout type AB 20**

- For rotary vane pump HP 100

**Level indicator model FA 200**

- Liquid level indicator for 200 ltr.-barrel, G 3/8"

**Key for barrels model FS 200**

- For 60-200 Ltr.-barrels



**Thread Adaptor Type GA-F**

- 2" female incl. 2 winged screws; for barrel w/o thread

**Adapter for barrels type GAO**

- Ext. th. Pressure coarse thread / int. th. 2" BSP

**Adapter for barrels type GAB**

- Ext. th. 2" Mauser coarse thread / int. th. 2" BSP

**Adapter for barrels type GAG**

- Ext. th. DIN 61/31 Ø 59 / int. th. 2" BSP

**Adapter for barrels type GA-M-AB**

- for Mauser-Barrels

**Adapter for barrels type**

- for Greif-Barrels

**IBC-Adapter Type GIBC-150**

- Screw Cap for IBC container, 2" BSP female
- Thread 155\*4 female, Ø 185 mm, DN 150

**IBC-Adapter Type GIBC-225**

- Screw Cap for IBC container, 2" BSP female
- Thread 155\*4 female, Ø 185 mm, DN 225

**Universal adapter type UAS**

- For lift pumps model LPS / LPC
- M 64x4 up to G 2"

part no.	price EUR
24 028	214,98
24 012	47,68
24 013	52,46
24 006	298,63
24 137	101,46
21 215	23,78
27 145	58,56
25 102	58,56
25 156	47,68
25 114	35,73
25 115	35,73
25 116	35,73
25 122	35,73
25 123	35,73
25 179	29,76
25 180	41,71
24 021	33,34





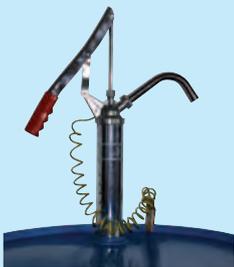
Mod. HPA



Mod. HPA-S



Mod. AF 10-AB



Mod. HPB



Mod. HPB 1

## For AdBlue®

### Hand lever piston pump model HPA

- For AdBlue
- Polypropylene, EPDM-sealing
- Angled spout
- Plastic suction pipe for 50 - 200 ltr.-barrels, AG 2"
- Approx. 0,3 ltr. / pass
- Adapter for barrell G 2" / ext. th. Mauter

### Hand lever piston pump model HPA-S

- Identical with model HPA but with
- Delivery hose, 1200 mm
- Delivery nozzle stainless steel, outside -Ø 19 mm

### Hand lever piston pump model AF 10-AB

- For AdBlue
- Polypropylene, EPDM-sealing
- Angled spout
- Plastic telescope suction pipe for 50 - 200 ltr.-barrels, connection thread 2"
- Approx. 0,25 ltr. / pass

### Hand lever piston pump model AF 10-AB-S

- Identical with model AF 10-AB, but with
- Delivery hose, 1200 mm
- Delivery nozzle stainless steel, outside -Ø 19 mm

## For Petrol

### Hand lever piston pump model HPB

- For petrol and 2-dtroke-mixture, inflammable fluids class R12
- Zinc-coated steel, Viton-sealing
- Angled spout
- Steel telescope suction pipe for 50 - 200 ltr.-barrels, ext. th. 2" and R11/2"
- Earth cable with clamp
- Approx. 0,35 ltr. / pass

### Hand lever piston pump model HPB 1

- For petrol or oil/petrol mixture, dangerous class R12
- Aluminum, viton seals
- Dispensing hose DN 19x1,5 m with rigid nozzle and bend protection
- Steel made telescopic suction pipe for 50-200 ltr. barrel
- Connection 2" and M64x4
- Ground cable with clamp
- Approx. 0,25 ltr. / stroke

part no.	price EUR
24 032	119,38
24 033	143,28
24 034	131,33
24 035	167,18
24 031	149,26
24 002	179,13



Mod. HPM 200



Mod. HP 111/1



Mod. HP 112

## For windscreen cleansing lotions

### Hand lever piston pump model HPM 200

- For windscreen cleansing lotions
- PPS (Ryton), stainless steel, Viton-sealing
- Angled spout, plastic telescope suction pipe for 50 - 200 ltr.-barrels, connection thread 2"
- Approx. 0,3 ltr. / pass

### Rotary vane pump model HP 111

- For windscreen cleansing lotions
- PPS (Ryton), Viton- and Teflon-sealing
- Angled spout
- Plastic suction pipe for 50 - 200 ltr.-barrels, AG 2"
- Approx. 0,3 ltr. / pass

### Rotary vane pump model HP 112

- For windscreen cleansing lotions
- Stainless steel 1.4301/PTFE, Viton- and PTFE-sealing
- Angled spout
- Plastic suction pipe for 50 - 200 ltr.-barrels, AG 2"
- Approx. 0,3 ltr. / pass

part no. price EUR

24 001 143,28

24 024 179,13

24 025 394,23

## Fluids and performance chart of hand pumps

part no.	model	suitable fluids	performance
23 042	G 60 HP	Gear oil up to SAE 90	0,25 ltr. / pass
24 001	HPM 200	Water and other aggressive fluids (GF AIII)	0,25 ltr. / pass
24 002	HPB 1	Petrol and simmilar	0,25 ltr. / pass
24 003	13012/1	Oil, diesel and coolant concentrate	0,25 ltr. / pass
24 004	HP 840	Oil, diesel and coolant concentrate	0,25 ltr. / pass
24 005	AF 10	Oil, diesel and coolant concentrate	0,25 ltr. / pass
24 006	AF 15	Oil, diesel and coolant concentrate	appr. 20 ltr. / min. (pneum.)
24 012	LPS 25	Lubes, diesel, fuel oil and other non-corrosive fluids	0,25 ltr. / pass
24 013	LPS 200	Lubes, diesel, fuel oil and other non-corrosive fluids	0,25 ltr. / pass
24 015	HPB 2	Petrol and simmilar	0,25 ltr. / round
24 016	HPB 2-Z	Petrol and simmilar	0,25 ltr. / round
24 017	HP 800	Oil, diesel and coolant concentrate	0,25 ltr. / pass
24 019	LPC 25	Chemicals, thinner, solvents, anti-freeze and cleaner	0,25 ltr. / pass
24 020	LPC 200	Chemicals, thinner, solvents, anti-freeze and cleaner	0,25 ltr. / pass
24 022	HP 100	Oil, diesel and coolant concentrate	0,25 ltr. / round
24 024	HP 111	Corrosive and volatile solvents, chemicals	0,35 ltr. / round
24 025	HP 112	Thin foods, acids and brines	0,35 ltr. / round
24 026	HP 110	Thin oil and less concentrated acids	0,35 ltr. / round
24 027	HP 700	Light mineral and machine oil	0,50 ltr. / pass
24 028	HP 113	Oil, diesel and coolant concentrate	1,00 ltr. / round
24 029	LPC 200/E	Thin fluids according to compability of material	0,25 ltr. / pass
24 031	HPB	Fuel and similar fluids	0,35 Ltr. ltr. / pass
24 032	HPA	AdBlue®	0,30 ltr. / round
24 033	HPA-S	AdBlue®	0,30 ltr. / round
24 034	AF 10-AB	AdBlue®	0,25 ltr. / pass
24 035	AF 10-AB-S	AdBlue®	0,25 ltr. / pass
24 038	HP 910	Oil, diesel and coolant concentrate	0,50 ltr. / pass

**Attention:**

Rapid oil pumps are only suitable for self lubricating medias, i.e. lube oil, cooler antifreeze concentrate (without water added)



Mod. OP 90 D 30/1



Mod. OP 90 D 30/1 K

**Please note:**

We recommend for all pneumatic pumps the additional use of a pressure reducing valve plus pressure gauge (see page 158).  
The compressed air must be oiled and water-free (pneumatic maintenance unit see page 158).  
The air admission of the pump must be interrupted after every use in order to avoid uncontrolled leakage of oil.

**Series OP 90**

These oil pumps are recommended for installation in pipings in connection with a hose reel even with hoses of up to 15 m, flow meters and anti drip outlet. these pumps have a very high discharge capacity, which saves you time and minimize your expenses.

**Performance:** (depending on degree of viscosity - see p. 240)

- **Pneumatic pump** max. 10 ltr./min
- Air inlet pressure max. 8 bar (115 PSI)

**Connections:**

- Compressed air connection: G 1/4" int. th. with ball valve, pressure limiter and pin
- Oil connection (discharge side): G 1/2" ex. th.
- Suction pipe: 860 mm

**Model OP 90 D 35/1**

- Barrel pump, incl. pressure reducer type D/M 06
- Ratio 1:1
- For max. **200 ltr.-barrels**
- 2" barrel connection

**Model OP 90 D 30/1**

- Barrel pump, incl. pressure reducer type D/M 06
- Identical with model OP 90 D 35/1, but with
- Ratio 1:3
- 2" barrel connection

**Model OP 90 D 25/1**

- Barrel pump, incl. pressure reducer type D/M 06
- Identical with model OP 90 D 35/1, but with
- Ratio 1:5
- 2" barrel connection

**Suction pipe for tanks see on page 151.**

Performance: (depending on degree of viscosity - see p. 240)

- Pneumatic pump max. 10 Ltr./min
- Air inlet pressure max. 8 bar (150 PSI)

**Connections:**

- Compressed air connection: G 1/4" int. th. with ball valve, pressure limiter and pin
- Oil connection (discharge side): G 1/2" ex. th.
- Oil connection (suction side): G 3/4" ex. th.

**Model OP 90 D 35/1 K**

- Short pump, incl. pressure reducer type D/M 06
- Ratio 1:1
- For **tanks** or **200 ltr.-barrels**
- Wall bracket

**Model OP 90 D 30/1 K**

- Short pump, incl. pressure reducer type D/M 06
- Identical with model OP 90 D 35/1 K, but with
- Ratio 1:3
- Wall bracket

**Model OP 90 D 25/1 K**

- Short pump, incl. pressure reducer type D/M 06
- Identical with model OP 90 D 35/1 K, but with
- Ratio 1:5
- Wall bracket

**Please note: Choose suction pipes suitable for the K-version (see page 158 and 159).**

**Accessories (see page 158 – 167).**

part no.	price EUR
20 001	376,43
20 002	376,43
20 003	436,18
20 004	376,43
20 005	376,43
20 006	436,18



Mod. OP 90 D 30/1 E

Inkl. D/M 06

**Please note:**

When using a pipeline a safety valve is needed on the discharge side (see page 158).



Mod. LAS 2.8/1



**Series OP 90 E**

**Calibratable / according to MID with certificate of EC type examination , DE-16-MI005-PTB026**  
For grease oil, special engine-, hydraulic - and gear oil when calibrated units are needed.

**Performance:** (depending on degree of viscosity - see p. 240)

- **Pneumatic pump** max. 10 ltr./min
- Air inlet pressure max. 8 bar (115 PSI)

**Connections:**

- Compressed air connection: G 1/4" int. th. with ball valve, pressure limiter and pin
- Oil connection (discharge side): G 1/2" ex. th.
- Suction pipe: 860 mm

**Model OP 90 D 35/1 E**

- Barrel pump, incl. pressure reducer type D/M 06
- Ratio 1:1
- For max. **200 ltr.-barrels**
- Incl. air separator LAS 1.0
- **Certificate of EC type examination, calibratable / according to MID**

**Model OP 90 D 30/1 E**

- Identical with model OP 90 D 35/1, but
- Ratio 1:3
- **Certificate of EC type examination, calibratable / according to MID**

**Model OP 90 D 25/1 E**

- Identical with model OP 90 D 35/1, but
- Ratio 1:5
- **Certificate of EC type examination, calibratable / according to MID**

Suction pipes see page 159

**Connections:**

- Compressed air connection: G 1/4" int. th. with ball valve, pressure limiter and pin
- Oil connection (discharge side): G 1/2" ex. th.
- Oil connection (suction side): G 3/4" ex. th.

**Model OP 90 D 35/1 K/E**

- Ratio 1:1
- For **tanks** or **200 ltr.-barrels**
- Incl. wall bracket
- Incl. separator LAS 2.8/1
- **Certificate of EC type examination, calibratable / according to MID**

**Model OP 90 D 30/1 K/E**

- Identical with model OP 90 D 35/1 K/E, but
- Ratio 1:3
- **Certificate of EC type examination, calibratable / according to MID**

**Model OP 90 D 25/1 K/E**

- Identical with model OP 90 D 35/1 K/E, but
- Ratio 1:5
- **Certificate of EC type examination, calibratable / according to MID**

**Please note: Choose suction pipes suitable for the K-version (see page 158 and 167).**

**Air separator LAS 2.8/1**

- Necessary for calibratable pneumatic pumps
- Also available for not-calibratable systems
- **Certificate of EC type examination**

**Air separator LAS 1.0**

- Necessary for calibratable pneumatic pumps
- Also available for not-calibratable systems
- **Certificate of EC type examination**

Accessories (see page 158 - 167)

part no.	price EUR
20 007	507,88
20 008	507,88
20 009	567,63
20 010	663,23
20 011	663,23
20 012	711,03
20 500	316,68
20 700	178,06

**Attention:**

Rapid oil pumps are only suitable for self lubricating medias, i.e. lube oil, cooler antifreeze concentrate (without water added)



Mod. OP 110 D 30



Mod. OP 110 D 30 K

**Please note:**

We recommend for all pneumatic pumps the additional use of a pressure reducing valve plus pressure gauge (see page 158).  
The compressed air must be oiled and water-free (pneumatic maintenance unit see page 158).  
The air admission of the pump must be interrupted after every use in order to avoid uncontrolled leakage of oil.

**Series OP 110**

This series has a much higher conveying performance as usual pneumatic oil pumps. Therefore you can use it e.g. for industrial oil supply units, at garages with more than three oil supply units or in oil decanting units.

**Performance:** (depending on degree of viscosity - see p. 240)

- Conveying performance depends on degree of viscosity and temperature as well as on the resistance of suction and pressure pipes - max. approx. 15 ltr./min
- Air inlet pressure max. 8 bar (150 PSI)

**Connections:**

- Compressed air connection: 1/4" with ball valve, pressure limiter and pin
- Oil connection (discharge side): 3/4" ex. th.
- Oil connection suction pipe: 1" x 860 mm

**Model OP 110 D 35**

- Barrel pump, incl. pressure reducer type D/M 06
- Ratio 1:1
- For max. **200 ltr.-barrels**
- 2" barrel connection

**Model OP 110 D 30**

- Barrel pump, incl. pressure reducer type D/M 06
- Identical with model OP 110 D 35, but with Ratio 1:3

**Model OP 110 D 25**

- Barrel pump, incl. pressure reducer type D/M 06
- Identical with model OP 110 D 35, but with Ratio 1:5

**Suction pipes see page 159**

**Performance:** (depending on degree of viscosity - see p. 240)

- Conveying performance depends on degree of viscosity and temperature as well as on the resistance of suction and pressure pipes - max. approx. 15 ltr./min
- Air inlet pressure max. 8 bar (115 PSI)

**Connections:**

- Compressed air connection: 1/4" with ball valve, pressure limiter and pin
- Oil connection (discharge side): 3/4" ex. th.
- Oil connection (suction side): 1" int. th.

**Model OP 110 D 35 K**

- Short pump, incl. pressure reducer type D/M 06
- Ratio 1:1
- For **tanks** or **200 ltr.-barrels**
- Wall bracket

**Model OP 110 D 30 K**

- Short pump, incl. pressure reducer type D/M 06
- Identical with model OP 110 D 35 K, but Ratio 1:3
- Wall bracket

**Model OP 110 D 25 K**

- Short pump, incl. pressure reducer type D/M 06
- Identical with model OP 110 D 35 K, but Ratio 1:5
- Wall bracket

**Please note: Choose suction pipes suitable for the K-version (see page 158 - 159).**

**Accessories (see page 158 – 167)**

part no.	price EUR
20 015	555,68
20 016	555,68
20 017	615,43
20 018	555,68
20 019	555,68
20 020	615,43



Mod. OP 110 D 30 E

Inkl. D/M 06

**Please note:**

We recommend for all pneumatic pumps the additional use of a pressure reducing valve plus pressure gauge (see page 158).



Mod. LAS 2.8/1



**Series OP 90 E**

**Calibratable / according to MID with certificate of EC type examination , DE-16-MI005-PTB026**

For lubricant oil, special engine-, hydraulic - and gear oil, to be connected to oil pressure pipe.

**Performance:** (depending on degree of viscosity - see p. 240)

- Conveying performance depends on degree of viscosity and temperature as well as on the resistance of suction and pressure pipes - max. approx. 15 ltr./min
- Air inlet pressure max. 8 bar (115 PSI)

**Connection:**

- Compressed air connection: G 1/4" with ball valve, pressure limiter and pin
- Oil connection (discharge side): G 1/2" ex. th.
- Suction pipe: 860 mm

**Model OP 110 D 35 E**

part no.

price EUR

20 021

687,13

- Barrel pump, incl. pressure reducer type D/M 06
- Ratio 1:1
- For max. **200 ltr.-barrels**
- 2" barrel connection
- Incl. air rejecting device LAS 1.0

■ **Certificate of EC type examination, calibratable / according to MID**

**Model OP 110 D 30 E**

20 022

687,13

- Barrel pump, incl. pressure reducer type D/M 06
- Identical with model OP 110 D 35, but
- Ratio 1:3

■ **Certificate of EC type examination, calibratable / according to MID**

**Model OP 110 D 25 E**

20 023

746,88

- Barrel pump, incl. pressure reducer type D/M 06
- Identical with model OP 110 D 35, but
- Ratio 1:5

■ **Certificate of EC type examination, calibratable / according to MID**

**Suction pipes see page 159**

**Model OP 110 D 35 K/E**

20 024

782,73

- Barrel pump, incl. pressure reducer type D/M 06
- Ratio 1:1
- For **tanks** or **200 ltr.-barrels**
- Incl. wall bracket
- Incl. air rejecting device LAS 2.8/1

■ **Certificate of EC type examination, calibratable / according to MID**

**Model OP 110 D 30 K/E**

20 025

782,73

- Barrel pump, incl. pressure reducer type D/M 06
- Identical with model OP 110 D 35 K/E, but
- Ratio 1:3

■ **Certificate of EC type examination, calibratable / according to MID**

**Model OP 110 D 25 K/E**

20 026

830,53

- Barrel pump, incl. pressure reducer type D/M 06
- Identical with model OP 110 D 35 K/E, but
- Ratio 1:5

■ **Certificate of EC type examination, calibratable / according to MID**

**Please note: Choose suction pipes suitable for the K-version (see page 158 and 159).**

**Air separator LAS 2.8/1**

20 500

316,68

- Necessary for calibratable pneumatic pumps
- Also available for not-calibratable systems
- **Certificate of EC type examination**

**Air separator LAS 1.0**

(without illustr.)

20 700

178,06

- Necessary for calibratable pneumatic pumps
- Also available for not-calibratable systems
- **Certificate of EC type examination**

**Accessories (siehe Seite 158 – 167)**



**Please note:**  
We recommend for all pneumatic pumps the additional use of a pressure reducing valve plus pressure gauge (see page 158).  
The compressed air must be oiled and water-free (pneumatic maintenance unit see page 158).  
The air admission of the pump must be interrupted after every use in order to avoid uncontrolled leakage of oil.



### Series OP 115

These oil pumps are recommended for all industrial applications and special truck bodies. This series has a much higher conveying performance and longevity.

**Performance:** (depending on degree of viscosity - see p. 240)

- Conveying performance depends on degree of viscosity and temperature as well as on the resistance of suction and pressure pipes - **max. approx. 40 - 45 ltr./min**
- Air inlet pressure max. 12 bar (180 PSI)

#### Connections:

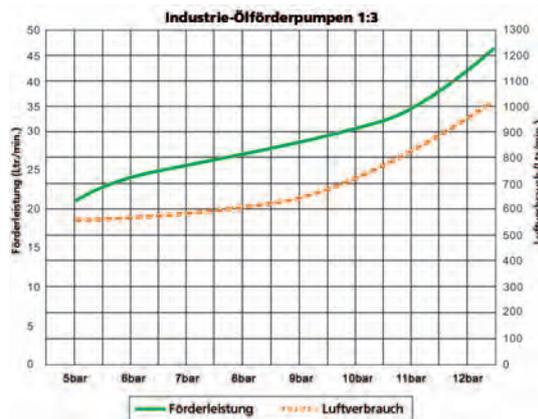
- Compressed air connection: 1/4" with ball valve, pressure limiter and pin
- Oil connection (discharge side): 3/4" ex. th.
- Oil connection suction pipe: 2", 860 mm

### Model OP 115 D 30

- Barrel pump, incl. pressure reducer type D/M 06
- Ratio 1:3
- For max. **200 ltr.-barrels**
- 2" barrel connection

### Model OP 115 D 25

- Barrel pump, incl. pressure reducer type D/M 06
- Identical with model OP 115 D 35, but
- Ratio 1:5



### Model OP 115 D 30 K

- Short pump, incl. pressure reducer type D/M 06
- Ratio 1:3
- Wall bracket
- Oil connection suction pipe: 2", 270 mm

### Model OP 115 D 25 K

- Short pump, incl. pressure reducer type D/M 06
- Identical with model OP 115 D 35 K, but
- Ratio 1:5

### Accessories

#### Mounting bracket type M/OP 115

- For pneum. pump type OP 115 K

#### Suction hose type SG 25-1.5

- G 1" int. th., 1,5 m incl. check valve and filter

#### Suction hose type SG 25-2.5

- G 1" int. th., 2,5 m incl. check valve and filter

#### Suction pipe switching type SGU 25

- To assemble 2 suction pipes, NPS 25

For further accessories see page 158 – 167

part no.	price EUR
20 033	1.308,53
20 032	1.308,53
20 031	1.248,78
20 030	1.248,78
20 740	185,23
20 525	124,88
20 618	136,83
20 717	166,11



Inkl. D/M 06

**Please note:**

We recommend for all pneumatic pumps the additional use of a pressure reducing valve plus pressure gauge (see page 158).



Inkl. D/M 06

**Series OP 115**

**Calibratable / according to MID with certificate of EC type examination , DE-16-MI005-PTB026**

For lubricant oil, special engine-, hydraulic - and gear oil, to be connected to oil pressure pipe.

**Performance:** (depending on degree of viscosity - see p. 240)

- Conveying performance depends on degree of viscosity and temperature as well as on the resistance of suction and pressure pipes - **max. approx. 40 - 45 ltr./min**
- Air inlet pressure max. 8 bar (115 PSI)

**Connection:**

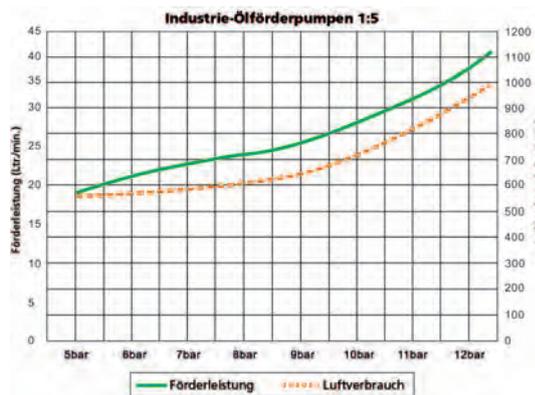
- Compressed air connection: G 1/4" with ball valve, pressure limiter and pin
- Oil connection (discharge side): G 3/4" ex. th.
- Suction pipe: 1", 860 mm

**Model OP 115 D 30 E**

- Barrel pump, incl. pressure reducer type D/M 06
- Ratio 1:3
- For max. **200 ltr.-barrels**
- 2" barrel connection
- **Certificate of EC type examination, calibratable / according to MID**

**Model OP 115 D 25 E**

- Barrel pump, incl. pressure reducer type D/M 06
- Identical with model OP 115 D 35, but
- Ratio 1:5
- **Certificate of EC type examination, calibratable / according to MID**



**Model OP 115 D 30 K/E**

- Short pump, incl. pressure reducer type D/M 06
- Ratio 1:3
- Incl. wall bracket
- Oil connection (suction side): 2", 270 mm
- **Certificate of EC type examination, calibratable / according to MID**

**Model OP 115 D 25 K/E**

- Short pump, incl. pressure reducer type D/M 06
- Identical with model OP 115 D 35 K, but
- Ratio 1:5
- **Certificate of EC type examination, calibratable / according to MID**

**Accessories**

**Mounting bracket type M/OP 115**

- For pneum. pump type OP 115 K

**Suction hose type SG 25-1.5**

- G 1" int. th., 1,5 m incl. check valve and filter

**Suction hose type SG 25-2.5**

- G 1" int. th., 2,5 m incl. check valve and filter

**Suction pipe switching type SGU 25**

- To assemble 2 suction pipes, DN 25

For further accessories refer to page 158 – 167

part no. price EUR

20 037 1.571,43

20 036 1.571,43

20 035 1.702,88

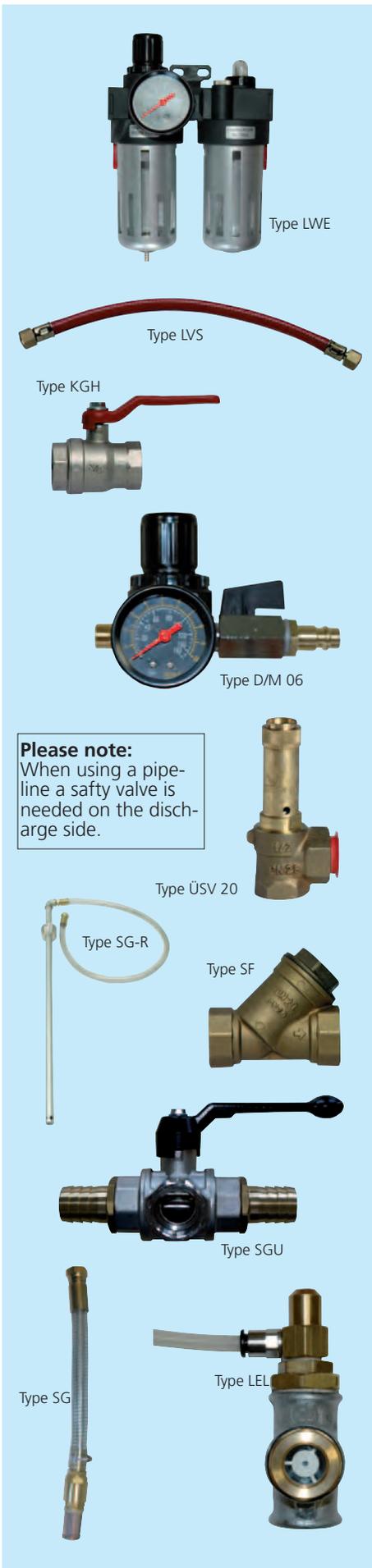
20 034 1.702,88

20 740 185,23

20 525 124,88

20 618 136,83

20 717 166,11



**Please note:**  
When using a pipe-line a safety valve is needed on the discharge side.

**For pneumatic pumps:**

**Pneumatic maintenance unit type LWE 06**

- With fog oiler, filter and water separator, G 1/4" int. th. / int. th.

**Pneumatic maintenance unit type LWE 10**

- With fog oiler, filter and water separator, G 3/8" int. th. / int. th.

**Pneumatic maintenance unit type LWE 12**

- With fog oiler, filter and water separator, G 1/2" int. th. / int. th.

**Flex. connection for compr. air type LVS 01.10**

- 1 m long, NPS 10, armoured on both ends, G 3/8" int. th.

**Flex. connection for compr. air type LVS 02.10**

- 2 m long, NPS 10, armoured on both ends, G 3/8" int. th.

**Ball valve type KGH 10**

- G 3/8" int. th. for air pipe

**Pressure reducing valve type D/M 06**

- Incl. manometer, G 3/8" ex. th. / 1/4" int. th.

**Pressure reducing valve type D31**

- Adjusted to 6 bar, G 3/8" ex. th. / 1/4" ex. th.

**Relief valve type ÜSV 20**

- Max. 20 bar, to be installed into the pipeline inc. 2 m return hose

**Dust trap type SF 12**

- NPS 12 to be installed into the pipeline G 1/2" int. th.

**Dust trap type SF 20**

- NPS 20 to be installed into the pipeline G 3/4" int. th.

**Dust trap type SF 25**

- NPS 25 to be installed into the pipeline G 1" int. th.

**Suction pipe type SG-R**

- Suction NPS 20, 860 mm long
- Barrel connection, 2 m suction pipe NPS 20

**Suction pipe type SG 20-1,5**

- G 3/4" int. th., 1,5 m incl. bottom valve + filter

**Suction pipe type SG 20-2,5**

- G 3/4" int. th., 2,5 m incl. bottom valve + filter

**Suction pipe type SG 25-1,5**

- G 1" int. th., 1,5 m incl. bottom valve + filter

**Suction pipe type SG 25-2,5**

- G 1" int. th., 2,5 m incl. bottom valve + filter

**Suction pipe type SG 32-1,5**

- G 1 1/4" int. th., 1,5 m incl. bottom valve + filter

**Suction pipe type SG 32-2,5**

- G 1 1/4" IG, 2,5 m incl. bottom valve + filter

**Suction pipe change over type SGU 20**

- For the assembling of 2 suction pipes, NPS 20

**Suction pipe change over type SGU 25**

- For the assembling of 2 suction pipes, NPS 25

**Suction pipe change over type SGU 32**

- For the assembling of 2 suction pipes, NPS 32

**Pipe ventilation type LEL**

- For built into oil supply pipeline
- Inspection glass with white reflector, ventilation screw and flexible ventilation pipe made of PA, NPS 08
- Connection thread 3/4" female, height approx. 115 mm
- PN 16 Ø-inspection glass 18 mm

part no.	price EUR
20 537	51,27
20 501	89,63
20 502	113,53
20 503	17,33
20 504	19,72
20 505	10,64
20 506	50,79
20 507	37,64
20 508	190,60
20 509	25,69
20 510	32,86
20 567	38,84
20 558	233,03
20 511	98,59
20 512	111,73
20 525	124,88
20 618	136,83
20 710	230,04
20 711	256,33
20 716	118,31
20 717	166,11
20 719	285,61
20 730	149,38



**For pneumatic pumps:**

**Suction hose detent type SG 2K**

■ For G 2", plastic, 2 openings, NPS 20 and 08

**Suction hose detent type SG 25K**

■ For G 2", plastic, 2 openings, NPS 25 and 08

**Suction hose detent type SG 20**

■ For G 2", alumin., 2 openings, NPS 20 and 08

**Suction hose detent type SG 25**

■ For G 2", alumin., 2 openings, NPS 20 and 08

**Mounting bracket type M/OP 90/110**

■ For pneumatic pump type OP 90 / 110

**Mounting bracket type M/OP 115**

■ For pneumatic pump type OP 115 K

**Flex. connection hose for oil type ÖVS ½.12**

■ ½ m, NPS 12, armoured, G 1/2" int. th. / int. th.

**Flex. connection hose for oil type ÖVS 01.12**

■ 1 m, NPS 12, armoured, G 1/2" int. th. / int. th.

**Flex. connection hose for oil type ÖVS ½.20**

■ ½ m, NPS 20, armoured, G 3/4" int. th. / int. th.

**Flex. connection hose for oil type ÖVS 01.20**

■ 1 m, NPS 20, armoured, G 3/4" int. th. / int. th.

**Flex. hose acc. to TRbF 231 T1 type ÖFR ½.12**

■ ½ m long, NPS 12, armoured on both sides, G 1/2" int. / ex. th.

**Flex. hose acc. to TRbF 231 T1 type ÖFR ½.16**

■ ½ m long, DN 16, armoured on both sides, G 3/4" int. / ex. th.

**Ball valve type KGH 12**

■ G 1/2" int. th. for oil pressure lines

**Ball valve type KGH 20**

■ G 3/4" int. th. for oil pressure lines

**Ball valve type KGH 25**

■ G 1" int. th. for oil pressure lines

**Ball valve type KGH 32**

■ G 1 1/4" int. th. for oil pressure lines

**Ball valve type KGH 50**

■ G 2" IG int. th. for oil pressure lines

**3-way ball valve type KGH 3/12**

■ G 1/2" int. th. for oil pressure lines

**3-way ball valve type KGH 3/20**

■ G 3/4" int. th. for oil pressure lines

**3-way ball valve type KGH 3/25**

■ G 1" int. th. for oil pressure lines

**3-way ball valve type KGH 3/32**

■ G 1 1/4" int. th. for oil pressure lines

**3-way ball valve type KGH 3/50**

■ G 2" int. th. for oil pressure lines

**Dry-running prevention type FLA (without ill.)**

■ Level switch for pump

**Electr. switch.off type MV 100**

■ Magnetic valve G 1/4" int. th., 15 bar, 230 V, 100% ED for air pipe, closed when currentless

**Suction pipe type SG-R 800**

■ Suction pipe for tanks T/S 700 and T/R 400

■ For pneumatic pumps OP 90 und OP 110

**Suction pipe type SG-R 1100**

■ Suction pipe for tanks T/R 750 and T/R 1000

■ For pneumatic pumps OP 90 und OP 110

**Suction pipe type SG-R 1300**

■ Suction pipe for tanks T/S 1000

■ For pneumatic pumps OP 90 und OP 110

**Suction pipe type SG-R 1540**

■ Suction pipe for tanks T/R 1500

■ For pneumatic pumps OP 90 und OP 110

part no.	price EUR
20 515	24,98
20 731	24,98
20 516	116,99
20 732	116,99
20 668	44,81
20 740	185,23
20 733	41,23
20 734	41,23
20 735	56,76
20 736	56,76
20 636	131,33
20 637	197,06
20 560	13,03
20 561	15,42
20 562	22,59
20 559	52,46
20 563	91,90
20 645	65,61
20 646	78,75
20 647	118,19
20 648	197,06
20 649	328,51
24 148	352,53
20 564	197,18
20 758	46,61
20 759	58,56
20 760	70,51
20 761	82,46

**Attention:**

Rapid oil pumps are only suitable for self lubricating medias, i.e. lube oil, cooler antifreeze concentrate (without water added)



Mod. OP 140 E



Mod. OP 160 ED

**Please note:**

When using a piping system a relief valve must be installed on the discharge side (see page 162). After finishing the tapping process the current entry should be cut off to avoid uncontrolled oil discharge!

**Series OP/E, not-calibratable**

These pumps are designed to deal with lubricant oils, special engine oils, hydraulic- and gear oils and to be connected to oil pressure lines.

**Performance:** (depending on degree of viscosity - see p. 240)

- Alternating or three way current connection
- Oil pressure max. 10 bar

**Connection:**

- Oil con. (disch. side): G 3/4" int. th. (G 1" int. th.)
  - Oil con. (suc. side) : G 3/4" int. th. (G 1" ex. th.)
- Data in brackets are for OP 170 and OP 190

**Motor oil pumps**

**Model OP 140 E/1**

- Return hose and wall bracket
- On-off-switch
- Ready to plug in
- **Performance 0,55 kW / 230 V**
- Discharge cap. up to 9 ltr./min dep. on visc.

**Model OP 140 ED/1**

- Identical with model OP 140 E, but with
- **Incl. pump control type DW/1**

**Model OP 160 ED/1**

- Identical with model OP 140 ED, but with
- **Performance 0,55 kW / 400 V**
- **Incl. pump control type DW 2**
- Discharge cap. up to 9 ltr./min dep. on visc.

**Model OP 170 ED/1**

- Identical with model OP 160 ED, but with
- **Performance 0,75 kW / 400 V,**
- **Incl. pump control type DW 2**
- Discharge cap. up to 14 ltr./min dep. on visc.

**Model OP 190 ED/1**

- Identical with model OP 160 ED/1, but
- **Performance 1,1 kW / 400 V**
- **Incl. pump control type DW 2**
- Discharge cap. up to 17 ltr./min dep. on visc.

**Gear oil pumps**

**Model OP 145 E**

- Return hose and wall bracket
- On-off-switch
- Ready to plug in
- **Performance 1,1 kW / 230 V**
- Discharge cap. up to 7 ltr./min dep. on visc.

**Model OP 145 ED**

- Identical with model OP 145 E, but
- **Incl. pump control type DW/1**

**Model OP 165 ED**

- Identical with model OP 145 ED, but
- **Performance 1,1 kW / 400 V**
- **Incl. pump control type DW 2**
- Discharge cap. up to 7 ltr./min dep. on visc.

part no.	price EUR
20 110	535,36
20 111	810,21
20 100	941,66
20 101	1.073,11
20 102	2.268,11
20 114	798,26
20 118	1.097,01
20 119	1.371,86

**Attention:**

Rapid oil pumps are only suitable for self lubricating medias, i.e. lube oil, cooler antifreeze concentrate (without water added)



**Please note:**

When using a piping system a relief valve must be installed on the discharge side (see page 162). After finishing the tapping process the current entry should be cut off to avoid uncontrolled oil discharge!

**Series OP/E, calibratable**

**Calibratable / according to MID with certificate of EC type examination, DE-16-MI005-PTB026**

For lubricant oil, special engine-, hydraulic - and gear oil, to be connected to oil pressure pipe.

**Performance:** (depending on degree of viscosity - see p. 240)

- Alternating or three way current connection
- Oil pressure max. 10 bar

**Connection:**

- Oil con. (disch. side): G 3/4" int. th. (G 1" int. th.)
  - Oil con. (suc. side) : G 3/4" int. th. (G 1" ex. th.)
- Data in brackets are for OP 145, OP 165 and OP 190

**Motor oil pumps**

**Model OP 140 E/E/1**

- Return hose and wall bracket
- On-off-switch
- Ready to plug in
- **Performance 0,55 kW / 230 V**
- Discharge cap. up to 9 ltr./min dep. on visc.
- **Certificate of EC type examination, calibratable / according to MID**

**Model OP 140 ED/E/1**

- Identical with model OP 140 ED/E, but with
- **Incl. pump control type DW/1**
- **Certificate of EC type examination, calibratable / according to MID**

**Model OP 160 ED/E/1**

- Identical with model OP 140 ED/E, but with
- **Performance 0,55 kW / 230 V**
- **Incl. pump control type DW 2**
- Discharge cap. up to 9 ltr./min dep. on visc.
- **Certificate of EC type examination, calibratable / according to MID**

**Model OP 170 ED/E/1**

- Identical with model OP 160 ED/E/1, but
- **Performance 0,75 kW / 400 V**
- **Incl. pump control type DW 2**
- Discharge cap. up to 14 ltr./min dep. on visc.
- **Certificate of EC type examination, calibratable / according to MID**

**Model OP 190 ED/E/1**

- Identical with model OP 160 ED/E/1, but
- **Performance 1,1 kW / 400 V**
- **Incl. pump control type DW 2**
- Discharge cap. up to 17 ltr./min dep. on visc.
- **Certificate of EC type examination, calibratable / according to MID**

**Gear oil pumps**

**Model OP 145 E/E**

- Return hose and wall bracket
- On-off-switch
- Ready to plug in
- **Performance 1,1 kW / 230 V**
- **Certificate of EC type examination, calibratable / according to MID**
- Discharge cap. up to 7 ltr./min dep. on visc.

**Model OP 145 ED/E**

- Identical with model OP 145 E/E, but
- **Incl. pump control type DW/1**

**Modell OP 165 ED/E**

- Identical with model OP 145 ED/E, but
- **Performance 1,1 kW / 400 V**
- **Inkl. Pumpensteuerung Typ DW 2**
- **Certificate of EC type examination, calibratable / according to MID**
- Discharge cap. up to 7 ltr./min dep. on visc.

**part no. price EUR**

**20 112 834,11**

**20 113 1.108,96**

**20 103 1.252,36**

**20 104 1.371,86**

**20 105 2.566,86**

**20 120 1.097,01**

**20 121 1.395,76**

**20 122 1.670,61**



Type M/OP



Type SG-R



Type SG

Type ZSG



Type ÖVS



Type ÖFR



Type KGH



Type KGH 3



Type ÜSV 14

**For electric pumps:**

**Mounting console type M/OP**

■ Incl. vibration absorber for OP 140 E - 170 ED/E

**Mounting console type M/OP 190**

■ Incl. vibration absorber for OP 190 ED/E

**Suction hose type SG 20-1,5**

■ G 3/4" int. th., 1,5 m with bottom valve + filter

**Suction hose type SG 20-2,5**

■ G 3/4" int. th., 2,5 m with bottom valve + filter

**Suction hose type SG 25-1,5**

■ G 1" int. th., 1,5 m with bottom valve + filter

**Suction hose type SG 25-2,5**

■ G 1" int. th., 2,5 m with bottom valve + filter

**Suction hose type SG 32-1,5**

■ G 1 1/4" int. th., 1,5 m with bottom valve + filter

**Suction hose type SG 32-2,5**

■ G 1 1/4" int. th., 2,5 m with bottom valve + filter

**Suction pipe type SG-R**

■ Suction pipe NPS 20, 860 mm length

■ Barrel connection, 2 m suction hose NPS 20

**3-way forced change-over type ZSG 20**

■ For the assembling of 2 suction pipes, NPS 20

**3-way forced change-over type ZSG 25**

■ For the assembling of 2 suction pipes, NPS 25

**3-way forced change-over type ZSG 32**

■ For the assembling of 2 suction pipes, NPS 32

**Flex. connection hose for oil type ÖVS 1/2.12**

■ 1/2 m long, NPS 12, armoured, G 1/2" int.th./int.th.

**Flex. connection hose for oil type ÖVS 01.12**

■ 1 m long, NPS 12, armoured, G 1/2" int.th./int.th.

**Flex. connection hose for oil type ÖVS 1/2.20**

■ 1/2 m long, NPS 20, armoured, G 3/4" int.th./int.th.

**Flex. connection hose for oil type ÖVS 01.20**

■ 1 m long, NPS 20, armoured, G 3/4" int.th./int.th.

**Flex. pipe acc. to TRbF 231 T1 Typ ÖFR 1/2.12**

■ 1/2 m long, NPS 12, armoured, G 1/2" int.th./ex.th.

**Flex. pipe acc. to TRbF 231 T1 Typ ÖFR 1/2.16**

■ 1/2 m long, NPS 16, armoured, G 1/2" int.th./ex.th.

**Ball valve type KGH 12**

■ G 1/2" int. th. for oil pressure line

**Ball valve type KGH 20**

■ G 3/4" int. th. for oil pressure line

**Ball valve type KGH 25**

■ G 1" int. th. for oil pressure line

**Ball valve type KGH 32**

■ G 1 1/4" int. th. for oil pressure line

**Ball valve type KGH 50**

■ G 2" int. th. for oil pressure line

**3-way ball valve type KGH 3/12**

■ G 1/2" int. th. for oil pressure line

**3-way ball valve type KGH 3/20**

■ G 3/4" int. th. for oil pressure line

**3-way ball valve type KGH 3/25**

■ G 1" int. th. for oil pressure line

**3-way ball valve type KGH 3/32**

■ G 1 1/4" int. th. for oil pressure line

**3-way ball valve type KGH 3/50**

■ G 2" int. th. for oil pressure line

**Relief valve type ÜSV 14**

■ To be installed in the pipeline  
incl. 2 m return hose to the tank, max. 14 bar.

part no.	price EUR
20 538	98,59
20 721	125,48
20 511	98,59
20 512	111,73
20 525	124,88
20 618	136,83
20 710	230,04
20 711	256,33
20 558	233,03
20 513	221,08
20 674	280,83
20 720	340,58
20 733	41,23
20 734	41,23
20 735	56,76
20 736	56,76
20 636	131,33
20 637	197,06
20 560	13,03
20 561	15,42
20 562	22,59
20 559	52,46
20 563	91,90
20 645	65,61
20 646	78,75
20 647	118,19
20 648	197,06
20 649	328,51
20 568	190,60



**For electric pumps:**

**Dust trap type SF 12**

- NPS 12 to be installed in the pipeline G 1/2" int.th.

**Dust trap type SF 20**

- NPS 20 to be installed in the pipeline G 3/4" int.th.

**Dust trap type SF 25**

- NPS 25 to be installed in the pipeline G 1" int.th.

**Relief valve type ÜSV 14**

- To be installed in the pipeline incl. 2 m return hose to the tank, max. 14 bar.

**Pipe ventilation type LEL**

- For built into oil supply pipeline
- Inspection glass with white reflector, ventilation screw and flexible ventilation pipe made of PA, NPS 08
- Connection thread 3/4" female, height approx. 115 mm
- PN 16 Ø-inspection glass 18 mm

**Suction hose detent type SG 2K**

- For G 2", plastic, 2 openings, NPS 20 and 08

**Suction hose detent type SG 25K**

- For G 2", plastic, 2 openings, NPS 25 and 08

**Suction hose detent type SG 20**

- For G 2", alumin., 2 openings, NPS 20 and 08

**Suction hose detent type SG 25**

- For G 2", alumin., 2 openings, NPS 20 and 08

**Drip pan type TS 400**

- To be mounted under the pump
- Pan height 50 mm
- Dim. approx. 400 x 250 x 125 mm (L x W x H)

**Drip pan type TS 800**

- To be mounted under the pump
- Pan height 50 mm
- Dim. approx.. 400 x 250 x 125 mm (L x W x H)

**Pressure switch type D16**

- Incl. motor protective relay, 16 bar, 400 V

**Pressure switch type D16/2**

- Incl. motor protective relay, 16 bar, 230 V

**Pump control type DW/1**

- Pressure regulated control
- Safety valve
- Relief valve
- Manometer
- For 230 V drive, up to approx. 10 l/min.

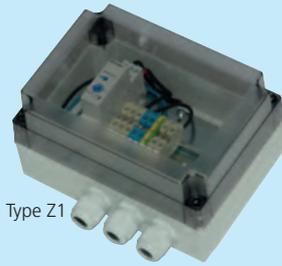
**Pump control type DW 2**

- Pressure regulated control
- Safety valve
- Relief valve
- For 400 V drive, up to approx. 15 ltr./min.

**Dry-running prevention type FLA**

- Level switch to control the pump

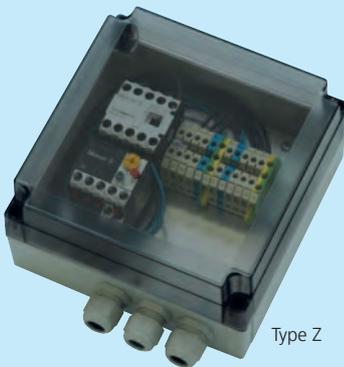
part no.	price EUR
20 509	25,69
20 510	32,86
20 567	38,84
20 568	190,60
20 730	149,38
20 515	24,98
20 731	24,98
20 516	116,99
20 732	116,99
20 570	197,18
20 589	256,93
20 596	256,93
20 638	256,93
20 639	393,16
20 718	524,61
24 148	352,53



Type Z1



Type LS



Type Z



Type EAS



Type TA



Type NA



Type NAS



Type WWS



Type HS

**Pump control**

**Contactor type Z1**

- Timer relay for the control of operation time of pumps from 3 to 60 min.
- Protection against environmental damage by limitation of the operation time of pump
- Control box, wired

**Power contactor type LS**

- Contactor to operate pneumatic or electric pumps or other electronic devices. Could be used in timer relay, dry-running prevention, level indicator or other controlling devices for operating electric pumps or other electronic devices.
- For e-motor 230 V or 400 v
- Control box, wired

**Contactor type Z**

- Identical with type LS, but with
- Motor protective relay, to be used for electric pump model OP 140 to OP 190
- For electric motor up to 1,1 kW
- Control box - wired

**On-off-switch type EAS**

- With control lamp

**Push button type TA**

- Push button with control lamp

**Emergency shut-off type NA**

- Emergency switch off button
- To break electric circuit in case of emergency or failure

**emergency shut-off with key type NAS**

- Emergency switch off by key release
- To break electric circuit in case of emergency or failure

**Mode -/ reversing -switch type WWS**

- Mode-/reversing -switch as knob-switch to switch between different electric circuits (230V-400V) as for example contactor, electric pump, pneumatic pumps in connection with solenoid valve.

**Main switch type HS**

- On/off switch as knob-switch to operate main electric circuits (230 V - 400 V) of electric controlled oil plants.

part no.	price EUR
20 569	452,91

20 771	452,91
--------	--------

20 599	584,36
--------	--------

20 565	173,28
--------	--------

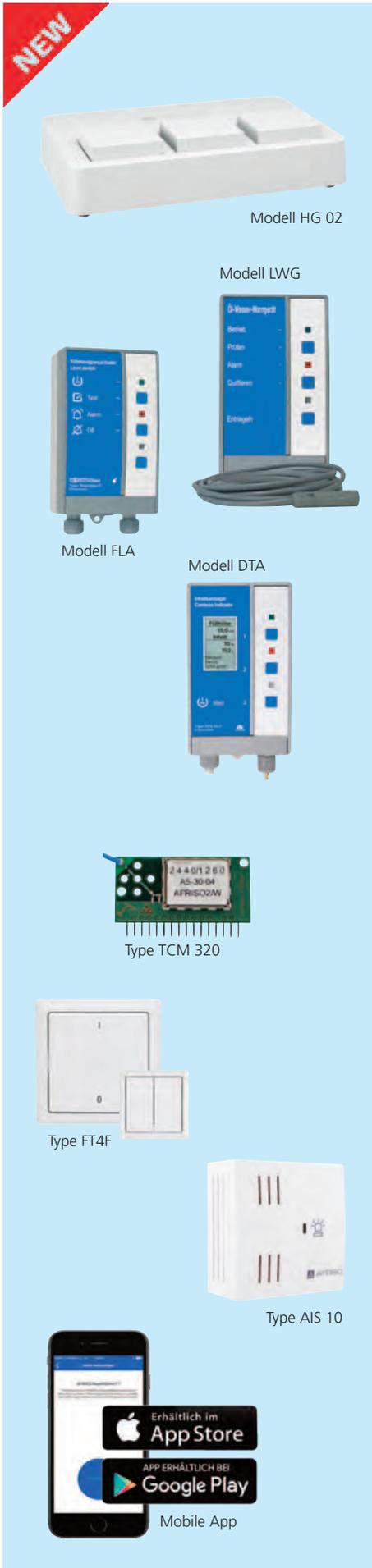
20 595	113,53
--------	--------

20 772	113,53
--------	--------

20 773	149,38
--------	--------

20 774	89,63
--------	-------

02 775	113,53
--------	--------



## Smart pump control and monitoring

Smart pump control and monitoring. Besides the Gateway and App you can choose a large variety of professional sensors and actuators for various applications.

### Gateway Model HG 02

For control and management of all sensors and actuators with EnOcean®

- Basic module of your management system
- Communication by WLAN and LAN
- Wide variety of combination with EnOcean® compatible products

### Dry-running prevention type FLA

- Level switch for pump
- Warning unit with probe for level control
- With acustical and visual signal
- Protection IP 30
- **EnOcean®-ready**

### Leakage indicator type LWG

- For fresh and waste oil storage conforming GF A III VbF
- Warning unit with probe for level control
- With acustical and visual signal
- Protection IP 30
- **EnOcean®-ready**

### Digital Level Indicator for Tank type DTA

Multipurpose level indicator for tank, for continuous level measuring

- Multipurpose use for container up to 4 m height
- Density from 0,5 up to 1,5 g/cm<sup>3</sup>, variably adjustable, therefor to be used for different liquids
- Digital display with background lighting
- Applied operation languages Englisch French, German
- Battery powered, no external supply voltage necessary
- Push-To-Read function: Quick start by keystroke
- Remote measurement
- **EnOcean®-ready**

### Accessories

#### EnOcean® Wireless Module Type TCM 320

For retrofitting to circuit boards, which are factory fitted with a slot for EnOcean® remote module.

- For upgrading of leakage indicator LWG and dry running prevention model FLA to EnOcean® technology

#### Wireless Switch Type FT4F

Wireless Switch for multipurpose use

- With rocker plate or double rocker
- **EnOcean® compatible**

#### Indoor Hooter Type AIS 10

Wireless indoor hooter for multi-purpose

- Loud alarm 90 dB
- Possible to use as stand-alone device without Gateway
- Wired device for direct mounting in a safety socket 230 v
- **EnOcean® compatible**

#### Mobile App

Intuitional app for connection and operation of wireless modules by Gateway device.

- Control and operation anywhere
- Available for iOS and Android
- Free of charge at any App-Store
- **EnOcean® compatible**

part no.	price EUR
20 729	835,31
24 148	352,53
27 104	460,08
27 163	388,38
20 762	106,36
20 763	130,26
20 764	225,86



Type ÖVS



Type ÖVS



Type ÖVS



Type ÖVS



Type ÖVS

**Dispensing hoses for oil and air**

■ Armoured on both side, G 1/2" ex./int.th., max. 50 bar

Type AVS 1/2.12	0,5 m NPS 12, ex./int.th.
Type AVS 01.12	1 m NPS 12, ex./int.th.
Type AVS 02.12	2 m NPS 12, ex./int.th.
Type AVS 03.12	3 m NPS 12, ex./int.th.
Type AVS 04.12	4 m NPS 12, ex./int.th.
Type AVS 05.12	5 m NPS 12, ex./int.th.
Type AVS 10.12	10 m NPS 12, ex./int.th.
Type AVS 15.12	15 m NPS 12, ex./int.th.
Type AVS 20.12	20 m NPS 12, ex./int.th.

■ Armoured on both side, G 3/4" ex./int.th., max. 45 bar

Type AVS 1/2.16	0,5 m NPS 16, ex./int.th.
Type AVS 01.16	1 m NPS 16, ex./int.th.
Type AVS 02.16	2 m NPS 16, ex./int.th.
Type AVS 03.16	3 m NPS 16, ex./int.th.
Type AVS 04.16	4 m NPS 16, ex./int.th.
Type AVS 05.16	5 m NPS 16, ex./int.th.
Type AVS 10.16	10 m NPS 16, ex./int.th.
Type AVS 15.16	15 m NPS 16, ex./int.th.
Type AVS 20.16	20 m NPS 16, ex./int.th.

■ Armoured on both side, G 3/4" ex./int.th., max. 45 bar

Type AVS 1/2.20	0,5 m NPS 20, ex./int.th.
Type AVS 01.20	1 m NPS 20, ex./int.th.
Type AVS 02.20	2 m NPS 20, ex./int.th.
Type AVS 03.20	3 m NPS 20, ex./int.th.
Type AVS 04.20	4 m NPS 20, ex./int.th.
Type AVS 05.20	5 m NPS 20, ex./int.th.
Type AVS 10.20	10 m NPS 20, ex./int.th.
Type AVS 15.20	15 m NPS 20, ex./int.th.
Type AVS 20.20	20 m NPS 20, ex./int.th.

■ Armoured on both side, G 1" ex./int.th., max. 40 bar

Type AVS 1/2.25	0,5 m NPS 25, ex./int.th.
Type AVS 01.25	1 m NPS 25, ex./int.th.
Type AVS 02.25	2 m NPS 25, ex./int.th.
Type AVS 03.25	3 m NPS 25, ex./int.th.
Type AVS 04.25	4 m NPS 25, ex./int.th.
Type AVS 05.25	5 m NPS 25, ex./int.th.
Type AVS 10.25	10 m NPS 25, ex./int.th.
Type AVS 15.25	15 m NPS 25, ex./int.th.
Type AVS 20.25	20 m NPS 25, ex./int.th.

■ Armoured on both side, G 1 1/4" ex./int.th., max. 35 bar

Type AVS 1/2.32	0,5 m NPS 32, ex./int.th.
Type AVS 01.32	1 m NPS 32, ex./int.th.
Type AVS 02.32	2 m NPS 32, ex./int.th.
Type AVS 03.32	3 m NPS 32, ex./int.th.
Type AVS 04.32	4 m NPS 32, ex./int.th.
Type AVS 05.32	5 m NPS 32, ex./int.th.
Type AVS 10.32	10 m NPS 32, ex./int.th.
Type AVS 15.32	15 m NPS 32, ex./int.th.
Type AVS 20.32	20 m NPS 32, ex./int.th.

■ Special armoring for AVS, on both sides with cap nut, additional charge

Type ÖVS 2M12	int.th. 1/2"
Type ÖVS 2M16	int.th. 3/4"
Type ÖVS 2M20	int.th. 3/4"
Type ÖVS 2M25	int.th. 1"
Type ÖVS 2M32	int.th. 1 1/4"

part no.	price EUR
20 548	41,23
20 517	41,23
20 518	47,20
20 519	54,37
20 520	60,35
20 521	67,52
20 522	108,15
20 523	142,80
20 524	178,65
20 549	54,37
20 550	54,37
20 551	65,13
20 552	73,49
20 553	81,86
20 554	87,83
20 555	134,44
20 556	175,07
20 557	221,67
20 539	56,76
20 540	56,76
20 541	67,52
20 542	75,88
20 543	86,64
20 544	95,00
20 545	148,78
20 546	196,58
20 547	250,35
20 659	71,10
20 660	71,10
20 661	86,64
20 662	98,59
20 663	111,73
20 664	124,88
20 665	190,60
20 666	256,33
20 667	322,05
20 679	110,54
20 680	110,54
20 681	136,83
20 682	164,31
20 683	190,60
20 684	241,99
20 685	320,86
20 686	452,31
20 687	513,25
20 692	6,57
20 693	8,96
20 694	8,96
20 695	11,35
20 696	25,69

Double nipple see page 167



Type DN



Type RN



Type RM



Type RSV-S



Type RSV-G



Type SSK 20 GR



Type HS 20



Type HK 20

### Double nipple

Type DN 06	NPS 06,	1/4" ex. th. / 60°
Type DN 10	NPS 10,	3/8" ex. th. / 60°
Type DN 12	NPS 12,	1/2" ex. th. / 60°
Type DN 20	NPS 20,	3/4" ex. th. / 60°
Type DN 25	NPS 25,	1" ex. th. / 60°
Type DN 32	NPS 32,	1 1/4" ex. th. / 60°
Type DN 50	NPS 50,	2" ex. th.

### Reduction-nipple

Type RN 10 - 06	NPS 10-06,	3/8" - 1/4" ex. th. / 60°
Type RN 12 - 10	NPS 12-10,	1/2" - 3/8" ex. th. / 60°
Type RN 20 - 12	NPS 20-12,	3/4" - 1/2" ex. th. / 60°
Type RN 25 - 20	NPS 25-20,	1" - 3/4" ex. th. / 60°
Type RN 32 - 25	NPS 32-25,	1 1/4" - 1" ex. th. / 60°
Type RN 25 - 12	NPS 25-12,	1" - 1/2" ex. th. / 60°
Type RN 32 - 20	NPS 32-20,	1 1/4" - 3/4" ex. th. / 60°

### Reduction-muffing

Type RM 10 - 06	NPS 10-06,	3/8" int.th. - 1/4" int.th.
Type RM 12 - 10	NPS 12-10,	1/2" int.th. - 3/8" int.th.
Type RM 20 - 12	NPS 20-12,	3/4" int.th. - 1/2" int.th.
Type RM 25 - 20	NPS 25-20,	1" int.th. - 3/4" int.th.
Type RM 32 - 25	NPS 32-25,	1 1/4" int.th. - 1" int.th.
Type RM 25 - 12	NPS 25-12,	1" int.th. - 1/2" int.th.

### Return valve

Type RSV 12-S	NPS 12,	1/2" int.th. tilted
Type RSV 12-G	NPS 12,	1/2" int.th. straight
Type RSV 20-S	NPS 20,	3/4" int.th. tilted
Type RSV 20-G	NPS 20,	3/4" int.th. straight
Type RSV 25-S	NPS 25,	1" int.th. tilted
Type RSV 25-G	NPS 25,	1" int.th. straight
Type RSV 32-S	NPS 32,	1 1/4" int.th. tilted
Type RSV 32-G	NPS 32,	1 1/4" int.th. straight
Type RSV 50-S	NPS 50,	2" int.th. tilted
Type RSV 50-G	NPS 50,	2" int.th. straight

### Hydraulic clutch / -plug

Type SSK 20 GR	clutch, DN 20,	3/4" IG
Type STÜ 20	plug, DN 20,	1/2" AG
Type HK 20	clutch, DN 20,	3/4" IG
Type HS 20	plug, DN 20,	3/4" IG

Special sizes on request.

part no.	price EUR
20 621	5,38
20 622	6,57
20 623	10,16
20 624	11,35
20 625	26,17
20 626	39,32
20 627	53,66

20 628	5,38
20 629	6,57
20 630	7,77
20 631	14,22
20 632	39,32
20 633	26,17
20 634	39,32

20 704	5,38
20 705	6,57
20 706	7,77
20 707	14,22
20 708	39,32
20 709	26,17

20 526	38,84
20 527	25,69
20 528	51,98
20 529	31,67
20 530	60,83
20 531	39,32
20 532	87,12
20 533	52,46
20 534	165,99
20 535	78,75

50 530	143,28
50 511	71,58
20 601	143,28
20 603	59,63



Mod. 9.10.12

Mod. 9.15.12

Type WP 9

Type MP 9/W

Mod. WSR 4

## Series 9

These series contains a release spring, which facilitates multiple detents per complete rotation for best use. It is easily mounted with four screws.

### Model 9.10.12/1

Open Version

- Automatic hose reel varnished version partly galvanized
- Variable Outlet window with PVC rollers
- Base made out of galvanised steel
- **Incl. 10 m rubber hose** NPS 12 and buffer
- Axial-swivel joint, G 1/2" ex.th./int.th., max. 50 bar
- Dim. approx. 460 x 200 x 460 mm (L x W x H), 17 kg
- Optional: Rapid-SCS® - controlled reeling technology

### Model 9.15.12/1

- Identical with model 9.10.12/1, but
- **Incl. 15 m rubber hose** NPS 12
- Axial-swivel joint, G 1/2" ex.th./int.th., max. 50 bar
- Dim. approx. 490 x 200 x 490 mm (L x W x H), 21 kg

### Model 9.06.16/1

- Identical with model 9.15.12/1, but
- **Incl. 6 m rubber hose** NPS 16
- Axial-swivel joint G 3/4" int.th/G 1/2" ex.th., max. 45 bar
- Dim. approx. 490 x 200 x 490 mm (L x W x H), 22 kg

### Model 9.10.16/1

- Identical with model 9.15.12/1, but
- **Incl. 10 m rubber hose** NPS 16
- Axial-swivel joint G 3/4" int.th/G 1/2" ex.th., max. 45 bar
- Dim. approx. 490 x 200 x 490 mm (L x W x H), 22 kg

### Model 9.08.16-V/1

- Identical with 9.10.16/1, but
- **Incl. 8 m vacuum hose** NPS 16

### Model 9.08.20-V/1

- Identical with 9.10.16/1, but
- **Incl. 8 m vacuum hose** NPS 20

## Accessories

### Type Rapid-SCS

- Additional charge for Rapid-SCS series 9

### Type WP 9

- Swivelable mounting plate 120° for series 9
- Pivot angle lockable, galvanised

### Type MP 9/W

- Angled mounting plate for series 9

## Cabinet for hose reels

Housing steel sheet, to be opened with plastic shutter. For mounting at wall, including drip tray and drain screw.

### Model WSR 4

- Could take up to 4 hose reels series 9
- Dim. approx. 1050 x 600 x 630 mm (L x W x H)

### Model WSR 2

- Could take up to 2 hose reels series 5
- Dim. approx. 1050 x 600 x 630 mm (L x B x H)

## Additional freight charges for models WSR

part no.	price EUR
09 003	476,81
09 004	620,21
09 006	488,76
09 007	632,16
09 064	584,36
09 069	644,11
09 599	166,11
09 500	77,68
09 545	82,46
09 600	1.069,53
09 601	1.069,53
	Request



Mod. 9.10.12-GS



Mod. 9.15.12-GS



Type MSV 9 GS



Type WP 9-GS



Type 9-GS/W



Type MP 9

## Series 9-GS

These series contains a release spring, which facilitates multiple detents per complete rotation for best use. It is easily mounted with four screws.

### Model 9.10.12-GS/1

#### Enclosed version

- Automatic hose reel, sheet steel
- Varnished sheet steel case
- Outlet window with plastic rollers
- **Incl. 10 m rubber hose** NPS 12 and buffer
- Axial-swivel joint, G 1/2" ex./int.th., max. 50 bar
- Dim. approx. 590 x 200 x 500 mm (L x W x H), 21 kg

### Model 9.15.12-GS/1

- Identical with model 9.10.12-GS/1, but with
- **Incl. 15 m rubber hose** NPS 12
- Axial-swivel joint, G 1/2" ex./int.th.
- Dim. approx. 590 x 200 x 500 mm (L x W x H), 25 kg

### Model 9.08.16-GS/1

- Identical with model 9.15.12-GS/1, but with
- **Incl. 8 m rubber hose** NPS 16
- Axial-swivel joint, G 3/4" int.th./G 1/2" ex.th., max. 45 bar
- Dim. approx. 590 x 200 x 500 mm (L x W x H), 26 kg

### Model 9.10.16-GS/1

- Identical with model 9.15.12-GS/1, but with
- **Incl. 10 m rubber hose** NPS 16
- Axial-swivel joint, G 3/4" int.th./G 1/2" ex.th., max. 45 bar
- Dim. approx. 590 x 200 x 500 mm (L x W x H), 27 kg

### Model 9.08.16-VGS/1

- Identical with model 9.10.16-GS/1, but with
- **Incl. 8 m vacuum hose** NPS 16

### Model 9.08.20-VGS/1

- Identical with model 9.10.16-GS/1, but with
- **Incl. 8 m vacuum hose** NPS 20

## Accessories:

### Type Rapid-SCS

- Additional charge for Rapid-SCS Series 9-GS

### Modul cover for hose reels

The modul cover is made out of stainless steel and designed in one unit. It is suitable for overhead or wall assembly as well as columns.

#### Type MSV 9 GS

- 1 x for two reels series 9 GS

#### Type MSV 9 GS-L

- 1 x per unit, for left side ending

### Wall panels for hose reels

#### Type WP 9-GS

- Swivelable mounting plate 120° for series 9-GS
- Pivot angle lockable, galvanised

### Angled mounting plate for hose reels

#### Type MP 9-GS/W

- Angled mounting plate for series 9-GS

### Mounting plates for hose reels

#### Type MP 9/2 for two reels of series 9

#### Type MP 9/3 for three reels of series 9

#### Type MP 9/4 for four reels of series 9

#### Type MP 9/2-GS for two reels of series 9-GS

#### Type MP 9/3-GS for three reels of series 9-GS

#### Type MP 9/4-GS for four reels of series 9-GS

part no. price EUR

09 047 584,36

09 048 727,76

09 049 596,31

09 050 739,71

09 065 679,96

09 070 751,66

09 597 166,11

09 547 106,36

09 548 130,26

09 514 89,63

09 546 82,46

09 531 190,01

09 505 225,86

09 515 273,66

09 540 309,51

09 541 333,41

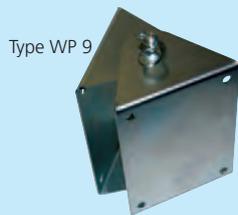
09 544 357,31



Mod. 9.10.12/E/1



Mod. 9.15.12/E/1



Type WP 9



Type MP 9/E

## Series 9/E

These hose reels are designed with release spring and a detent possibility for optimal use. They can be easily mounted on the wall or on the floor with 4 screws.

### Model 9.10.12/E/1

Open Version

- Automatic hose reel, entirely made out of stainless steel (E)
- Variable Outlet window with PVC rollers
- **Incl. 10 m rubber hose** NPS 12 and buffer
- Axial-swivel joint, G 1/2" ex.th./int.th., max. 50 bar
- Dim. approx. 486 x 200 x 486 mm (L x W x H), 17 kg
- **Optional: Rapid-SCS®** - controlled reeling technology

### Model 9.15.12/E/3

- Identical with model 9.10.12/E/1, but
- **Incl. 15 m rubber hose** NPS 12
- Axial-swivel joint, G 1/2" ex.th./int.th., max. 50 bar
- Dim. approx. 486 x 200 x 490 mm (L x W x H), 21 kg

### Model 9.08.16/E/2

- Identical with model 9.15.12/E/1, but
- **Incl. 8 m rubber hose** NPS 16
- Axial-swivel joint G 3/4" int.th./G 1/2" ex.th., max. 45 bar
- Dim. approx. 490 x 200 x 490 mm (L x W x H), 22 kg

### Model 9.10.16/E/3

- Identical with model 9.15.12/E/1, but
- **Incl. 10 m rubber hose** NPS 16
- Axial-swivel joint G 3/4" int.th./G 1/2" ex.th., max. 45 bar
- Dim. approx. 490 x 200 x 490 mm (L x W x H), 24 kg

### Model 9.06.16-V/E/1

- Identical with model 9.10.16/E/1, but
- **Incl. 6 m vacuum hose** NPS 16

### Model 9.08.20-V/E/2

- Identical with model 9.10.16/E/1, but
- **Incl. 6 m vacuum hose** NPS 20

## Accessories

### Type Rapid-SCS

- Additional charge for Rapid-SCS series 9/E

### Angled mounting plate for hose reels

#### Type WP 9-GS/E

- Swivelable mounting plate 120° for series 9-GS
- Pivot anlje lockable, galvanised

### Mounting plates for hose reels

#### Type MP 9/2/E for two reels of series 9/E

#### Type MP 9/3/E for three reels of series 9/E

#### Type MP 9/4/E for four reels of series 9/E

#### Type MP 9/2-GS/E for two reels of series 9-GS/E

#### Type MP 9/3-GS/E for three reels of series 9-GS/E

#### Type MP 9/4-GS/E for four reels of series 9-GS/E

part no.	price EUR
09 010	608,26
09 011	751,66
09 013	620,21
09 014	763,61
09 087	715,81
09 088	775,56
09 598	213,91
09 579	209,13
09 584	297,56
09 583	321,46
09 586	345,36
09 587	417,06
09 588	440,96
09 589	464,86



Mod. 9.10.12-GS/E/1



Mod. 9.15.12-GS/E/1



Type WP 9-GS/E



Type MP 9/E

## Series 9-GS

These hose reels are designed with release spring and a detent possibility for optimal use. They can be easily mounted on the wall or on the floor with 4 screws.

### Model 9.10.12-GS/E/1

#### Closed Version

- Automatic hose reel, entirely made out of stainless steel (E)
- Variable Outlet window with PVC rollers
- **Incl. 10 m rubber hose** NPS 12 and buffer
- Axial-swivel joint, G 1/2" ex.th./int.th., max. 50 bar
- Dim. approx. 486 x 200 x 486 mm (L x W x H), 21 kg
- **Optional: Rapid-SCS®** - controlled reeling technology

### Model 9.15.12-GS/E/1

- Identical with model 9.10.12-GS/E/1, but with
- **Incl. 15 m rubber hose** NPS 12
- Axial-swivel joint, G 1/2" ex./int.th.
- Dim. approx. 486 x 200 x 486 mm (L x W x H), 25 kg

### Model 9.08.16-GS/E/2

- Identical with model 9.15.12-GS/E/1, but with
- **Incl. 8 m rubber hose** NPS 16
- Axial-swivel joint, G 3/4" int.th./G 1/2" ex.th., max. 45 bar
- Dim. approx. 486 x 200 x 486 mm (L x W x H), 26 kg

### Model 9.10.16-GS/E/1

- Identical with model 9.15.12-GS/E/1, but with
- **Incl. 10 m rubber hose** NPS 16
- Axial-swivel joint, G 3/4" int.th./G 1/2" ex.th., max. 45 bar
- Dim. approx. 486 x 200 x 486 mm (L x W x H), 27 kg

### Model 9.08.16-VGS/E/1

- Identical with model 9.10.16-GS/E/1, but with
- **Incl. 8 m rubber hose** NPS 16

### Model 9.08.20-VGS/E/2

- Identical with model 9.10.16-GS/E/1, but with
- **Incl. 8 m rubber hose** NPS 20

## Accessories

### Type Rapid-SCS

- Additional charge for Rapid-SCS Series 9-GS/E

### Angled mounting plate for hose reels

#### Type WP 9-GS/E

- Swivelable mounting plate 120° for series 9-GS
- Pivot anlage lockable, galvanised

### Mounting plates for hose reels

#### Type MP 9/2/E for two reels of series 9/E

#### Type MP 9/3/E for three reels of series 9/E

#### Type MP 9/4/E for four reels of series 9/E

#### Type MP 9/2-GS/E for two reels of series 9-GS/E

#### Type MP 9/3-GS/E for three reels of series 9-GS/E

#### Type MP 9/4-GS/E for four reels of series 9-GS/E

part no.	price EUR
09 110	739,71
09 111	883,11
09 112	751,66-
09 113	895,06
09 114	835,31
09 115	907,01
09 596	213,91
09 579	209,13
09 584	297,56
09 583	321,46
09 586	345,36
09 587	417,06
09 588	440,96
09 589	464,86

**Please note:**

Please order outlet pipe separately!  
(see page 175)

We recommend the use of axial swivel joint for oil when using flow meters (please order separately).



**Flow meter, digital**

These volume meter systems allow an accurate and reliable measurement. The LCD-display gives immediate and perfect ratings. The meter mechanism is an oval gear meter.

Flow max.: 1-35 ltr./min (1-10 ltr./min)  
 Operating pressure: 50 or 70 bar (10 - 40 bar)  
 Operating temperature: 0° up to 50° C or 70° C  
 Metering accuracy: ±0,5 % (±0,3 % calibrat.)  
 Degree of viscosity: SAE 5 - SAE 240  
 (Data in brackets applies for **calibratable** meters)

**Model LCD 18/1**

- Resetable LCD-display 5-digits / 8 mm
- Non-resetable totalizer, G 1/2" int.th.

**Model LCD 18 E**

- Resetable LCD-display 6-digits / 12 mm
- Non-resetable totalizer, G 1/2" int.th.
- **Calibratable / according to MID**  
optional with calibration certificate

**Model LCD 18 K**

- Resetable LCD display 5-digit / mm
- Not resettable totalizer thread 1/2 female
- **For antifreeze**

**Model LCD 18 S**

- Resetable LCD display 5-digit / mm
- Not resettable totalizer thread 1/2 female
- **For windscreen cleaner**

**Rubber protective ring type SR-RUND**

- For manual flow meters with round totaliser housing

**Model LCD 19**

- Resetable LCD-display 5-digits / 8 mm
- Non-resetable totalizer, G 3/4" int.th.



**Model LCD 50**

- Pre-set meter, 6 x pre-selection saving
- Resetable LCD-display 5-digits / 10 mm
- Non-resetable totalizer, G 1/2" int.th.
- Pre-selection in steps of 0,1ltr.

**Model LCD 50 RFZ**

**Radio technology**

- Pre-set meter, incl. solenoid valve + transmitter
- Without permission no tapping possible
- Resetable LCD-display 5-digits / 10 mm
- Non-resetable totalizer, G 1/2" int.th.
- Cable free communication between meter and operating unit (only in connec. with MDS-RFZ)

**Model LCD 50 RFZ/E**

**Radio technology**

- Identical with LCD 50 RFZ, but
- With inspection glass and 30° outlet
- **Calibratable / according to MID**

**Add. charge for calibrat. certificate per meter type VEZ**

part no.	price EUR
21 003	297,56
21 004	584,36
21 021	656,06
21 022	656,06
21 508	23,78
21 018	417,06
21 006	835,31
21 011	1.552,31
21 012	1.671,81
21 505	65,73

**Please note:**

Please order outlet pipe separately!  
(see page 175)

We recommend the use of axial swivel joint for oil when using flow meters (please order separately).



### Flow meter, digital

These volume meter systems allow an accurate and reliable measurement. The LCD-display gives immediate and perfect ratings. The meter mechanism is an oval gear meter.

Flow max.: 1-35 ltr./min  
 Operating pressure: 50 bar  
 Operating temperature: 0° up to 50° C  
 Metering accuracy: ±0,5 %  
 Degree of viscosity: SAE 5 - SAE 240

#### Model LCD 20

- Resetable LCD-display 5-digits / 8 mm
- Non-resetable totalizer, G 1/2" int.th.
- 90° angled outlet

### Flow meter, mechanical

The meter mechanism consists of a measuring chamber and oscillating-piston and form together with the cover the basic meter. The measuring chamber, the oscillating-piston and the meter cover are made out of aluminium.

Flow max.: 1-10 ltr./min  
 Operating pressure: 100 bar (10 or 40 bar)  
 Operating temperature: -10°C up to + 50°C  
 Metering accuracy: ±0,65% (±0,3%)  
 Degree of viscosity: SAE 5 – SAE 240  
 scale diameter: 80 mm  
 Weight: 2 kg

(Data in brackets applies for **calibratable** meters)

#### Model 18 230

- All kinds of oil, indicating range 10 ltr.
- Resetable two handed mechanism
- Non-resetable totalizer
- Connection G 1/2" int.th.

#### Model 30096-14

- All kind of oil, indicating range 60 ltr.
- Quantity pre-selection, 1 - 60 ltr.
- Meter shuts off automatically after dispensing pre-set quantity
- Resetable double counting mechanism
- Non-resetable totalizer
- Connection G 1/2" int.th.

#### Model MS 111 E, calibratable

- Calibratable with certificate
- All kind of oil, indicating range 0 ltr.
- Inspection glass to control a bubble-free dispensing
- Resetable double counting mechanism
- Non-resetable totalizer
- Connection G 1/2" int.th.

**Add. charge for calibrat. certificate per meter type VEZ**

### Accessories

#### Inspection glass type KA

- For type ZP, model KAS and model LCD/E

#### Inspection glass type MS

- For model MS/E

part no.	price EUR
21 002	536,56
21 100	751,66
21 101	859,21
21 103	895,06
21 505	65,73
21 501	51,27
21 500	66,80



### For oil supply:

#### Nozzle type ZP 12

- For engine oil, hydraulic oil, gear oil, etc.
- Connection G 1/2" int.th., without outlet pipe

#### Nozzle type ZP 12/K

- For coolant and cleaning agent
- Connection G 1/2" int.th., delivery with outlet pipe and swivel joint

#### Nozzle type ZP 20/2



- For engine oil, hydraulic oil, gear oil, etc. .
- Connection G 3/4" int.th., delivery with outlet pipe

#### Nozzle type ZP 20/2 E



- For engine oil, hydraulic oil, gear oil, etc.
- Incl. inspection glass
- Connection G 3/4" int.th., delivery with outlet pipe

### In-line meter

#### In-line meter model LCD 18 U

- Resetable LCD-display 5-digits / 8 mm
- Non-resetable totalizer, G 1/2" int.th.

#### In-line meter LCD 18 U/M, according to MID

- Resetable LCD-display 6-digits / 12 mm
- Non-resetable totalizer, G 1/2" int.th.

#### Certificate of EC type examination, calibratable / according to MID

#### In-line meter LCD 18 UK

- Resetable LCD-display 5-digits / 8 mm
- Non-resetable totalizer, G 1/2" int.th.

#### For coolant

#### In-line meter LCD 18 US

- Identical with model LCD 18 UK, but
- For cleaning agent & AdBlue®

### Measuring unit / pulse transmitter

#### Type IPG 2000

- In-line meter 1-15 ltr./min, 1 x per kind of oil
- Pulse transmitter, electrical 1 x 100 ppL
- **Not-calibratable**

#### Type IPG 2000 E

- In-line meter 1-15 ltr./min, 1 x per kind of oil
- Pulse transmitter, electrical 2 x 100 ppL
- **Certificate of EC type examination, calibratable / according to MID**

#### Type IPG 2000 K

- In-line meter 1-15 ltr./min, 1 x per coolant
- Pulse transmitter, electrical 1 x 100 ppL
- **Not-calibratable**

#### Type IPG 2000 B

- Identical with model IPG 2000 K, but for cleaning agent & AdBlue®
- **Not-calibratable**

part no.	price EUR
21 300	77,56
21 303	130,26
21 301	262,78
21 302	328,51
21 005	381,21
21 008	536,56
21 009	536,56
21 010	536,56
26 100	297,56
26 101	668,01
26 111	476,81
26 112	476,81



**For oil supply:**

**Axial-swivel joint type ÖDG 12**

- For nozzles and flow meter
- Connection G 1/2" int./ex.th.

**Axial-swivel joint type ÖDG 12/K**

- Made out of brass, for water, coolant and cleaning agent
- Connection G 1/2" int./ex.th.

**Axial-swivel joint type Typ ÖDG 12/K**

- For nozzles and flow meter
- Connection G 3/4" int./ex.th.

**Inspection glass type KA**

- For type ZP, model KAS and model LCD/E

**Inspection glass type MS**

- For model MS/E

Please order outlet pipe separately!

**Outlet pipe type AR-MV 12**

- Angled with screw snout
- For engine and gear oil

**Outlet pipe type AR-M 12**

- Angled with anti-drip snout
- For engine oil

**Outlet pipe type AR-M 20**

- Angled with anti-drip snout
- For engine oil

**Outlet pipe type AR-G 12**

- Angled with anti-drip snout
- For gear oil

**Outlet pipe type AF-M 12**

- Angled with anti-drip snout
- For engine oil

**Outlet pipe type AF-G 12**

- Angled with anti-drip snout
- For gear oil

Further accessories see on page 139

**Colour coordination type FKZ**

- For flow meter and nozzles with swivel joint type ÖDG 12

**Colour RED type FKZ red**

21 210 8,25

**Colour YELLOW type FKZ yellow**

21 211 8,25

**Colour BLACK type FKZ black**

21 212 8,25

**Colour GREEN type FKZ green**

21 213 8,25

**Colour BLUE type FKZ blue**

21 214 8,25

**Wall holder type WH 12**

- For flow meter and nozzle

21 205 65,61

**Wall holder type WH 12 PLK**

- For flow meter and nozzle, large version, height 800 mm
- Specifically for tanks series T/R und T/S (see on page 80 and 81)

21 206 107,43

**Wall holder type WH 12 M/T**

- Specifically for tanks series M/T (see on page 83)

21 218 131,33

**Automatic-nozzle type DZP 20**

- For diesel, without type approval

28 116 190,01

**Automatic-nozzle type DZP 20-B**

- For diesel, incl. type approval

28 100 237,81

**Automatic-nozzle type DZP 20 Z**

- For diesel, incl. type approval, with counter

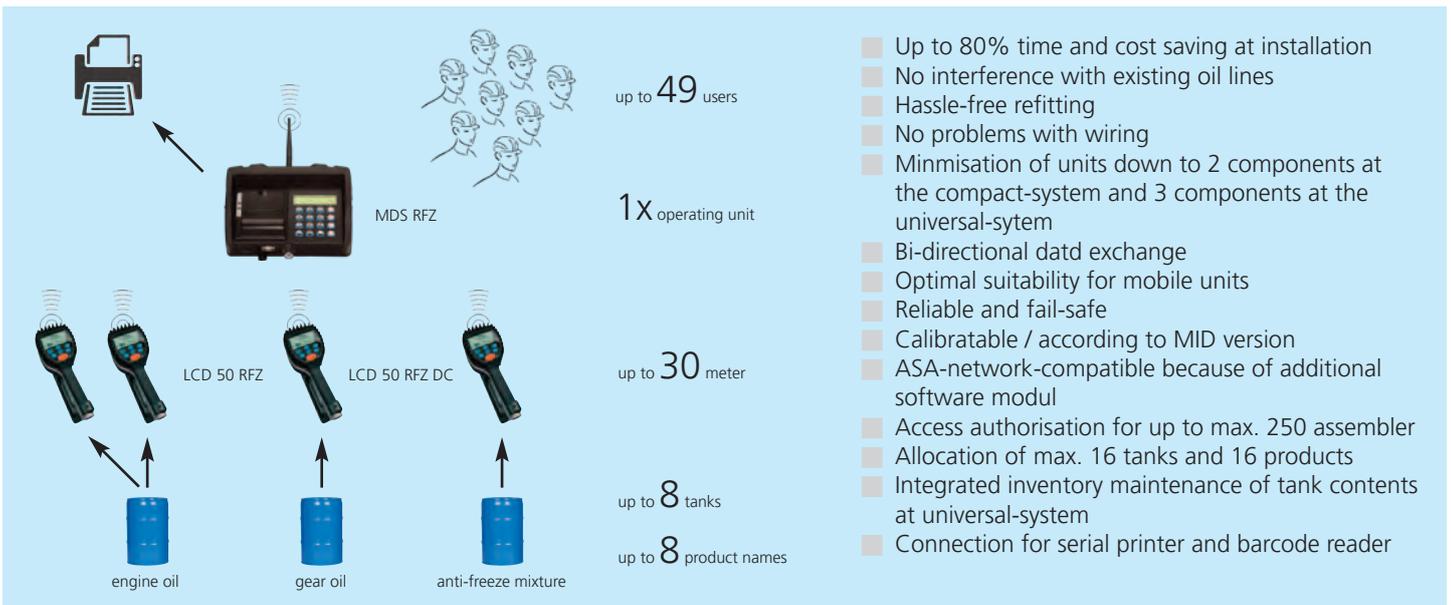
28 115 333,41

**Automatic-nozzle type DZP 25**

- For diesel, without type approval

28 101 237,81

## Oil management with radio technology "Basic"



The compact-system consists of a operating unit with integrated printer MDS-RF, not calibratable or MDS-RF/E, calibratable and up to 30 release counter LCD 50 RFZ and LCD 50 RFZ DC both are **not-calibratable**



### Oil management with radio technology

This cable-free innovation creates a new dimension in the oil management of workshops. This radio technology was especially designed for garages. The cable-free communication between control unit and release counters offers many advantages. The add-on system makes the variable adaptation to the local circumstances possible. Even buildings with difficulties regarding radio technology are safely controlled. Do not hesitate to ask for some help for project design.

#### Compact system „Basic“

##### Operating unit MDS-RFZ

- Keyboard with display containing 2 lines with 16 digits
- Up to 1500 data memories
- Control of up to 30 taps possible
- Time for tapping break is programmable
- 16 different kinds of oil are possible per system
- 160 fitters per operating unit
- Integrated receipt printer and connection to a printer

##### Hand held meter LCD 50 RFZ

- Pre-select meter, incl. solenoid valve + transmitter
- Without permission no tapping possible
- LCD-display 5-digits, 10 mm high
- Without outlet and swivel joint (see page 167)

##### Hand held meter LCD 50 RFZ DC

- Identical with model LCD 50 RFZ, but
- For water containing fluids
- With 30° stainless steel outlet

part no.	price EUR
26 007	2.617,05
21 011	1.552,31
21 014	1.910,81

## Oil management with radio technology "High-End"



The compact-system consists of a operating unit with integrated printer MDS-RF, not calibratable or MDS-RF/E, calibratable and up to 48 release counter LCD 50 RFZ and LCD 50 RFZ DC both are **not-calibratable**, except LCD 50 RFZ/E **calibratable**.



Calibratable Rapid Measurement plants for lubricants and anti-freeze are licensed for approval according to Certificate of EC-type examination, DE-16-MI005-PTB026.

### Universal system "High-End"

#### Master terminal MT-RF

- Keyboard with display containing 2 lines, 16 digits
- Control of up to 250 taps possible
- Radio data transmission to max. 36 operating units
- Data transmission via RS 232/LAN to PC, server or printer

#### Master terminal MT-RFZ/E

- Identical with model MT-RFZ, but
- **Calibratable / according to MID**

#### Operating unit AT-RFZ

- Keyboard with display containing 2 lines, 16 digits
- Radio data transmission to max. 24 hand held meters LCD 50 RFZ and to master terminal

#### Operating terminal AT-RFZB

- Identical with model AT-RFZ, but
- **Incl. integrated Barcode scanner**

#### Operating unit AT-RFZ/E

- Identical with model AT-RF, but
- **Calibratable / according to MID**

#### Operating terminal AT-RFZB/E

- Identical with model AT-RFZ, but
- **Incl. integrated Barcode scanner**
- **Calibratable / according to MID**

#### Operating terminal AT-RFZ D

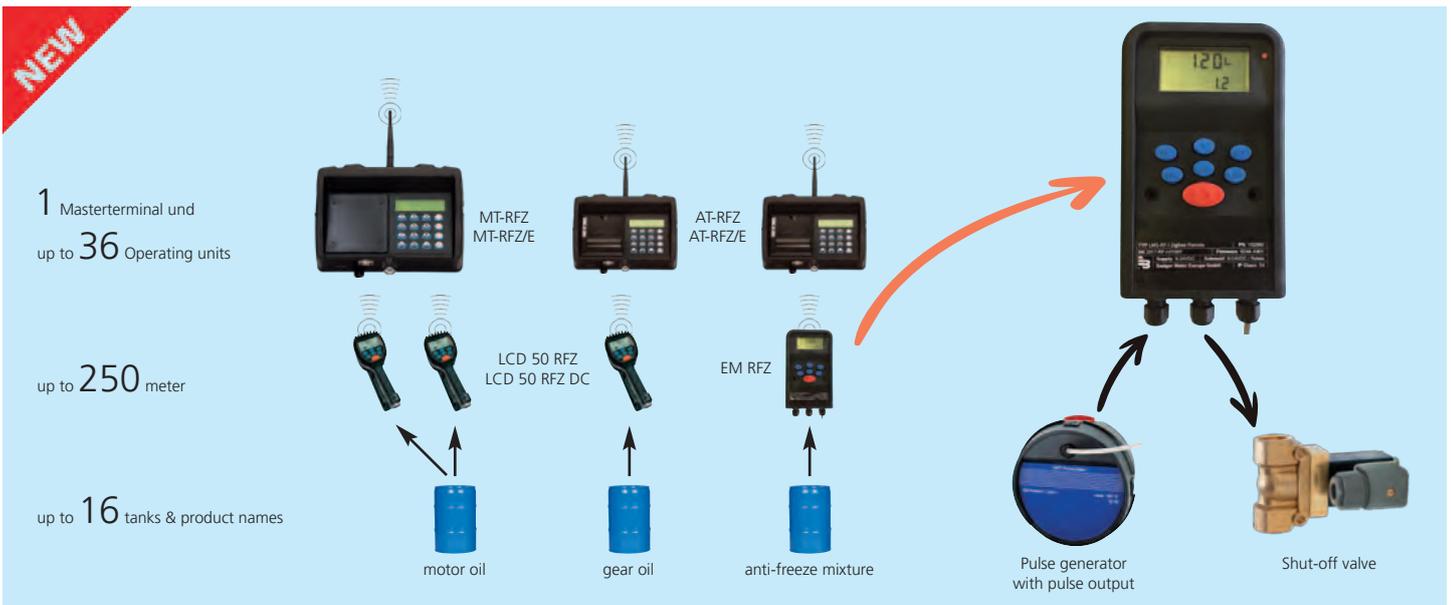
- Keyboard with display containing 2 rows + 16 digits
- Integrated printer
- Radio data transmission to max. 24 hand held meters LCD 50 RFZ and to master terminal

#### Operating terminal AT-RFZ D/E

- Identical with model AT-RFZ D, but
- **Calibratable / according to MID**

part no.	price EUR
26 033	2.617,05
26 035	4.529,05
26 034	2.139,05
26 044	4.051,05
26 036	2.736,55
26 045	4.768,05
26 037	2.617,05
26 038	2.975,55

## Oil management with radio technology "High-End"



### Accessories Universal system "High-End"

#### Remote Elektronic Modul Model EM RFZ

- Electronic module for wall mounting
- 12 - 24 VDC
- Especially for aggressive liquids and AdBlue®

#### Pulse transmitter Model IPG 2000

- In-line meter 1-15 ltr./min, 1 x per kind of oil
- Pulse transmitter, electrical 1 x 100 ppL
- **Not-calibratable**

#### Solenoid valve Model MS-OV

- Solenoid valve for low-viscosity media up to 22mpas, 1/2" - 24 VDC

#### Nozzle type ZP 12

- For engine oil, hydraulic oil, gear oil, etc.
- Connection G 1/2" int.th., without outlet pipe

### Oil Management Compact System

FMS Compact is an easy and compact oil management system for up to 4 taps (tank management). With integrated printer, alphanumeric key pad and with an internal big sized graphical display the device is assembled with all necessary operating and service units.

#### Terminal Model FMS Compact

- Keyboard with graphical display
- UP to 1600 data memories
- Control of up to 4 taps
- For management of up to 4 kinds of oil
- 99 fitters per operation unit
- Integrated receipt printer
- RS 232 port for personal computer, printer and bar code reader

Art.-Nr. Preis EUR

26 039 1.899,00

26 100 297,56

26 013 356,11

21 300 77,56

26 050 2.139,05



Mod. LCD 50 RFZ



Mod. BCS



Type TP



Type RA9



ASA-DMS-Interface-Software



Mod. TF



Mod. ST



Surveillance Software

## Accessories Universal System "High-End"

### Hand held meter LCD 50 RFZ

- Pre-select meter, incl. solenoid valve + transmitter
- Without permission no tapping possible
- LCD-display 5-digits, 10 mm heigh
- Without outlet and swivel joint (see page 167)

### Hand held meter LCD 50 RFZ/E

- Identical with model LCD 50 RFZ, but
- With 30° stainless steel outlet
- **Calibratable / according to MID**

### Hand held meter LCD 50 RFZ DC

- Identical with model LCD 50 RFZ, but
- For water containing fluids
- With 30° stainless steel outlet

### Bar code scanner Model BCS-K

- Bar code scanner 2 D (hand-held device) with wire (RS 232)
- Incl. bracket (table/wall)
- Pre-configured to compact system FSM and universal system "High-End"

### Bar code scanner Model BCS-F

- Bar code scanner 2 D (hand-held device) wireless
- Incl. bracket (table/wall)
- Pre-configured to compact system FSM and universal system "High-End"

### Thermographic paper Type TP

- Thermographic paper for printer of models FMS compact, MDS-RFZ and AT-RFZ

### Remote Antenne Type RA9

- Remote antenna for master- and operation terminal
- Incl. 9 m cable and wall bracket
- 2 dBi enhancement

### ASA-DMS-Interface-Software Model RF-DMS

- Enables the communication between master terminal and Dealer-Management-System (DMS)
- Compatible to ASA-Network

## Tank surveillance for system "High-End"

### Content remotely display Model TF

- Content remotely display for tank surveillance

### Sensor Model ST

- Sensor for tank surveillance

### Surveillance Software Model TS

- Software for tank surveillance
- For additional logging and visualization of tank status
- License for up to 56 tanks

part no.	price EUR
21 011	1.552,31
21 012	1.671,81
21 014	1.910,81
26 052	1.422,05
26 031	2.378,05
26 500	23,78
26 501	417,06
26 042	2.258,55
26 020	2.378,05
26 019	824,55
26 032	2.019,55



Mod. AOG 1002/1



Mod. AOG 1003/3



Mod. AOS 1005/3

**Mobile waste oil container „AOG“**

These containers are suitable for waste oil collection (GF All VbF) underneath car lifts. Emptying by drain tap or compressed air.

**Container volume 80 ltr.**

**Model AOG 1002/1 (without illustr.)**

part no.	price EUR
50 014	393,16

**With drain tap, volume 80 ltr.**

- **Vertically adjustable rubber grip handle**
- 4 rollers, 2 of them steering rollers
- Dip stick for level control
- **Round funnel, Ø 600 mm,** with insert strainer and rack
- Vertically adjustable from 1200 up to 1600 mm
- Dim. approx. 500 x 500 x 1250 mm (LxWxH), 35 kg

**Model AOG 1003/3**

50 017	393,16
--------	--------

**Pneumatic emptying, volume 80 ltr.**

- **Vertically adjustable rubber grip handle**
- 4 rollers, 2 of them steering rollers
- 2 m transparent dispensing hose
- level indicator with measuring scale
- Safety valve
- Stop tap and damping screw for pneumatic emptying
- Pressure reducing valve, adjusted to 0,8 bar
- **Round funnel Ø 600 mm**
- Vertically adjustable from 1200 up to 1600 mm
- Dim. approx. 500 x 500 x 1250 mm (L x W x H), 35 kg

**Mobile waste oil evacuators**

These containers are suitable for waste oil collection (GF All VbF) from machines and vehicles. Emptying by a principle of vacuum. **Volume 80 ltr.**

**Suction speed:** Approx. 3 ltr./min, at a oil temperature of 80 °C

**Emptying: with compressed air**

**Model AOS 1004/3 for waste oil (without illustr.)**

51 014	536,56
--------	--------

- Suction through vacuum principle
- Vertically adjustable rubber grip handle
- 4 rollers, 2 of them steering rollers
- Without funnel
- Emptying by compressed air
- Incl. suction probe type SO-kit (see below)
- Dim. approx. 600 x 600 x 1000 mm (L x W x H), 35 kg

**Model AOS 1004-B for break fluid**

51 050	656,06
--------	--------

- Identical with mod. AOS 1004, but for break fluid
- **Volume 80 ltr.**

**Model AOS 1004-K for coolant**

51 051	536,56
--------	--------

- Identical with mod. AOS 1004, but for coolant
- **Volume 80 ltr.**

**Model AOS 1005/3 for waste oil**

51 017	715,81
--------	--------

Multi purpose unit for suction and collection of waste oil

- Identical with model 1004, but
- Also for collecting waste oil below carlifts
- **Vertically adjustable rubber grip handle**
- **Round funnel Ø 600 mm**
- Incl. suction probe type SO-kit (see below)
- Vertically adjustable 1200 - 1600 mm
- Dim. approx. 600 x 600 x 1200 mm (LxWxH), 35 kg

**Model AOS 1005-B for break fluid**

51 055	835,31
--------	--------

- Identical with mod. AOS 1005, but for break fluid

**Model AOS 1005-K for coolant**

51 056	715,81
--------	--------

- Identical with mod. AOS 1005, but for coolant



**Mobile waste oil evacuators**

These containers are suitable for waste oil collection (GF All VbF) from machines and vehicles. Emptying by a principle of vakuum. Volume 80 ltr.

Suction speed: Approx. 3 ltr./min, at a oil temperature of 80°C  
Emptying: with compressed air

**Model AOS 1012/2**

Multi purpose unit for suction and collection of waste oil

- Vacuum production through venturi injector
- Transparent control container, 8 ltr.
- Vertically adjustable rubber grip handle
- Round funnel Ø 600 mm
- Vertically adjustable 1040 - 1770 mm
- Incl. suction probe type SO-kit (see below)
- Dim approx 700 x 650 x 1100 mm (L x W x H), 45 kg

**Accessories for AOG and AOS**

**Level indicator type FSM**

- Luminous display, red
- For mod. AOG, model AOS and barrels with 3/4" G

**Upgrade kit for AOG type NRS-AOG**

- Vacuum kit, suction probe set incl. adaptor and suction probe quiver

**Suction probe set type SO-set**

- One adaptor each type AOA DC, BMW, VW
- 3 flexible probes, 700 mm Ø 5, 6 and 8 mm
- 1 flexible probe, 1000 mm, Ø 7 mm
- 1 rigid probe, 700 mm, Ø 6 mm

**Holder for paper roll type PRH**

- For AOG- and AOS-units
- Corrosion protected steel construction, galvanized
- Variable circle tear blank
- Suitable for rolls until max. 220 mm wideness

**Cleaning paper roll type PR (pack = 2 items)**

Cleaning paper roll for paper roll holder. Strong and absorbent, especially usable to reduce coarse dirt. Ideal for oil, fat and slight solvents.

- 100% recycling paper, blue, perforated
- 500 sheets, 2-ply, volume characterized
- Size of cloth: 220 x 380 mm

**Multi-purpose pan model MZS 15**

- Multi-purpose pan made of plastic, black
- Especially for the usage underneath cars
- Handlebars for easy carriage of the full trough
- Capacity of pan 15 ltr.
- Spout for easy draining
- Dim. approx. 440 x 500 x 140 mm (L x W x H)

**Spray protection Ø 600 mm type TAS**

- Round version, three parts
- For AOG and AOS with 80 and 120 Ltr.-volume

**Funnel Ø 400 mm Type AOT 80**

- Round version, incl. sieve
- Only for AOG and AOS with 80 Ltr.-volume

**Funnel Ø 400 mm Type AOT 120**

- Round version, incl. sieve
- Only for AOG and AOS with 120 Ltr.-volume

**Funnel Ø 400 mm Type AOT 80/2**

- Funnel with ball valve
- Round version, incl. sieve
- Only for AOG and AOS with 80 Ltr.-volume

**Funnel Ø 400 mm Type AOT 120/2**

- Funnel with ball valve
- Round version, incl. sieve
- Only for AOG and AOS with 120 Ltr.-volume

**Fine sieve insert Type FSE 6 (w. illustr.)**

- Fine sieve for AOT 80 and AOT 120, Ø 400 mm

part no.	price EUR
51 019	835,31
51 514	154,16
51 521	357,31
51 500	201,96
51 524	58,56
51 525	46,61
25 129	35,73
50 520	37,05
50 500	101,58
50 505	113,53
50 501	137,43
50 535	149,38
50 536	85,10



**Mobile waste oil container „AOG“**

These containers are suitable for waste oil collection (GF All VbF) underneath car lifts. Emptying by drain tap or compressed air.

**Container volume 120 ltr.**

**Model AOG 1203**

**Pneumatic emptying, volume 120 ltr.**

- **Vertically adjustable rubber grip handle**
- 2 m transparent dispensing hose serving
- **Covered level indicator with measuring scale**
- 2 rubberized storage tray
- Safety valve
- **Round funnel incl. attachment Ø 600 mm**
- Vertically adjustable from 1200 up to 1600 mm
- Stop tap and damping screw for pneumatic emptying
- Pressure reducing valve, adjusted to 0,8 bar
- 4 rubber tyre, 2 of it are dirigible
- Dim. approx. 520 x 490 x 1140 mm (LxWxH), 44 kg

**Mobile waste oil evacuators „AOS“**

These containers are suitable for waste oil collection (GF All VbF) from machines and vehicles. Emptying by a principle of vacuum. **Volume 120 ltr.**

**Suction speed:** Approx. 3 ltr./min, at a oil temperature of 80 °C

**Emptying: with compressed air**

**Model AOS 1205**

**Multi purpose unit for suction and collection of waste oil, Container volume 120 ltr.**

- Identical with model 1203, but
- Emptying by a principle of vakuum
- **Round funnel incl. attachment Ø 600 mm**
- Incl. suction probe set type SO-set (see page163)
- Vertically adjustable from 1200 up to 1600 mm
- Dim. approx. 520 x 490 x 1140 mm (LxWxH), 44 kg

**Model AOS 1201**

**Multi purpose unit for suction and collection of waste oil**

- Suction and collecting through double diaphragm pump type OP 20 K III
- Also for collecting waste oil below carlifts
- **Vertically adjustable rubber grip handle**
- **Round funnel Ø 600 mm**
- Incl. suction probe type SO-kit (see below)
- Vertically adjustable 1200 - 1600 mm
- Dim. aoprx. 500 x 500 x 1200 mm (L x W x H), 37 kg

part no. price EUR

50 060 476,81

51 060 835,31

51 010 1.432,81



Mod. AOG 1200/2



Mod. ÖFA



Mod. AOG 1003-Z



Mod. AOS 1007

**Mobile waste oil cart**

**Model AOG 1200/2**

Mobile waste oil cart for 200 ltr.-barrels, type ÖAM 200-2/2

- 2 rollers Ø 200 mm and 2 steering rolls Ø 80 mm and handle
- **Round funnel, Ø 600 mm**
- Vertically adjustable from 610 up to 1160 mm
- Dip stick for level control
- Dim. approx. 780 x 600 x 1400-1850 mm (L x W x H)
- 24 kg
- Delivery without barrel

**Model W 08**

(without illustr.)

Drip pan without grid for mod. AOG 1200 and AOG 1200/1

- Pan volume 210 ltr.
- Dim. approx. 1000 x 650 x 160 mm (L x W x H), 41 kg
- **According to Construction Production List,** (illustr. see page 199)

**Mobile oil filter units**

**Model ÖFA**

- Oil filter unit for the maintenance of hydraulic and lubrication oil circulation
- Vane pump 230 V, 0,75 kW, approx. 25 l/min
- Suction and pressure pipe, filter with 10µ change cartridge and dirt indicator
- Frame with 2 rollers and handle

**Mobile waste oil container for motorcycles**

These containers are suitable for waste oil collection (GF All VbF) underneath car lifts. Emptying by compressed air.  
**Container volume 80 ltr.**

**Model AOG 1003-Z**

**Pressure air emptying, volume 80 ltr.**

- Especially suited for motor bikes
- 4 rollers, 2 of them steering rollers, handle
- **Swivelling round funnel - specifically for motorcycle lifts**
- Vertically adjustable from 840 up to 1160 mm
- Volumet 80 ltr.
- Dim. approx. 500 x 500 x 1250 mm (LxWxH), 35 kg

**Mobile waste oil evacuators**

The waste oil is syphoned off by a special electric pump, which creates an extremely high vacuum. Suction probes evacuate the waste oil out of the oil shank.

**Suction speed:** Approx. 3 ltr./min, at 80 °C oil temperature

**Model AOS 1007**

- Electr. suction pump 230 V~, 50 Hz, 0,5 kW
- Frame with 2 rollers and a handle
- Portable see-through 12 ltr.-tank with gauge marks
- 2 m suction hose, sensor kit
- 5 m power cable, weight approx. 16,5 kg

part no.

price EUR

50 013

500,71

25 005

357,31

51 005

895,06

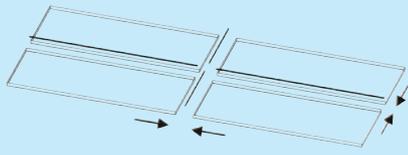
50 007

656,06

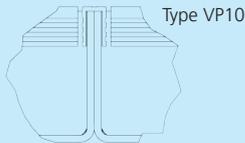
51 004

775,56

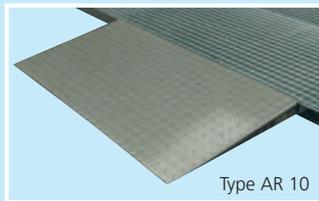
RAPID-drain pans are type examination tested according to the quality mark, TÜV-Hessen, WS-Ü 12/12-01 building code A part 1, consecutive no.: 15.22



Mod. RZW 10



Type VP10



Type AR 10



Mod. AOG 1004-M/1



Mod. AOG 1004-BBM



Type SW



Type FSE 1

**Idle State Pan**

Collecting pan with grid and without feet, galvanized. For all mobile oil- and grease dispenser machines in idle state, in order to comply with regulations according to Water Resources Act (WHG).

**Model RZW 10**

Ideal for the storage of ÖAM models in idle state capacity of trough 230 ltr.

- Capacity of pan 230 ltr.
- Weight approx. 230 kg
- Load max. 2t wheel pressure on load area 200 x 200 mm
- Dim. approx. 2840 x 1340 x 82 mm (L x W x H)

**Carrying charges for model RZW not included**

**Accessories**

**Steel channel for RZW 10 type VP10Q**

- For linking drain pans crosswise (L= 1390 mm)
- Steel sheet zinc coated

**Steel channel for RZW 10 type VP10L**

- For linking drain pans lengthwise (L= 2890 mm)
- Steel sheet, zinc coated

**Ramp for RZW 10 type AR10**

- Steel sheet zinc coated
- Load 250 kg
- Dim. approx. 990 x 600 x 80 mm (L x W x H)
- Weight approx. 19 kg

**Pit pans**

mobile collection pans for waste oil dangerous class A III VbF for industry and work shops.

**Model AOG 1004-M/1**

- Mobile 60 ltr. steel sheet pan, varnished
- Steering link swiveling
- Removable grid
- Drain cock
- 4 wheels Ø 180 mm, two of them steerable Ø 80 mm
- Dim. approx. 1092 x 700 x 252 mm (L x W x H)

**Model AOG 1004-BM/1**

- Mobile 100 ltr. steel sheet pan, varnished
- Identical with model AOG 100-M/1, but with
- Dim. approx. 1164 x 1040 x 252 (L x W x H)

**Model AOG 1004-BBM**

- Mobile 200 ltr. steel sheet pan moveable with grid zinc coated
- Identical with model AOG 100-M/1, but with
- Removable grid
- Load max. 500 kg, weight approx. 68 kg
- Dim. approx. 1520 x 957 x 327 mm (L x W x H)

**Additional freight charges for model AOG 1004**

**Accessories**

**Anti-sloshing baffle insert type SW**

- Anti-sloshing baffle insert for waste oil pan model AOG 1004-BBM for secure transport of fluids

**Fine sieve insert Type FSE 1**

- Fine sieve for mod. AOG 1004-BBM

(w. illustr.)

**Fine sieve insert Type FSE 2**

- Fine sieve for mod. AOG 1004-BM

(w. illustr.)

**Fine sieve insert Type FSE 3**

- Fine sieve for mod. AOG 1004-M

(w. illustr.)

**Fine sieve insert Type FSE 4**

- Fine sieve for mod. AOG 1004/1, 1004-P, AOG 1004-E

(w. illustr.)

**Fine sieve insert Type FSE 5**

- Fine sieve for mod. AOG 1004-B/1, -PB, -EB, -BS, -PBS, -EBS

(w. illustr.)

part no.	price EUR
25 053	1.541,55
	Request
25 505	34,66
25 506	58,56
25 507	417,06
53 003	699,08
53 004	770,78
53 011	890,28
	Request
53 500	316,68
53 501	256,93
53 502	234,10
53 503	210,20
53 507	160,20
53 508	190,10



Mod. AOG 1004/1



Mod. AOG 1004-P/1



Mod. AOG 1004-B/1



Mod. AOG 1004-BS/1



Mod. AOG 1004-PBS/1

### Pit pans - 60 Ltr.

Designed for collecting oil of GF AIII VbF in repair pits. Emptying by drain tap, pneumatic or electrical pump. The four rollers can be adjusted to pit dimensions from 780 up to 1350 mm width.

#### Model AOG 1004/1

##### With drain tap

60 ltr.-steel sheet pan, incl. handle

Removable strainer and anti-sloshing baffle

Dim. approx. 800 x 700 x 270 mm (L x W x H), ca. 24 kg

#### Model AOG 1004-P/1

##### With pneumatic double diaphragm pump

Identical with model AOG 1004/1, but with

Removable strainer and anti-sloshing baffle

Pneum. suction pump OP 20 K III/2, mounted on the pan

Oil connection hose with return valve for the connection between waste oil pipe and waste oil pit pan type AOG 1004-P

No more interim container necessary

#### Model AOG 1004-E/1

##### With electrical pump

Identical with model AOG 1004-P/1, but with

Electrical suction pump OP 140 E/1, mounted on the pan

### Pit pans - 100 Ltr.

Designed for collecting oil of GF AIII VbF in repair pits. Emptying by drain tap, pneumatic or electrical pump. The four rollers can be adjusted to pit dimensions from 780 up to 1350 mm width.

#### Model AOG 1004-B/1

##### With drain tap

100 ltr.-steel sheet pan, incl. handle

Removable strainer and anti-sloshing baffle

Dim. approx. 1000 x 700 x 270 mm (L x W x H), ca. 40 kg

#### Model AOG 1004-PB/1

##### With pneumatic double diaphragm pump

Identical with model AOG 1004-B/1, but with

Removable strainer and anti-sloshing baffle

Pneum. suction pump OP 20 K III/2, mounted on the pan

Oil connection hose with return valve for the connection between waste oil pipe and waste oil pit pan type AOG 1004-P

No more interim container necessary

#### Model AOG 1004-EB/1

Identical with model AOG 1004-PB/1, but with

Electrical suction pump OP 140 E/1, mounted on the pan

### Pit pans - 100 Ltr. with splash guard

#### Model AOG 1004-BS/1

##### With drain tap

100 ltr.-steel sheet pan, incl. handle

Removable strainer and anti-sloshing baffle

Incl. closeable splash guard

Dim. approx. 1000 x 700 x 270 mm (L x W x H), ca. 40 kg

#### Model AOG 1004-PBS/1

##### With pneumatic double diaphragm pump

Identical with model AOG 1004-BS/1, but with

Removable strainer and anti-sloshing baffle

Incl. closeable splash guard

Pneum. suction pump OP 20 K III/2, mounted on the pan

Oil connection hose with return valve for the connection between waste oil pipe and waste oil pit pan type AOG 1004-P

No more interim container necessary

#### Model AOG 1004-EBS/1

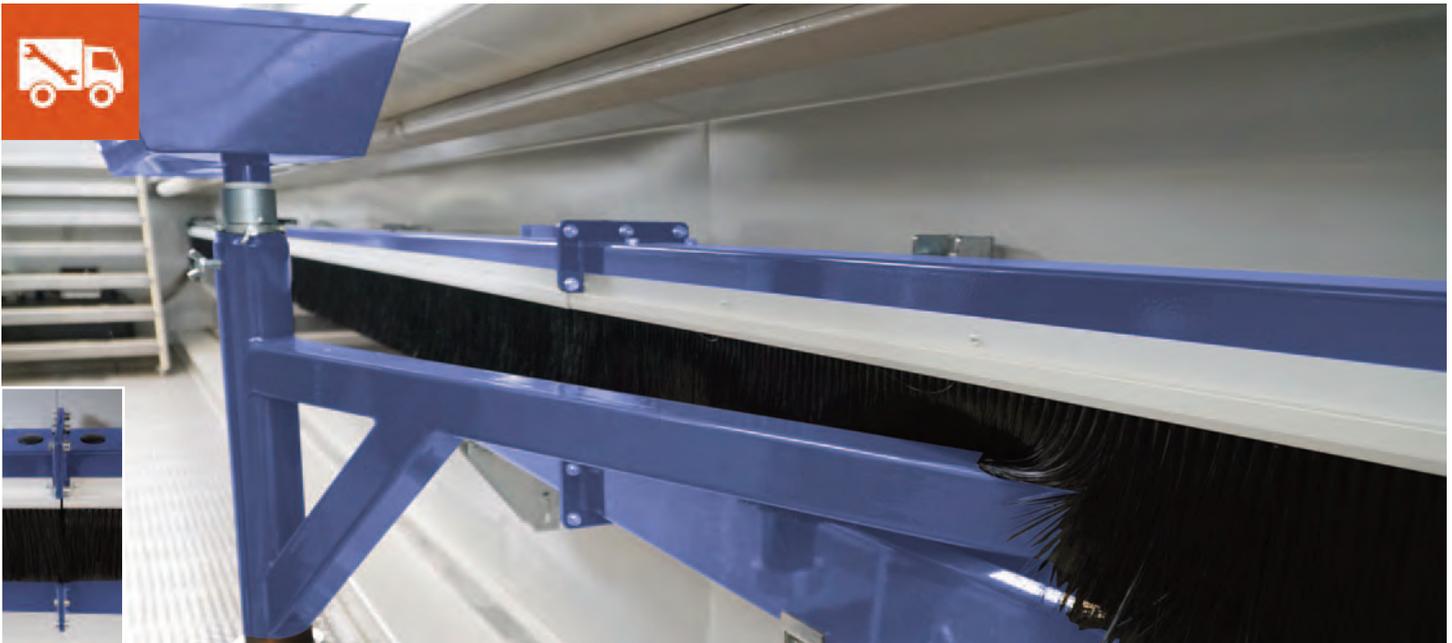
Identical with model AOG 1004-PBS/1, but with

Incl. closeable splash guard

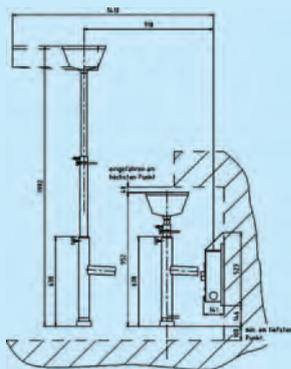
Electrical suction pump OP 140 E/1, mounted on the pan

### Additional freight charges for model AOG 1004

part no.	price EUR
53 001	591,53
53 005	1.308,53
53 007	1.428,03
53 002	651,28
53 006	1.368,28
53 008	1.428,03
53 012	830,53
53 013	1.547,53
53 014	1.607,28
	Request



Mod. PAR / PAT / PBA



Type PWS



**Permanent Waste Oil Management**

Designed for the collection and disposal of waste oil (know origin, flash point >55) in pit pans.  
By means of a movable, vertically adjustable and swivelling collection funnel nearly the entire area of the pit pan can be reached.

**Modell PAR 1/1**

- Permanent drain channel (price per piece)
  - Drain channel 1 m
  - Guide rail for drain for collection funnel
  - Wall holder (1 holder per meter)
  - Tail end with the possibility to connect either pneumatic Pump model DP respectively waste oil interim container Mod. AZB

**Model PAR 3/1**

- Permanent drain channel (price per piece)
  - Identical to model Par 1, but
  - Drain channel 3 m

**Modell PBA**

- Permanent brush cover (price per meter)
  - For drain channel

**Model PAT/1**

- Permanent collection funnel
  - Square, approx. 20 l.
  - Swivelling (180°) and moveable
  - Telescopic up to max 1000 m height

**Additional freight charges for model PAR and PBA**

Request

**Accessories**

**Tail End Cover Set Type PSD (w. illustr.)**

- For permanent drain channel model PAR
- Left/right with 2" muffler female

54 514

297,56

**Flexible hose Type PWS**

- For the connection of tail end cover type PSD to waste oil interim container model AZB
- 1 m DN 50, incl. double nipple DN 50

54 515

357,31

**Sealing Material Type PDM (w. illustr.)**

- For the connection of permanent drain channels Mod. PAR/1
- 200 ml cartridge – for up to 5 connections

54 516

89,63

**Fine sieve insert Type PFS (w. illustr.)**

- Fine screen for permanent collection hopper model PAT/1
- Mesh size 2.5 x 0.8 mm, dim. approx. 580 x 215 mm

54 517

101,57

part no. price EUR

54 011

412,28

54 012

1.189,03

54 003

89,63

54 002

2.384,03



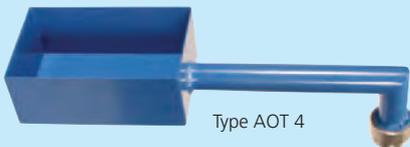
Mod. AZB/P/1 incl.  
Safety Kit Type SP-AZB



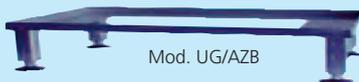
Type SP-AZB



Type TA



Type AOT 4



Mod. UG/AZB



Mod. ASB



Mod. AWS

### Interim waste oil container

#### Model AZB/P/1

Interim waste oil container for pit pans

- Collection tank approx. 80 ltr.
- Level indicator
- Pneumatic pump type OP50 KIII
- Flexible connection oil and air
- Optional: on /off switch for pump
- Dim. approx. 820 x 300 x 700 mm (L x W x H)

#### Model AZB/E/1

Interim waste oil container for pit pans

- Identical to model AZB/P/1 but with
- Electric pump op 140 E/1, 0,55 kW, 230 V

### Additional freight charges for model AZB

#### Accessories

#### Safety Kit for AZB Type SP-AZB

- Overfill prevention with acoustic signal and level indicator
- Incl. signal horn type HPL, signal lamp type SL

#### Switch type TA

- Switch with control light, 10 A

#### Collection funnel with swivelling arm Type AOT 4

- Square, 20 ltr.
- Connection thread DN 50 male
- Swivelling range – 600 mm
- Dim. approx. 150 x 100 x 250 mm (L x W x H)

#### Underframe for AZB type UG/AZB

- With adjustable pedestal, without rollers
- Dim. approx. 650 x 310 x 150 mm (L x W x H)

### Control container

#### Model ASB/P

- Control tank with floater switch 230 V to trigger the pneumatic pump incl. solenoid valve G 1/4" int. th., 15 bar, 230 V, 100% duty ratio for the air pipe, dead closed
- Dim. approx. 300 x 110 x 380 mm (L x W x H)

#### Model ASB/E

- Control tank with floater switch 230 V to trigger the electrical pump incl. control box and motor conductor
- Dim. approx. 300 x 110 x 380 mm (L x W x H)

#### Model AWS

- Drain assembly with collecting pan, incl. strainer
- Adjustable height 1100 - 1600 mm
- Swivel radius 1800 mm
- Connection G 2"
- Dim. approx. 625 x 300 x 300 mm (L x W x H), approx. 25 kg

part no.

price EUR

54 500

2.742,53

54 501

2.742,53

Request

27 107

830,53

20 595

113,53

50 504

209,13

54 513

352,53

54 509

615,43

54 510

615,43

54 004

1.428,03



## Stationary waste oil evacuators

The evacuation of the waste oil takes place through the oil shank using probes or adapters. Easily mounted.

**Suction speed:** sprox. 3 ltr./min, at 80 °C oil temperature

### Model AOS 1031

- Pneum. pump type OP 90 110 D 35
- 2 flexible connections oil 1 m NPS 20
- 5 m vacuum hose NPS 16
- Quiver incl. probe kit, type SO-kit (see below)
- Dust trap and vacuum display

### Model AOS 1030

- Pneum. pump type OP 90 110 D 35
- 2 flexible connections oil 1 m NPS 20
- **Hose reel with 5 m vacuum hose** NPS 16
- Quiver incl. probe kit, type SO-kit (see below)
- Dust trap and vacuum display

### Model AOS 1021

- Pneum double diaphragm pump type OP 50 K III/1
- 2 flexible connections oil 1 m NPS 20
- 5 m vacuum hose NPS 16
- Quiver incl. probe kit, type SO-kit (see below)
- **Control device incl. switch off- and lag-automatic, start button and luminous signal**
- Incl. mounting bracket type M/OP 50 K

### Model AOS 1020

- Pneum double diaphragm pump type OP 50 K III/1
- 2 flexible connections oil 1 m NPS 20
- **Hose reel with 5 m vacuum hose** NPS 16
- Quiver incl. probe kit, type SO-kit (see below)
- **Control device incl. switch off- and lag-automatic, start button and luminous signal**
- Incl. mounting bracket type M/OP 50 K

### Model AOS 1011

- Electric suction pump 230 V – 50 Hz, 0,55 kW
- 2 flexible connections oil 1 m NPS 20
- 5 m vacuum hose NPS 16
- Quiver incl. probe kit, type SO-kit (see below)
- **Control device incl. switch off- and lag-automatic, start button and luminous signal**
- Incl. mounting bracket type with vibration damper M/OP

### Model AOS 1010

- Electric suction pump 230 V – 50 Hz, 0,55 kW
- 2 flexible connections oil 1 m NPS 20
- **Hose reel with 5 m vacuum hose** NPS 16
- Quiver incl. probe kit, type SO-kit (see below)
- **Control device incl. switch off- and lag-automatic, start button and luminous signal**
- Incl. mounting bracket type with vibration damper M/OP

## Accessories

### Suction probe set type SO-set

- One adaptor each type AOA DC, BMW, VW
- 3 flexible probes, 700 mm Ø 5, 6 and 8 mm
- 1 flexible probe, 1000 mm, Ø 7 mm
- 1 rigid probe, 700 mm, Ø 6 mm

part no. price EUR

51 109 1.069,53

51 108 1.607,28

51 107 2.443,78

51 101 2.981,53

51 106 2.443,78

51 100 2.981,53

51 500 201,96



Mod. AÖZ 1000



Inkl. D/M 06



Mod. AÖZ 1200

For waste oil storage tanks and safety devices, see page 88 - 94.



Type ÖVF/1



Type FSE 1-AÖZ

### Waste Oil Center

Central waste oil and decanting station for the storage of oil contaminated parts such as filter, hoses, canister, jerry cans and for draining collection pans and barrels. According the legal requirements for a nominated stockyard.

### Modell AÖZ 1000

- Central Waste oil collection station consisting of
  - Ergonomically designed carrying unit including collection pan with grid, volume 210 ltr. and splashguard cover for clean work
  - Double diaphragm pump OP 50 K III/1 NPS 29 female incl.
  - Pressure reducer and manometer
  - 2 flexible connections oil 1 m NPS 20
  - Hose holder with 5 m suction hose NPS 20
  - Quiver incl. probe kit type SO-kit and suction pipe 1000 m NPS 12
  - Dim. approx. 1360x800x1775 mm (LxWxH)

### Model AÖZ 1200

- Central waste oil collection station consisting of ergonomical designed carrying unit including
  - Collection pan with grid, volume 210 ltr. with splash guard for tidy wokring
  - double diaphragm pump OP 50 KIII/1 NPS 20 male, with pressure reducer and manometer
  - **Control unit with automatic switch-off and over-run, starting button and signal lamp**
  - 2 flexible oil connections 1 m , NPS 20
  - **Automatic hose reel** with 8 m vacuum hose NPS 16
  - Suction probe holder with suction probe set, type SO-Set and suction pipe 1000m m, NPS 12
  - Dim. approx. 1360 x 800 x 1775 mm (LxWxH)

**Factory assembled - ready for connection for model AÖZ**  
**Additional freight charges for model AÖZ**

### Accessories

#### Oil strainer Type ÖSF 50

(w. illustr.)

- Mesh size 0.5 mm, max. 20 bar
- Connection 1" AG/AG
- Incl. wall mounting plate

#### Oil filter with holder and mounting plate Type ÖVF/1

- Oil filter for the maintenance of hydraulic and lubricating oil circuits
- Filter (1x) with screw-on cartridges for the intake and supply side of lubrication systems, incl. 1" bracket and mounting plates
- Suitable for biodiesel, diesel, petrol and oils
- Filter capacity 10 µm
- Flow rate: 60 l/min, operating pressure 12 bar

#### Fine sieve insert Type FSE 1-AÖZ

- Fine sieve for mod. AÖZ

part no.

price EUR

53 031

2.503,53

53 030

4.535,03

Request  
Request

51 531

213,00

51 522

234,79

53 509

256,93



**Accessories for motor oil**

**Suction probe set type SO-set**

- One adaptor each type AOA DC, BMW, VW
- 3 flexible probes, 700 mm Ø 5, 6 and 8 mm
- 1 flexible probe, 1000 mm, Ø 7 mm
- 1 rigid probe, 700 mm, Ø 6 mm

**Holder for Quiver Type SO-K**

- Holder for SO-kit, steel sheet zinc coated with drip tray
- Suction probe kit (SO-kit) not included!

**Suction probe type AOS-B6**

- Waste oil, Ø 6 mm, length 650 mm

**Suction probe type AOS-B8**

- Waste oil, Ø 8 mm, length 650 mm

**Suction probe type AOS-B6L**

- Waste oil, Ø 6 mm, length 1200 mm

**Suction probe type AOS-B5**

- Smart, waste oil, Ø 5,4 mm, length 900 mm

**Suction probe type AOS-S8**

- Waste oil, Ø 8 mm, length 659 mm, rigid

**Suction probe type AOS-B4**

- Audi, waste oil, Ø 5 mm, length 900 mm

**Suction probe type AOS-B8MB**

- For Mercedes-Benz diesel motors
- Waste oil, Ø 8,2 mm, length 1000 mm, flexible

**Suction adapter VW waste oil type AOA-VW**

**Suction adapter type AOA-VW-Polo**

**Suction adapter DC waste oil type AOA-DC**

**Suction adapter BMW waste oil type AOA-BMW**

**Suction adapter type AGA 3/4"**

**Accessories for gear oil**

**oil change adapter type G-DSG O2E**

oil change adaptor for 6 gear drive - DSG O2E of VW, Audi and SEAT

- For emptying and filling
- To match with quick change connection

**Accessories to siphon off waste oil**

**Control system for waste oil disposal type ES**

- For electr. or pneum. suction pump
- Level coupling, to assemble inside the drain channel type PAR or waste oil collecting container type AZB

**Control system for waste oil disposal type ES-S**

- Identical with model ES, but with
- Level control and integr. alarm system

**Waste oil transfer type ZSG-E**

- Autom. transfer control of the filling pipe to two other tanks via 2/3 solenoid valve

**Waste oil transfer type ZSG-M**

- Manual transfer control of the filling pipe to two other tanks via 2/3 solenoid valve, incl. limit switch

**2/3-solenoid valve, electr. type KGH 3/32 E**

**Overflow control system type ÜFS 1 (without illust.)**

part no.	price EUR
51 500	201,96
51 530	119,38
55 501	41,71
55 502	41,71
55 503	47,68
55 521	47,68
55 520	47,68
55 523	47,68
55 526	47,68
55 504	44,10
55 522	47,68
55 505	44,10
55 506	44,10
51 517	41,71
23 507	154,75
54 502	711,03
54 503	950,03
54 506	2.623,03
54 508	579,58
54 507	488,76
54 504	531,78



Mod. BAW 120



Mod. BAW 100/1-S



Type BAS-SO

**Mobile fuel suction units**

For suction of fuels from machines and vehicles of the GF A I VbF till A III VbF, like petrol, diesel and E85.

GS tested machines for secure emptying and refilling of vehicle tanks. Powder-coated chassis. Flexible suction hose with ball bearing. Control and feed pump are air driven and explosion proofed. An integrated pressure regulator ensures the correct operating pressure. Simple change between suction and emptying.

**Model BAW 120**

- 120 ltr. swap container
- Electrical, conductive rolls, grounding cable
- Conductive delivery hose NPS 08, 2,5 m
- Gas pending system, optical level indicator
- Manual limit switch
- Compressed air maintenance unit with manometer and automatic capacitor
- Power approx. 7,5 ltr./min., depending to viscosity
- Automatic limit switch at 100 l
- Dim. approx. 483 x 680 x 1096 mm (L x W x H)
- Weight approx. 40 kg
- ATEX-labeling EX2GclIAT3

**Model BAW 100/1-S**

- 100 ltr. swap container
- Conductive rollers, grounding cable
- Conductive dispebsing hose DN 08, 2,5 m
- Gas feedback system, optical level control
- Manuel final cut off
- Air service unit with pressure gauge and automatic condenser
- Performance aprox. 15 ltr./min, depending on degree of vicocity
- Automatical cut off at 100 ltr.
- **Mechanical rise and lower system**
- Dim. approx. 720 x 580 x 1100 mm (L x W x H)
- Weight approx. 110 kg

**Additional freight charges for models BAW**

**Accessories**

**Type WB 120 (without illustr.)**

- Swap container for various for different types of fuel, for Model BAW 120, volume 120 Ltr.
- With visual level indicator
- Suitable for temporary storage

**Type BAS-SO**

- Probe set for the suction of fuel, diesel and E85 for fuel pipe

**Type WB 100/1 (without illustr.)**

- Swap container for various for different types of fuel, for Model BAW 100/1-S
- With visual level indicator
- Suitable for temporary storage

**Type BAS-ZP (without illustr.)**

- Automatic nozzle with safety coupling for the dispensing of fuel with model BAW 100/1-S

part no.	price EUR
52 014	2.617,05
52 013	5.485,05
	Request
52 504	830,53
52 501	256,93
52 500	2.019,55
52 502	328,63

The pump housing of the diaphragm pump is made of polypropylene as standard, which means that various acids, alkalis and slurries can be pumped with virtually no problems. Other materials such as PVDF, nylon and acetal are available on request. The other components that come into contact with the medium, such as the diaphragm, valve balls and O-rings, are made of BUNA-N. The fixing clamps are made of stainless steel.



Mod. OP 50 K III/2

Mod. OP 90 K III



Type M/OP



Type LVS



Type SG-R

Type AB

Type SG



Type KGH

## Field of application

- **Ceramic industry:** to convey ceramic suspensions
- **Colour industry:** Latex and colour lotions
- **Photographic industry:** Photo chemicals
- **Breweries:** Hops and yeast mash
- **Chemical industry:** Organic solvents, petroleum, oil deposits and tank cleaning
- **Oil industry:** Mediums of the GF AIII of VbF and the GF A I of VbF

## Shipment:

- **Dbl. diaphragm pump** run by compressed air
- **Pressure reducer and ball valve**

## Model OP 20 K III

- Discharge capacity, max. 20 ltr./min, depending on degree of viscosity for mediums of hazard group GF A III VbF
- Max. pressure (air) 6,5 bar, max. particle size 1,5 mm
- Suction height when filled 6 mWs, dry 3 mWs
- Suction/pressure con. G 3/4" ex.th., air con. G 1/4" int.th.

## Model OP 20 K I

(ATEX)

- Identical with mod. OP 20 K III, but with Explosion protection, mediums of hazard group GF A I VbF

## Model OP 50 K III/2

- Discharge capacity, max. 50 ltr./min, depending on degree of viscosity for mediums of hazard group GF A III VbF
- Max. pressure (air) 6,5 bar, max. particle size 2,5mm
- Suction height when filled 6 mWs, dry 3 mWs
- Suction/pressure con. G 3/4" ex.th., air con. G 1/4" int.th.

## Model OP 50 K I

(ATEX)

- Identical with mod. OP 50 K III/2, but with Explosion protection, mediums of hazard group GF A I VbF

## Model OP 90 K III/1

- Identical with mod. OP 50 K III/1, but with Discharge capacity, max. 90 ltr./min, depending on degree of viscosity for mediums of hazard group GF A III VbF
- Max. pressure (air) 6,5 bar, max. particle size 2,5 mm
- Suction/pressure con. G 1" ex.th., air con. G 1/4" int.th.

## Model OP 120 K III

- Identical with mod. OP 50 K III/1, but with Discharge capacity, max. 120 ltr./min, depending on degree of viscosity for mediums of hazard group GF A III VbF
- Max. pressure (air) 6,5 bar, max. particle size 3,2 mm
- Suction/pressure con. G 1" ex.th., air con. G 1/4" int.th.

## Accessories:

**Wall mounting plate type M/OP 20-50 K**

20 657 82,46

**Wall mounting plate type M/OP 120 K**

20 658 94,41

**Mounting plate for tank T/S a. T/R type M/K**

20 676 137,43

**Ball valve G 3/8" int. th. type KGH 10**

20 505 10,64

**Compressed air connecting hose type LVS 01.10**

20 503 17,33

- 1 m long, DN 10, armoured on both sides, G 3/8" int.th.

**Ball valve G 3/4" int.th. type KGH 20**

20 561 15,42

**Ball valve G 1" int.th. type KGH 25**

20 562 22,59

**Angled outlet G 3/4" ex.th. type AB 20**

21 215 23,78

**Angled outlet G 1" ex.th. type AB 25**

21 216 29,76

**Suction pipe type SG-R**

20 558 233,03

- Suction pipe NPS 20, 860 m long
- Barrel thread, 2 m suction hose NPS 20

**Suction hose type SG 20-2.5**

20 512 111,73

- 2,5 m long, NPS 20, with bottom valve + filter

**Suction hose type SG 25-2,5**

20 618 136,83

- 2,5 m long, NPS 25, with bottom valve + filter

**Add. suction pipes see page 158 and on request**

part no. price EUR

55 009 715,81

55 008 835,31

55 004 954,81

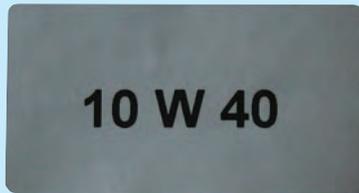
55 005 1.074,31

55 006 1.193,81

55 007 1.910,81



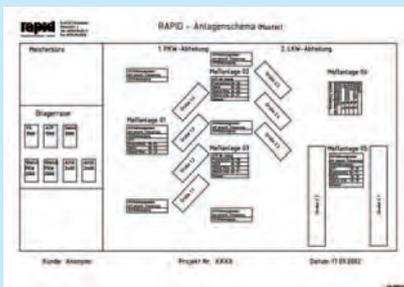
Type KS 11



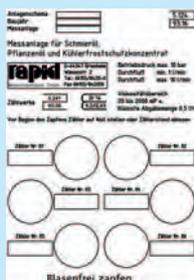
Type KS 4



Type KS 12



Type KS 21



Type KS 25

**Specification plates**

These plates are to mark all important places or points, e.g. oil tanks, piping systems, etc.

**Adhesive foil 65 x 35 mm**

■ Silver with black writing, self-adhesive

- Engine oil type KS 1
- SAE 10 type KS 2
- SAE 30 type KS 3
- 10 W 40 type KS 4
- SS 3 15 W 40 type KS 5
- Gear oil type KS 6
- SAE 80 type KS 7
- SAE 90 type KS 8
- ATF A type KS 9
- ATF B type KS 10
- Waste oil A III type KS 11
- Anti freeze type KS 12
- Water type KS 13
- Air type KS 14
- Hydraulic oil type KS 15
- Grease type KS 16
- Synthetic oil, 5 W 50 type KS 17
- Oil pumps type KS 18

**Adhesive foil 200 x 150 mm**

■ White with black writing, self-adhesive

**Manual type KS 20**

■ Oil conveying plant

**Manual type KS 24**

■ Waste oil tank

**Filling manual type KS 22**

■ Oil tank

**Over flow prevention type KS 23**

**Adhesive foil 40 x 290 mm**

■ Red with white writing, self-adhesive

**Waste oil only A III type KS 30**

**VAwS reminder type S 50**

■ DIN A4, white with black writing, laminated

**Measuring unit plan type KS 21**

- Required diagram of stationary, calibratable measuring units with more than one discharge place. Drawn confirming to clients design.
- DIN A4, white with black writing, laminated

**Measuring unit plate type KS 25**

- Required measuring unit plate for up to six calibratable discharge places.
- DIN A5, self-adhesive aluminium foil with black print

**Other plates are available on request.**

part no.	price EUR
20 571	7,05
20 572	7,05
20 573	7,05
20 574	7,05
20 575	7,05
20 576	7,05
20 577	7,05
20 578	7,05
20 579	7,05
20 580	7,05
20 581	7,05
20 582	7,05
20 583	7,05
20 584	7,05
20 585	7,05
20 586	7,05
20 587	7,05
20 588	7,05
20 670	11,83
20 677	11,83
20 672	11,83
20 673	11,83
20 643	11,83
20 675	7,05
20 671	11,83
20 701	11,83



## Hand lever grease guns E 500

### Model E 500 (PU 20)

- For 400 g cartouches or 500 g grease (slack)
- Short hub system, ergonomic handle
- Working pressure 400 bar, performance volume per pass 1,5 cm<sup>3</sup>
- Continuously adjustable piston rod
- Filling and air-relief valve
- Connection thread M 10 x 1, DIN 1283

### Model E 500/H (PU 20)

- Identical with model E 500, but with
- Galvanized steel pipe
- Incl. hydraulic-nozzle

### Model E 500/S (PU 20)

- Identical with model E 500, but with
- Safty reinforced rubber hose

## Single hand press TG 500

### Model TG 500 (PU 20)

- Filling by 400 g grease cartouche
- Filling device or slack grease
- Discharge pressure max. 260 bar, performance volume per pass 0,8 cm<sup>3</sup>
- 2 x connection thread M 10 x 1, DIN 1283
- Airing valve

### Model TG 500/H (PU 20)

- Identical with model TG 500, but with
- Galvanized steel pipe
- Incl. hydraulic-nozzle

### Model TG 500/S (PU 20)

- Identical with model TG 500, but with
- Safty reinforced rubber hose

## Comp. air single hand press DF 500

Ratio 1:60, air inlet max 6,5 bar, grease NLGI-Class 2.

### Model DF 500

- Filling by 400 g grease cartouche
- Filling device or slack grease
- Connection thread M 10 x 1, DIN 1283
- With HD-hose, nozzle jet and hyd.-coupling
- Single discharge with approx. 400 gr. per stroke

### Model DF 500/D

- Identical with model DF 500, but with
- Constant discharge while pulling the lever

## Two-hand press ZF 500

### Model ZF 500

- Filling by 500 g screwable cartouche
- Connection thread M 10 x 1, DIN 1283
- Safty reinforced rubber hose
- Incl. hydraulic-nozzle
- Working pressure 400 bar, performance volume per pass 2,1 cm<sup>3</sup>

## Battery Powered Grease Guns AF 500

### Model AF 500/1

- Cartridge or bulk loading, approx 500 g
- 18,0 V Li-Ion battery, 1.500 mAh
- Charger with overcharge protection
- Display for battery power indication and LED for overcharge protection indication
- Delivery rate approx. 100 ccm/min.
- High pressure safety hose 750 mm incl. hydraulic nozzle R 1/8"
- Blow mold case with space for second battery

### Model AF 500/2

- Identical to model AF 500/1 but with
- 18,0V Li-Ion battery, 4.000 mAh
- Charger with overcharge protection 12-230V (1,5 h charging time)

## Accessories

### Adaptor for 500 g cartridge type A-AF 500

- Suitable for battery powered grease gun model AF 500/1 and AF 500/2

part no.	price EUR
62 001	35,73
62 002	41,71
62 003	47,68
62 007	47,68
62 008	53,66
62 009	59,63
62 100	106,95
62 103	118,90
62 010	65,61
62 020	632,16
62 021	751,66
62 506	70,51



**Model FPF - hand operated version**

- With grease barrel lid and follower plate, without grease gun

**Type FPF 10**

- For 10 kg container, internal-Ø 215-230 mm

**Type FPF 15**

- For 15 kg container, internal-Ø 255-282 mm

**Type FPF 18**

- For 18 kg container, internal-Ø 265-285 mm

**Type FPF 20**

- For 20 kg container, internal-Ø 285-305 mm

**Type FPF 25**

- For 25 kg container, internal-Ø 300-335 mm

**Type FPF 50**

- For 50 kg container, internal-Ø 355-387 mm

**Model FGZ - hand operated version**

- Grease barrel lid with fixing screws at the side
- Follower plate
- ZSA-coupling (conforming to ISO 7241B) NPS 06 / R 1/4"

**Type FGZ 10**

- For 10 kg container, internal-Ø 215-230 mm

**Type FGZ 15**

- For 15 kg container, internal-Ø 255-282 mm

**Type FGZ 18**

- For 18 kg container, internal-Ø 265-285 mm

**Type FGZ 20**

- For 20kg container, internal-Ø 285-305 mm

**Type FGZ 25**

- For 25 kg container, internal-Ø 300-335 mm

**Type FGZ 50**

- For 50 kg container, internal-Ø 355-387 mm

**Model ZSA / H - hand operated version**

- Filling device for central lubrication units, no lubrication device, cart with 2 rollers Ø 155 mm, 2 steering rollers Ø 80 mm
- Follower plate, 2m PVC-hose, grease barrel lid
- ZSA-coupling (conforming ISO 7241B) NPS 06 / R 1/4"

**Type ZSA/H 15**

- For 15 kg container, internal-Ø 255-282 mm

**Type ZSA/H 25**

- For 25 kg container, internal-Ø 300-335 mm

**Type ZSA/H 50**

- For 50 kg container, internal-Ø 355-387 mm

**Model ZSA / D - pneum. version**

- Filling device for central lubrication units and lubricating devices, cart with 2 rollers Ø 155 mm, 2 steering rollers Ø 80 mm
- Follower plate, grease barrel lid
- 2,5 m delivery hose NPS 06
- ZSA-coupling (conforming ISO 7241B) NPS 06 / R 1/4"

**Type ZSA/D 25**

- Compressed air pump 1:55
- For 25 kg container, internal-Ø 300-350 mm

**Type ZSA/D 50**

- Compressed air pump 1:55
- For 25 kg container, internal-Ø 380-410 mm

**Accessories**

**Comb. of filling unit and adapter type KFA**

- Use for grease filling units FGZ and ZSA/H for the direct filling of hand lever grease guns, or rather filling of Lube-Shuttle 400 via RAS refill-adapter-kit part no. 62 502

**Wheel bearing filling unit type RFA**

- For clean and easy filling of wheel bearing units with grease filling unit FGZ and ZSA/H and the comb. filling unit and adapter KFA part no. 65 503

part no.	price EUR
62 300	213,91
62 301	225,86
62 317	225,86
62 302	225,86
62 303	237,81
62 304	273,66
62 305	285,61
62 306	285,61
62 318	297,56
62 307	297,56
62 308	333,41
62 309	357,31
62 310	424,23
62 311	448,13
62 312	472,03
62 313	806,63
62 314	866,38
62 503	77,68
62 504	256,93



**Stationary versions**

Performance:

- Ratio 1:55, op. press. max. 440 bar (7500 PSI)
- Discharge capacity max. 600 ccm/min, depending on kind of grease

**Model 90 L 20/50/1 S**

- Grease pump type 90 L 20/50/1
- Pressure reducer firmly adjusted to 8 bar
- Barrel lid for max. 50 kg container
- Dim. approx. 540 x 530 x 840 mm (L x W x H), 12 kg
- Incl. follower plate (FFP 50)

**Model 90 L 20/200/1 S (without illustr.)**

- Grease pump type 90 L 20/200/1
- Pressure reducer firmly adjusted to 8 bar
- Barrel lid for max. 200 kg container
- Dim. approx. 590 x 590 x 960 mm (L x W x H), 15 kg
- Incl. follower plate (FFP 200)

**Accessories**

**Grease connection hoses**

- Armoured on both sides, G 1/4" ex./int. th.

**Type FVS 05.06 5 m NPS 06, ex./int. th.**

**Type FVS 10.06 10 m NPS 06, ex./int. th.**

**Type FVS 15.06 15 m NPS 06, ex./int. th.**

**Type FVS 20.06 20 m NPS 06, ex./int. th.**

**3-turning-swivel joint type FDG 06**

- G 1/4" int./ex.th., for grease pistol type P 77

**Grease pistol G 1/4" type P 77**

- For pneumatic grease pumps
- Incl. hydraulic-nozzle KU 100-0
- Ergonomic, insulated handle

**ZSA adapter type ZSA/A**

- ZSA coupling G 1/4", with HS-nipple

**Mobile versions**

Performance:

- Ratio 1:55, op. press. max. 440 bar (7500 PSI)
- Discharge capacity max. 600 ccm/min, depending on kind of grease

**Model 90 L 20/30/1 M**

- Grease pump type 90 L 20/30/1
- Pressure reducer firmly adjusted to 8 bar
- Base frame with 4 rollers, 2 are steering rollers
- For containers of max. 30 kg
- Follower plate Ø 300-350 mm
- 2,5 m delivery hose, triple swivel joint
- Grease pistol with hydraulic nozzle
- Bracket for grease pistol
- Dim. approx. 450 x 450 x 840 mm (L x W x H), 17 kg

**Model 90 L 20/50/1 M (without illustr.)**

- Identical with model 90 L 20/30/1 M, but
- For containers of max. 50 kg
- Follower plate Ø 380-410 mm
- Dim. approx. 550 x 550 x 940 mm (L x W x H), 19 kg

**Model 90 L 20/200/1 M (without illustr.)**

- Identical with model 90 L 20/30/1 M, but
- For containers of max. 200 kg
- Follower plate Ø 550-590 mm
- Dim. approx. 700 x 780 x 940 mm (L x W x H), 40 kg

**Factory assembled - ready for connection for model 90 L  
Additional freight charges for model 90 L**

part no.	price EUR
61 001	596,31
61 002	835,31
60 506	71,58
60 508	119,38
60 509	155,23
60 510	203,03
60 500	46,61
60 501	70,51
60 537	59,63
61 100	770,78
61 101	830,53
61 106	1.189,03
	99,- Request

**NEW**



Mod. 90 HL 50/1

Inkl. D/M 06



Mod. 90 L 20/30/1

Inkl. D/M 06

### High performance grease pumps

These pneumatic pumps can deliver lubricating grease as well as multipurpose grease without any problem. They are designed to work when built into the piping system as well as directly from the barrel. The pumps have a ratio of 1:50 and are available in two different lengths for **50 kg- and 200 kg-containers**.

#### Performance:

- Ratio **1:50**, grease pressure max. 600 bar (9000 PSI), **suction pipe 32 mm**
- Discharge capacity max. **1200 ccm/min**, Depending on kind of grease

#### Connections:

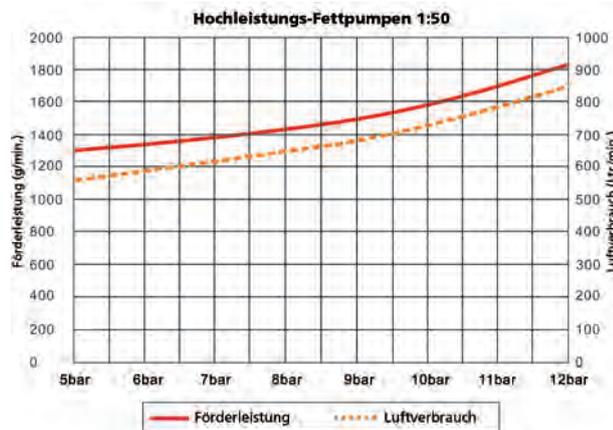
- Air pressure connection: 1/4" int.th.
- Grease connection (discharge side): 1/4" ex.th.

#### Model 110 HL 50/1

- Incl. pressure reducing valve type D/M 06
- For grease containers **up to 50 kg**, Ø 360-400 mm

#### Model 110 HL 200/1

- Incl. pressure reducing valve type D/M 06
- For grease containers **up to 200 kg**, Ø 540-580 mm



### Grease pumps

These pneumatic pumps can deliver lubricating grease as well as multipurpose grease without any problem. They are designed to work when built into the piping system as well as directly from the barrel. The pumps have a ratio of 1:50 and are available in three different lengths for **30 kg-, 50 kg-, and 200 kg-containers**.

#### Performance:

- Ratio **1:50**, grease pressure max. 400 bar (6000 PSI), **suction pipe 30 mm**
- Discharge capacity **max. 600 ccm/min**, Depending on kind of grease

#### Connections:

- Air pressure connection: 1/4" int.th.
- Grease connection (discharge side): 1/4" ex.th.

#### Model 90 L 20/30/1

- Incl. pressure reducing valve type D/M 06
- For grease containers **up to 30 kg**, Ø 320-330 mm

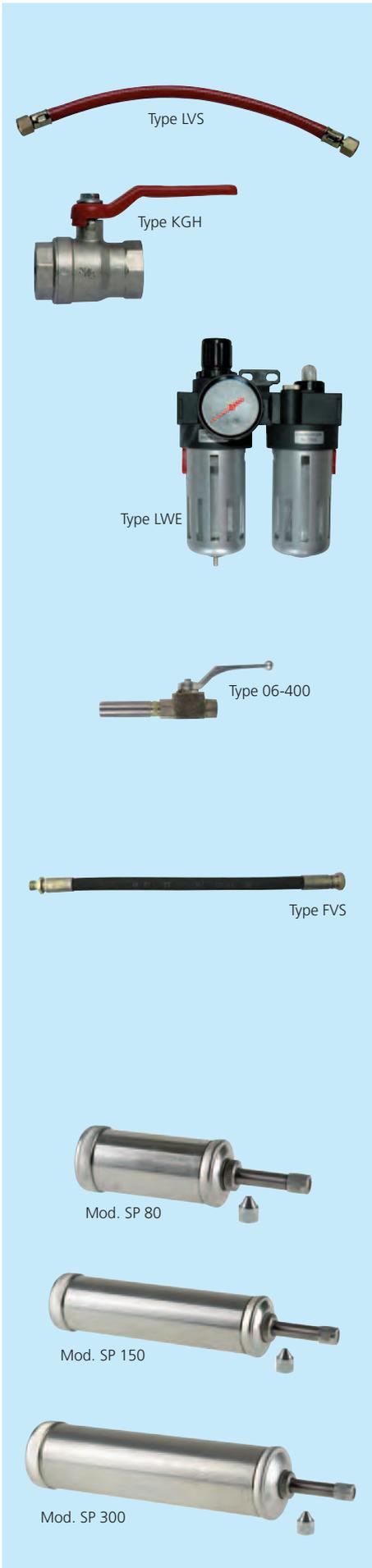
#### Model 90 L 20/50/1

- Incl. pressure reducing valve type D/M 06
- For grease containers **up to 50 kg**, Ø 380-400 mm

#### Model 90 L 20/200/1

- Incl. pressure reducing valve type D/M 06
- For grease containers **up to 200 kg**, Ø 560-580 mm

part no.	price EUR
60 010	1.667,03
60 011	1.667,03
60 001	440,96
60 002	464,86
60 003	500,71



**Various accessories**

**Connection hose for comp. air type LVS 01.10**

- 1 m long, NPS 10, armoured, G 3/8" int. th.

**Connection hose for comp. air type LVS 02.10**

- 2 m long, NPS 10, armoured, G 3/8" int. th.

**Ball valve G 3/8" type KGH 10**

**Comp. air maintenance unit type LWE 06**

- With fog lubricator, filter and water separator, G 1/4" int. th.

**Comp. air maintenance unit type LWE 10**

- With fog lubricator, filter and water separator, G 3/8" int. th.

**Comp. air maintenance unit type LWE 12**

- With fog lubricator, filter and water separator, G 1/2" int. th.

**Ball valve type 06-400**

- Cutting ring thread NPS 20
- Max. 400 bar, to insert into pipelines

**Grease connection hoses**

- Armoured on both sides, G 1/4" ex./int. th.

**Type FVS 1/2.06** 1/2 m NPS 06, ex./int. th.

**Type FVS 01.06** 1 m NPS 06, ex./int. th.

**Type FVS 02.06** 2 m NPS 06, ex./int. th.

**Type FVS 03.06** 3 m NPS 06, ex./int. th.

**Type FVS 04.06** 4 m NPS 06, ex./int. th.

**Type FVS 05.06** 5 m NPS 06, ex./int. th.

**Type FVS 08.06** 8 m NPS 06, ex./int. th.

**Type FVS 10.06** 10 m NPS 06, ex./int. th.

**Type FVS 15.06** 15 m NPS 06, ex./int. th.

**Type FVS 20.06** 20 m NPS 06, ex./int. th.

**Push type gun set**

High quality push type guns in solid zink coated steel version, with robust mechanism. With hollow and ball nozzle for universal hollow and ball type nipple (DIN 71412, DIN 3402, DIN 3402).

**Model SP 80**

- Capacity 80 g, Set for H-, K- and D-fitting
- Dim. approx. 43 mm Ø, 148 mm length
- Pressure: 60 - 80 bar

**Model SP 150**

- Capacity 150 g, Set for H-, K- and D-fitting
- Dim. approx. 42 mm Ø, 210 mm length
- Pressure: 60 - 80 bar

**Model SP 300**

- Capacity 300 g, Set for H-, K- and D-fitting
- Dim. approx. 53 mm Ø, 255 mm length
- Pressure: 60 - 80 bar

part no. price EUR

20 503 17,33

20 504 19,72

20 505 10,64

20 537 51,27

20 501 89,63

20 502 113,53

60 525 137,43

60 542 47,68

60 502 47,68

60 503 53,66

60 504 59,63

60 505 65,61

60 506 71,58

60 507 95,48

60 508 119,38

60 509 155,23

60 510 203,03

62 203 19,00

62 204 22,59

62 205 26,17

**Please note:**  
Please state the inner-Ø of grease barrel when ordering!

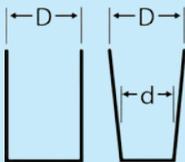


Type FFD

**Please note:**  
Please state the inner-Ø of grease barrel when ordering!



Type FFP



Type HSG



Type ZSA/R



Type ZSA/S



Type RN M10-06



Type ZSA/K



Type ZSA/A



Type KU 100-0

**Grease barrel lid for suction pipes of max. 32 mm**

■ For grease pumps model 110 HL

**Grease barrel lid type FFD 50 HL**

■ For 50 kg barrels, inner Ø 420 mm

**Grease barrel lid type FFD 200 HL**

■ For 200 kg barrels, inner Ø 600 mm

**Grease barrel lid for suction pipes of max. 30 mm**

■ For grease pumps model 90 L 20

**Grease barrel lid type FFD 15**

■ For 15 kg barrels, inner Ø 280 mm

**Grease barrel lid type FFD 20**

■ For 20 kg barrels, inner Ø 310 mm

**Grease barrel lid type FFD 30**

■ For 30 kg barrels, inner Ø 350 mm

**Grease barrel lid type FFD 40**

■ For 40 kg barrels, inner Ø 385 mm

**Grease barrel lid type FFD 50**

■ For 50 kg barrels, inner Ø 420 mm

**Grease barrel lid type FFD 200**

■ For 200 kg barrels, inner Ø 600 mm

**Follower plate for suction pipes of max. 32 mm**

■ For grease pumps model 110 HL

**Follower plate type FFP 50 HL**

■ For 50 kg barrels, inner Ø 360 - 400 mm

**Follower plate type FFP 200 HL**

■ For 200 kg barrels, inner Ø 540 - 580 mm

**Follower plate for suction pipes of max. 30 mm**

■ For grease pumps model 90 L 20

**Follower plate type FFP 15**

■ For 15 kg barrels, inner Ø 240 - 260 mm

**Follower plate type FFP 18**

■ For 20 kg barrels, inner Ø 265 - 285 mm

**Follower plate type FFP 20**

■ For 20 kg barrels, inner Ø 280 - 300 mm

**Follower plate type FFP 30**

■ For 30 kg barrels, inner Ø 300 - 340 mm

**Follower plate type FFP 40**

■ For 40 kg barrels, inner Ø 335 - 360 mm

**Follower plate type FFP 50**

■ For 50 kg barrels, inner Ø 360 - 400 mm

**Follower plate type FFP 200**

■ For 200 kg barrels, inner Ø 540 - 580 mm

**Accessories for ZSA**

**Hydraulic safety connector Type HSG/M**

■ M10 x 1

**Hydraulic safety connector Type HSG/R**

■ R1/8"

■ Connection M 10 x 1 AG, incl. 4 Backen

**Reduction nipple M10x1 - R 1/3 female Type RN M 10-06**

**ZSA plug G 1/4" int.th. type ZSA/S**

**ZSA coupling G 1/4" int.th. type ZSA/K**

**ZSA filling pipe type ZSA/R**

■ ZSA filling pipe, angled with plug for free outlet,

**ZSA adapter type ZSA/A**

■ ZSA coupling G 1/4" with HS-nipples to fill ZSA-units with grease pistols

**Hydraulic snout type KU 100-0**

■ Connection M 10 x 1 ex.th., incl. 4 jaws

part no.	price EUR
60 565	66,80
60 566	191,08
60 532	50,07
60 533	53,66
60 534	56,05
60 511	59,63
60 535	63,22
60 536	179,13
60 560	78,75
60 561	203,03
60 513	35,73
60 548	38,12
60 514	38,12
60 515	47,68
60 516	59,63
60 524	71,58
60 517	179,13
60 552	47,68
60 553	47,68
60 550	5,86
60 539	29,76
60 547	59,63
60 541	47,68
60 537	59,63
60 518	4,66



## Series 9

These reels with spring retraction give the possibility of multiple automatic detents per round for optimal use. They can be easily mounted with four screws.

### Model 9.12.06/2

#### Open version

- Automatic hose reel, varnished and partly galvanized
- Variable outlet window with PVC rollers
- Galvanized sheet steel base
- **Incl. 12 m rubber hose** NPS 06 and buffer
- Axial-swivel joint, G 1/4" int./ex. th.
- Pressure max. 400 bar (6000 PSI)
- Dim. approx. 460 x 200 x 460 mm (LxWxH), 15 kg

### Model 9.20.06/2

- Identical with model 9.12.06/1, but with
- **Incl. 20 m rubber hose** NPS 06
- Axial-swivel joint, G 1/4" int./ex. th.
- Dim. approx. 490 x 200 x 490 mm (LxWxH), 19 kg

### Model 9.12.06-GS/2

#### Closed version

- Automatic hose reel made out of sheet steel
- Case is made out of varnished sheet steel
- Outlet window with PVC rollers
- Axial-swivel joint, G 1/4" int./ex. th.
- Galvanized sheet steel base
- **Incl. 12 m rubber hose** NPS 06 and buffer
- Pressure max. 400 bar
- Dim. approx. 590 x 200 x 500 mm (LxWxH), 22 kg

### Model 9.20.06-GS/2

- Identical with model 9.12.06-GS/2, but with
- **Incl. 20 m rubber hose** NPS 06
- Axial-swivel joint, G 1/4" int./ex. th.
- Dim. approx. 590 x 200 x 500 mm (LxWxH), 26 kg

## Accessories:

### Type Rapid-SCS

- Surcharge for Rapid-SCS Series 9

### Type Rapid-SCS

- Surcharge for Rapid-SCS Series 9-GS

### Module cover for hose reels

Module cover is made out of stainless steel. Is designed as one unit and it is suitable for overhead or wall assembly as well as stand columns.

### Type MSV 9 GS

- 1 x for two reels Series 9 GS

### Type MSV 9 GS-L

- 1 x per left side ending of the unit

### Wall bracket for hose reels

#### Type WP 9

- Swivelling mounting unit 120° for Series 9
- Lockable swivel angle, galvanized

#### Type WP 9-GS

- Swivelling mounting unit 120° for Series 9-GS
- Lockable swivel angle, galvanized

### Mounting bracket for hose reels

#### Type MP 9/W

- Angled mounting bracket for Series 9

#### Type MP 9-GS/W

- Angled mounting bracket for Series 9-GS

#### Type MP 9/3

- For mounting of three reels of Series 9

#### Type MP 9/3-GS

- For mounting of three reels of Series 9-GS

part no.

price EUR

09 015

476,81

09 016

644,11

09 051

584,36

09 052

739,71

09 599

166,11

09 597

166,11

09 547

106,36

09 548

130,26

09 500

77,68

09 514

89,63

09 545

82,46

09 546

82,46

09 505

225,86

09 541

333,41



**Various accessories**

**Connection hose for comp. air type LVS 01.10**

- 1 m long, NPS 10, armoured, G 3/8" int. th.

**Connection hose for comp. air type LVS 02.10**

- 2 m long, NPS 10, armoured, G 3/8" int. th.

**Ball valve G 3/8" type KGH 10**

**Comp. air maintenance unit type LWE 06**

- With fog lubricator, filter and water separator, G 1/4" int. th.

**Comp. air maintenance unit type LWE 10**

- With fog lubricator, filter and water separator, G 3/8" int. th.

**Ball valve type 06-400**

- Cutting ring thread NPS 20
- Max. 400 bar, to insert into pipelines

**Grease pistol G 1/4" type G 77**

- Incl. digital meter in g and kg
- For pneumatic grease pumps
- Incl. hydraulic-nozzle KU 100-0
- Max. 500 bar

**Grease pistol G 1/4" type P 77**

- For pneumatic grease pumps
- Incl. hydraulic-nozzle KU 100-0
- Ergonomic, insulated handle

**3-turning-swivel joint type FDG 06**

G 1/4" int./ex.th.

- For grease pistol type G 77, Typ P 77

**ZSA adapter type ZSA/A**

- ZSA coupling G 1/4" with HS-nipple for filling of ZSA-units with grease pistols

**Hydraulic-nozzle type KU 100-0**

- M 10 x 1 ex. th., incl. 4 jaws

**Tapering nozzle type KU 122**

- Incl. extension pipe and sealing nut
- M 10 x 1 ex. th.

**Hollow nozzle type KU 120**

- Incl. extension pipe and sealing nut
- M 10 x 1 ex. th.

**Sliding coupling type KU 112**

- For lubricating nipple M 1 + T, suitable for head with Ø 16 mm, M 10 x 1 ex.th.
- Incl. extension pipe and seal nut

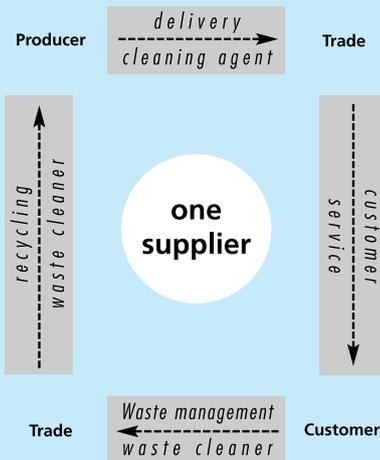
**Hydraulic-nozzle type KU 2022-2**

- Suitable for lubricating of devices, which are hardly accessible, connection M 10 x 1 ex.th.
- Incl. HD-hose, length approx. 300 mm

**Hydraulic-nozzle type KU 4024**

- Pipe 150mm, bended, connection M 10 x 1 male

part no.	price EUR
20 503	17,33
20 504	19,72
20 505	10,64
20 537	51,27
20 501	89,63
60 525	137,43
60 551	512,66
60 501	70,51
60 500	46,61
60 537	59,63
60 518	4,66
60 519	9,44
60 520	9,44
60 521	13,03
60 522	19,00
60 549	11,83



**„One supplies all“**  
This guaranties supply of **premium raf-finate** as well as the disposal and waste management of the used agent, no matter wether in standing or lying barrels up to 200 l. **The waste product will be taken in exchange** (if the official conditions regarding the mixing with other liquids have been kept).



### The successful concept

When deciding for the **Rapid-System** you solve your problem of how to dispose used agents. You decide when the cleaning agent needs to be renewed. We take the waste product in exchange for new cleaning agent (only for customers resident in Germany).

### The principle

The cleaning agent is pumped by a self-priming barrel pump through the special brush directly onto the object to be cleaned. It returns to the barrel via a hole in the tub and a hose. The loosened dirt sinks to the bottom of the barrel and the pump draws the fresh cleaning agent from the top.

### Rapid cleaning agent

Our cleaning agent is specially designed for industrial and commercial purposes and has proved to be an excellent mean to remove oil and grease from engines, machine parts and casings. The cleaning agent consists of an almost odourless, slowly evaporating solvent, which also serves as a corrosion-preventative and does not contain any emulsifying or interlacing agents. Moreover, please note that no halocarbons are used in our cleaning agent and that Rapid cleaning agents also conform to labour safty regulations.

### Cleaning agent for oil and grease fouling

Cold cleansing agent for cleaning of oil and grease spots on parts.  
Gives a greasing protection film on part

#### Technical data:

Density (20°)= 0,783, hazardous goods class A III, flashpoint = 63° C, evaporation coefficient = 150 (Ether = 1), index of refraction = 1,436.

#### 200 ltr.-barrel type RFX 200

■ Incl. disposal of waste product and freight

#### 200 ltr.-horizontal barrel

#### with screw top type RFX 200-M

■ Incl. disposal of waste product and freight

#### 50 ltr.-barrel type RFX 50

■ Incl. disposal of waste product, plus freight cost

#### 20 Ltr.-can type RFX 20

■ Without disposal of waste product

### Cleaning agent for degreasing of metal, cleaning of metal and surface treatment

Cold cleansing agent for the cleaning of oil and grease spots on parts. Degreasing and quick evaporation, for afterwards surface treatment such as varnishing or zin coating.

#### Technical data:

Density (20°)= 0,760, hazardous goods class A III, flashpoint = 57° C, evaporation coefficient = 90 (Ether = 1), index of refraction = 1,424.

#### 200 ltr.-barrel type ELX 200

■ Incl. disposal of waste product and freight

#### 200 ltr.-horizontal barrel

#### with screw top type ELX 200-M

■ Incl. disposal of waste product and freight

#### 50 ltr.-barrel type ELX 50

■ Incl. disposal of waste product, plus freight cost

#### 20 Ltr.-can type ELX 20

■ Without disposal of waste product

part no.	price EUR
70 400	1.069,53
70 406	1.129,28
70 402	436,18
70 436	49,- 113,53
70 403	1.368,28
70 407	1.428,03
70 405	495,93
70 436	49,- 149,38

Mod. RKR 50/2 E



Mod. RKR 200/3 E



Mod. RKR 200/2 E



### The technology

The small parts cleaner are made out of a galvanized perforated steel sheet inserted into a tray with a tapered outlet. Rear and side panels are fire galvanized and with edge protection. **Self-priming barrel pump**, optionally available with an electrical (E) or a compressed air (D) drive. There are **stainless steel versions** for alkaline cleaning agents available (please see page 206).

### Model RKR 50/2 E

The cleaning tray is fitted on a standing support. Suitable for 50 - 60 ltr.-barrel.

- Self-priming electr. barrel pump type KRP 400 E
- Leveling feeds for compensation of uneven footprints
- Dimensions 590 x 490 x 1300 mm (L x W x H)
- Limit load 30 kg, weight ca. 35 kg
- Working height approx. 1040 mm

### Model RKR 200/3 E

The cleaning tray is directly screwed onto the barrel.

- Self-priming electr. barrel pump type KRP 400 E
- Suitable for barrel volume 200 ltr., as barrel size determines the working height
- Leveling feeds for compensation of uneven footprints
- Dim. approx. 800 x 550 x 400 mm (L x W x H)
- Limit load 30 kg, weight approx. 17 kg

### Model RKR 200/2 E

The cleaning tray is fitted on a standing support frame, which has cross struts.

- Self-priming electr. barrel pump type KRP 400 E
- Leveling feeds for compensation of uneven footprints
- Dimensions 770 x 550 x 1420 mm (L x W x H)
- Limit load 30 kg, weight ca. 40 kg
- Working height approx. 1040 mm

part no. price EUR

70 023 627,38

70 001 758,83

70 003 830,53



Mod. RKR 200/2 E-2

Mod. RKR 200/2 E-G

Mod. RKR-HD 170

### The technology

The small parts cleaner are made out of a galvanized perforated steel sheet inserted into a tray with a tapered outlet. Rear and side panels are fire galvanized and with edge protection. **Self-priming barrel pump**, optionally available with an electrical (E) or a compressed air (D) drive. There are **stainless steel versions** for alkaline cleaning agents available (please see page 160).

#### Model RKR 200/2 E-2

The cleaning tray is fitted on a stable support, (heavy version).

- Self-priming electr. barrel pump type KRP 400 E
- Leveling feeds for compensation of uneven footprints
- Dim. approx. 1150 x 650 x 1400 mm (L x W x H)
- Limit load 150 kg, weight ca. 55 kg
- Working height approx. 1040 mm

#### Model RKR 200/2 E-G

The cleaning tray is fitted on a standing support frame, which has cross struts and cover.

- Self-priming electr. barrel pump type KRP 400 E
- Leveling feeds for compensation of uneven footprints
- Dim. approx. 820 x 550 x 1400 mm (L x B x H)
- Limit load 30 kg, weight approx. 50 kg
- Working height approx. 1040 mm

#### Model RKR 200/2 E-2G

The cleaning tray is fitted on a stable support and cover.

- Self-priming electr. barrel pump type KRP 400 E
- Leveling feeds for compensation of uneven footprints
- Dim. approx. 1160 x 650 x 1390 mm (L x B x H)
- Limit load 150 kg, weight approx. 65 kg
- Working height approx. 1040 mm

### Carrying charges for Mod. RKR 200/2

Request

### High pressure small parts cleaner

Small parts cleaner for manual high-pressure cleaning of small and medium-sized workpieces with a water-based cleaning agent. The small parts cleaners of the RKR-HD model series are manufactured in a robust stainless steel version and a compact design. The spray gun is operated by a foot pedal and delivers a water pressure of 30 to 60 bar for efficient cleaning of the workpiece. The washing temperature is infinitely variable up to 45° C.

#### Model RKR 100/HD

For smaller workpieces

- Stainless steel design, tank capacity 100 ltr.
- Incl. spray gun, washing temperature 0 - 45° C
- Heating capacity 3 kW, pump pressure 30 - 60 bar
- Load capacity up to 50 kg
- Level control, water shortage protection
- Working area approx. 800 x 600 x 500 mm (L x W x H)
- Weight approx. 145 kg

#### Model RKR 170/HD

For medium workpieces

- Identical with model RKR-HD 100, but with
- Stainless steel design, tank capacity 170 ltr.,
- Heating capacity 4 kW
- Working area approx. 1200 x 700 x 500 mm (L x W x H)
- Weight approx. 180 kg

### Carrying charges for Mod. RKR-HD

Request

part no. price EUR

70 005 985,88

70 019 1.057,58

70 021 1.177,08

70 031 8.199,00

70 032 9.999,00



## The technology

The small parts cleaner are made out of a galvanized perforated steel sheet inserted into a tray with a tapered outlet. Rear and side panels are fire galvanized and with edge protection. **Self-priming barrel pump**, optionally available with an electrical (E) or a compressed air (D) drive. There are **stainless steel versions** for alkaline cleaning agents available (please see page 160).

### Model RKR 50/5 E

The cleaning tray is mounted on a mobile base frame. The working height is approx. 850 mm, which allows ergonomic working.

- To accommodate 50 - 60 ltr. container
- Max. height 580 mm, max. Ø 370 mm of containers
- Detachable safety foot switch
- Self-priming electrical foot pump type KRP 400 EOS
- 4 rollers, 2 of them steering rollers, handle
- German patent no. DE 411 36 38 A 1
- Dim. approx. 580 x 480 x 1150 mm (L x W x H)
- Limit load 30 kg, weight ca. 30 kg
- Working height approx. 90 cm

### Model RKR 80/5 E/1

- Identical with model RKR 50/4 but with
- Dim. approx. 800 x 500 x 1150 mm (L x W x H)

## Dipping basin

The lid will be opened by pedal. The lid closes automatically after release of pedal. The gas pressure spring provides a slowly closing, which reduces the danger of injuries.

### Model TB 40

These dipping basins are made for safe cleaning of large pieces in the right working height or to place smaller parts in the basin.

- **Stainless steel** dipping basin, 48 ltr. volume
- Dim. basin approx. 350 x 630 x 220 mm (L x W x H)
- Emptying by drain tab
- Self-closing lid
- Bottom tray for spillage up to approx. 12 ltr.
- Without pump drive
- Limit load 30 kg
- Dim. approx. 630 x 700 x 880 mm (L x W x H), 28 kg

Carrying charges for Mod. TB 40

## Accessories

### Type TB-basket, stainless steel

- Basket for parts, Maße ca. 420 x 245 x 140 (L x W x H)

### Type TB-sieve, stainless steel

- Sieve base, Dim. approx. 610 x 310 x 40 (L x W x H)

part no.

price EUR

70 028

746,88

70 054

878,33

70 100

711,03

Request

70 504

185,23

70 505

83,65

RAPID-Auffangwannen sind baumustergeprüft nach Ü-Zeichen, TÜV-Hessen, WS-Ü 12/12-01 gemäß Bauregelliste A Teil 1, lfd. Nr.: 15.22



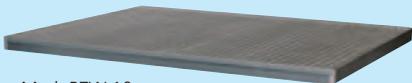
Mod. W 08



Mod. W 07



Mod. W 09



Mod. RZW 10



Type KRP 400 E



Type P 6/1



Type P 6K/1



Type EP



Type RKR-Sieb



**Drain pans for small parts cleaner**

**Model W 08**

- Drain pan without grid and feet
- Pan volume 210 ltr.
- Especially for RAPID-small part cleaner
- Dim. approx. 650 x 600 x 550 mm (LxWxH), 42 kg

**Model W 07**

- Drain pan without grid and feet, galvanized
- Pan volume 64 ltr.
- Especially for RAPID-small part cleaner
- Dim. approx. 500 x 600 x 225 mm (LxWxH), 24 kg

**Model W 05 (without illustr.)**

- Drain pan without grid and feet
- For horizontal barrel with screw cap
- Pan volume 210 ltr.
- Dim approx. 1000 x 600 x 400 mm (L x W x H), 45 kg

**Model W 09**

- Drip pan with grid but without feet, galvanized
- Pan volume 270 Ltr.
- Weight approx. 104 kg
- Dim. approx. 1200 x 1600 x 140 mm (LxWxH)

**Additional freight charges for model W**

**Model RZW 10**

- Ideal to use as a working and cleaning place for all RKR and TWA models ( up to TWA 280)
- Capacity of pan 270 ltr.
- Load max. 2t wheel pressure on Lastwürfel 200 x 200 mm
- Dim. approx. 2840 x 1340 x 82 mm (LxWxH)

**Additional freight charges for model RZW**

**Accessories for small parts cleaner**

**Elektrical pump type KRP 400 E**

- 230 V, 50 Hz, 18 W, suction pipe 400 mm
- Output 3 - 5 ltr./min
- Incl. connecting cable with safty plug, foot switch and delivery hose
- Thermo protection

**Elektrical pump type KRP 400/EOS**

- Identical with type KRP 400 E, without foot switch

**Elektrical pump type KRP 400/ELS**

- Identical with type KRP 400 E, without foot switch
- With On-/Off-Switch

**Surcharge stainless steel pipe 400 mm type KES 400**

**Replacement brushes, thin**

Type P 6/1 brush, Ø 30 mm, 1 piece

Type P 6/6 brush, Ø 30 mm, 6 pieces

**Replacement brushes, thick**

Type P 6K/1 Pinsel, Ø 30 mm, 1 piece

Type P 6K/6 Pinsel, Ø 30 mm, 6 pieces

**Replacement hose**

Type EP rubber hose, NPS 10, 160 cm

**Cleaning Sieve Type RKR-Sieve**

- Stainless steel sieve to keep small parts during cleaning process, Ø 270 x 110 mm
- Rubberized magnet for a safety hold

part no. price EUR

25 005 357,31

70 201 237,81

25 009 297,56

70 200 500,71

Request

25 053 1.541,55

Request

70 300 472,03

70 301 388,38

70 306 412,28

70 511 179,25

70 500 16,13

70 501 82,46

70 544 17,33

70 545 87,24

70 506 17,81

70 578 35,73



## Biological Parts Washer

The biological parts washer cleans your parts without solvent, while respecting operator's health and the environment. Oil and grease is biologically degraded, increase lifetime of cleaning fluid, and afford an efficient and reasonable cleaning.

For cleaning of grease and oil, salts, chips and dust in sugar and burnt-in cracking products. Suitable for the cleaning of stainless steel, steel, aluminum and nonferrous metal.

Not to be used with lacquers, paints, resins, silicones and biocides

These substances must not get into the system, as they are harmful to the microorganisms. For those substances a conventional small part cleaner used with cold cleaner is recommended.

### Model RBR 100 E-G

Cleaning pan made of plastic (PE-HD) fitted with wheels and sealed lid.

- Self-priming electric barrel pump
- Working area dim. 790x420x180 mm (LxWxH)
- Soaking Area volume 30 ltr
- Payload 100 kg, weight 46 kg
- Standard temperature 38°C / boost mode. 43°C
- Filter 700 µ (basket stainless steel ) and 100 µ (Nylon)
- 2 integrated wheels + 2 integrated wheels with brake
- Height Drain 390 mm
- Working height approx. 900mm
- Dim. 905x650x1080 mm (LxWxH)
- Starting operation only possibly by means of cleaning agent RKB 20 and tabs type RTB 4

### Solvent free parts washer

The parts washer cleans your parts without solvent, while respecting operator's health and the environment. Cleaning by brush.

### Model RBR 40 E

Mobile cleaning pan made of plastic (PE-HD)

- Self-priming electric barrel pump
- Working area dim. 550x430x150 mm (LxWxH)
- Soaking Area volume 5 ltr
- Payload 30 kg, weight 23 kg
- Standard temperature 38°C
- Bag filter (PP) 50 µ
- 4 castors, 2 with brake
- Emptying through spout on the handle
- Working height approx. 900mm
- Dim. 820x530x1050 mm (LxWxH)
- Starting operation only possible only by means of cleaning agent RFB 20

### Modell RBR 40 D

Mobile cleaning pan made of plastic (PE-HD)

- Identical to model RBR 40 E, but with
- Pneumatic pump

### Additional freight charges for models RBR

### Accessories For Biological Small Parts Cleaner

#### Cleaning concentrate Type RKB 20

- Cleaning concentrate for model RBR, 20 ltr. canister
- Water-based solution with specific surfactants with low alkaline pH value, non-toxic, non-flammable

#### Cleaning fluid Type RFB 20

- Ready for use for model RBR, 20 ltr. canister
- Water-based solution with specific surfactants with low alkaline pH value, non-toxic, non-flammable

#### Microorganisms Tabs Type RTB 4

- Box with 4 tabs
- 1 tab ensures constant regeneration of the degreasing solution for 4-6 weeks – only for model RBR 100 E –G

part no.	price EUR
70 070	3.340,03
70 071	2.145,03
70 072	2.384,03
	Request
70 439	656,06
70 438	209,13
70 440	130,26



Mod. TWA 450

### Model TWA 350

#### For medium sized up to large parts

For automatically cleaning with hot water and biodegradable detergent. Made out of stainless steel in solid workmanship and compact design.

- Stainless steel, tank volum 350 ltr.
- Heatable fom 0-70 °C, very high washing performance
- Time switch 0-60 min.
- Electric supply 400 V, 27 kW
- Electrical heating, alternativly with oil or gas burner
- Basket size approx. 1100 x 1100 mm
- Height approx. 800 mm
- Dim. approx. 1665 x 1795 x 2140 mm (L x W x H), weight approx. 600 kg

Model	Heating	part no.	EUR/piece
TWA 350 E	Electric	70 160	on request
TWA 350 G	Gas	70 163	on request
TWA 350 O	Oil	70 166	on request

### Model TWA 450

#### For medium sized up to large parts

For automatically cleaning with hot water and biodegradable detergent. Made out of stainless steel in solid workmanship and compact design.

- Stainless steel, tank volum 450 ltr.
- Heatable fom 0-70 °C, very high washing performance
- Time switch 0-60 min.
- Electric supply 400 V, 37 kW
- Electrical heating, alternativly with oil or gas burner
- Basket size approx. 1300 x 1300 mm
- Height approx. 900 mm
- Dim. approx. 1876 x 2000 x 2240 mm (L x W x H), weight approx. 700 kg

Model	Heating	part no.	EUR/piece
TWA 450 E	Electric	70 161	on request
TWA 450 G	Gas	70 164	on request
TWA 450 O	Oil	70 167	on request

### Model TWA 550

#### For medium sized up to large parts

For automatically cleaning with hot water and biodegradable detergent. Made out of stainless steel in solid workmanship and compact design.

- Stainless steel, tank volum 550 ltr.
- Heatable fom 0-70 °C, very high washing performance
- Time switch 0-60 min.
- Electric supply 400 V, 39 kW
- Electrical heating, alternativly with oil or gas burner
- Basket size approx. 1500 x 1500 mm
- Height approx. 1000 mm
- Dim. approx. 2080 x 2200 x 2340 mm (L x W x H), weight approx. 800 kg

Model	Heating	part no.	EUR/piece
TWA 550 E	Electric	70 162	on request
TWA 550 G	Gas	70 165	on request
TWA 550 O	Oil	70 168	on request

## Automatic parts washer

Professionals know about the importance of thorough cleaning of parts before repairing or maintaining machines in order to keep the value of the capital invested.

Rapid automatic parts washer with a solid, compact designed casing of stainless steel are destined to a thorough cleaning of parts in a careful and ecological way by combining:

- A watery solution of a bio-degradable, highly effective detergent
- A working temperature up to 70° C for thermal support
- **Level control**
- Powerful water jets for detaching tight dirt
- Rotating baskets for working from all sides

### Model TWA 40

#### For small parts

For automatically cleaning with hot water and bio-degradable detergent. Made out of stainless steel in solid workmanship and compact design.

- Stainless steel version, tank volume 40 ltr.
- Heatable up to 0-70 °C, very high washing performance
- Rotating basket, Ø 360 mm, carrying up to 70 kg
- Time switch 0-60 min.
- **Level control**
- Electric supply 230 V, 2,55 kW
- Height approx. 340 mm
- Dim. approx. 600 x 680 x 930 mm (L x W x H)
- Weight approx. 50 kg



Mod. TWA 40

### Model TWA 70

#### For small parts

For automatically cleaning with hot water and bio-degradable detergent. Made out of stainless steel in solid workmanship and compact design.

- Stainless steel version, tank volume 70 ltr.
- Heatable up to 0-70 °C, very high washing performance
- Rotating basket, Ø 600 mm, carrying up to 100 kg
- Time switch 0-60 min.
- Integrated oil skimmer
- **Level control**
- Electric supply 230 / 400 V, 3,5 kW
- Height approx. 340 mm
- Dim. approx. 700 x 900 x 1030 mm (L x W x H)
- Weight approx. 60 kg



Mod. TWA 70

### Additional freight charges for model TWA 40-70

Request

### Accessories

#### Add. costs for oil skimmer TWA 70-280 type ÖSK 1

- unfit for TWA 40

70 570

1.189,03

#### Add. costs for oil skimmer TWA 350 - 550 type ÖSK 2

- unfit for TWA 40

70 571

Request

part no.

price EUR

70 154

4.122,75

70 153

5.915,25



Mod. TWA 90



Mod. TWA 170



Mod. TWA 280

## Automatic parts washer

### Model TWA 90

#### For smaller parts

For automatically cleaning with hot water and biodegradable detergent. Made out of stainless steel in solid workmanship and compact design.

- Stainless steel version, tank volume 90 ltr.
- Heatable up to 0-70 °C, very high washing performance
- Rotating basket, Ø 780 mm, carrying up to 150 kg
- Time switch 0-60 min.
- Integrated oil skimmer
- **Level control**
- Electric supply 230 / 400 V, 4,7 kW
- Height approx. 490 mm
- Dim. approx. 900 x 1050 x 1130 mm (L x W x H)
- Weight approx. 80 kg

#### Additional freight charges for model TWA 90

### Model TWA 170

#### For medium sized parts

For automatically cleaning with hot water and biodegradable detergent. Made out of stainless steel in solid workmanship and compact design.

- Stainless steel version, tank volume 170 ltr.
- Heatable up to 0-70 °C, very high washing performance
- Rotating basket, Ø 910 mm, carrying up to 200 kg
- Time switch 0-60 min.
- Integrated oil skimmer
- **Level control**
- Electric supply 230 / 400 V, 7,5 kW
- Height approx. 490 mm
- Dim. approx. 1100 x 1120 x 1120 mm (L x W x H)
- Weight approx. 140 kg

#### Additional freight charges for model TWA 170

### Model TWA 280

#### For large parts

For automatically cleaning with hot water and biodegradable detergent. Made out of stainless steel in solid workmanship and compact design.

- Stainless steel version, tank volume 280 ltr.
- Heatable up to 0-70 °C, very high washing performance
- Rotating basket, Ø 1150 mm, carrying up to 350 kg
- Time switch 0-60 min.
- Integrated oil skimmer
- **Level control**
- Electric supply 400 V, 13 kW
- Height approx. 700 mm
- Dim. approx. 1450 x 1500 x 1440 mm (L x W x H)
- Weight approx. 250 kg

#### Additional freight charges for model TWA 280

Mobile version of models TWA 90 - 280 on request

part no.	price EUR
70 150	7.946,75

Request

70 151	9.500,25
--------	----------

Request

70 152	16.670,25
--------	-----------

Request



Type HP 50-706-1



Type SA-270



Mod. TWA 170



Mod. TWA 280

## Accessories for Automatic Parts Washer

For models TWA 90, TWA 170 and TWA 280

### Cleaning concentrate type HP 50-706-1

- For parts washer, 30 kg-canister
- For removing stubborn oil, grease and dirt deposits, for workpieces made of iron, steel, cast iron, aluminium, galvanized steel
- Concentrated mixture 0,5 - 10,0%  
Temp. 40 °C - 80 °C
- Additional dangerous goods freight cost

### Cleaning concentrate type SA 270

- Bio-degradable detergent for parts washer, 20 ltr.-canister
- Concentrated mixture 1:20 (5%), full cleaning power at 40 °C

### Cleaning concentrate type SA 270-1 (ohne Abb.)

- Identical with Type SA 270, but
- 1 Ltr.-bottle

### Water level control type WSK-A

- Automatic water level control
- Automatic replenishment via electrical valve up to max. level

### Electr. pump for emptying type ELP

- Electr. pump for the emptying of the washing dilution when cleansing properties decrease
- Activation through a separate switch at the keyboard (110 ltr./min.)
- Emptying to be released manually

### Vapour evaporator type SWA

- Electr. blower to evaporate vapours
- Connection with pipeline to the outside

### Tank insulation type ISO

- Insulation of the washing chamber against temperature drop
- Short term amortisation due to considerable savings of the costs of energy

### Type ISO 90 for TWA 90

### Type ISO 170 for TWA 170

### Type ISO 280 for TWA 280

### Stainless steel version type NIR

- Washing basket and jet pipes out of stainless steel
- High corrosion protection at extreme use

### Type NIR 90 for TWA 90

### Type NIR 170 for TWA 170

### Type NIR 280 for TWA 280

### Drive motor for basketdrive mechanism type MOT

- Basket drive mechanism via drive motor for high constant load and uneven placement of weight

### Type MOT 90 for TWA 90

### Type MOT 170 for TWA 170

### Counter for operating hours type BSZ

- For the planning of inspection periods

### Weekly clock timer type TIMER

- For pre-selection of switch-on of the heating

### Transport cart for washing basket type KWG

- Made out of stainless steel for the transportation of the loaded washing basket to and from the washer
- Delivery only for TWA 170 and TWA 280

**Baskets for small part cleaning in different sizes on request.**

part no.	price EUR
70 414	349,00
70 411	Request 237,81
70 412	26,17
70 514	388,38
70 515	1.422,05
70 516	1.422,05
70 517	1.900,05
70 518	2.019,55
70 519	2.378,05
70 520	1.069,53
70 521	1.308,53
70 522	591,53
70 523	2.025,53
70 524	2.384,03
70 525	388,38
70 526	519,83
70 527	2.623,03



Mod. RU 100/1



Mod. RU 510



Mod. RU 156



Mod. RU 1028



Mod. RU 1050

**Supersonic units**

These supersonic units are suitable for customer service and motorcycle garages for thorough cleaning of injection nozzles, carburetors and different modules.

**Model RU 100/1**

**Used for thorough cleaning of injection nozzles and small parts**

- Stainless steel oscillating tank, 3 ltr. volume
- 1 PZT-large area oscillating systems
- HF-constant peak capacity 320 W/per., 35 kHz
- Timer 1 - 15 min. and continuous working
- Heater 30 - 80 °C, 140 W
- Stainless steel cover, resistant to dripping water
- Dim. approx. 240 x 140 x 100 mm (L x W x H)

**Model RU 510**

**Used for thorough cleaning of injection nozzles and bigger parts**

- Stainless steel oscillating tank, 9 ltr. volume
- 2 PZT-large area oscillating systems
- Supersonic max. performance 640 W, freq. 35 kHz
- Timer 1 - 15 min. and continuous working
- Heater 20 - 80 °C, 400 W
- Stainless steel cover, resistant to dripping water
- G 1/4" emptying ball valve and handle
- Dim. approx. 300 x 240 x 150 mm (L x W x H)

**Model RU 156**

**Used for thorough cleaning of carburetors and longer parts**

- Stainless steel oscillating tank, 9 ltr. volume
- 2 PZT-large area oscillating systems
- Supersonic max. performance 640 W, freq. 35 kHz
- Timer 1 - 15 min. and continuous working
- Heater 20 - 80 °C, 600 W
- Stainless steel cover, resistant to dripping water
- G 1/4" emptying ball valve and handle
- Dim. approx. 500 x 140 x 150 mm (L x W x H)

**Model RU 1028**

**Used for thorough cleaning of bigger parts**

- Stainless steel oscillating tank, 28 ltr. volume
- 8 PZT-large area oscillating systems
- Supersonic max. performance 1200 W, freq. 35 kHz
- Timer 1 - 15 min. and continuous working
- Heater 20 - 80 °C, 1300 W, thermostat
- Stainless steel cover, resistant to dripping water
- IP 32
- Emptying ball valve and handle
- Dim. approx. 500 x 300 x 200 mm (L x W x H)

**Model RU 1050**

**Used for thorough cleaning of big parts**

- Stainless steel oscillating tank, 90 ltr. volume
- 16 PZT-large area oscillating systems
- Supersonic max. performance 2400 W, freq. 35 kHz
- Timer 1 - 15 min. and continuous working
- Heater 20 - 80 °C, 1950 W, thermostat
- Stainless steel cover, resistant to dripping water
- IP 32
- Emptying ball valve and handle
- Dim. approx. 600 x 500 x 300 mm (L x W x H)

**part no. price EUR**

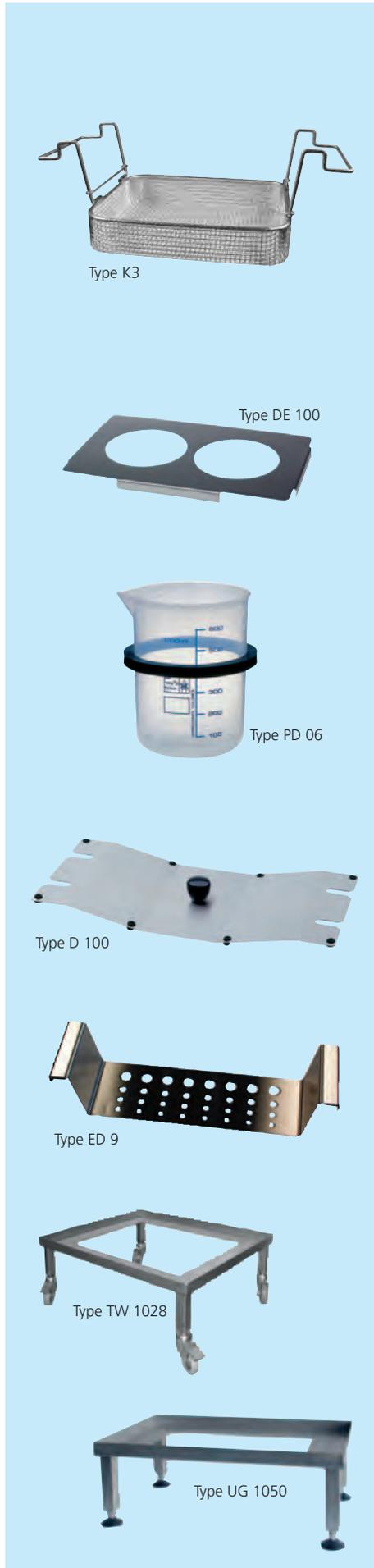
**70 320 1.308,53**

**70 322 1.906,03**

**70 321 2.145,03**

**70 323 3.579,03**

**70 324 6.566,53**



**Accessories for supersonic units**

**Hanging basket for model RU 100/1 type K3**

- Inside dim. 200 x 110 x 40 mm (L x W x H), up to 10 kg

**Hanging basket for model RU 510 type K10**

- Inside dim. 250 x 195 x 50 mm (L x W x H), up to 10 kg

**Hanging basket for model RU 156 type K6**

- Inside dim. 460 x 100 x 50 mm (L x W x H), up to 10 kg

**Hanging basket for model RU 1028 type K28**

- Inside dim. 455 x 245 x 50 mm (L x W x H), up to 10 kg

**Hanging basket for model RU 1050 Typ K50**

- Inside dim. 545 x 450 x 50 mm (L x W x H), up to 10 kg

**Cover with inserted holes**

- Stainless steel cover with inserted holes
- To hook in up to 4 containers (e.g. PD 06)

**Type DE 100 for model RU 100/1, for 2 container**

**Type DE 510 for model RU 510, for 4 container**

**Type DE 156 for model RU 156, for 4 container**

**Container type PD 06**

- Plastic container with rubber band and lid
- Volume 600 ml, Ø 86 mm, height 125 mm

**Lid**

- Stainless steel lid
- To avoid fouling
- Condensed water drips back into basin

**Type D 100 for model RU 100/1**

**Type D 510 for model RU 510**

**Type D 156 for model RU 156**

**Type D 1028 for model RU 1028**

**Type D 1050 for model RU 1050**

**Rack for injection nozzles type ED 9**

- For model RU 100/1 and RU 510
- The plate of stainless steel is provided with 32 holes to contain the injection nozzle
- 8 holes, Ø 3,5 mm, 4,5 mm, 5,5 mm und 9,5 mm

**Transport trolley**

- Stainless steel version
- With lockable transport rollers

**Type TW 1028 for model RU 1028**

- Working height approx. 635 mm

**Type TW 1050 for model RU 1050**

- Working height approx. 765 mm

**Underframe**

- Stainless steel version
- With adjustable feets, without rollers

**Type UG 1028 für model RU 1028**

- Working height approx. 575 - 625 mm

**Type UG 1050 für model RU 1050**

- Working height approx. 705 - 755 mm

part no.	price EUR
70 530	125,48
70 532	316,68
70 531	352,53
70 564	388,38
70 572	519,83
70 533	77,68
70 535	89,63
70 534	125,48
70 536	35,85
70 537	89,63
70 539	113,53
70 538	137,43
70 566	161,33
70 573	256,93
70 540	125,48
70 574	926,13
70 575	950,03
70 576	866,38
70 577	890,28



Type PUR 33



Type PUR 33-2



Type PUR 13



Type PUR 13-2



Type PUR 3



Type PUR 3-2



Type SA-



Type SA-270-

**Detergent**

**Universal detergent 5 ltr. type PUR 33**

70 421

89,51

**Universal detergent 2 ltr. type PUR 33-2**

70 431

53,66

Universal detergent to remove general dirt and oil and grease containing residues on metal, glass, ceramic, plastic, rubber, etc. (e.g. car and carburettor parts).

- Highly concentrated
- De-emulsifying
- With corrosion protection
- Gentle to material
- mild alkaline
- Use carefully for zinc and stannous

**Special detergent 5 ltr. type PUR 13**

70 422

113,41

**Special detergent 2 ltr. type PUR 13-2**

70 432

65,61

Special detergent for injection nozzles to remove soot, coking, oil and grease residues, paint and pigments on metal, glass, ceramic, plastic and rubber.

- Highly concentrated
- De-emulsifying
- With corrosion protection
- Gentle to material
- alkaline, free of tensides
- Not suitable for aluminium, zinc and stannous
- Additional hazardous goods charge

Request

**Special detergent 5 ltr. type PUR 3**

70 423

113,41

**Special detergent 2 ltr. type PUR 3-2**

70 433

65,61

Special detergent for carburettor parts to remove residues, rust films, oil and grease residues, paint, pigments, residues of surface treatment agents of metal, glass, ceramic, rubber and plastic

- Concentrated
- De-emulsifying
- With corrosion protection
- Gentle to material

**Detergent for RKR 10 / TWK 10 / MZW**

**Cleaning concentrate type SA 270**

70 411

237,81

- Bio-degradable detergent for parts washer, 20 ltr.-canister
- Concentrated mixture 1:20 (5%), full cleaning power at 40 °C

**Cleaning concentrate type SA 270-1**

70 412

26,17

- Identical with Type SA 270, but
- 1 Ltr.-bottle



Mod. RKR 10



Mod. TWK 10



Mod. MZW 20



Mod. MZW 50



Mod. MZS 15

## Cleaning devices and pans

Cleaning devices for the mobile usage in service workshops. For the careful cleaning of small parts and divers components.

### Model RKR 10

Cleaning pan in shock-proof plastic version with lockable cap lid. Handy and transportable device for the cleaning and de-greasing of small parts by brush.

- Hinged lid
- Electric vane pump, 230 V
- Switch and pilot lamp
- Integrated tank for detergent, max. 10 ltr.
- Dim. approx. 460 x 660 x 260 mm (L x W x H), 5 kg

### Model TWK 10

Cleaning pan in shock-proof plastic version with lockable cap lid. Handy and transportable device for the cleaning and de-greasing of small parts by brush.

- Hinged lid
- Sieve insert in galvanized steel
- Integrated tank for detergent, max. 10 ltr.
- Dim. approx. 460 x 660 x 260 mm (L x W x H), 7,5 kg

## Multi-purpose pans

Multi-purpose pan made of plastic for the collection and storage of liquids.

### Model MZW 20

- Multi-purpose pan made of plastic, black
- Especially for the usage underneath cars
- Capacity of pan 20 ltr.
- Spout for easy draining
- Loop for pulling and hanging the pan
- Dim. approx. 685 x 677 x 65 mm (L x W x H)

### Model MZW 15 (without illustr.)

- Multi-purpose pan made of plastic, black
- Especially for collection of small casks
- Capacity of pan 15 ltr.
- Dim. approx. 530 x 380 x 80 mm (L x W x H)

### Model MZW 50

- Multi-purpose pan made of plastic, black
- Especially for the collection of small casks
- Capacity of pan 50 ltr.
- Spout for easy draining
- Dim. approx. 880 x 600 x 100 mm (L x W x H)

### Model MZW 70

- Multi-purpose pan made of plastic, black
- Especially for the collection of small casks
- Capacity of pan 70 ltr.
- Spout for easy draining
- Dim. approx. 950 x 860 x 100 mm (L x W x H)

### Model MZS 15 (VE 4)

- Multi-purpose pan made of plastic, black
- Especially for the usage underneath cars
- Handlebars for easy carriage of the full trough
- Capacity of pan 15 ltr.
- Spout for easy draining
- Dim. approx. 440 x 500 x 140 mm (L x W x H)

part no.	price EUR
70 056	261,71
70 104	261,71
25 125	35,73
25 137	35,73
25 126	83,53
25 127	131,33
25 129	35,73

Mod. AMTRON Light



Mod. AMTRON Pro



**Electric mobility charge systems**

Charge systems for the private sector like Einand apartment houses and the semi-public sector like business houses. The wall electro boxes for the private sector are available in 3 different levels of performance and features. The product is delivered prewired and is ready for connection after installation at the local power supply and the commissioning by a qualified electrician.

**Model AMTRON® Light 3,7 C2**

- Charging coupler type 2 to 3.7 kW with 5 m line length
- FI-switch 25A, 2p, type A (sensitive to pulsating currents)
- LS-switch 16A, C, 1p/loadbreaking 16A, 2p
- Multi-function push-button with LED status display

**Model AMTRON® Light 11 C2**

- Charging coupler type 2 to 11 kW with 5 m line length
- FI-switch 40A, 4p, type B (sensitive to universal current)
- LS-switch 16A, C, 3p/loadbreaking 16A, 4p
- Multi-function push-button with LED status display

**Model AMTRON® Light 22 C2**

- Charging coupler type 2 to 22 kW with 5 m line length
- FI-switch 40A, 4p, type B (sensitive to universal current)
- LS-switch 32A, C, 3p/loadbreaking 32A, 4p
- Multi-function push-button with LED status display

**Model AMTRON® Pro 3,7 C2**

- Charging coupler type 2 to 3.7 kW with 5 m line length
- FI-switch 25A, 2p, type A (sensitive to pulsating currents)
- LS-switch 16A, C, 1p/loadbreaking 16A, 2p
- Multi-function push-button with LED status display
- Gauged digital energy meter

**Model AMTRON® Pro 11 C2**

- Charging coupler type 2 to 11 kW with 5 m line length
- FI-switch 40A, 4p, type B (sensitive to universal current)
- LS-switch 16A, C, 3p/loadbreaking 16A, 4p
- Multi-function push-button with LED status display
- Gauged digital energy meter

**Model AMTRON® Pro 22 C2**

- Charging coupler type 2 to 22 kW with 5 m line length
- FI-switch 40A, 4p, type B (sensitive to universal current)
- LS-switch 32A, C, 3p/loadbreaking 32A, 4p
- Multi-function push-button with LED status display
- Gauged digital energy meter

**part no.**      **price EUR**

**77 001**      **Request**

**77 002**      **Request**

**77 003**      **Request**

**77 011**      **Request**

**77 012**      **Request**

**77 013**      **Request**

Mod. AMTRON Basic



Mod. AMTRON Basic



Type LK 11



Type ES-AMTRON®

### Electric mobility charge systems

Charge systems for the private sector like Einand apartment houses and the semi-public sector like business houses. The wall electro boxes for the private sector are available in 3 different levels of performance and features. The product is delivered prewired and is ready for connection after installation at the local power supply and the commissioning by a qualified electrician.

#### Model AMTRON® Basic 3,7 C2

- Charging coupler type 2 to 3.7 kW (single-phase) with 5m line length
- FI-switch 25 A, 2 p, type A (sensitive to pulsating currents)
- LS-switch 16 A, C, 1 p/loadbreaking 16 A, 2 p
- Multi-function push-button with LED status display
- Calibrated digital energy meter, readable from the outside, incl. system control for FI, LS, contactor and phase failure
- Key switch, MENNEKES CPX-Box

#### Model AMTRON® Basic 11 C2

- Charging coupler type 2 to 11 kW with 5 m line length
- FI-switch 40 A, 4 p, type B (sensitive to universal current)
- LS-switch 16 A, C, 3 p/loadbreaking 16 A, 4 p
- Multi-function push-button with LED status display
- Calibrated digital energy meter, readable from the outside, incl. system control for FI, LS, contactor and phase failure
- Key switch, MENNEKES CPX-Box

#### Model AMTRON® Basic 22 C2

- Charging coupler type 2 to 22 kW with 5 m line length
- FI-switch 40 A, 4 p, type B (sensitive to universal current)
- LS-switch 32 A, C, 3 p/loadbreaking 32 A, 4 p
- Multi-function push-button with LED status display
- Calibrated digital energy meter, readable from the outside, incl. system control for FI, LS, contactor and phase failure
- Key switch, MENNEKES CPX-Box

#### Model AMTRON® Basic 3,7

- Charging plug type 2 up to 3,7 kW (single-phase)
- FI-switch 25 A, 2 p, type A (sensitive to pulsating currents)
- LS-switch 16 A, C, 1 p/loadbreaking 16 A, 2 p
- Multi-function push-button with LED status display
- Calibrated digital energy meter, readable from the outside, incl. system control for FI, LS, contactor and phase failure
- Key switch, MENNEKES CPX-Box

#### Model AMTRON® Basic 11

- Charging plug type 2 up to 11 kW (three-phase)
- FI-switch 40 A, 4 p, Typ B (sensitive to universal current)
- LS-switch 16 A, C, 3 p/loadbreaking 16 A, 4 p
- Multi-function push-button with LED status display
- Calibrated digital energy meter, readable from the outside, incl. system control for FI, LS, contactor and phase failure
- Key switch, MENNEKES CPX-Box

### Accessories

#### Charging cable 7,5 m, up to 11 kW type LK 11

- Length 7,5 m with charging plug and coupler type 2 20 A
- 400 V 3p+N+PE as well as PP + CP for mode 3 charging
- Resistor codification 680 Ohm between PE and PP
- Connection wire H07BY-F 5G2,5 + 1 x 0,5 mm<sup>2</sup> blue
- Plug according to IEX 62196-2

#### Stainless steel racket for AMTRON dev. type ES-AMTRON®

- Dim. approx: 1330x300x120 mm (LxWxH)

#### Cover for stainless steel racket type ESH-AMTRON®

- For use with stainless steel racket type ES-AMTRON®

part no.	price EUR
77 021	Request
77 022	Request
77 023	Request
77 024	Request
77 025	Request
77 500	Request
77 501	Request
77 502	Request



Mod. Progress 14

Mod. Progress 20



Mod. Progress 35



Mod. Starter 260



Mod. Rapid 380



Mod. Sprintcar 341

## Battery Charger

The devices only have W charging characteristic and must cut off the battery and switch off after charging of battery is finished. Solid and suitable for continuous use. When using the device the charging process has to be supervised.

### Model Progress 14

Semi-professional battery chargers, ease of use. For agriculture, construction firms and work shops.

- Power 140 W, **Battery Voltage 6/12 V**
- Maximum charging current 11 A, Charging Positions: 2
- Dim. 200 x 260 x 175 mm (L x W x H), 4 kg

### Model Progress 20

Semi-professional battery chargers, ease of use. For agriculture, construction firms and work shops.

- Power 300 W, **Battery Voltage 12/24 V**
- Maximum charging current 16 A, Charging Positions: 2
- Dim. 200 x 260 x 175 mm (L x W x H), 7 kg

### Model Progress 35

Professional battery chargers for big charging stations, battery service and industry.

- Power 920 W, **Battery Voltage 6/12/24 V**
- Maximum charging current 38 A, Charging Positions: 12
- Dim. 245 x 250 x 435 mm (L x W x H), 18 kg

### Additional freight charges for model Progress 35

## Battery charger and starter

### Model Starter 260

Portable battery charger and starter. For agriculture, workshops, handcraft and private use.

- Incl. ammeter, thermal overload protection and charging current control selector
- Power 250 W, **Battery Voltage 12/24 V**
- Max. charging current 18 A, Charging Positions: 2
- Maximum boosting current 200A
- Dim. 230 x 215 x 295 mm (L x W x H), 9,6 kg

### Model Rapid 380

Portable battery charger and starter. For agriculture, workshops, handcraft and private use.

- Incl. ammeter, thermal overload protection and charging current control selector
- Power 900 W, **Battery Voltage 12/24 V**
- Max. charging current 38 A, Charging Positions: 2
- Maximum boosting current 280A
- Dim. 235 x 220 x 335 mm (L x W x H), 13,6 kg

### Model Sprintcar 341

Professional battery charger and starter **on wheels**.

- Incl. ammeter, thermal overload protection and charging current control selector
- Power 1000 W, **Battery Voltage 12/24 V**
- Max. charging current 45 A, Charging Positions: 4
- Maximum boosting current 300A
- Dim. 415 x 250 x 650 mm (L x W x H), 18,5 kg

### Additional freight charges for model Sprintcar 341

part no.	price EUR
77 200	118,31
77 201	178,06
77 202	464,86
	Request
77 210	201,96
77 211	321,46
77 212	393,16
	Request



Mod. Autostar 300



Mod. Autostar 500



Mod. Autostar 701



Mod. Autostar 2000

**CPS** - The patented CPS – Safe Car System allow the charge or starting (boosting) of vehicles in safety mode with the goal to preserve the integrity of both the battery and electronics on board.

**Autostar Range:**

Starting (Boosting) function with safety mode. Thanks to CPS – Car Protection System, the Autostar range allow the boosting of the vehicles in total safety. An electronic control allow verifying the charge status of the battery on board. The boosting start only under certain conditions. The PCB control the output voltages spikes in order to protect the electronics on board.

**Battery Charger and Starter**

Autostar battery charger and starter are optimal for the daily work routine in workshops. On wheels or portable. When engine is started the battery charger and starter stops automatically. No remote control necessary.

**Modell Autostar 300**

Professional, portable battery charger and starter.

**For workshops, agriculture and vans.**

- Incl. ammeter, thermal overload protection and charging current control selector
- Power 460 W, **Battery Voltage 12**
- Max. charging current 38 A, Charging Positions: 2
- Maximum boosting current 300A
- Dim. 250 x 345 x 280 mm (L x W x H), 14,4 kg

**Modell Autostar 500**

Professional, portable battery charger and starter.

**For workshops, agriculture and vans.**

- Incl. ammeter, thermal overload protection and charging current control selector
- Power 1.300 W, **Battery Voltage 12/24 V**
- Max. charging current 55 A, Charging Positions: 2
- Maximum boosting current 280A
- Dim. 235 x 220 x 335 mm (L x W x H), 13,6 kg

**Modell Autostar 701**

Professional battery charger and starter on wheels.

**For workshops, agriculture and truck service.**

- Incl. ammeter, thermal overload protection and charging current control selector
- Power 1.800 W, **Battery Voltage 12/24 V**
- Max. charging current 75 A, Charging Positions: 4
- Maximum boosting current 300A
- Dim. 415 x 250 x 650 mm (L x W x H), 18,5 kg

**Additional freight charges for model Autostar 701**

Request

**Modell Autostar 1300 (without illustr.)**

Professional battery charger and starter, solid version **with wheels for workshops and agriculture.**

- Incl. ammeter, thermal overload protection and charging current control selector
- Power 2.900 W, **Battery Voltage 12/24 V**
- Max. charging current 120 A, Charging Positions: 12
- Maximum boosting current 1.300A
- Dim. 575 x 330 x 770 mm (L x W x H), 67,4 kg

**Modell Autostar 2000**

Professional battery charger and starter, solid version **with wheels for workshops and agriculture.**

- Incl. ammeter, thermal overload protection and charging current control selector
- Power 3.500 W, **Battery Voltage 12/24 V**
- Max. charging current 150 A, Charging Positions: 12
- Maximum boosting current 2.000A
- Dim. 575 x 330 x 770 mm (L x W x H), 89,2 kg

**Additional freight charges for mod. Autostar 1300/2000**

Request

part no.	price EUR
77 220	440,96
77 221	536,56
77 222	835,31
77 223	2.269,31
77 224	3.165,56

Rated Reference Capacity Helvi battery charger

Model	Battery Size						Charge time
	2 Ah	8 Ah	20 Ah	60 Ah	100 Ah	500 Ah	
Progress 14	–	2 h	3,5 h	7 h	10 h	–	40 Minuten
Progress 20	–	1 h	2 h	3,5 h	6 h	–	30 Minuten
Progress 35	–	–	2 h	5 h	7 h	15 h	10 Minuten
Starter 260	–	–	2 h	5 h	7 h	15 h	10 Minuten
Rapid 380	–	–	1 h	5 h	7 h	15 h	10 Minuten
Sprintcar 341	–	–	1 h	5 h	7 h	15 h	10 Minuten
Autostar 300	–	–	1 h	5 h	7 h	15 h	10 Minuten
Autostar 500	–	–	1 h	5 h	7 h	15 h	10 Minuten
Autostar 701	–	–	1 h	5 h	7 h	12 h	10 Minuten
Autostar 1300	–	–	–	4 h	7 h	10 h	5 Minuten
Autostar 2000	–	–	–	4 h	6 h	7 h	5 Minuten
Automatic 30	–	1 h	2 h	5 h	7 h	15 h	10 Minuten
Digicar 540 E/1	–	–	1 h	5 h	7 h	15 h	5 Minuten
Digicar 1100 E/1	–	–	1 h	5 h	7 h	12 h	5 Minuten
Discovery Moto	2 h	8 h	15 h	–	–	–	40 Minuten
Discovery 60 Plus	2 h	6 h	6 h	8 h	12 h	–	20 Minuten
Discovery 120 Plus	2 h	6 h	6 h	7 h	10 h	–	15 Minuten
Discovery 250	2 h	5 h	5 h	7 h	8 h	15 h	10 Minuten
Explorer 25	2 h	4 h	4 h	5 h	5 h	15 h	10 Minuten
Explorer 40	2 h	4 h	4 h	5 h	5 h	10 h	10 Minuten
Explorer Flash 150	–	–	–	3 h	3 h	–	5 Minuten

■ Recommended   ■ Limited recommended   ■ Not recommended



Mod. Automatic 30

Mod. Digicar 540 E/1

**CPS** - The patented CPS – Safe Car System allow the charge or starting (boosting) of vehicles in safety mode with the goal to preserve the integrity of both the battery and electronics on board.

**Digicar Range:**  
Digicar range provides safe boost function as well as the possibility of controlling the battery and charging it in an efficient way without cut off the battery of its connections.

### Battery charger with electronic starter

New generation of professional battery charger with starter on wheels. Thank of digital control the Digicar range enables the boosting of modern batteries without the risk of damages to the electronic cards fitted on motor vehicles. Equipped with digital ammeter, voltmeter voltage and current selectors, timer, automatic thermal overload protection. **Ideal for AGM, GEL, Ca, and lead batteries.** Automatic charging and maintenance function.

#### Model Automatic 30

- Suitable for passenger cars and vans
- Power 720 W, **Battery Voltage 12/24 V**
- Maximum charging current 30 A
- Automatic charging and maintenance function
- Warning LEDs indicate the battery condition
- Dim. 235 x 220 x 335 (L x W x H), 10,1 kg

#### Model Digicar 540 E/1

Professional, portable battery charger and starter on wheels. For AGM, Gel, Start/Stop or traditional lead batteries

- Power 1320 W, **Battery Voltage 12/24 V**
- Maximum charging current 55 A /27,5 A,
- Charging Positions: infinitely
- Maximum boosting current 350A
- Dim. 415 x 260 x 650 mm (L x W x H), 20,9 kg

#### Model Digicar 1100 E/1 (without illustr.)

Professional, portable battery charger and starter on wheels. For AGM, Gel, Start/Stop or traditional lead batteries.

- Power 2.200 W, **Battery Voltage 12/24 V**
- Maximum charging current 100/50 A,
- Charging Positions: infinitely
- Maximum boosting current 580 A
- Dim. 487 x 320 x 745 mm (L x W x H), 33,5 kg

**Additional freight charges for models Digicar**

part no.	price EUR
77 232	452,91
77 230	775,56
77 231	1.193,81
	Request



Mod. Discovery Moto



Mod. Discovery 60



Mod. Discovery 120



Mod. Discovery 250



Mod. Explorer 25



Mod. Explorer 40



Mod. Explorer Flash 150

### Electronic Battery Charger Discovery Range

The new range of electronic battery charger with no output voltage spikes, which can damage the vehicles circuit boards. **Ideal for charging AGM, GEL and lead battery.**

#### Model Discovery Moto

New range of completely electronic battery charger. No output voltage spikes.

- Power 21 W, **Battery Voltage 12 V**
- Maximum charging current 1,5 A
- 3 Level Charging Process
- Dim. 165 x 65 x 110 mm (L x W x H), 0,3 kg

#### Model Discovery 60 Plus

New range of completely electronic battery charger. No output voltage spikes.

- Power 65 W, **Battery Voltage 6/12 V**
- Maximum charging current 4,0 A
- 4 Level Charging Process
- Dim. 225 x 80 x 50 mm (L x W x H), 0,65 kg

#### Model Discovery 120 Plus

New range of completely electronic battery charger. No output voltage spikes.

- Power 135 W, **Battery Voltage 12 V**
- Maximum charging current 8,0 A
- 9 Level Charging Process
- Incl. Desulphatation function and LCD display
- Dim. 235 x 100 x 60 mm (L x W x H), 0,85 kg

#### Model Discovery 250

New range of completely electronic battery charger. No output voltage spikes.

- Power 720 W, **Battery Voltage 12/24 V**
- Maximum charging current 30 A,
- 9 Level Charging Process
- Incl. desulphation function and lcd display
- Dim. 235 x 220 x 335 (L x W x H), 10,1 kg

### Electronic Battery Charger Explorer Range

Latest Generation of professional battery charger with inverter technology. Equipped with digital ammeter and voltmeter, thermal overload protection, protection against short circuits and polarity reversal. Charge current selector and charge timer. Charge function is carried out without output voltage peaks, which could damage the electronic cards fitted on motor vehicles. **Ideal for charging the new generation of batteries.**

#### Model Explorer 25

New generation of professional battery charges with inverter technology. Ideal for charging of modern batteries.

- Power 350 W, **Battery Voltage 12/24 V**
- Maximum charging current 25/12,5 A,
- Charging Positions: infinitely
- Dim. 315 x 115 x 225 (L x W x H), 3,9 kg

#### Model Explorer 40

New generation of professional battery charges with inverter technology. Ideal for charging of modern batteries.

- Power 600 W, **Battery Voltage 12/24 V**
- Maximum charging current 40/20 A,
- Charging Positions: infinitely
- Dim. 315 x 115 x 225 (L x W x H), 3,9 kg

#### Modell Explorer Flash 150

Inverter technology based multi-process battery charger. Capable of charging, diagnostic, showroom, battery changing and regeneration needs.

- **Battery Voltage 12 V**
- Maximum charging current 150 A
- Continuous charging current 120A~130A
- Power 2400 W
- Capacity 10~1200 Ah

part no.	price EUR
77 240	58,56
77 241	82,46
77 242	142,21
77 243	197,18
77 250	405,11
77 251	476,81
77 253	1.313,31



## Digital Battery Tester

### Modell T1

12V Digital Read-out Battery Tester

- Test and control of passenger car battery
- Check battery charge power, battery overcharging indication
- Incl. USB socket for powering mobile phones or tablets
- Direct 12V cigarette socket plug-in
- Dimensions: 90 x 55 x 30 (L x W x H), 0,2 kg

### Modell T5

Professional Battery Analyzer for 12V passenger car batteries

- Ease of use: Touch screen and pictograms only
- Reverse polarity and short circuit protection
- Data transfer to PC
- Testing standard CCA, SAE, EN, IEC, DIN, CA, JIS
- Safe keeping in premium carry-on case
- Dim. Set: 320 x 105 x 285 (L x W x H), 1,3 kg

### Modell T10

Professional Battery Analyzer for 12V passenger car batteries

- Ease of use: Touch screen and pictograms only
- Reverse polarity and short circuit protection
- **Built-in printer**, Data transfer to PC
- Testing standard CCA, SAE, EN, EN1, EN2, IEC, DIN, CA/MCA, JIS
- Safe keeping in premium carry-on case
- Dim. Set: 320 x 105 x 285 (L x W x H), 1,6 kg

part no. price EUR

77 270 46,61

77 271 321,46

77 272 548,51

part no.	Model	Input Voltage	Battery Voltage (V)	Charge Position	Booster	Max. charge capacity at 15 h charging time	Float Charge	Timer	CPS (Boost)	CPS (Charge)	Inverter Technology	Battery type			Recommended			
												Lead	AGM-, Gel-, Ca, Start/Stop	Lithium LiFePo <sub>4</sub>	Motorbikes	Cars	Trucks	
77 200	Progress 14	230 V	6/12	2	-	112 Ah												
77 201	Progress 20	230 V	12/24	2	-	165 Ah												
77 202	Progress 35	230 v	6/12/24	12	-	375 Ah												
77 210	Starter 260	230 V	12/24	2	200 A	185 Ah												
77 211	Rapid 380	230 V	12/24	2	280 A	375 Ah												
77 212	Sprintcar 341	230 V	12/24	4	300 A	450 Ah												
77 220	Autostar 300	230 V	12	2	300 A	375 Ah			■									
77 221	Autostar 500	230 V	12/24	6	450 A	540 Ah				■								
77 222	Autostar 701	230 V	12/24	6	580 A	750 Ah		■	■									
77 223	Autostar 1300	230/400 V	12/24	12	1.300 A	1.200 Ah		■	■									
77 224	Autostar 2000	230/400 V	12/24	12	2.000 A	1.800 Ah		■	■									
77 232	Automatic 30	230 V	12/24	∞	-	300 Ah	■			■								
77 230	Digicar 540 E/1	230 V	12/24	∞	380 A	540 Ah	■	■	■	■								
77 231	Digicar 1100 E/1	230 V	12/24	∞	550 A	600 Ah	■	■	■	■								
77 240	Discovery Moto	230 V	12	∞	-	9/20 Ah	■			■	■							
77 241	Discovery 60 Plus	230 V	6/12	∞	-	120 Ah	■			■	■							
77 242	Discovery 120 Plus	230 V	12	∞	-	180 Ah	■			■	■							
77 243	Discovery 250	230 V	12/24	∞	-	250 Ah	■			■	■							
77 250	Explorer 25	230 V	12/24	∞	-	380 Ah	■	■		■	■							
77 251	Explorer 40	230 V	12/24	∞	-	600 Ah	■	■		■	■							
77 253	Explorer Flash 150	230 V	12	∞	-	2.350 Ah	■	■		■	■							

**NEW**

Mod. Power Up 8.0



Mod. Booster B 22



Mod. Booster B 2X22



Mod. Booster C 1200



Mod. Booster C 3400

**Portable Charger**

**Portable Charger Series Power Up**

Multifunction portable charger and booster. Booster (12V for car engine up to 3.5 L). Charging of electrical devices. Equipped with short-circuit, overload, over-discharge, polarity inversion and overvoltage protection.

**Model Power Up 8.0**

- Full charging time +/- 2 Std.
- Start current 12V/ 200A
- Peak current 12V/ 500A
- Capacity 8.000 mAh
- Dim. approx. 156 x 83 x 29 mm (L x B x H), 0,35 kg

**Rechargeable Booster Series Booster B**

Mobile, rechargeable booster with tough, shock-resistant housing. For gasoline and diesel cars.

**Model Booster B 15 (ohne Abb.)**

- Battery Voltage 12 V
- Battery capacity 15 Ah
- Start current 350 A
- **Peak current 1.600 A**
- Weight approx. 6,7 kg

**Model Booster B 22**

- Battery Voltage 12 V
- Battery capacity 22 Ah
- Start current 850 A
- **Peak current 2.500 A**
- Weight approx. 11,8 kg

**Model Booster B 2X22**

- Battery Voltage 12 / 24 V
- Battery capacity 2x 22 Ah
- Start current 1.700 / 850 A
- **Peak current 5.000 / 2.500 A**
- Weight approx. 22,4 kg

**Rechargeable Booster Series Booster C (no battery)**

New rechargeable booster with capacitors. No battery inside. Ultra capacitors are recharged by rest energy of low charated battery. For gasoline and diesel cars.

**Modell Booster C 1200 (batterielos)**

- Battery Voltage 12 V
- Temperature range -20 to +40° C
- **Peak current 4.300 A**
- Weight approx. 5,5 kg

**Modell Booster C 3000 (batterielos) (ohne Abb.)**

- Battery Voltage 12 V
- Temperature range -20 to +40° C
- **Peak current 9.000 A**
- Weight approx. 8,5 kg

**Modell Booster C 3400 (batterielos)**

- Battery Voltage 12 / 24 V
- Temperature range -20 to +40° C
- **Peak current 18.000 / 9.000 A**
- Weight approx. 18,0 kg

part no. price EUR

77 287 154,16

77 280 273,66

77 281 357,31

77 283 895,06

77 284 668,01

77 285 1.110,16

77 286 1.492,56



Mod. ABB-A 610 inkl. ABB-Deckel



Mod. ABB 400

## Battery Disposal Box

For indoor and outdoor storage and safe transport of used batteries.

### Model ABB-A 610

Battery disposal box, optimal storage and transport

- **Volume 610 ltr.**
- For indoor storage
- PE plastic high density (PEHD)
- Mostly acid-proof
- Stackable, safe transport
- Can be loaded up to 600 kg as individual box,
- Up to 450 kg per box when stacked up (up to 6 boxes)
- For transport of used batteries according to ADR 4.1.4.1. P801A
- Equipped with 3 runners
- Labelled with danger warnings
- Lid not included
- Dim. approx. 1200x1000x760 mm (LxWxH)

### Accessories

#### Type ABB-Deckel (without illustr.)

- Lid for battery disposal box model ABB-610
- Dim. approx. 12015x1015x60 mm (LxWxH)

### Model ABB 200 (without illustr.)

Battery disposal box, optimal storage and transport

- **Volume 200 ltr.**
- For outdoor storage
- Stable GRP model enables clean and safe storage of used batteries
- Mostly acid-proof
- Stackable, safe transport
- Approved for the transport of used batteries according to ADR 4.1.4.1. P801A
- 2 ventilation openings and zinc coated steel base frame for safe positioning
- All fittings stainless steel
- Inserted wooden grate forms a plain base surface
- Lockable lid
- Labelled with danger warnings
- Dim. approx. 890x590x810 mm (LxWxH)

### Model ABB 400

Identical to battery disposal box model ABB 200 but

- **Volume 400 ltr.**
- For outdoor storage
- Dim. approx. 1200x800x810 mm (LxWxH)

### Modell ABB 700 (without illustr.)

Identical to battery disposal box model ABB 200 but

- **Volume 700 ltr.**
- For outdoor storage
- Dim. approx. 1340 x 990 x 1100 mm (LxWxH)

### Additional freight charges for models ABB

part no.	price EUR
25 329	495,93
25 508	161,33
25 330	711,03
25 331	1.069,53
25 332	1.428,03
	Request

NEU



**Magnet tools**

**Magnet broom model ZT 10**

Designed to collect small metal and steel parts such as screws, nails and small tools (conductive metals) of the floor without problems.

- Permanent magnet incl. demagnetisation
- Broom width approx. 400 mm
- Telescope handle, approx. 750 up to 1050 mm continuously adjustable

**Magnet broom model ZT 25**

Designed to collect small metal and steel parts such as screws, nails and small tools (conductive metals) of the floor without problems. Robust construction

- Permanent active magnet, incl. Demagnetising
- Broom width approx. 450 mm
- Telescope handle, approx. 640 up to 1020 mm as well as tilt angle continuously adjustable

**Magnet tracer model ZT 19**

Designed to collect small metal and steel parts such as screws, nails and small tools (conductive metals) of the floor without problems.

- Permanent active magnet
- Telescope handle, approx. 660 up to 1080 mm continuously adjustable

**Magnet stick model ZT 17**

Designed to efficiently pick up small iron or steel parts or swarf.

- Easy to discard the parts by pulling the central stick
- Permanent active magnet
- Total length approx. 410 mm

**Magnetic broom for lift trucks unit mod. ZT 6**

Strong and durable magnet for removal of dangerous and annoying metal parts on circulation areas, floors etc.

- Permanent magnet incl. demagnetization
- Simple mounting on the forklift, fork pockets 125 x 40 mm (W x H)
- Picks-up metal parts from up to 140 mm distance, intake capacity up to 80 kg
- Dimensions approx. 910 x 100 x 127 mm (L x W x H) (without fork pockets)

**Magnet tray model ZT 7**

Magnetic tray to safely deposit magnetisable small parts made out of iron or steel.

- Permanent active magnet, no additional energy necessary
- Dim. approx. 240 x 140 mm

**Magnet tray model ZT 8**

Magnetic tray to safely deposit magnetisable small parts made out of iron or steel.

- Permanent active magnet, no additional energy necessary
- Dim. approx. 360 x 160 mm

part no. price EUR

98 001 82,46

98 007 154,16

98 002 23,30

98 003 58,56

98 008 357,31

98 004 23,78

98 005 29,76



Mod. 89 MXA



Mod. 89 XDB



Mod. 89 XHB



Type MXA-AA



Type MXA-MS



Type QST



Type QSL



Type UVA

## Tire pressure regulator

This regulators are designed for garages, car rentals agencies, petrol stations, service centers and forwarding agencies. The desired air pressure can be pre-selected and confirmed by the +/- button. The filling starts automatically as soon as the hose is connected to the tire and stops once the desired pressure is reached. A micro controller reads the current tire pressure. An acoustic signal confirms the successful end of the filling.

### Model 89 MXA

#### Wall unit for cars and trucks

- Up to 7 different modes, there under one for garages for checking the pressure of tyre and refilling as well as one for workshops for inflating and checking the pressure of tyre during the tyre fitting.
- Preselection of desired pressure
- Digital display selectable either in bar, psi or kPA
- For compressed air as well as for nitrogen
- 2 m filling hose with chuck
- Dim. approx. 155 x 155 x 90 mm (LxWxH)
- 1,8 kg
- **PTB-licensed**

### Model 89 XDB

#### Wall unit for cars and trucks, for outside use

- Housing Aluminum made, varnished, IP 66
- 10 m filling hose with chuck
- 230 V, 50/60 Hz
- Pressure min. 0,3 bar - max. 10 bar accuracy 0,02 bar
- Dim. approx. 270 x 285 x 110 mm (LxWxH), 3,5 kg
- **PTB-licensed**

### Model 89 XHB

(without illustr.)

#### Mobile unit for truck, for outside use

- Housing Aluminum made, varnished, IP 66
- 10 m filling hose with chuck
- 230 V, 50/60 Hz
- pressure min. 0,3 bar - max 12,4 bar accuracy 0,02 bar
- Dim. approx. 270 x 285 x 110 mm (LxWxH), 3,5 kg
- **Not calibratable**

### Model 89 XDH

#### Wall unit for aircraft, for outside use

- Housing Aluminum made, varnished, IP 66
- 10 m filling hose with chuck
- 230 V, 50/60 Hz
- pressure min. 0,3 bar - max. 21 bar, accuracy 0,02 bar
- dim. approx. 270 x 285 x 110 mm (LxWxH), 3,5 kg

## Accessories

(without illustr.)

#### 5 m filling hose for 89 MXA, type VS 89-5

#### 10 m filling hose for 89 MHB, type VS 89 XHB-10

#### Mounting bracket for 89 MXA type MK 89

#### Adapter for air connection for 89 MXA type MXA-AA

#### Momentary plug for air connection type MXA-MS

#### Quickshot connection for quick inflation type QST

- For quick inflation of car and other tyres
- With chuck and knurled screw to loosen the valve

#### Quickshot connection for quick inflation type QSL

- For quick inflation of truck tyres
- With chuck and knurled screw to loosen the valve

#### Universal valve cap type UVA

- For quick and safety connection of tire valves (steel and rubber)

part no.	price EUR
76 006	715,81
76 001	1.009,78
76 008	1.308,53
76 007	Request
76 503	65,73
76 511	106,36
76 504	59,63
76 506	23,78
76 507	23,78
76 505	58,56
76 508	70,51
76 509	82,46



Mod. 89 BEP

Patent pending RAPID-  
**SCS**  
Safety Control System

Mod. 89 FRP

**Tire pressure regulator**

This regulators are designed for garages, car rentals agencies, petrol stations, service centers and forwarding agencies.

The desired air pressure can be pre-selected and confirmed by the +/- button. The filling starts automatically as soon as the hose is connected to the tire and stops once the desired pressure is reached. A micro controller reads the current tire pressure. An acoustic signal confirms the successful end of the filling.

**Model 89 BEP**

**Standing unit for cars and lorries, outside**

- Aluminium casing, varnished, IP 46
- 8 m connection hose, water pressure fittings
- 230 V, 50 / 60 Hz
- Pressure min. 0,3 bar - max. 10 bar, accuracy 0,02 bar
- Dim. approx. 1400 x 310 x 310 mm (L x W x H), 24 kg
- **PTB-licensed**

- Conformity assessment / calibratable version
- Optional: Heater for temp. of -20°C up to +60°C

**Model 89 FEB**

(without illustr.)

- Identical with model 89 BEP, but
- Oval design, not rectangular
- **PTB-licensed**
- Conformity assessment / calibratable version

**Model 89 FRP**

**Standing unit for cars and lorries, outside**

- Aluminium casing, varnished, IP 44
- 2 autom. hose reels for water and air 8 m NPS 06
- 230 V, 50 / 60 Hz
- Pressure min. 0,3 bar - max. 10 bar, accuracy 0,02 bar
- Dim. approx. 1400 x 480 x 400 mm (L x W x H), 40 kg
- **PTB-licensed**

- Conformity assessment / calibratable version
- Optional: Heater for temp. of -20°C up to +60°C

- Optional: Water pressure set
- Optional: Compressor
- **Optional: Rapid-SCS®** - controlled reeling technology

**Please state if unit will be used for cars or lorries when ordering!**

**Type Rapid-SCS (Series 3)**

- Surcharge for Rapid-SCS Series 3

**Type Rapid-SCS (Series 4)**

- Surcharge for Rapid-SCS Series 4

**Additional freight charges for models 89 BEP/FEB/FRP**

**Accessories**

(without illustr.)

**Cabint heater type KH**

- Heater for outside temp. of -20 °C up to +60 °C
- For installation in 89 BEP, FEB and FRP

**Cabint heater type 89 WH**

- Heater for outside temp. of -20 °C up to +60 °C
- For installation in 89 XDB, XHB und XDH

**Dispensing hose type LVS 89**

- Hose for mod.-series 89 (except 89 FRP), 8 m NPS 10

**Adapter for air connection for 89 MXA type MXA-AA**

**Maintenance unit type LWE 06**

- With fog oiler, filter and water separator, G 1/4" int. th. / int. th.

**Maintenance unit type LWE 10**

- With fog oiler, filter and water separator, G 3/8" int. th. / int. th.

**Other sizes of filling hose on supply**

part no.	price EUR
76 003	Request
76 004	Request
76 005	Request
03 599	130,26
04 599	166,11
	Request
76 500	Request
76 510	Request
76 501	Request
76 506	23,78
20 537	51,27
20 501	89,63



Mod. UT 8110/1

**PNEUTEC classics**

**1/2" Mini-Impact air wrench Modell UT 8110/1**

- JUMBO-HAMMER-clutch system
- **One hand operation**
- One hand operation
- Motor housing made of composite material
- Three power settings in forward and reverse direction
- Length approx. 109 mm, **weight only approx. 1,3 kg**
- Air consumption 2,0 l/s, air connection R 1/4"
- Speed: 9.000 min<sup>-1</sup>
- Working torque: 110 - 420 Nm
- **Max. torque: 695 Nm**

part no. price EUR

90 102 192,43



Mod. UT 8151

**1/2" Impact air wrench Model UT 8151**

- Durable and powerful TWIN-HAMMER clutch system, exhaust air through handle
- **One hand operation**
- Motor housing made of composite material
- 3 power settings in forward direction and full power on reserve
- Length approx. 187 mm, weight only approx. 1,9 kg
- Air consumption 1,9 l/s, air connection R 1/4"
- Speed: 8.000 min<sup>-1</sup>
- Working torque: 100 - 500 Nm
- **Max. torque: 1.115 Nm**

90 122 241,88



Mod. UT 8181

**1/2" Impact air wrench model UT 8181**

- Durable and powerfull TWIN-HAMMER clutch system, exhaust air through handle
- Motor housing made of composite material
- Air exhaust through handle, three power settings in forward and reverse direction
- Max. Torque: 1.290 Nm

90 101 267,68



Mod. UT 5720

**Die grinder model UT 5720**

- Economical medium die grinder with safety throttle to prevent from unintended start-up
- Performance 0,2 kW, collet 6 mm Ø
- Length approx. 176 mm, weight approx. 0,6 kg
- Air consumption 8,5 l/s, air connection R 1/4"
- Max. speed: 22.000 min<sup>-1</sup>

92 006 84,93



Mod. ZT 11/1

**Magnetic tool handle model ZT 11/1**

- Magnetic tool handle with 2 magnets for using on car lifts or other metallic articles
- Planned for 1x impact air wrench, 5x impact sockets, 1x adjustable torque wrench

98 010 52,68



## BASIC LINE



Mod. UT 8122



Mod. UT 8322



Mod. UT 8422



Mod. UT 84128

### Basic Line

#### 1/2" Impact air wrench model UT 8122

- Pin clutch hammer system for fast torque built-up
- One hand operation
- Air exhaust through handle with cushion grip directs air away from working area
- 3 power settings in forward direction and full power on reserve
- Length approx. 194 mm, weight only approx 2,2 kg
- Air consumption 3,7 l/s, air connection R 1/4"
- Speed: 6.500 min<sup>-1</sup>
- Working torque: 100 - 300 Nm
- **Max. torque: 600 Nm**

#### 3/4" Impact air wrench model UT 8322

- Durable and powerful TWIN-HAMMER clutch system, exhaust air through handle
- **One hand operation**
- 3 power settings in forward direction and full power on reserve
- Length approx. 245 mm, weight only approx. 4,8 kg
- Air consumption 4,5 l/s, air connection R 1/4"
- Speed: 4.600 min<sup>-1</sup>
- Working torque: 350-900 Nm
- **Max. torque: 1.350 Nm**

#### 1" Impact air wrench model UT 8422

- Durable and powerful TWIN-HAMMER clutch system, exhaust air through handle
- One hand operation
- 3 power settings in forward direction and full power on reserve
- Length approx. 235 mm, weight approx. 7,0 kg
- Air consumption 8,0 l/s, air connection R 1/4"
- Speed: 4.200 min<sup>-1</sup>
- Working torque: 500-1200 Nm
- Max. torque: 2.500 Nm

#### 1" Impact air wrench model UT 84226 (without illustr.)

- Identical with model UT 8422, but:
- 6" extended anvil
- Length approx. 385 mm, weight approx. 8,5 kg
- Air consumption 8,0 l/s, air connection R 1/4"
- Speed: 4.200 min<sup>-1</sup>
- Working torque: 500-1200 Nm
- Max. torque: 2.300 Nm

#### 1" Impact air wrench Model UT 84128

- Lightweight, durable cast aluminium housing
- Additional side handle for easy operation
- Extended **8"-anvil** for extra deep reach
- 3 stages in forward and reverse
- Powerful pinless impact mechanism
- Length approx. 570 mm, weight approx. 13,8 kg
- Air consumption 5,0 l/s, air connection R 1/2"
- Speed: 3.500 min<sup>-1</sup>
- Working torque: 500-1200 Nm
- **Max. torque: 2.800 Nm**

part no.

price EUR

90 125

106,43

90 325

299,93

90 432

482,68

90 433

536,43

90 408

536,43

## HITEC LINE



Mod. UT 8137



Mod. UT 8157



Mod. UT 8357



Mod. UT 8001 A



Mod. UT 8001 B

### Impact air wrench

#### 1/2" Impact air wrench model UT 8137

- Pin clutch hammer system for fast torque built-up
- **One hand operation**
- Air exhaust through handle with cushion grip directs air away from working area
- 3 power settings in forward direction and full power on reserve
- Length approx. 200 mm, weight approx. 2,0 kg
- Air consumption 2,9 l/s, air connection R 1/4"
- Speed: 6.500 min<sup>-1</sup>
- Working torque: 400 - 600 Nm
- **Max. torque: 600 Nm**

#### 1/2" Impact air wrench model UT 8157

- Durable and powerful TWIN-HAMMER clutch system, exhaust air through handle
- Motor housing made of composite material
- 360° swivel air inlet
- 3 power settings in forward direction and full power on reserve
- Length approx. 192 mm, weight approx. 2,0 kg
- Air consumption 2,5 l/s, air connection R 1/4"
- Speed: 6.000 min<sup>-1</sup>
- Working torque: 320 - 700 Nm
- **Max. torque: 950 Nm**

#### 3/4" Impact air wrench model UT 8357

- Durable and powerful TWIN-HAMMER clutch system, exhaust air through handle
- Motor housing made of composite material
- 360° swivel air inlet
- 3 power settings in forward direction and full power on reserve
- Length approx. 240 mm, weight approx. 3,0 kg
- Air consumption 3,0 l/s, air connection R 1/4"
- Speed: 4.000 min<sup>-1</sup>
- Working torque: 390 - 1.210 Nm
- **Max. torque: 1.550 Nm**

### Air ratchet wrench

#### 1/4" Air ratchet wrench model UT 8001 A

- Cushion grip handle for comfort and excellent handling, length 203 mm, approx. 0,6 kg
- Small and handy design
- Rear exhaust 360° swiveling, low noise 85 dBA
- Reversible for forward and reverse direction
- Air consumption 2,4 l/s, air connection R 1/4"
- Working torque: 250 min<sup>-1</sup>
- **Max. torque: 40 Nm**

#### 3/8" Air ratchet wrench model UT 8001 B

- Cushion grip handle for comfort and excellent handling, length 203 mm, approx. 0,6 kg
- Small and handy design
- Rear exhaust 360° swiveling, low noise 85 dBA
- Reversible for forward and reverse direction
- Air consumption 2,4 l/s, air connection R 1/4"
- Working torque: 250 min<sup>-1</sup>
- **Max. torque: 40 Nm**

part no. price EUR

90 110 106,43

90 111 213,93

90 300 482,68

91 000 106,43

91 100 106,43

## HITEC LINE



Mod. UT 5015 D



Mod. UT 8831 S



Mod. UT 8715



Mod. UT 8710 D



Mod. UT 5760 B



Mod. UT 8788 C

### Air ratchet wrench

#### 1/2" Air ratchet wrench UT 5015 D

- Cushion grip handle for comfort and excellent handling, length 284 mm, approx. 1,2 kg
- Reversible for forward and reverse direction
- Side exhaust 360° swiveling, low noise 85 dBA
- Air consumption 1,9 l/s, air connection R 1/4"
- Speed: 180 min<sup>-1</sup>
- **Max. torque: 80 Nm**

### Air drills

#### Air drill model UT 8831 S

- Powerfull and reversible air drill with with keyless chuck
- Keyless chuck 10 mm (3/8")
- Composite housing, handle exhaust directs air away from work and reduces noise
- Reversible for forward and reverse direction
- Air consumption 2,6 l/s, air connection R 1/4"
- **Free speed: 2.200 min<sup>-1</sup>**

### Angle- and die-grinder/Cutter/Dual action sander

#### Angle die grinder model UT 5715

- 90° angle die grinder with comfort grip for greater handling comfort
- Safety throttle
- Rear exhaust, 360° swivel air inlet
- Collet 6 mm Ø
- Length approx. 165 mm, weight approx. 0,5 kg
- Air consumption 2,3 l/s, air connection R 1/4"
- **Max. speed: 20.000 min<sup>-1</sup>**

#### Die grinder model UT 5710

- Comfort grip for greater handling comfort
- Safety throttle to prevent from unintended start-up
- Rear exhaust
- Collet 6 mm Ø
- Length approx. 170 mm, weight approx. 0,6 kg
- Air consumption 2,0 l/s, air connection R 1/4"
- **Max. speed: 20.000 min<sup>-1</sup>**

#### Cutter model UT 5760 B

- Comfort grip for greater handling comfort
- Safety throttle to prevent from unintended start-up
- Cutting disc 76 x 10 mm
- Length approx. 170 mm, weight approx. 0,7 kg
- Air consumption 3,0 l/s, air connection R 1/4"
- **Max. speed: 20.000 min<sup>-1</sup>**

#### Dual action orbital sander UT 8788 C

- Dual action orbital sander for fast removal as well as fine finishing
- 150 mm Ø velcro pad
- Regulator, **5 mm eccentric cam stroke**
- Weight approx. 2,0 kg
- Air consumption 1,9 l/s, air connection R 1/4"
- **Max. speed: 10.000 min<sup>-1</sup>**

part no.

price EUR

91 200

117,18

93 101

123,63

92 020

106,43

92 000

84,93

92 021

95,68

92 213

102,13



## The Technology

The RAPID connecting system guarantees a fast, save and leak proof connection. The connection is easily made by inserting the rectangular and burr-free cut polyamide pipe into the connection piece. The patented fixing system holds the pipe without damaging it and without reducing the flow volume. By pressing the system piece the pipe is easily disconnected.

## Diameter for the pneumatic system

15 mm +/- 0,1 mm  
18 mm +/- 0,1 mm  
22 mm +/- 0,1 mm  
28 mm +/- 0,1 mm

- Diameters up to 42 mm are available on request!
- Low-pressure hydraulic systems up to 20 bar

The system is suitable for the food industry, breweries, distilleries and the automobile industry.

All parts of the RAPID connecting system meet with the quality requirements of the automobile industry (ISO 9001).

## Light resistance

Due to the black, light resistant and thermo resistant pipe quality "LT" the system can be used outside or wherever UV radiation occurs.

## Atmospheric influences

Polyamide pipes are moisture resistant. Due to the little water absorption of only 1,9 % a highly dimensional stability can be guaranteed.

## Pressure resistance

The permitted operating pressure of 20 bar is valid for constant and intermitten burden at +20°C conforming to DIN 73378.

## Bending

Polyamide pipes in general can be bent warm as well as cold (up to 28 mm Ø).

## Mounting

On top of the above offers the system considerable advantage in comparison to other constructions. Our connecting system makes it possible to install complex lines within a short time. It facilitates the detecting of errors as well as the maintenance of the pipes.

## Advantages of the product

- Maintenance free
- Corrosion resistant
- No electric conductivity
- Less friction loss (up to 0,5 bar)
- Easy and fast mounting
- Clean assembling
- No diameter modifications
- No plug-in tubes
- Consalting and sale

## Plastic pipes made out of polyamide

According to DIN 73378	OØ	IØ	PU
Type RA 15/12 soft/black	15	12	25 m
Type RA 18/14 soft/black	18	14	25 m
Type RA 22/18 soft/black	22	18	25 m
Type RA 28/23 soft/black	28	23	25 m

## Plastic bars made out of polyamide

According to DIN 73378	OØ	IØ	PU
Type RA-ST 15/12 hard/black	15	12	3m
Type RA-ST 18/14 hard/black	18	14	3m
Type RA-ST 22/18 hard/black	22	18	3m
Type RA-ST 28/23 hard/black	28	23	3m

Carrying charges for RA-ST (bars, 3m)



part no.	price EUR pro St./m
75 001	7,11
75 002	10,70
75 003	15,48
75 055	20,26
75 056	9,38
75 057	14,76
75 058	16,55
75 059	23,84
	Request



Type RA-RS 25



Type RA-GST



Type RA-WST



Type RA-TST



Type RA-RST



Type RA-EST



Type RA-VST



Type RA-LSD 5



Type RA-LSD 4

## Fixing clamps

	OØ	PU
Type RA-BK 15	15	10 piece
Type RA-BK 18	18	10 piece
Type RA-BK 22	22	10 piece
Type RA-BK 28	28	10 piece

## Pipe shear

For pipes OØ 4-28 mm	PU
Type RA-RS 25	1 piece
Type RS-KL extra blade for RA-RS 25	1 piece

## Plug in connector, straight

	OØ	PU
Type RA-GST 15	15	10 piece
Type RA-GST 18	18	10 piece
Type RA-GST 22	22	10 piece
Type RA-GST 28	28	5 piece

## Plug in connector 90°-angle

	OØ	PU
Type RA-WST 15	15	10 piece
Type RA-WST 18	18	5 piece
Type RA-WST 22	22	5 piece
Type RA-WST 28	28	5 piece

## Plug in connector T and T-reduced

	OØ	PU
Type RA-TST 15	15	5 piece
Type RA-TST 18	18	5 piece
Type RA-TST 22	22	5 piece
Type RA-TST 28	28	5 piece
Type RA-TSTRE 18-15-18	18	5 piece
Type RA-TSTRE 22-15-22	22	5 piece

## Flanged socket

	OØ	TH	PU
Type RA-RST 15 1/2" SW 27	15	1/2"	10 piece
Type RA-RST 18 1/2" SW 27	18	1/2"	10 piece
Type RA-RST 22 1/2" SW 27	22	1/2"	10 piece
Type RA-RST 22 3/4" SW 27	22	3/4"	10 piece

## Screwed in connector

	OØ	TH	PU
Type RA-EST 15 1/2" SW 27	15	1/2"	10 piece
Type RA-EST 18 1/2" SW 30	18	1/2"	10 piece
Type RA-EST 22 1/2" SW 32	22	1/2"	10 piece
Type RA-EST 22 3/4" SW 32	22	3/4"	10 piece

## Sealing plug

	OØ	PU
Type RA-VST 15	15	10 Stck.
Type RA-VST 18	18	10 Stck.
Type RA-VST 22	22	10 Stck.

## Air main socket

	PU
Type RA-LSD 5, 5 connections 1/2"	1 piece
■ Polyamide, impact resistant, 3 sealing plugs	
Type RA-LSD 4, 4 connections 1/2"	1 piece
■ Aluminium, anodised, 2 sealing plugs	

## part no.

## price EUR

75 004	2,21
75 005	2,81
75 006	2,99
75 060	3,53

75 007	65,73
75 500	12,55

75 008	7,35
75 009	10,93
75 010	13,32
75 061	30,05

75 011	11,89
75 012	14,28
75 013	17,87
75 062	31,01

75 014	14,52
75 015	16,91
75 016	28,86
75 063	34,83
75 017	28,86
75 018	28,86

75 019	7,77
75 020	7,77
75 021	8,25
75 022	14,22

75 023	11,83
75 024	11,83
75 099	11,83
75 025	11,83

75 026	3,47
75 027	4,06
75 028	4,30

75 029	35,73
--------	-------

75 082	71,58
--------	-------



**Ball valve int./ex. th. for compressed air main**

Type RA-KGH 12 1/2" int./ex.th.  
Type RA-KGH 20 3/4" int./ex.th.

part no.	price EUR
75 030	14,22
75 031	19,00

**Quick seal coupling**

Type SSK 06 quick seal coupling 1/4" int. th.  
Type SSK 10 quick seal coupling 3/8" int. th.  
Type SSK 20 quick seal coupling 3/4" int. th.  
Type SSK 20 GR SSK with rubber ring 3/4" int. th.  
Type ESG 06 quick seal coupling 1/4" int. th.  
Type ESG 10 quick seal coupling 3/8" int. th.

03 503	13,03
03 504	15,42
50 510	143,28
50 530	143,28
75 054	51,27
75 053	51,27

**Brass wall adapter**

Type RA-WM 12 1/2"  
Type RA-WM 20 3/4"

75 064	34,54
75 065	56,05

**Brass plug in nozzle**

Type RA-TÜ 1/4" 1/4" int. th.  
Type RA-TÜ 3/8" 3/8" int. th.  
Type RA-TÜ 1/2" 1/2" ex.th.  
Type RA-TÜ 6 6 mm hose connection  
Type RA-TÜ 9 9 mm hose connection  
Type RA-TÜ 13 13 mm hose connection

75 083	3,23
75 084	3,47
75 036	4,06
75 037	2,39
75 038	2,63
75 039	2,99

**Dummy plug 1/2"**

Type RA-BS, for air main socket, 1/2" ex.th.

75 040	2,51
--------	------

**Maintenance unit**

**Maintenance unit type LWE 06**  
■ With fog oiler, filter and water separator,  
G 1/4" int. th. / int. th.

20 537	51,27
--------	-------

**Maintenance unit type LWE 10**  
■ With fog oiler, filter and water separator,  
G 3/8" int. th. / int. th.

20 501	89,63
--------	-------

**Maintenance unit type LWE 12**  
■ With fog oiler, filter and water separator,  
G 1/2" int. th. / int. th.

20 502	113,53
--------	--------

**Pressure reducing valve type LWE 12-5**  
■ with fog oiler and water separator  
thread 1/2" / 5 x outlets SSK 12 (3 x water  
separated and 2 x water separator and oiled )  
including mounting bracket.

20 728	333,41
--------	--------

**Energy supplying unit**

**Type EB1 (without illustr.)**  
■ 2 x 4 safety sockets 230 V  
■ 5 m cable H05 VV-F 3 G 1,5, 3 m steel link chain

**Type EB2**  
■ 3 x safety sockets 230 V  
■ 1 x CCE-socket 5-pole 400 V  
■ 5 m cable H07 RN-F 5 G 1,5, 3 m steel link chain

75 067	70,51
75 068	130,26

**Hose bracket**

**Type SH**  
■ Big hose bracket for wall fastening. Steel panel  
galvanized.  
■ Solid construction, incl. storage shelf  
■ Dim. approx. 300 x 140 x 250 mm (L x W x H)

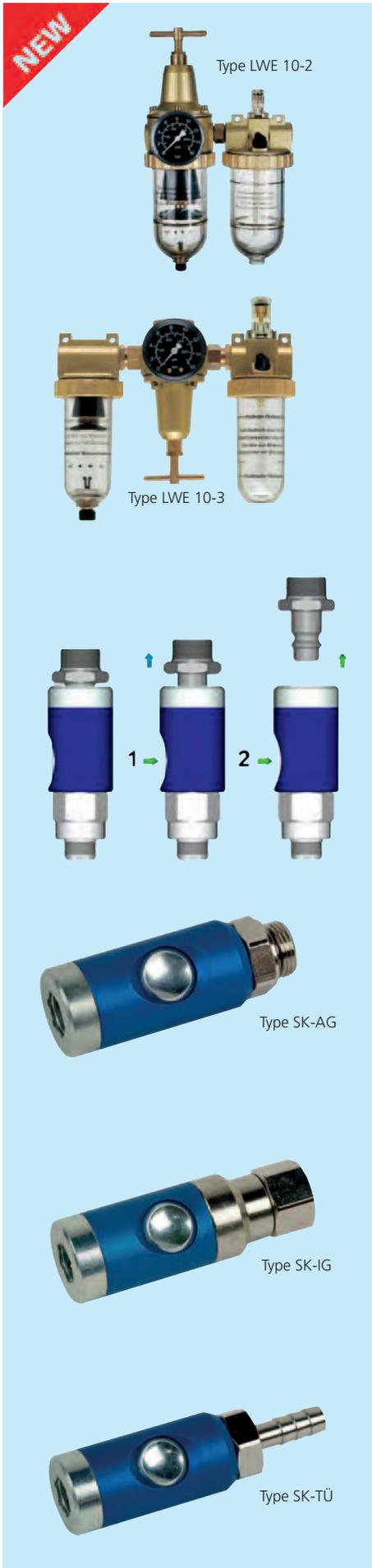
75 501	58,56
--------	-------

**Type SH-PVC-Set**  
■ Hose bracket with 20 m PVC-hose, DN 10

75 101	94,41
--------	-------

**Type SH-Flex-Set**  
■ Hose bracket with 20 m Flex-hose, DN 10

75 103	142,21
--------	--------



## Maintenance units

Maintenance units in plastic design, consisting of filter pressure regulator and compressed air lubricator - connected via double nipples. Connection thread G 1/4 to G 1/2. Operating pressure up to 16 bar.

### 2-unit maintenance unit Type LWE 06-2

■ With fog oiler, water separator, G1/4" IG/IG, up to 16 bar

### 2-unit maintenance unit Type LWE 10-2

■ With fog oiler, water separator, G3/8" IG/IG, up to 16 bar

### 2-unit maintenance unit Type LWE 12-2

■ With fog oiler, water separator, G1/2" IG/IG, up to 16 bar

### 3-unit maintenance unit Type LWE 06-3

■ With fog oiler, water separator, G1/4" IG/IG, up to 16 bar

### 3-unit maintenance unit Type LWE 10-3

■ With fog oiler, water separator, G3/8" IG/IG, up to 16 bar

### 3-unit maintenance unit Type LWE 12-3

■ With fog oiler, water separator, G1/2" IG/IG, up to 16 bar

## Safty coupling with press button operation

Safty coupling according to ISO 4414, DIN EN 983. With press button operation to prevent a whiplash effect during the decoupling. If the coupling is firmly mounted the press button can be brought into an ergonomic and optimum position by the swivel joint. The high quality coupling is especially characterized by stability and compactness.

### Operation:

- **Level 1:** By pushing the press button once, the coupling is vented. The plug is still locked in the sleeve.
- **Level 2:** By pushing the press button a second time, the plug is unlocked and can be riskless removed.

### Technical specifications:

- Nominal flow 1.500 Nl/min.
- Working pressure max. 12 bar / min. 1 bar
- Range of temperature -20° up to +70° C

## Safty coupling with external thread

### Type SK-AG 06

■ With external thread, rotatable  
1/4", 70,0 mm length, SW 21 mm

### Type SK-AG 10

■ With external thread, rotatable  
3/8", 70,0 mm length, SW 21 mm

### Type SK-AG 12

■ With external thread, rotatable  
1/2", 70,0 mm length, SW 25 mm

## Safty coupling with internal thread

### Type SK-IG 06

■ With internal thread, rotatable  
1/4", 73,5 mm length, SW 21 mm

### Type SK-IG 10

■ With internal thread, rotatable  
3/8", 75,5 mm length, SW 21 mm

### Type SK-IG 12

■ With internal thread, rotatable  
1/2", 77,5 mm length, SW 24 mm

## Safty coupling with hose connection

### Type SK-TÜ 06

■ With hose connection, rotatable  
LW 6, 88,5 mm length, SW 21 mm

### Type SK-TÜ 08

■ With hose connection, rotatable  
LW 8, 88,5 mm length, SW 21 mm

### Type SK-TÜ 09

■ With hose connection, rotatable  
LW 9, 88,5 mm length, SW 21 mm

### Type SK-TÜ 10

■ With hose connection, rotatable  
LW 10, 88,5 mm length SW 21 mm

### Type SK-TÜ 13

■ With hose connection, rotatable  
LW 13, 88,5 mm length, SW 21 mm

part no.	price EUR
20 783	219,00
20 784	219,00
20 785	319,00
20 786	239,00
20 787	239,00
20 788	339,00
75 088	35,73
75 089	39,32
75 090	41,71
75 091	35,73
75 092	39,32
75 093	41,71
75 094	38,12
75 095	39,32
75 096	41,71
75 097	44,10
75 098	47,68

part no.	page	part no.	page	part no.	page	part no.	page	part no.	page	part no.	page
<b>00 ...</b>		03 504	43, 234	05 033	36	08 010	37	09 116	37	09 590	42
00 001	22	03 509	42	05 034	39	08 011	31, 33, 35	09 117	37	09 592	42
00 002	22	03 510	42	05 035	39	08 012	37	09 118	39	09 593	42
00 003	22	03 511	42	05 036	39	08 020	31, 33, 35	09 119	39	09 596	30, 32, 34, 36, 37, 38, 39, 171
00 004	23	03 512	42	05 500	44	08 021	31, 33, 35	09 120	36		
00 006	23	03 525	42	05 502	41	08 022	31, 33, 35	09 121	36		
00 007	23	03 529	43	05 512	41	08 023	37	09 126	39	09 597	30, 32, 34, 36, 37, 38, 169, 200
00 009	23	03 530	43	05 515	41	08 500	41	09 127	39		
00 010	22	03 532	43	05 516	41	08 501	41	09 130	28	09 598	28, 29, 30, 32, 34, 36, 37, 38, 39, 170
00 011	23	03 534	43	05 517	41	08 502	41	09 131	28		
00 012	22	03 535	43	05 518	41	08 503	41	09 132	28		
00 013	22	03 536	42	05 519	44	08 504	41	09 133	28		
00 014	23	03 538	42	05 520	44	08 505	41	09 134	28		
00 050	23, 25	03 539	42			08 506	41	09 135	28	09 599	28, 29, 30, 32, 34, 36, 37, 38, 39, 168, 200
00 052	23, 25	03 540	42	<b>06 ...</b>				09 136	28		
00 053	23, 25	03 541	42	06 004	31, 33, 35	<b>09 ...</b>		09 137	28		
00 054	25	03 545	40	06 005	31, 33, 35,	09 001	30, 32, 34	09 138	28		
00 596	22, 23	03 547	42		36	09 002	30, 32, 34	09 139	28	09 600	45, 114, 168
00 597	23	03 548	42	06 006	31, 33, 35,	09 003	30, 32, 34,	09 140	29	09 601	45, 114, 168
00 598	22, 23, 25	03 599	24, 27, 32, 34, 38, 227		36	09 004	168	09 141	29		
00 599	22, 23			06 007	31, 33, 35,		30, 32, 34, 168	09 142	29	<b>10 ...</b>	
					36		168	09 143	29	10 502	40
<b>01 ...</b>		<b>04 ...</b>		06 008	31, 33, 35,	09 005	30, 32, 34	09 144	29	10 503	40
01 001	26	04 007	28		36	09 006	168	09 145	29	10 504	40
01 002	26	04 009	28	06 009	31, 33, 35,	09 007	30, 32, 34,	09 146	29	10 505	40
01 004	26	04 010	34		36		168	09 147	29	10 506	40
01 006	26	04 019	29	06 010	31, 33, 35,	09 008	30, 32, 34	09 148	29	10 507	40
01 007	26	04 020	34		36	09 009	30, 32, 34	09 149	29	10 508	40
01 008	26	04 021	38	06 022	31, 33, 35,	09 010	30, 32, 34,	09 202	36	10 523	41
01 010	26	04 023	28		36		170	09 203	36	10 524	41
01 011	26	04 024	28	06 502	42	09 011	30, 32, 34,	09 209	36	10 525	41
01 012	26	04 026	29	06 503	42		170	09 210	36	10 526	41
01 013	25	04 028	28	06 504	42	09 012	30, 32, 34	09 301	30, 33, 34	10 527	41
01 014	25	04 029	28	06 524	36	09 013	170	09 302	30, 33, 34	10 528	41
01 015	25	04 031	29	06 525	42	09 014	30, 32, 34,	09 303	30, 33, 34	10 529	41
01 016	25	04 050	28	06 526	42		170	09 304	30, 33, 34	10 534	40
01 080	24	04 051	28	06 527	42	09 015	36, 200	09 305	30, 33, 34	10 535	40
01 082	24	04 052	28	06 528	42	09 016	36, 200	09 306	30, 33, 34	10 536	40
01 083	24	04 053	28	06 529	42	09 017	36	09 307	37	10 537	40
01 331	32	04 061	29	06 530	42	09 018	36	09 308	37	10 538	40
01 504	40	04 063	29	06 531	42	09 019	37	09 361	39	10 539	40
01 505	40	04 500	44	06 532	42	09 020	37	09 362	39	10 540	40
01 506	40	04 501	44	06 533	42	09 021	37	09 500	44, 168, 200	10 541	41
01 513	44	04 503	40	06 534	42	09 022	37	09 501	44	10 542	41
01 516	40	04 515	44	06 535	42	09 045	30	09 502	46	10 543	41
01 517	40	04 518	40	06 536	42	09 046	30	09 503	46	10 544	41
01 519	24	04 519	40	06 537	42	09 047	30, 32, 34, 169	09 504	44	10 545	41
01 520	43	04 521	43	06 538	42		169	09 505	44, 169, 200	10 547	122, 123
01 521	46	04 522	43	06 539	42	09 048	30, 32, 34, 169	09 506	42	10 549	41, 127
01 522	40	04 523	43	06 540	42		169	09 507	42	10 550	41
01 523	24	04 525	43	06 541	42	09 049	169	09 508	42	10 551	40
01 524	46	04 527	43	06 542	42	09 050	30, 32, 34, 169	09 509	42	10 552	40
01 525	46	04 528	43	06 543	42		169	09 510	42	10 553	40
01 527	24	04 599	28, 29, 34, 38, 227	06 544	42	09 051	36, 200	09 511	42	10 554	41
01 595	25			06 550	44	09 052	36, 200	09 514	44, 169, 200	10 555	41
01 596	26	<b>05 ...</b>		06 551	44	09 053	37	09 515	44, 169	10 556	41
01 597	23, 25, 26	05 010	31, 33, 35, 36	06 552	44	09 054	37	09 531	44, 169	10 558	41
01 599	26		36	06 557	44	09 057	39	09 532	44	10 565	41
		05 011	31, 33, 35, 36	06 558	44	09 058	39	09 533	44	10 566	41
<b>02 ...</b>			36	06 567	42	09 064	38, 168	09 540	44, 169	10 567	41
02 002	27	05 012	31, 33, 35, 36	06 568	42	09 065	38, 169	09 541	44, 169, 200	10 568	41
02 500	46		36	06 569	42	09 067	38	09 544	44, 169	10 569	41
02 501	46	05 013	31, 33, 35, 36	06 570	42	09 068	38	09 545	168, 200	10 570	43
02 502	46		36	06 571	42	09 069	38, 168	09 546	169, 200	10 571	43
02 504	46	05 014	31, 33, 35, 36	06 572	42	09 070	38, 169	09 547	169, 200	10 572	43
02 507	46		36			09 087	38, 170	09 548	169, 200	10 573	43
		05 015	31, 33, 35, 36	<b>07 ...</b>		09 088	38, 170	09 549	46	10 574	43
<b>03 ...</b>			36	07 001	38	09 100	39	09 551	46		
03 007	27	05 016	31, 33, 35, 36	07 002	38	09 101	39	09 552	44	<b>20 ...</b>	
03 009	27		36	07 003	38	09 102	39	09 553	44	20 001	152
03 010	32	05 017	31, 33, 35, 36	07 500	42	09 103	39	09 554	40	20 002	152
03 011	38		36	07 501	42	09 104	39	09 555	42	20 003	152
03 012	34	05 018	31, 33, 35, 36	07 502	42	09 105	39	09 571	42	20 004	152
03 025	27		36	07 503	40	09 106	39	09 572	42	20 005	152
03 026	27	05 019	31, 33, 35, 36	07 504	40	09 107	39	09 573	42	20 006	152
03 030	27		36	07 505	40	09 108	30	09 574	42	20 007	153
03 031	27	05 020	37			09 109	30	09 579	44, 170, 171	20 008	153
03 050	27		37	<b>08 ...</b>		09 110	30, 32, 34, 171	09 581	44	20 009	153
03 051	27	05 021	37	08 001	31, 33, 35		171	09 582	42	20 010	153
03 052	27		37	08 002	31, 33, 35	09 111	30, 32, 34, 171	09 583	44, 170, 171	20 011	153
03 053	27	05 022	37	08 003	31, 33, 35		171	09 584	44, 170, 171	20 012	153
03 080	24		37	08 004	31, 33, 35	09 112	171	09 585	42	20 015	154
03 081	24	05 024	37	08 006	33, 35	09 113	30, 32, 34, 171	09 586	44, 170, 171	20 016	154
03 500	44	05 025	37	08 007	33, 35		171	09 587	44, 170, 171	20 017	154
03 502	42	05 026	38	08 008	33, 35	09 114	38, 171	09 588	44, 170, 171	20 018	154
03 503	43, 234	05 027	38	08 009	37	09 115	38, 171	09 589	44, 170, 171	20 019	154
		05 032	36								



part no.	page	part no.	page	part no.	page	part no.	page	part no.	page	part no.	page
24 147	82, 144	25 051	85	25 145	128	25 500	115	27 124	92	28 114	122
24 148	92, 159, 163, 165	25 052	85	25 146	128	25 501	115	27 125	88	28 115	47, 122, 175
24 149	82, 144	25 053	61, 184, 206	25 147	63	25 502	115	27 126	88	28 116	47, 122, 175
24 150	83, 145	25 055	62	25 148	133	25 503	78	27 127	88	28 117	46
24 151	83, 145	25 056	62	25 149	133	25 505	61, 184	27 128	88	28 118	46, 121, 123
24 152	83, 145	25 058	67	25 150	133	25 506	61, 184	27 129	88	28 119	129
24 153	83, 145	25 059	67	25 151	133	25 507	61, 184	27 130	88	28 223	129
24 156	83, 145	25 060	70	25 152	133	25 508	224	27 131	88	28 224	128
24 157	83, 145	25 061	70	25 153	133	25 509	78	27 132	88	28 227	130
24 158	83, 145	25 063	70	25 154	133			27 137	93	28 228	130
24 159	82, 144	25 066	68	25 155	133	<b>26 ...</b>		27 138	93	28 229	130
24 160	82, 144	25 067	68	25 156	148	26 007	176	27 139	93	28 230	130
24 161	83, 145	25 068	68	25 157	64	26 013	178	27 142	89	28 231	131
24 200	86, 136, 146	25 069	68	25 158	64	26 019	179	27 143	89	28 232	131
24 201	86, 136, 146	25 070	68	25 159	64	26 020	179	27 145	63, 71, 73, 128, 148	28 234	131
24 202	86, 136, 146	25 071	68	25 160	64	26 031	179	27 147	92	28 235	131
24 203	86, 146	25 072	71	25 161	64	26 032	179	27 153	93	28 236	131
24 204	86, 136, 146	25 073	71	25 162	64	26 033	177	27 154	93, 120	28 237	113, 128
24 205	86, 136, 146	25 075	71	25 163	64	26 034	177	27 155	89	28 238	127
24 206	86, 136, 146	25 076	71	25 164	64	26 035	177	27 156	89	28 239	127
24 207	86, 136, 146	25 077	70	25 165	64	26 036	177	27 157	89	28 256	47, 129
24 208	86, 136, 146	25 078	72	25 166	64	26 037	177	27 158	89	28 257	46, 129
24 210	87	25 079	72	25 167	64	26 038	177	27 160	92	28 260	132
24 211	87	25 080	72	25 168	64	26 042	179	27 162	91	28 261	132
24 212	87	25 081	72	25 170	65	26 044	177	27 163	92, 165	28 262	132
24 213	87	25 082	73	25 171	65	26 045	177	27 164	90	28 263	132
24 214	87	25 083	73	25 172	65	26 050	178	27 170	77, 94	28 264	129
24 215	87	25 084	73	25 173	65	26 052	179	27 205	80	28 265	129
24 216	87	25 085	73	25 174	65	26 100	174, 178	27 206	80	28 266	129
24 217	87	25 086	67	25 175	65	26 101	174	27 207	80	28 269	128
24 218	87	25 087	67	25 176	65	26 111	174	27 208	80	28 271	129
24 219	87	25 088	67	25 177	65	26 112	174	27 209	80	28 272	129
24 220	87	25 089	67	25 178	65	26 500	179	27 210	80	28 273	129
24 221	87	25 090	67	25 179	127, 148	26 501	179			28 274	129
24 222	87	25 091	67	25 180	127, 148					28 275	129
24 223	87	25 092	67	25 202	115	<b>27 ...</b>		<b>28 ...</b>		28 276	129
24 224	87	25 093	68	25 206	115	27 001	89	28 001	121	28 277	130
24 225	87	25 094	68	25 210	115	27 002	89	28 003	121	28 278	130
<b>25 ...</b>		25 095	68	25 211	115	27 003	89	28 004	124	28 280	132
25 001	58	25 096	68	25 212	115	27 004	89	28 005	124	28 281	132
25 002	112	25 097	68	25 213	115	27 005	91	28 009	123	28 282	130
25 003	58	25 098	68	25 214	115	27 007	91	28 010	123	28 283	130
25 005	183, 206	25 100	63	25 220	119	27 010	91	28 011	123	28 284	131
25 006	59	25 101	63	25 221	119	27 011	91	28 012	123	28 285	134
25 007	59	25 102	63, 69, 148	25 222	119	27 012	88	28 013	123	28 286	134
25 009	206	25 103	64, 65, 66, 67, 69, 76	25 223	119	27 013	88	28 014	123	28 287	134
25 010	66	25 104	65, 66, 67, 71	25 224	118	27 030	88	28 015	124	28 288	134
25 011	66	25 105	65, 66, 67	25 225	118	27 031	88	28 016	124	28 289	134
25 012	66	25 106	64, 66, 67, 71	25 226	118	27 032	88	28 017	124	28 290	134
25 013	66	25 107	64, 66, 67	25 227	118	27 033	88	28 018	124	28 291	134
25 014	66	25 109	69, 76	25 228	118	27 044	91	28 020	121	28 292	134
25 015	66	25 110	69, 76	25 229	118	27 045	91	28 023	137	28 293	134
25 016	66	25 111	69	25 230	116	27 046	91	28 025	121	28 294	134
25 017	66	25 112	69	25 231	116	27 047	91	28 044	125	28 295	134
25 018	66	25 113	69	25 232	116	27 050	89	28 045	125	28 296	134
25 019	69	25 114	127, 148	25 233	116	27 051	89	28 046	125	28 297	134
25 020	69	25 115	127, 128, 148	25 235	117	27 052	89	28 047	125	28 298	134
25 021	69	25 116	148	25 236	117	27 064	88	28 048	125	28 400	135
25 022	69	25 117	63	25 237	117	27 065	88	28 049	125	28 410	135
25 023	58	25 118	63	25 238	117	27 070	120	28 050	125	28 412	135
25 024	58	25 119	65, 85	25 239	113	27 072	120	28 051	125	28 414	135
25 025	58	25 120	65, 85	25 240	118	27 074	90	28 052	125	28 500	131
25 027	58	25 121	65, 66, 67, 70, 72, 73	25 242	116	27 075	90	28 056	125	28 502	127
25 028	58	25 122	148	25 300	76	27 076	90	28 057	125	28 503	137
25 029	59, 76	25 123	148	25 301	76	27 077	90	28 058	125	28 505	137
25 030	59	25 124	63, 70, 72	25 305	77	27 078	120	28 060	124	28 507	94, 123
25 031	59	25 125	81, 215	25 306	77	27 079	120	28 061	124		
25 032	59	25 126	77, 81, 215	25 307	77	27 080	90	28 062	124	<b>50 ...</b>	
25 033	59	25 127	81, 215	25 308	79	27 081	90	28 063	124	50 007	183
25 034	59	25 128	64, 66, 67, 70, 72, 73	25 309	79	27 082	90	28 064	123	50 013	183
25 039	60	25 129	81, 181, 215	25 310	79	27 083	90	28 065	123	50 014	180
25 040	60	25 130	69, 76	25 311	79	27 100	92	28 066	123	50 017	180
25 041	60	25 131	69, 76	25 312	78	27 103	92	28 070	137	50 060	182
25 042	60	25 132	69, 76	25 313	78	27 104	92, 165	28 071	137	50 500	181
25 043	60	25 133	81	25 314	78	27 105	92	28 072	137	50 501	181
25 044	60	25 137	79, 81, 215	25 315	78	27 106	92	28 100	47, 121, 122, 123, 175	50 504	187
25 045	60	25 141	70	25 319	76	27 107	187	28 101	47, 122, 175	50 505	181
25 046	60	25 142	71, 72	25 320	76	27 108	93	28 102	121, 122	50 510	43, 234
25 047	62	25 143	73	25 321	76	27 109	93	28 103	122	50 511	167
25 048	62	25 144	81, 94	25 326	78	27 110	93	28 107	121	50 520	181
25 049	62			25 327	78	27 111	94	28 109	122	50 530	43, 167, 234
25 050	85			25 328	78	27 112	89	28 110	122	50 535	181
				25 329	224	27 113	89	28 111	122	50 536	181
				25 330	224	27 114	77, 94, 120	28 112	122	<b>51 ...</b>	
				25 331	224	27 122	89	28 113	122	51 004	183
				25 332	224	27 123	89				

part no.	page	part no.	page	part no.	page	part no.	page	part no.	page	part no.	page
51 005	183	55 009	192	62 204	198	70 504	205	75 059	232	77 242	221
51 010	182	55 501	190	62 205	198	70 505	205	75 060	233	77 243	221
51 014	180	55 502	190	62 300	195	70 506	206	75 061	233	77 250	221
51 017	180	55 503	190	62 301	195	70 511	206	75 062	233	77 251	221
51 019	181	55 504	190	62 302	195	70 514	211	75 063	233	77 253	221
51 050	180	55 505	190	62 303	195	70 515	211	75 064	234	77 270	222
51 051	180	55 506	190	62 304	195	70 516	211	75 065	234	77 271	222
51 055	180	55 520	190	62 305	195	70 517	211	75 067	234	77 272	222
51 056	180	55 521	190	62 306	195	70 518	211	75 068	234	77 280	223
51 060	182	55 522	190	62 307	195	70 519	211	75 070	45	77 281	223
51 100	188	55 523	190	62 308	195	70 520	211	75 071	45	77 283	223
51 101	188	55 526	190	62 309	195	70 521	211	75 072	45	77 284	223
51 106	188			62 310	195	70 522	211	75 073	45	77 285	223
51 107	188			62 311	195	70 523	211	75 082	233	77 286	223
51 108	188	<b>60 ...</b>		62 312	195	70 524	211	75 083	43, 234	77 287	223
51 109	188	60 001	197	62 313	195	70 525	211	75 084	43, 234	77 500	217
51 500	181, 188,	60 002	197	62 314	195	70 526	211	75 085	43	77 501	217
	190	60 003	197	62 317	195	70 527	211	75 086	43	77 502	217
51 514	181	60 010	197	62 318	195	70 530	213	75 087	43		
51 517	190	60 011	197	62 318	195	70 531	213	75 088	235	<b>90 ...</b>	
51 521	181	60 500	46, 196, 201	62 503	195	70 532	213	75 089	235	90 101	228
51 522	189	60 501	46, 196, 201	62 504	195	70 533	213	75 090	235	90 102	228
51 524	181	60 502	198	62 506	194	70 534	213	75 091	235	90 110	230
51 525	181	60 503	198	<b>70 ...</b>		70 535	213	75 092	235	90 111	230
51 530	190	60 504	198	70 001	203	70 536	213	75 093	235	90 122	228
51 531	189	60 505	198	70 003	203	70 537	213	75 094	235	90 125	229
		60 506	196, 198	70 005	204	70 538	213	75 095	235		
<b>52 ...</b>		60 507	198	70 019	204	70 539	213	75 096	235	90 300	230
52 013	191	60 508	196, 198	70 021	204	70 540	213	75 097	235	90 325	229
52 014	191	60 509	196, 198	70 023	203	70 544	206	75 098	235	90 408	229
52 500	191	60 510	196, 198	70 028	205	70 545	206	75 099	233	90 432	229
52 501	191	60 511	199	70 031	204	70 564	213	75 101	45, 234	90 433	229
52 502	47, 191	60 513	199	70 032	204	70 566	213	75 102	45		
52 504	191	60 514	199	70 034	205	70 570	209	75 103	45, 234	<b>91 ...</b>	
		60 515	199	70 054	205	70 571	209	75 104	44	91 000	230
<b>53 ...</b>		60 516	199	70 056	215	70 572	213	75 500	233	91 100	230
53 001	185	60 517	199	70 070	207	70 573	213	75 501	45, 234	91 200	231
53 002	185	60 518	199, 201	70 071	207	70 574	213				
53 003	184	60 519	201	70 072	207	70 575	213	<b>76 ...</b>		<b>92 ...</b>	
53 004	184	60 520	201	70 100	205	70 576	213	76 001	226	92 000	231
53 005	185	60 521	201	70 104	215	70 577	213	76 003	227	92 006	228
53 006	185	60 522	201	70 150	210	70 578	206	76 004	227	92 020	231
53 007	185	60 523	41	70 151	210			76 005	227	92 021	231
53 008	185	60 524	199	70 152	210	<b>75 ...</b>		76 006	226	92 213	231
53 011	184	60 525	198, 201	70 153	209	75 001	232	76 007	226		
53 012	185	60 532	199	70 154	209	75 002	232	76 008	226	<b>93 ...</b>	
53 013	185	60 533	199	70 160	208	75 003	232	76 500	227	93 101	231
53 014	185	60 534	199	70 161	208	75 004	233	76 501	227		
53 030	189	60 535	199	70 162	208	75 005	233	76 503	226	<b>98 ...</b>	
53 031	189	60 536	199	70 163	208	75 006	233	76 504	226	98 001	225
53 500	184	60 537	196, 199,	70 164	208	75 007	233	76 505	226	98 002	225
53 501	184		201	70 165	208	75 008	233	76 506	226, 227	98 003	225
53 502	184	60 539	199	70 166	208	75 009	233	76 507	226	98 004	225
53 503	184	60 541	199	70 167	208	75 010	233	76 508	226	98 005	225
53 507	184	60 542	198	70 168	208	75 011	233	76 509	226	98 007	225
53 508	184	60 547	199	70 200	206	75 012	233	76 510	227	98 008	225
53 509	189	60 548	199	70 201	206	75 013	233	76 511	226	98 010	228
		60 549	201	70 300	206	75 014	233				
<b>54 ...</b>		60 550	199	70 301	206	75 015	233	<b>77 ...</b>			
54 002	186	60 551	46, 201	70 306	206	75 016	233	77 001	216		
54 003	186	60 552	199	70 320	212	75 017	233	77 002	216		
54 004	187	60 553	199	70 321	212	75 018	233	77 003	216		
54 011	186	60 560	199	70 322	212	75 019	233	77 011	216		
54 012	186	60 561	199	70 323	212	75 020	233	77 012	216		
54 500	187	60 565	199	70 324	212	75 021	233	77 013	216		
54 501	187	60 566	199	70 400	202	75 022	233	77 021	217		
54 502	190			70 402	202	75 023	233	77 022	217		
54 503	190	<b>61 ...</b>		70 403	202	75 024	233	77 023	217		
54 504	190	61 001	196	70 405	202	75 025	233	77 024	217		
54 506	190	61 002	196	70 406	202	75 026	233	77 025	217		
54 507	190	61 100	196	70 407	202	75 027	233	77 200	218		
54 508	190	61 101	196	70 411	211, 214	75 028	233	77 201	218		
54 509	187	61 106	196	70 412	211, 214	75 029	233	77 202	218		
54 510	187			70 414	211	75 030	234	77 210	218		
54 513	187	<b>62 ...</b>		70 421	214	75 031	234	77 211	218		
54 514	186	62 001	194	70 422	214	75 036	43, 234	77 212	218		
54 515	186	62 002	194	70 423	214	75 037	43, 234	77 220	219		
54 516	186	62 003	194	70 431	214	75 038	43, 234	77 221	219		
54 517	186	62 007	194	70 432	214	75 039	43, 234	77 222	219		
		62 008	194	70 433	214	75 040	234	77 223	219		
<b>55 ...</b>		62 009	194	70 435	202	75 053	43, 234	77 224	219		
55 004	192	62 010	194	70 436	202	75 054	43, 234	77 230	220		
55 005	192	62 020	194	70 438	207	75 055	232	77 231	220		
55 006	192	62 021	194	70 439	207	75 056	232	77 232	220		
55 007	192	62 100	194	70 440	207	75 057	232	77 240	221		
55 008	192	62 103	194	70 500	206	75 058	232	77 241	221		
		62 203	198	70 501	206						

## 1. Pneumatic oil pumps

The pistons of the compressed air drive and the conveying pump of these piston pumps are directly connected. The proportion of both piston areas regulate the ratio and therefore the discharge capacity regarding the volume flow [l/min.] and discharge pressure [bar].

The following performance data are down to an air inlet pressure of 6 bar and free outlet, measured directly at the pump

**The discharge capacity of the pump is mainly influenced by the degree of viscosity of the medium and the surrounding temperature. It should not be mistaken for the discharged volume flow at the tap, which is influenced by the resistance of pipes, counters and other parts.**

Model	Ratio	Pressure [bar]	Q0 l/min
OP 90 D 35/1	1 : 1	6	16
OP 90 D 30/1	1 : 3	18	12
OP 90 D 25/1	1 : 5	30	10
OP 110 D 35	1 : 1	6	30
OP 110 D 30	1 : 3	18	26
OP 110 D 25	1 : 5	30	23
OP 115 D 30	1 : 3	18	25
OP 115 D 25	1 : 5	30	20

### Ratio 1 : 1

These pumps are preferably used to decant mediums with a low viscosity such as Diesel, fuel, and thinner engine oils with a short pressure pipes / hoses.

### Ratio 1 : 3

These pumps are the typical oil supply over some distance. They are used for mediums with low as well as higher viscosity and are suitable for longer pipelines with more than one discharge place and those ones with hose reels.

### Ratio 1 : 5

These pumps are especially designed for mediums with high viscosity and high pipe resistance, e.g. narrow diameter of pipes or a high difference in level. **At this it is important that the allowed working pressure of the conveying pipe is according to the high conveying pressure of these pumps.**

## 2. Electrical oil pumps

These are self priming gear pumps with inner gear teeth and bypass valve. For the following performance data apply the same measurement criteria than for the pneumatic pumps.

The discharge capacity of the pump is mainly influenced by the degree of viscosity of the medium and the surrounding temperature. It should not be mistaken for the discharged volume flow at the tap, which is influenced by the resistance of pipes, counters and other parts

Model	Connection	Pressure [bar]	Q0 l/min
OP 140/1 / KP 140	230 V, 50 Hz, 0,55 kW	10	9
OP 145	230 V, 50 Hz, 1,10 kW	10	7
OP 160/1	400 V, 50 Hz, 0,55 kW	10	9
OP 165	400 V, 50 Hz, 1,20 kW	10	14
OP 170/1	400 V, 50 Hz, 0,75 kW	10	14
OP 190/1	400 V, 50 Hz, 1,10 kW	10	17

**OP 140/1 / OP 145** is the classical pump of mobile or stationary oil dispensing units with one tap connexion. It is available with a simple on-off-switch or a pressure switch.

**OP 160/1 / OP 165** is similar to OP 140, it is suitable for a single discharge tap but suitable as well for a suction pipe for mediums with higher viscosity, e.g. gear oil.

**OP 170/1** is the ideal pump for oil dispensing units with up to three taps. For optimal performance use the recommended suction pipe.

**OP 190/1** is a pump with high discharge performance. For optimal performance use the recommended suction pipe.

**KP 140** is the classical pump of mobile or stationary antifreeze dispensing sets. Also suitable for diesel and water.

## 3. Suction pipes

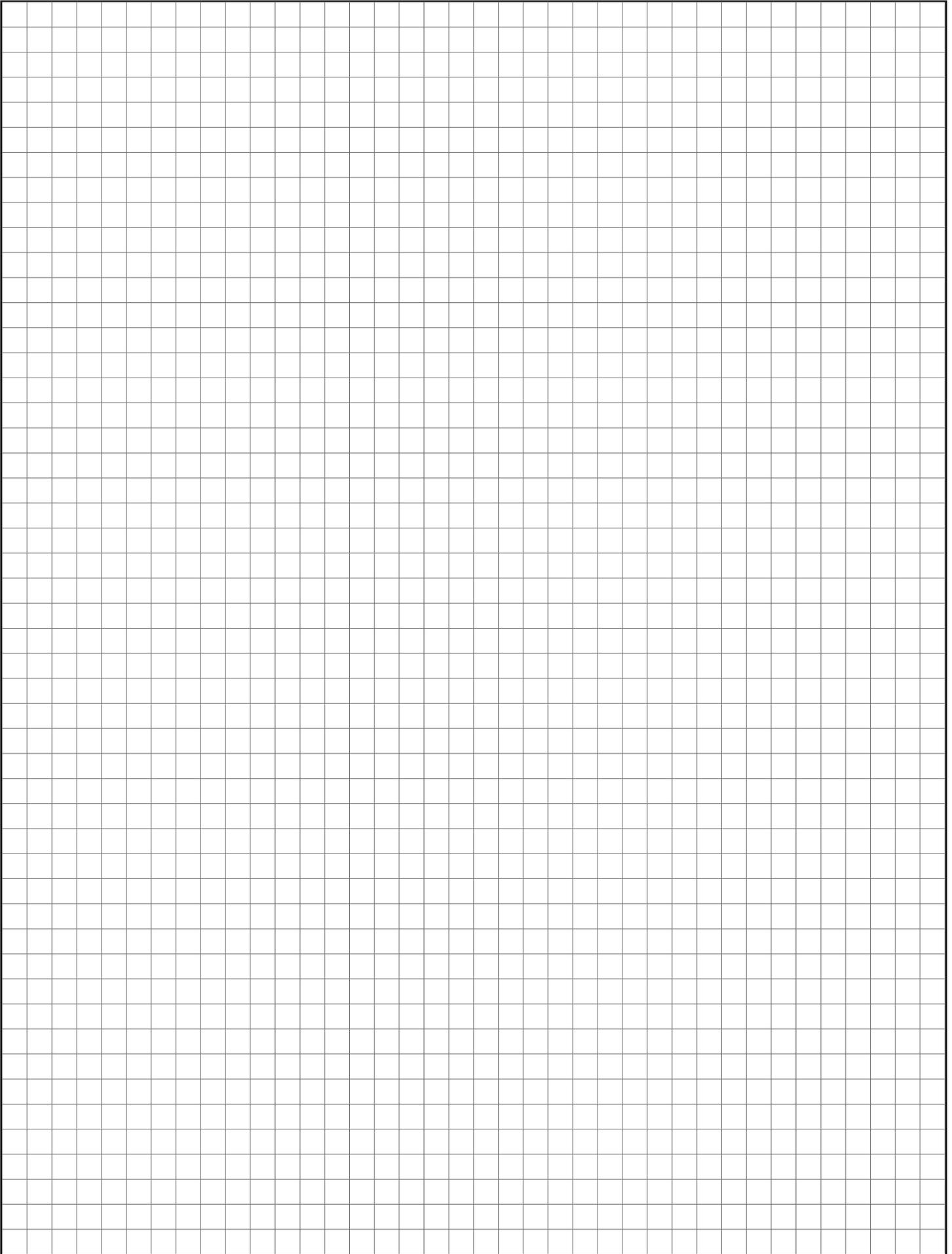
Suction pipes are available in two lengths for barrels (1,5 m) and tanks (2,5 m) as well as with several cross cuts. The higher the discharge capacity of the pump and the higher viscous the medium, the bigger should be the cross cut of the suction pipe. Suction pipes of nominal diameter NPS 20, NPS 25, NPS 32 and for special application NPS 40 are available.

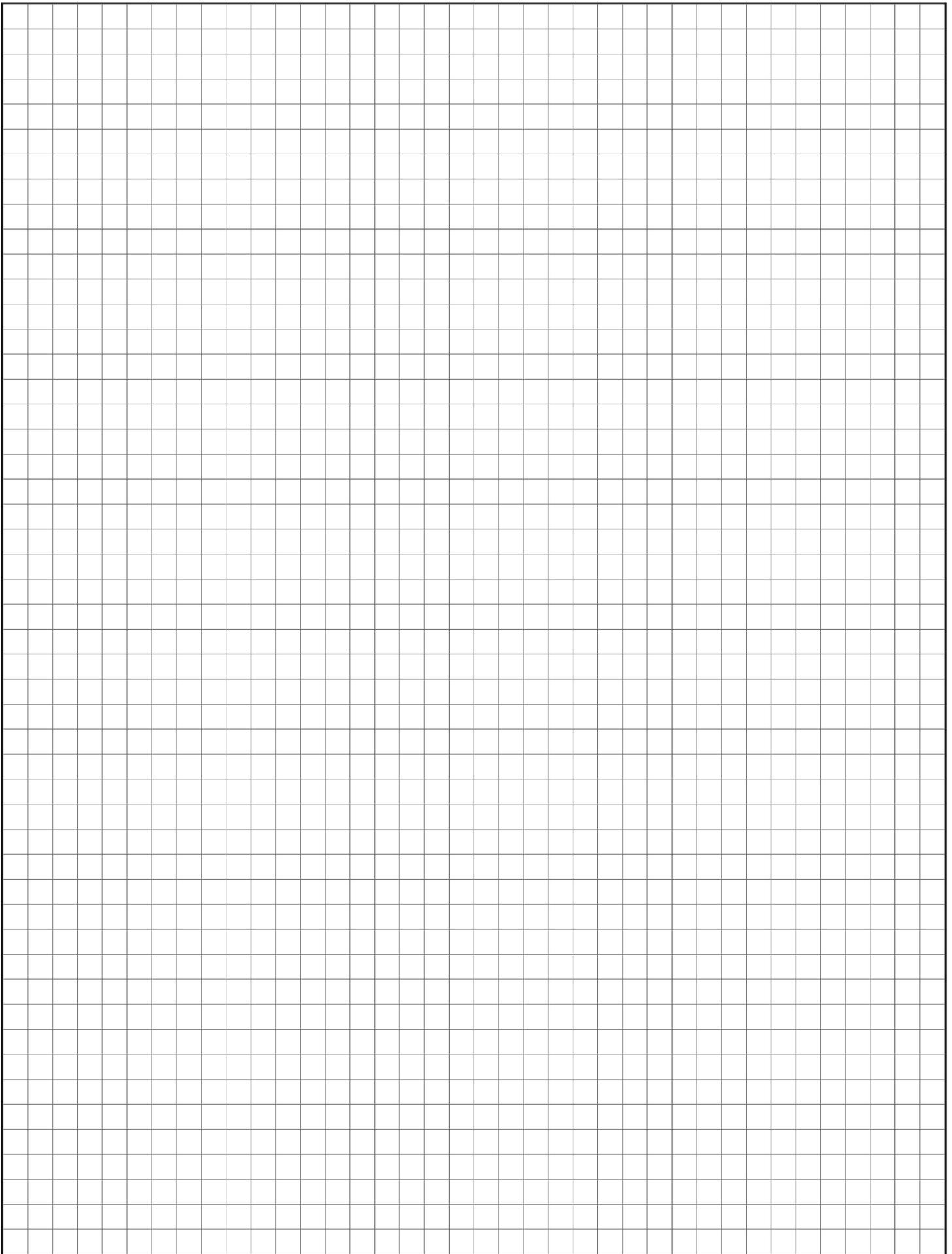
## 4. Pressure pipes

The pressure pipes of oil dispensing units should be assembled according to legal guidelines. Following experical values can be used for the cross cut of the pipes.

Pipe length	Engine oil	Gear oil
to 15 m	NPS 20 (3/4")	NPS 25 (1")
to 30 m	NPS 25 (1")	NPS 32 (1 1/4")
more than 30 m	NPS 32 (1 1/4")	NPS 40 (1 1/2")

For pipelines with more than one tap it is recommended to choose the next bigger cross cut.





## Allgemeine Geschäftsbedingungen der Rapid Group GmbH, Bahnhofstraße 53-55, D-64560 Riedstadt (in der Fassung vom 01.01.2024)

I. Allgemeines. Alle mündlichen, telefonischen oder durch Vertreter getroffene Abmachungen sind für den Lieferer nur dann bindend, wenn sie vom Lieferer schriftlich bestätigt wurden. Anders lautende Lieferungs- oder Einkaufsbedingungen haben nur dann Gültigkeit, wenn sie vom Lieferer ausdrücklich bestätigt sind.

II. Angebot. Sämtliche Preise verstehen sich - soweit nicht anders angegeben, in Euro. Die angegebenen Preise, Mengen und Lieferzeiten sind freibleibend. Die zu dem Angebot gehörigen Unterlagen, wie Abbildungen, Zeichnungen, Gewichts- und Maßangaben, sind nur annähernd maßgebend, soweit sie nicht ausdrücklich als verbindlich bezeichnet sind. An Kostenvoranschlägen, Zeichnungen und anderen Unterlagen behält sich der Lieferer Eigentums- und / oder Urheberrecht vor; sie dürfen Dritten nicht zugänglich gemacht werden. Der Lieferer ist verpflichtet, vom Abnehmer als vertraulich bezeichnete Pläne nur mit dessen Zustimmung Dritten zugänglich zu machen.

III. Umfang der Lieferung. Für den Umfang der Lieferung ist die schriftliche Auftragsbestätigung des Lieferers maßgebend. Hinsichtlich der Liefermenge steht es dem Lieferer frei, bis zu 10% mehr oder weniger zu liefern als vereinbart wurde. Veränderungen an Modellen und Abweichungen von den Katalogangaben behält sich der Lieferer vor.

IV. Preise und Zahlungen. Die Preise verstehen sich freibleibend ab Werk ohne Verpackung und Transportversicherung. Verpackung wird pauschal berechnet - bis EUR 150 mit EUR 8, ab EUR 150 mit 3,5%, ab EUR 500 mit 3% und ab EUR 2.500 mit 2,0% des Warenwertes. Der Lieferer ist auch berechtigt und behält sich vor, nach Setzung und fruchtlosem Verlauf einer angemessenen Frist, die am Tage der Lieferung gültigen Preise zu berechnen, vor allem, wenn ab Vertragsabschluss die Werkstoffpreise oder Löhne gestiegen sind oder Umstände, die der Lieferer nicht zu vertreten hat, Herstellung oder Vertrieb verteuern. Der Mindestbestellwert beträgt EUR 60. Die Bezahlung hat in bar, unbeschadet des Wareneinganges innerhalb 30 Tagen ab Rechnungsdatum netto oder innerhalb 8 Tagen mit 2% Skonto zu erfolgen. Reparaturen sind sofort ohne Abzug zur Zahlung fällig. Als Barzahlung gelten nur Kassazahlung, Schecks und Überweisungen, nicht jedoch Wechsel. Die Vertreter oder Reisenden des Lieferers sind nicht zur Entgegennahme von Zahlungen berechtigt. Lieferungen an dem Lieferer unbekannte Firmen sowie Aufträge unter EUR 60 werden unter Nachnahme ausgeführt. In Zahlung genommene Wechsel oder Schecks gelten erst nach Einlösung als eingegangen. Für Formrichtigkeit, rechtzeitige Vorzeigung und Protesterhebung übernimmt der Lieferer keine Verbindlichkeit. Einziehungskosten, Diskontspesen und Valutadifferenzen gehen zu Lasten des Käufers. Bei Zielüberschreitung ist der Lieferer berechtigt, Mahne- bühen und Verzugszinsen in Höhe der Bankspesen in Rechnung zu stellen. Zurückhaltung von Zahlungen wegen irgendwelcher Gegenansprüche ist unzulässig. Ergeben sich nach Vertragsabschluss Tatsachen, die Zweifel an der Kreditwürdigkeit des Käufers zulassen, so ist der Lieferer berechtigt, vom Vertrag zurückzutreten und sofortige Bezahlung gestundeter Forderungen zu verlangen.

V. Lieferzeit. Der Lieferer ist bemüht, die Lieferfristen einzuhalten, jedoch sind alle Angaben über Lieferfristen unverbindlich. Schadenersatzansprüche bei Überschreitung der Lieferfrist und das Recht des Bestellers, deswegen vom Vertrag zurückzutreten, sind ausgeschlossen. Wenn der Lieferer an der Erfüllung seiner Verpflichtungen durch den Eintritt von unvorhersehbaren Umständen gehindert wird, die er trotz der nach den Umständen des Falles zumutbaren Sorgfalt nicht abwenden konnte - gleichviel, ob im Werk des Lieferers oder bei seinem Unterlieferanten eingetreten - z.B. Betriebsstörungen, Verzögerung in der Anlieferung wesentlicher Roh- und Baustoffe, so wird er von der Lieferverpflichtung frei, wenn durch diese Umstände die Lieferung unmöglich wird. Wird die Lieferung nicht unmöglich, so verlängert sich bei Vorliegen der oben angegebenen Umstände die Lieferfrist in angemessenem Umfang. Entsprechendes gilt auch im Falle von Streik und Aussperrung. Auf diese Umstände kann sich der Lieferer nur berufen, wenn er den Besteller unverzüglich benachrichtigt. Unterlässt er dies, so treten die ihn begünstigenden Rechtsfolgen nicht ein. Wird der Versand auf Wunsch des Bestellers verzögert, so werden ihm, beginnend einen Monat nach Anzeige der Versandbereitschaft, die durch die Lagerung entstandenen Kosten, bei Lagerung im Werk des Lieferers jedoch mindestens 1/2 % des Rechnungsbetrages für jeden Monat, berechnet. Der Lieferer ist aber auch berechtigt, nach Setzung und fruchtlosem Verlauf einer angemessenen Frist anderweitig über den Liefergegenstand zu verfügen und den Besteller mit angemessener verlängerter Frist zu beliefern. Die Einhaltung der Lieferfrist setzt die Erfüllung aller auch früher eingegangenen Vertragspflichten des Bestellers voraus.

VI. Gefahrübergang und Entgegennahme. Die Gefahr geht - auch bei Franko-Lieferung - spätestens mit der Absendung der Lieferteile auf den Besteller über, und zwar auch dann, wenn Teillieferungen erfolgen. Auf Wunsch des Bestellers wird auf seine Kosten die Sendung durch den Lieferer gegen Bruch-, Transport-, Feuer- und Wasserschäden versichert. Verzögert sich der Versand infolge von Umständen, die der Lieferer nicht zu vertreten hat, so geht die Gefahr vom Tage der Versandbereitschaft ab auf den Besteller über; jedoch ist der Lieferer verpflichtet, auf Wunsch und Kosten des Bestellers die Versicherungen zu bewirken, die dieser verlangt. Angelieferte Gegenstände sind, auch wenn sie unwesentliche Mängel aufweisen, vom Besteller unbeschadet der Rechte aus Abschnitt VIII entgegenzunehmen. Teillieferungen sind zulässig.

VII. Eigentumsvorbehalt. Bis zur vollständigen Befriedigung sämtlicher Ansprüche des Lieferers aus der Geschäftsverbindung behält sich der Lieferer das Eigentumsrecht an allen verkauften Waren vor. Der Eigentumsvorbehalt des Lieferers erlischt auch nicht im Falle des Wiederverkaufs oder der Verarbeitung oder der Vermischung bzw. Verbindung der vom Lieferer gelieferten Waren mit anderen Gegenständen. Der Besteller tritt dem Lieferer in diesem Falle bei Auftragserteilung schon im voraus das Eigentums- oder Miteigentumsrecht an den wiederverkauften bzw. vermischten Gegenständen bis zur endgültigen

Bezahlung der darauf lastenden Forderungen des Lieferers ab. Eigentumserwerb des Bestellers gemäß § 950 BGB wird ausgeschlossen, da der Besteller bis zur restlosen Bezahlung alles Material lediglich für den Lieferer verwahrt und verpflichtet ist, die Ware mit der Sorgfalt eines ordentlichen Kaufmannes vor Verderb durch unsachgemäße Lagerung, Diebstahl und anderen Schäden zu bewahren. Pfändungen und sonstige Beeinträchtigungen des Eigentums des Lieferers sind dem Lieferer sofort anzuzeigen. Die Ware darf bis zur vollständigen Bezahlung ohne schriftliche Zustimmung des Lieferers weder verpfändet noch sicherungshalber übereignet werden. Erfolgt Weiterveräußerung, und zwar gleichgültig, ob unbearbeitet oder be- und / oder verarbeitet, vor der vollständigen Bezahlung, so darf dies nur unter Eigentumsvorbehalt erfolgen. Auf jeden Fall gilt als vereinbart, dass mit der Weiterveräußerung alle Ansprüche des Bestellers gegen seine Abnehmer, insbesondere auf Zahlung des Kaufpreises, an den Lieferer abgetreten sind. Der Lieferer verpflichtet sich, die ihm zustehenden Sicherheiten auf Verlangen des Bestellers insoweit freizugeben, als der realisierbare Wert der Sicherheiten des Lieferanten zu den sichernden Forderungen um mehr als 20% übersteigt. Die Auswahl der freizugebenden Sicherheiten obliegt dem Lieferer. Der Lieferer ist jederzeit berechtigt, die Herausgabe der ihm gehörenden Erzeugnisse zu verlangen. Macht der Lieferer von diesem Recht Gebrauch, so liegt nur dann ein Rücktritt vom Vertrag vor, wenn der Lieferer dies ausdrücklich erklärt. Alle Kosten der Rückgabe sowie etwaiger Behebung von Beschädigungen auf Grund mangelnder Verwahrung durch den Besteller hat dieser zu tragen.

VIII. Haftung für Mängel der Lieferung. Der Lieferer leistet Gewähr für zugesicherte Eigenschaften und für Fehlerfreiheit entsprechend dem jeweiligen Stand der Technik. Die Gewährleistung beträgt 12 Monate ab Lieferung für den gewerblichen Gebrauch. Ausgenommen hiervon sind Verschleißteile, für die keine Gewährleistung übernommen wird. Weiter sind von der hiermit zugesicherten Gewährleistung ausgenommen, elektronische Baugruppen und Geräte mit elektronischen Komponenten, wenn für diese eine gesonderte, gesetzliche Gewährleistungspflicht gilt. Ein Anspruch auf Wandlung oder Minderung besteht nicht, es sei denn, dass der Lieferer auch nach 2-maligen Ausbesserungsversuchen nicht in der Lage ist, den Mangel zu beheben. Beanstandungen werden nur berücksichtigt, wenn sie innerhalb 8 Tagen nach Empfang der Ware erhoben werden. Gewährleistungsansprüche werden nur anerkannt, wenn sie unverzüglich nach Feststellung des Mangels angezeigt werden. Ersatz erfolgt nach Wahl des Lieferers, entweder durch Instandsetzung oder Neulieferung oder durch Gutschrift des entsprechenden Betrages. Dem Lieferer ist es freigestellt, die Instandsetzung bei dem Besteller selbst vorzunehmen oder im eigenen Werk. Bei Vornahme der Instandsetzung im eigenen Werk kann der Lieferer auf frachtfreier Rücksendung des Liefergegenstandes bestehen. Durch Instandsetzung oder Ersatzlieferung wird die Gewährleistungspflicht nicht verlängert oder erneuert. Teile für die Ersatz geleistet wird, werden Eigentum des Lieferers. Für fertige Zulieferungsteile aus Spezialfabrikationen (Durchlaufzähler, Motoren, elektrische Schaltgeräte, Manometer, Schläuche u.a.) übt der Lieferer Gewährleistung im Rahmen der Garantiebestimmungen seiner Lieferanten. Das Recht des Bestellers, Ansprüche aus Mängeln geltend zu machen, verjährt in allen Fällen vom Zeitpunkt der rechtzeitigen Rüge an in 6 Monaten, frühestens jedoch mit Ablauf der Gewährleistungspflicht.

Es wird keine Gewähr übernommen für Schäden, die aus nachstehenden Gründen entstanden sind: Ungeeignete oder unsachgemäße Verwendung, fehlerhafte Montage bzw. Inbetriebsetzung durch den Besteller oder Dritte, natürliche Abnutzung, fehlerhafte oder nachlässige Behandlung - insbesondere übermäßige Beanspruchung -, ungeeignete Betriebsmittel, Austauschwerkstoffe, mangelhafte Bauarbeiten, ungeeigneter Baugrund, chemische, elektrochemische oder elektrische Einflüsse, sofern sie nicht auf ein Verschulden des Lieferers zurückzuführen sind. Von der Haftung des Lieferers ausgeschlossen sind weiterhin Lieferteile, die infolge ihrer stofflichen Beschaffenheit oder nach Art ihrer Verwendung einem vorzeitigen Verschleiß unterliegen, wie Dichtungen, Packungen, Federn, Manometer, Teile aus Gummi oder Kunststoff, Kugellager usw. Zur Vornahme aller dem Lieferer nach billigem Ermessen notwendig erscheinenden Ausbesserungen und Ersatzlieferungen hat der Besteller nach Verständigung mit dem Lieferer die erforderliche Zeit und Gelegenheit zu geben, sonst ist der Lieferer von der Mängelhaftung befreit. Der Lieferer kann die Beseitigung von Mängeln verweigern, solange der Besteller seine Verpflichtungen nicht erfüllt. Durch etwa seitens des Bestellers oder Dritter unsachgemäß ohne vorherige Genehmigung des Lieferers vorgenommene Änderungen oder Instandsetzungsarbeiten wird die Haftung für die daraus entstehenden Folgen aufgehoben. Weitere Ansprüche des Bestellers, oder eines Dritten, insbesondere ein Anspruch auf Ersatz von Schäden, die nicht an dem Liefergegenstand selbst entstanden sind, bestehen nicht.

Ansprüche des Kunden auf Schadensersatz sind ausgeschlossen. Hiervon ausgenommen sind Schäden aus der Verletzung des Lebens, des Körpers oder der Gesundheit, wenn der Lieferer die Pflichtverletzung zu vertreten hat und sonstige Schäden, die auf einer vorsätzlichen oder grob fahrlässigen Pflichtverletzung des Lieferers beruhen. Einer Pflichtverletzung des Lieferers stehen solche seiner gesetzlichen Vertreter oder Erfüllungsgehilfen gleich.

IX. Gerichtsstand / Rechtswahl. Erfüllungsort für Lieferung und Zahlung (auch bei Wechseln) ist Darmstadt. Als Gerichtsstand gilt das jeweils sachlich zuständige Gericht in Darmstadt als örtlich vereinbart. Der Lieferer ist auch berechtigt, am Hauptsitz des Bestellers zu klagen. Es gilt deutsches Recht. Die Anwendung UN-Kaufrechts und des (internationalen) Kollisionsrechts ist ausgeschlossen.

X. Gültigkeit. Mit diesen allgemeinen Geschäftsbedingungen verlieren vorherige Liefer- und Zahlungsbedingungen ihre Gültigkeit. Lieferungen und Leistungen vor dem Datum dieser Liefer- und Zahlungsbedingungen unterliegen der jeweils gültigen Fassung zum Zeitpunkt der Lieferung.

- **Hose reels**
- **Storage systems**
- **Oil supply**
- **AdBlue® supply**
- **Grease supply**
- **Waste oil management**
- **Cable reels**
- **Small parts cleaner**
- **Electric mobility**
- **Pressure air supply**
- **Special truck bodies**

Rapid Group GmbH  
Bahnhofstraße 53-55  
64560 Riedstadt  
GERMANY

Phone: +49 (6158) 929 80-0  
Fax: +49 (6158) 929 80-50  
E-Mail: [info@rapid-group.de](mailto:info@rapid-group.de)  
Internet: [www.rapid-group.de](http://www.rapid-group.de)



*Browse online and  
always be up-to-date!*

*Challenge us! Your rapid®-specialist dealer.*

Our product data will be  
provided by:

 **cdmm**  
catalog data management