

# GARAGE EQUIPMENT





In the rowing-sport there is Passion, Team Spirit, Readiness to Perform and fun at the competition an important characteristics for success – such characteristics, are also of great importance within the enterprise for the common reaching of a goal.

The promotion of young talents is important to us, both within our enterprise and outside. Only so continuity and success can become secured also in the future.

Therefore the PRESSOL Schmiergeräte GmbH supports the juniors of the rowing-club Bodan e.V. in Überlingen at the Bodensee.



*“There is scarcely  
anything in the world...*

*...that some man cannot  
make a little worse,  
and sell a little more cheaply.  
The person who buys  
on price alone is this  
man's lawful prey.”*

*John Ruskin (1819-1900)  
essayist and reformer*

**PLEASE FIND CONSTANTLY UPDATED PRODUCT DETAILS ON**  
**[www.pressol.com](http://www.pressol.com)**

## Cost consciousness and Cost reduction...

*„...is one thing.*

*The elimination of costs and risks to be expected in the future, is something different.*

*PRESSOL supplies components and complete systems for your garage offering competitive prices and highest technological performances. PRESSOL supplies perspectives more valuable than simple money.“*

In 1910 Mr. Jakob Preßl invented the very first pump oiler. Little later he received a patent for his invention issued by the Austro-Hungarian Empire. In the year 2006 PRESSOL manufactured almost 85 million parts and pieces for more than 2300 original products.



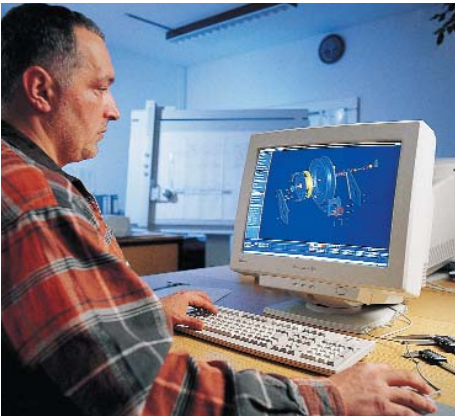
**EXPERIENCE**

It is the basis of our quality management to find out the requirements of our customers and their needs even if not precisely announced. Optimized and claim-free products, this is what we work for.



**QUALITY**

We invest the biggest part of our profits to develop new products and to optimize as well already existing product groups. The technical know-how of our employees is our biggest potential. Opposite to the general international trends we do manufacture 80 % of our programme in our own plants.



**INNOVATION**

We ship any standard order in between 48 hours after receipt of order. For big orders we ask for some additional delivery time.







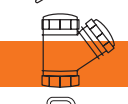







**DELIVERY**

# ***PRESSOL CUSTOMER INFORMATION***



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# List Of Abbreviations / Weights and Measures

## LIST OF GENERAL ABBREVIATIONS

<b>Ø</b>	Diameter
<b>1~AC</b>	1 Phase alternate current
<b>3~AC</b>	3 phase alternate current
<b>AC</b>	Alternate current
<b>B</b>	Size
<b>bar</b>	measurement graduation for i.e. air or liquid pressures
<b>BD</b>	Operating pressure
<b>D</b>	Ceiling mounting
<b>°C</b>	Degrees Celsius
<b>dB (A)</b>	Decibel, A-loudness level (based on absolutely noiseless situation)
<b>DC</b>	Direct current
<b>DIN</b>	German Industry Norm
<b>DH</b>	Double strokes
<b>DL</b>	Compressed air
<b>DN</b>	inner diameter of hoses or pipes
<b>DW</b>	Double acting
<b>ED</b>	Cyclic duration
<b>EF</b>	Calibratable
<b>EN</b>	European Norm
<b>EZP</b>	Electrical gear pump
<b>G</b>	Whitworth threads, cylindric ISO 228 (DIN 259)
<b>GDA</b>	Encased, swivel joint situated outside
<b>GDI</b>	Encased, swivel joint situated inside
<b>H</b>	Coupler is designed to suit hydraulic grease nipples
<b>IP</b>	Electric safety protection
<b>kg</b>	Kilogram
<b>KW</b>	Kilowatt hour
<b>l</b>	Liter
<b>LW</b>	Clearance
<b>LxWxH</b>	Length x width x height in millimeters
<b>M</b>	Metric thread, cylindric DIN 13
<b>m</b>	Meter
<b>mm</b>	Millimeter
<b>mPa s</b>	Millipascal per second
<b>my(µ)</b>	10 <sup>-6</sup> Meter
<b>ND</b>	Nominal pressure
<b>NEF</b>	Not calibratable
<b>NLGI</b>	Viscosity of greases class 000 - 3, defined by the National Lubricating Grease Institute, USA
<b>NW</b>	Nominal width
<b>O</b>	Open
<b>PN</b>	Nominal pressure and/or working pressure
<b>PNP</b>	Pneumatic pump
<b>PTB</b>	Physical technical Federal Institution
<b>Q</b>	Heat distribution medium oil
<b>R</b>	Whitworth thread, tapered, similar to DIN 3858, the connection is self-sealing
<b>SAR</b>	Hose reel
<b>1 SN</b>	High pressure hose, DIN 20 022 (EN 853), paragraph 3 meeting SAE 100 R 1 T with single wire braid reinforcement
<b>2 SN</b>	High pressure hose, DIN 20 022 (EN 853), paragraph 4 meeting SAE 100 R 2 T with double wire braid reinforcement
<b>SRL</b>	suction pipe length, following figures always in mm
<b>SW</b>	Size on wrench



- TRBF** — German government regulation for inflammable liquids
- TÜV** — German organisation for technical certification
- TW** — Tank car
- V** — Voltage
- VA** — Voltampere
- VbF** — German government regulation for inflammable liquids
- WB** — Wall- and ceiling mounting
- WHG** — German government regulation for environmental care
- ZSA** — Central lubrication plant

**LIST OF ABBREVIATIONS FOR MATERIALS**

- CSM** — Hypalon®
- E-CTF** — Ethylene – Chlorine trifluorideethylene (Halar®)
- EPDM** — Ethylene – Propylene
- FEP** — Tetrafluoroethylene - Perfluoropropylene (Teflon®)
- FKM** — Viton®
- FPM** — Fluoro – Polymer (Viton®)
- GG** — Gray cast iron casting
- HDPE** — High Density Polyethylene
- Hytrel®** — Hytrel® is a registered Trade Mark of the company DuPont
- LDPE** — Low Density Polyethylene
- NBR** — Perbunan®
- PA** — Polyamide
- PC** — Polycarbonate
- PFA** — Perfluoroalkoxy (Teflon® PFA)
- PMP** — Polymethylenepentene (TPX®)
- POM** — Acetal homopolymer
- PP** — Polypropylene
- PS** — Polystyrol
- PSF** — Polysulfone
- PTFE** — Polytetrafluorethylene (Teflon®)
- PVC** — Polyvinyl Chloride
- PVDF** — Polyvinylidene fluoride
- SAN** — Styrol Acrylnitril
- SI** — Silicone rubber

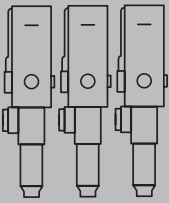
**INTERNATIONAL WEIGHTS AND MEASURES**

1 Inch (in.)	.....	2,54 cm
1 foot (ft) - 12 in.	.....	30,48 cm
1 yard (yd) - 3 in.	.....	91,44 cm
1 mile	.....	1,609344 km

1 square inch (sq.in.)	.....	6,45 cm <sup>2</sup>
1 square foot (sq.ft) - 144 sq.in	.....	9,280 dm <sup>2</sup>
1 square yard (sq.yd - 9 sq.ft.)	.....	0,836 m <sup>2</sup>
1 acre	.....	0,4047 ha
1 square mile (sq.mile)	.....	2,589978 km <sup>2</sup>

	<b>U. K.</b>	<b>U.S.A</b>
1 pint	.....0,588 l	.....0,473 l
1 quart (qt) - 2 pints	.....1,136 l	.....0,946 l
1 gallon (gal) - 4 qt	.....4,546 l	.....3,785 l
1 barrel (bbl) - 31 1/2 gal	.....	.....119,200 l
1 barrel Erdöl - 42 gal	.....	.....158,800 l

1 dram (dr)	.....	1,772 g
1 ounce (oz) - 16 dr	.....	28,350 g
1 pound (lb) - 16 oz	.....	453,590 g
1 quarter (qr)	.....	12,700 kg
1 hundredweight (cwt) - 4 gr	.....	50,802 kg



## *Synopsis Pneumatic Pumps*

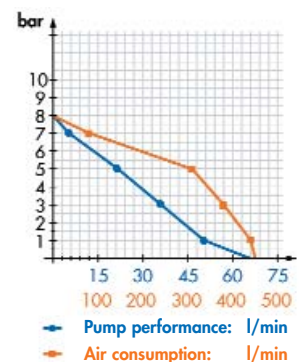
*We don't guarantee 5 years of  
best performance for fun...*

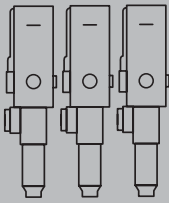


## PNEUMATIC OIL AND DIESEL PUMP 1:1

### TECHNICAL DATA, PNEUMATIC OIL AND DIESEL PUMP 1:1

Total length of pump	375 mm / 1215 mm
Maximum Diameter	130 mm
Motor weight/total weight	4,3 kg / 6,8 kg
Transmission ratio	1 : 1
Maximum air pressure	10 bar
Minimum air pressure	2 bar
Recommended air pressure	8 bar
Stroke volume, motor	<b>220 cm<sup>3</sup></b>
Stroke volume, pump	<b>220 cm<sup>3</sup></b>
Stroke number at 8 bar (free outlet)	<b>240 /min</b>
Pump performance at 8 bar (free outlet)	<b>66 l/min</b>
Pump pressure at 8 bar compressed air	<b>8 bar</b>
Air consumption at 8 bar compressed air	<b>450 l/min</b>
Feeding pipeline length	Depends on each single machine
Maximum suction height	<b>6 m</b> , G 1" suction pipe
Airline connection	G 1/4" i
Connection,suction side	G 1" i
Connection,pressure side	G 3/4" a
Noise level on no load, acc. ISO 9614-2	78db (A) (2 m distance)
Noise level under load, acc. ISO 9614-2	77db (A) (2 m distance)
General application areas	For feeding liquid, non-viscous, self-lubrication media (Diesel, fuel oil, engine oil, from original barrels or tanks)
Classical application areas	As barrel pump (200 l barrel) with 900 mm suction pipe, 4 m supply hose and tap gun
Viscosity of the fed medium	From oil to ISO VG 15 SAE 5
Classical fed medium	diesel and oil
Test curve	Air pressure: 8 bar Test medium: Diesel Test medium temperature: 15 °C Suction pipework: 1 m / G 1" Pressure pipework: 0,2 m / G 3/4"
Discharge time for 1 barrel	200 l diesel barrel in 3 minutes
Painting/special features	Pantone 294c, blue satin
Remarks	<b>We recommend the use of an air maintenance unit (20 218 950)</b>

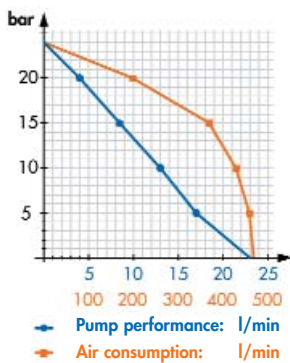




# Synopsis Pneumatic Pumps

## PNEUMATIC OIL AND DIESEL PUMP 3:1

### TECHNICAL DATA, PNEUMATIC OIL AND DIESEL PUMP 3:1

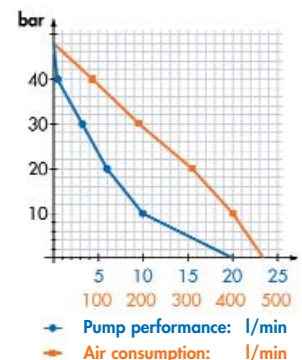


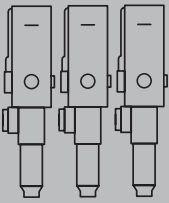
Total length of pump	360 mm / 1200 mm
Maximum Diameter	130 mm
Motor weight/total weight	3,8 kg / 5,2 kg
Transmission ratio	3 : 1
Maximum air pressure	10 bar
Minimum air pressure	2 bar
Recommended air pressure	8 bar
Stroke volume, motor	<b>220 cm<sup>3</sup></b>
Stroke volume, pump	<b>70 cm<sup>3</sup></b>
Stroke number at 8 bar (free outlet)	<b>260 /min</b>
Pump performance at 8 bar (free outlet)	<b>22 l/min</b>
Pump pressure at 8 bar compressed air	<b>24 bar</b>
Air consumption at 8 bar compressed air	<b>470 l/min</b>
Feeding pipeline length	Depends on each single machine
Maximum suction height	<b>6 m</b> , G 3/4" suction pipe
Airline connection	G 1/4" i
Connection, suction side	G 3/4" i
Connection, pressure side	G 1/2" a
Noise level on no load, acc. ISO 9614-2	78 db (A) (2 m distance)
Noise level under load, acc. ISO 9614-2	77 db (A) (2 m distance)
General application areas	For feeding motor and hydraulic oil, from original barrels or tanks.
Classical application areas	As pump for mounting on walls, with suction set, suction pipe for 200 l barrel, hose rewriter and manual flow counter
Viscosity of the fed medium	From oil to SAE 90
Classical fed medium	Motor and gear oil
Test curve	Air pressure: 8 bar Test medium: SAE 15 W 40 Test medium temperature: 15 °C Suction pipework: 1 m / G 3/4" Pressure pipework: 0,2 m / G 1/2"
Discharge time for 1 barrel	200 l oil barrel in 9 minutes
Painting/special features	Pantone 294c, blue satin
Remarks	<b>We recommend the use of an air maintenance unit (20 218 950)</b>

## PNEUMATIC OIL PUMP 5:1 - DOUBLE ACTIVATING

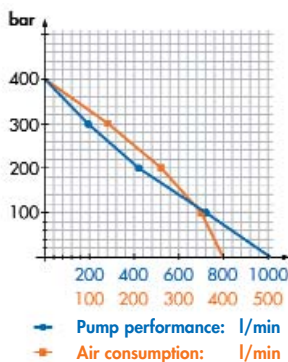
### TECHNICAL DATA, PNEUMATIC OIL PUMP 5:1 - DOUBLE ACTIVATING

Total length of pump	360 mm / 1200 mm
Maximum Diameter	130 mm
Motor weight/total weight	4 kg / 5,4 kg
Transmission ratio	5 : 1
Maximum air pressure	10 bar
Minimum air pressure	2 bar
Recommended air pressure	8 bar
Stroke volume, motor	<b>220 cm<sup>3</sup></b>
Stroke volume, pump	<b>70 cm<sup>3</sup></b>
Stroke number at 8 bar (free outlet)	<b>270 /min</b>
Pump performance at 8 bar (free outlet)	<b>20 l/min</b>
Pump pressure at 8 bar compressed air	<b>40 bar</b>
Air consumption at 8 bar compressed air	<b>470 l/min</b>
Feeding pipeline length	Depends on each single machine
Maximum suction height	<b>6 m</b> , G 3/4" suction pipe
Airline connection	G 1/4" i
Connection, suction side	G 3/4" i
Connection, pressure side	G 1/2" a
Noise level on no load, acc. ISO 9614-2	78 db (A) (2 m distance)
Noise level under load, acc. ISO 9614-2	77 db (A) (2 m distance)
General application areas	Double-acting pump for feeding motor, gear and hydraulic oil, from original barrels or tanks, specially for remote oil-supply
Classical application areas	As pump for mounting on 1000 l tank with lubricant, with connecting hose, hose rewriter and manual flow counter
Viscosity of the fed medium	From oil to SAE 140
Classical fed medium	Motor and gear oil
Test curve	Air pressure: 8 bar Test medium: SAE 15 W 40 Test medium temperature: 15 °C Suction pipework: 1 m / G 3/4" Pressure pipework: 0,2 m / G 1/2"
Discharge time for 1 barrel	200 l oil barrel in 14 minutes
Painting/special features	Pantone 294c, blue satin
Remarks	<b>We recommend the use of an air maintenance unit (20 218 950)</b>





# Synopsis Pneumatic Pumps



## PNEUMATIC GREASE PUMP 50:1

### TECHNICAL DATA, PNEUMATIC GREASE PUMP 50:1

Total length of pump	225 mm / 820 mm
Maximum Diameter	130 mm
Motor weight/total weight	3,4 kg / 6,7 kg
Transmission ratio	50 : 1
Maximum air pressure	10 bar
Minimum air pressure	2 bar
Recommended air pressure	8 bar
Stroke volume, motor	<b>220 cm<sup>3</sup></b>
Stroke volume, pump	<b>8 cm<sup>3</sup></b>
Stroke number at 8 bar (free outlet)	<b>220 /min</b>
Pump performance at 8 bar (free outlet)	<b>1100 g/min</b>
Pump pressure at 8 bar compressed air	<b>400 bar</b>
Air consumption at 8 bar compressed air	<b>400 l/min</b>
Feeding pipeline length	Depends on each single machine
Maximum suction height	Pump unit on suction point
Airline connection	G 1/4" i
Connection, suction side	dia. 35 mm
Connection, pressure side	G 1/4" a
Noise level on no load, acc. ISO 9614-2	78 db (A) (2 m distance)
Noise level under load, acc. ISO 9614-2	77 db (A) (2 m distance)
General application areas	For feeding lubrication greases and multi-function greases from NLGI 0 to NLGI 2 from original barrels, i.e. greases for central lubrication devices
Classical application areas	As pump for 50-kg barrel, with 4 m discharge hose, Z-joint and grease gun, for mounting on carrier wagon
Viscosity of the fed medium	Grease having consistency 2 acc. to NLGI
Classical fed medium	Lubrication greases
Test curve	Air pressure: 8 bar Test medium: Rinolit LZR2 Test medium temperature: 15 °C Pressure pipework: 0,2 m /G 1/4"
Discharge time for 1 barrel	50 l grease barrel in 50 minutes
Special features	Pump unit can be disassembled for cleaning
Painting/special features	Pantone 294c, blue satin
Remarks	<b>We recommend the use of an air maintenance unit (20 218 950)</b>



## ***Grease Supply Systems***



***Standard requirements  
or individual solution - we lubricate  
in any case ...***





# Grease Supply Systems

Article no.

## GREASE SUPPLY SYSTEMS, STATIONARY

### Grease supply system, stationary

### Technical data

high-pressure grease hose, 2 m  
(18 022)

airline connector: to suit Rectus airline connector, type 26

**18 405 051** to suit 5 kg container,  
Ø 180 - 210 mm

NW: 7,2 mm

**18 419 051** to suit 20 kg container,  
Ø 270 - 310 mm

hydraulic coupler: to suit hydraulic grease nipples,  
DIN 71 412

**18 421 051** to suit 25 kg container,  
Ø 310 - 335 mm

### Specification

high-pressure grease hose, 4 m  
(18 024)

- 50:1 pneumatic grease pump
- high performance
- dust cover, follower plate and adjustable stabilising-fixing bracket

**18 764 051** to suit 50 kg container,  
Ø 335 - 385 mm

- high-pressure grease control gun (18 104)

**18 785 051** to suit 200 kg container,  
Ø 540 - 590 mm

- 360 degree Z-swivel connector (18 082)

high-pressure grease hose, 6 m  
(18 026)

- high-pressure grease hose

**18 421 056** to suit 25 kg container,  
Ø 310 - 335 mm

- pressure reduction valve (8 bar pre-set)

**18 764 056** to suit 50 kg container,  
Ø 335 - 385 mm

- male quick release airline connector (20 062)

**18 785 056** to suit 200 kg container,  
Ø 540 - 590 mm

## GREASE SUPPLY SYSTEMS, MOBILE

### Grease supply system, mobile

### Technical data

high-pressure grease hose, 2 m  
(18 022) and trolley (17 004)

Airline connector: to suit Rectus airline connector, type 26

**18 410 051** to suit 10 kg container,  
Ø 210 - 240 mm

NW: 7,2 mm

**18 415 051** to suit 15 kg container,  
Ø 240 - 270 mm

hydraulic coupler: to suit hydraulic grease nipples,  
DIN 71 412

**18 417 051** to suit 20 kg container,  
Ø 270 - 310 mm

### Specification

high-pressure grease hose, 2 m  
(18 022) and trolley (17 008)

- 50:1 pneumatic grease pump
- high performance
- dust cover, follower plate and adjustable stabilising-fixing bracket

**18 425 051** to suit 25 kg container,  
Ø 310 - 335 mm

- high-pressure grease control gun (18 104)

high-pressure grease hose, 4 m  
(18 024) and trolley (17 008)

- 360 degree Z-swivel connector (18 082)

**19 000 530** to suit 25 kg container,  
Ø 310 - 335 mm

- high-pressure grease hose

**18 766 051** to suit 50 kg container,  
Ø 335 - 385 mm

- pressure reduction valve (8 bar pre-set)

- male quick release airline connector (20 062)

- trolley



18 419 051



18 415 051



18 766 051



Article no.

**Technical data**

airline connector: to suit Rectus airline connector, type 26  
 NW: 7,2 mm  
 hydraulic coupler: to suit hydraulic grease nipples, DIN 71 412

**Specification**

- 50:1 pneumatic grease pump
- high performance
- dust cover, follower plate and adjustable stabilising-fixing bracket
- high-pressure grease control gun (18 104)
- 360 degree Z-swivel connector (18 082)
- high-pressure grease hose or hose reel (as article no. 18 788 051)
- pressure reduction valve (8 bar pre-set)
- male quick release airline connector (20 062)
- trolley

**Grease supply system, mobile**

high-pressure grease hose, 4 m (18 024) and trolley (17 009)  
**to suit 200 kg container,**  
 Ø 540 - 590 mm

**18 786 051**

high-pressure grease hose, 6 m (18 026) and trolley (17 008)  
**to suit 25 kg container,**  
 Ø 310 - 335 mm

**19 000 533**

high-pressure grease hose, 6 m (18 026) and trolley (17 008)  
**to suit 50 kg container,**  
 Ø 335 - 385 mm

**18 766 950**

high-pressure grease hose, 6 m (18 026) and trolley (17 009)  
**to suit 200 kg container,**  
 Ø 540 - 590 mm

**18 786 056**

hose reel, open, wall and floor mounting, 10 m (29 242) and trolley (17 009)  
**to suit 200 kg container,**  
 Ø 540 - 590 mm

**18 788 051**



18 786 051

**GREASE SUPPLY SYSTEMS, MOBILE, TO RECHARGE CENTRALIZED LUBRICATION SYSTEMS**

**Technical data**

airline connector: to suit Rectus airline connector, type 26  
 NW: 7,2 mm  
 hydraulic coupler: to suit Rectus connector, type 72

**Specification**

- 50:1 pneumatic grease pump
- high performance
- dust cover, follower plate and adjustable stabilising-fixing bracket
- high-pressure grease control gun with an universal female quick release connector (18 105)
- 360 degree Z-swivel connector (18 082)
- high-pressure grease hose

**Grease supply system, mobile, ZSA**

high-pressure grease hose, 4 m (18 024) and trolley (17 008)  
**to suit 50 kg container,**  
 Ø 335 - 385 mm

**19 000 532**

high-pressure grease hose, 6 m (18 026) and trolley (17 008)  
**to suit 50 kg container,**  
 Ø 335 - 385 mm

**19 000 535**

- pressure reduction valve (8 bar pre-set)
- male quick release airline connector (20 062)
- trolley (17 008)



19 000 532

**ACCESSORY TO SUIT 19 000 532**

**Technical data**

connection 1: G 1/4" female  
 connection 2: to suit Rectus connector, type 72  
 material: brass

**Male quick release adapter,**

G 1/4" female, type 72

**17 044**

**Specification**

- to connect to a centralized lubricating system



17 044



# Grease Supply Systems

Article no.

## ACCESSORIES TO SUIT 19 000 532



01 297

01 297

**Female quick release adapter,**  
type 72, G 1/4" female

**Technical data**

connection 1: female Rectus connector,  
type 72  
connection 2: G 1/4" female  
material: brass

**Specification**

- to connect to a centralized lubricating system



17 045

17 045

**Male quick release adapter with angled discharge spout**  
Rectus type 72

**Technical data**

connection: to suit Rectus connector,  
type 72

**Specification**

- male quick release adapter, Rectus type 72 (17 044)
- to suit Rectus coupling (01 297)
- to suit centralized lubricating systems without standard filling connectors

## GREASE SUPPLY SYSTEMS, MOBILE



27 846

27 846

**Grease supply system, mobile**

**Technical data**

metal cover height: 700 mm  
diameter: 400 mm  
airline connector: to suit Rectus airline connector, type 26  
NW: 7,2 mm  
hydraulic coupler: to suit hydraulic grease nipples, DIN 71 412  
lacquering: tank, RAL 7040 window grey satin

27 846 056

high-pressure grease hose, 4 m (18 024)  
**to suit 50/60 kg container,**  
Ø 335 - 385 mm

27 846 950

high-pressure grease hose, 6 m (18 026)  
**to suit 50/60 kg container,**  
Ø 335 - 385 mm

high-pressure grease hose, 2 m (18 022)  
**to suit 20 kg container,**  
Ø 270 - 310 mm

**Specification**

- 50:1 pneumatic grease pump
- high performance
- follower plate
- barrel cover, designed to be utilized with manufacturers grease container and for protection of grease container
- high-pressure grease control gun (18 104)
- 360 degree Z-swivel connector (18 082)
- high-pressure grease hose
- pressure reduction valve (8 bar pre-set)
- male quick release airline connector (20 062)
- for use with smaller container please order follower plates according to the diameter of used container by separate
- hose storage rack
- oil drip tray

## SYNOPSIS FOLLOWER PLATES, ADJUSTABLE STABILISING-FIXING BRACKETS, DUST COVERS

Unit	Volume of Container	Inner Ø of Container	Length of Suction Tube	Follower Plate	Stabilising-fixing bracket	Dust Cover	Pump Set
<b>Pneumatic Grease Pumps 50:1</b>	5 - 15 kg	–	400 mm	–	–	–	<b>18 710 950</b>
	10 - 20 kg	–	468 mm	–	–	–	<b>18 710 051</b>
	20 - 30 kg	–	600 mm	–	–	–	<b>18 711 051</b>
	25 - 60 kg	–	700 mm	–	–	–	<b>18 713 051</b>
	200 kg	–	1000 mm	–	–	–	<b>18 716 051</b>
<b>Grease Supply Systems</b>	5 kg	180 - 210 mm	400 mm	17 195	17 197	17 171	<b>18 700 051</b>
	10 kg	210 - 240 mm	468 mm	17 230	17 197	17 171	<b>18 720 051</b>
	15 kg	240 - 270 mm	468 mm	17 265	17 197	17 172	<b>18 730 051</b>
	20/30 kg	270 - 310 mm	600 mm	17 300	17 197	17 176	<b>18 740 051</b>
	25 kg	310 - 335 mm	600 mm	17 320	17 199	17 194	<b>18 750 051</b>
	50 kg	335 - 385 mm	700 mm	17 380	17 199	17 198	<b>18 760 051</b>
	200 kg	540 - 590 mm	1000 mm	17 401	17 201	17 200	<b>18 780 051</b>
<b>Grease Supply Systems, Mobile</b>	10 kg	210 - 240 mm	468 mm	17 230	17 197	17 171	<b>18 410 051</b>
	15 kg	240 - 270 mm	468 mm	17 265	17 197	17 172	<b>18 415 051</b>
	20 kg	270 - 310 mm	600 mm	17 300	17 197	17 176	<b>18 417 051</b>
	25 kg	310 - 335 mm	600 mm	17 320	17 199	17 194	<b>18 425 051</b>
	25 kg	310 - 335 mm	600 mm	17 320	17 199	17 194	<b>19 000 530</b>
	25 kg	310 - 335 mm	600 mm	17 320	17 199	17 194	<b>19 000 533</b>
	50 kg	335 - 385 mm	700 mm	17 380	17 199	17 198	<b>18 766 051</b>
	50 kg	335 - 385 mm	700 mm	17 380	17 199	17 198	<b>18 766 950</b>
	200 kg	540 - 590 mm	1000 mm	17 401	17 201	17 200	<b>18 786 051</b>
	200 kg	540 - 590 mm	1000 mm	17 401	17 201	17 200	<b>18 786 056</b>
	200 kg	540 - 590 mm	1000 mm	17 401	17 201	17 200	<b>18 788 051</b>
<b>Grease Supply Systems, Stationary</b>	5 kg	180 - 210 mm	400 mm	17 195	17 197	17 171	<b>18 405 051</b>
	20 kg	270 - 310 mm	600 mm	17 300	17 197	17 176	<b>18 419 051</b>
	25 kg	310 - 335 mm	600 mm	17 320	17 199	17 194	<b>18 421 051</b>
	25 kg	310 - 335 mm	600 mm	17 320	17 199	17 194	<b>18 421 056</b>
	50 kg	335 - 385 mm	700 mm	17 380	17 199	17 198	<b>18 764 051</b>
	50 kg	335 - 385 mm	700 mm	17 380	17 199	17 198	<b>18 764 056</b>
	200 kg	540 - 590 mm	1000 mm	17 401	17 201	17 200	<b>18 785 051</b>
	200 kg	540 - 590 mm	1000 mm	17 401	17 201	17 200	<b>18 785 056</b>
<b>Grease Supply Systems, Mobile, to Recharge Centralized Lubrication Systems</b>	50 kg	335 - 385 mm	700 mm	17 380	17 199	17 198	<b>19 000 532</b>
	50 kg	335 - 385 mm	700 mm	17 380	17 199	17 198	<b>19 000 535</b>
<b>Grease Supply Systems, Mobile</b>	50/60 kg	335 - 385 mm	700 mm	17 380	–	–	<b>27 846</b>
	50/60 kg	335 - 385 mm	700 mm	17 380	–	–	<b>27 846 056</b>
	20 kg	270 - 360 mm	468 mm	17 300	–	–	<b>27 846 950</b>

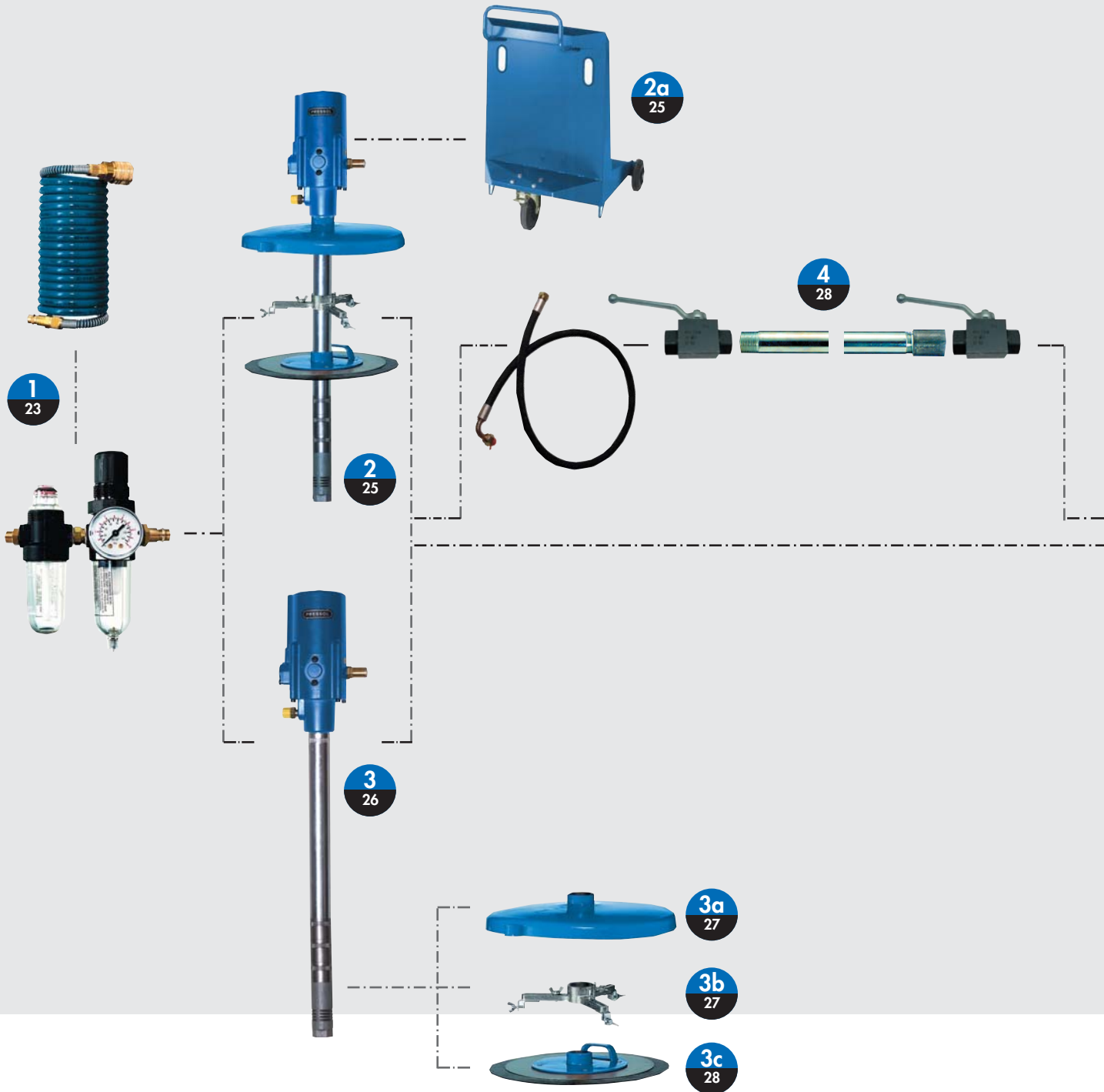


# ***Construction Kit For Grease Supply***





# Construction Kit For Grease Supply

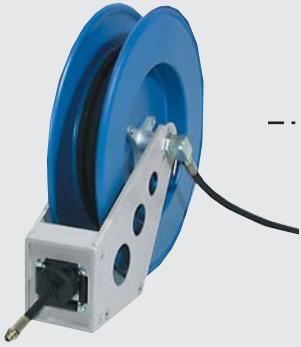


## Explanation of Signs

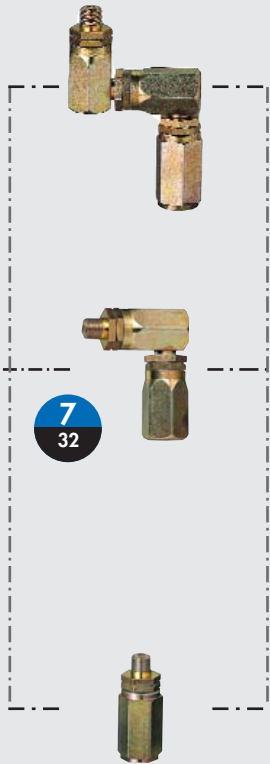
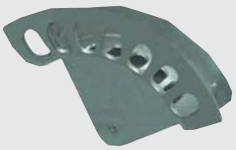
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- 23** — Page



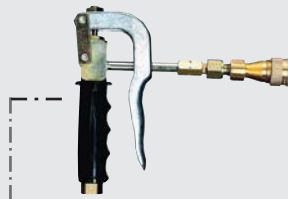
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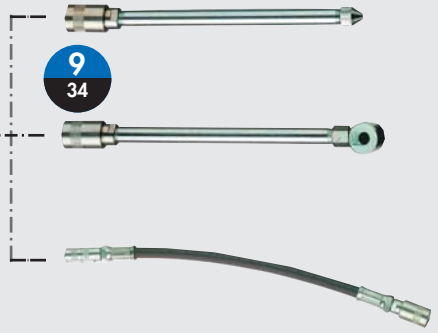
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34

## 1 AIR MAINTENANCE UNIT

### Technical data

connection 1:	G 1/4" female
connection 2:	G 1/4" female
max. operating pressure:	10 bar
regulating air pressure:	0,5 - 10 bar
normal flow rate:*	6.3 l/sec
filter:	40 my
condensate volume:	0,017 l
operating temperature:	0 °C to +50 °C
casing material:	zinc die casting

### Air maintenance unit

\* at a 10 bar airline pressure, 6 bar operating pressure and  $\Delta p=1$ bar

### Specification

- pressure regulator with gauge, moisture separating filter and lubricator

Article no.

20 218



20 218



# Construction Kit For Grease Supply

Article no.

## AIR MAINTENANCE UNIT

20 218 950

**Air maintenance unit, complete set**

### Technical data

connection 1:	G 1/4" male
connection 2:	to suit Rectus airline connector, type 26
NW:	7,2 mm
max. operating pressure:	10 bar
regulating air pressure:	0,5 - 10 bar
normal flow rate:*	6.3 l/sec
filter:	40 my
condensate volume:	0,017 l
operating temperature:	0 °C to +50 °C
casing material:	zinc die casting

\* at a 10 bar airline pressure, 6 bar operating pressure and  $\Delta p = 1$  bar

### Specification

- pressure regulator with gauge, moisture separating filter and lubricator
- male quick release coupler
- G 1/4" male/male adapter



20 218 950

## ACCESSORIES FOR AIR SUPPLY

20 062

**Male quick release adapter, G 1/4" to suit Rectus connector, type 26**

### Technical data

connection 1:	G 1/4" male
connection 2:	to suit Rectus airline connector, type 26
NW:	7,2 mm
opening of the spanner:	12 mm
material:	brass

### Specification

- to be used for mounting of an air maintenance unit (20 218)



20 062

20 112

**Adapter, G 1/4" male, G 1/4" male**

### Technical data

connections:	G 1/4" male, 60° inside cone
NW:	7,5 mm
opening of the spanner:	17 mm
operating pressure:	- 0.95 to 15 bar
operating temperature:	-10 °C to 70 °C
material:	brass

### Specification

- to be used for mounting of an air maintenance unit (20 218)
- with an inside cone, acc. to DIN EN 560



20 112



**Technical data**

length of hose: 5 m  
 connection 1: female Rectus quick release airline connector, type 26  
 connection 2: to suit male Rectus quick release airline connector, type 26  
 NW: 7,2 mm  
 dynamic operating pressure: 17 bar

**Coiled air hose, 5 m**

**Specification**

- to connect the compressed airline to a compressed air tool

Article no.  
**20 185**



20 185

**2 GREASE SUPPLY SYSTEMS**

**Technical data**

airline connection: G 1/4" female

**Specification**

- 50:1 pneumatic grease pump
- high performance
- suction tube
- dust cover, follower plate and adjustable stabilising-fixing bracket
- pressure reduction valve (8 bar pre-set)

**Grease supply system**

- |  |                   |
|--|-------------------|
| SRL 400<br>to suit 5 kg container,<br>Ø 180 - 210 mm     | <b>18 700 051</b> |
| SRL 468<br>to suit 10 kg container, Ø 210 - 240 mm       | <b>18 720 051</b> |
| to suit 15 kg container, Ø 240 - 270 mm                  | <b>18 730 051</b> |
| SRL 600<br>to suit 20/30 kg container,<br>Ø 270 - 310 mm | <b>18 740 051</b> |
| to suit 25 kg container, Ø 310 - 335 mm                  | <b>18 750 051</b> |
| SRL 700<br>to suit 50 kg container, Ø 335 - 385 mm       | <b>18 760 051</b> |
| SRL 1000<br>to suit 200 kg container, Ø 540 - 590 mm     | <b>18 780 051</b> |



18 750 051

**2a TROLLEYS AND ACCESSORIES**

**Specification**

- two wheels

**Trolley** to suit 5, 10, 15 kg container

**17 004**

**Specification**

- robust high quality trolley, easy to handle and quiet running
- two wheels
- rubber retaining strap (17 000)
- hose storage rack

**Trolley** to suit 5, 10, 15, 25, 50 kg container

**17 008**



17 004

17 008



# Construction Kit For Grease Supply

Article no.

## 2a TROLLEYS AND ACCESSORIES



17 009

17 009

**Trolley** to suit 200 kg container

**Specification**

- robust highest quality trolley, easy to handle and quiet running
- three wheels
- single wheel locking mechanism
- hose storage rack
- suitable for mounting of hose reels, electric oil pumps or pneumatic pumps
- drip-tray integrated on the handle, with a drain screw and removable strainer



17 009 390

17 009 390

**Trolley** to suit 200 kg container

**Specification**

- three wheels
- single wheel locking mechanism
- control gun storage bracket with drip-tray



17 009 950

17 009 950

**Trolley** to suit 200 kg container

**Specification**

- three wheels
- single wheel locking mechanism
- suitable for mounting of hose reels
- control gun storage bracket with drip-tray



17 000

17 000

**Rubber retaining strap**  
to suit trolley (17 008)

**Technical data**

length: 770 mm



17 021

17 021

**Handleless trolley**  
to suit container, max. Ø 560 mm

**Specification**

- four castor wheels



18 710 950

18 710 950

## 3 PNEUMATIC GREASE PUMPS 50:1

**Pneumatic grease pump 50:1**

**Technical data**

airline connection: G 1/4" female

SRL 400  
**to suit 5 - 15 kg container**

**Specification**

- high performance
- suction tube
- pressure reduction valve (8 bar pre-set)

18 710 051

SRL 460  
**to suit 10 - 20 kg container**

**Technical data**

airline connection: G 1/4" female

**Specification**

- high performance
- suction tube
- pressure reduction valve (8 bar pre-set)

**Pneumatic grease pump 50:1**

SRL 600  
to suit 20 - 30 kg container

SRL 700 mm  
to suit 25 - 60 kg container

SRL 1000 mm  
to suit 200 kg container

Article no.

18 711 051

18 713 051

18 716 051



18 713 051

**3a DUST COVERS**

**Technical data**

material: metal  
inside diameter: 35,5 mm  
lacquering: Pantone 294c, blue satin

**Specification**

- grease gun holder

**Dust cover**

to suit 5 - 10 kg container,

Ø 252 mm

to suit 5 - 10 kg container,

Ø 282 mm

to suit 15 - 20 kg container,

Ø 342 mm

to suit 25 - 60 kg container,

Ø 385 mm

to suit 50 - 60 kg container,

Ø 450 mm

to suit 200 kg container,

Ø 600 mm

17 171

17 172

17 176

17 194

17 198

17 200



17 194

**Technical data**

retention adapter: G 2" male  
material: metal  
inside diameter: 35,5 mm  
lacquering: Pantone 294c, blue satin

**Specification**

- integral stabilising-fixing mechanism
- grease gun holder

**Dust cover, conical**

to suit 25 kg container,

Ø 385 mm

17 184



17 184

**3b STABILISING-FIXING BRACKETS**

**Technical data**

material: metal  
inside diameter: 35,5 mm

**Specification**

- adjustable to suit different container sizes
- clamp with a butterfly screw to fix the suction tube of a pump

**Stabilising-fixing bracket**

to suit 5-20 kg container,  
Ø 180 - 310 mm

to suit 25-60 kg container,  
Ø 310 - 405 mm

to suit 200 kg container,  
Ø 500 - 600 mm

17 197

17 199

17 201



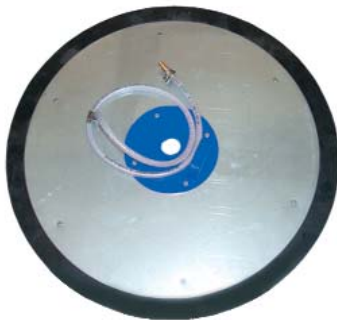
17 199



# Construction Kit For Grease Supply



17 320



17 401



18 050



18 103

Article no.

## 3c FOLLOWER PLATES

- 17 195 to suit 5 kg container,  
Ø 180 – 210 mm
- 17 230 to suit 10 kg container,  
Ø 210 – 240 mm
- 17 265 to suit 15 kg container,  
Ø 240 – 270 mm
- 17 275 to suit 18 kg container,  
Ø 240 – 290 mm
- 17 285 to suit 20 kg container,  
Ø 270 – 290 mm
- 17 300 to suit 20 kg container,  
Ø 270 – 310 mm
- 17 320 to suit 25 kg container,  
Ø 310 – 335 mm
- 17 325 to suit conical 25 kg container,  
Ø 300 – 350 mm,
- 17 350 to suit 30 kg container,  
Ø 335 – 360 mm
- 17 380 to suit 50 kg container,  
Ø 335 – 385 mm
- 17 400 to suit 60 kg container,  
Ø 385 – 405 mm

### Technical data

material: metal  
inside diameter: 35,5 mm

### Specification

- wrap-around rubber sealing lip

- 17 401 to suit 200 kg container,  
Ø 540 – 590 mm

### Technical data

material: metal  
inside diameter: 35,5 mm

### Specification

- wrap-around rubber sealing lip
- In case of an empty grease container follower plate can be released by compressed air discharge.

### compressed-air

adapter: commercial  
tyre-filling valve

## 4 SUPPLY HOSE / LEVER BALL VALVES

### SUPPLY HOSE

- 18 050 Flexible grease hose  
1,5 m, G 1/4" female, G 1/4" female

### Technical data

connection 1 : G 1/4" female with 60°  
sealing cone, straight  
connection 2 : G 1/4" female with 60°  
sealing cone, 90° angled

### Specification

- to connect pneumatic grease pump  
with pipework

### hose diameter

inside: 6 mm  
operating  
pressure: 400 bar

### SAFETY VALVE

- 18 103 Safety valve

### Technical data

operating pressure: 400 bar  
inside diameter: 20 mm

### Specification

- for installation into stationary pipe-  
work, directly to be installed on the  
pneumatic grease pump
- female self-tapping connecting threads

### LEVER BALL VALVES

**Technical data**

operating pressure: 400 bar  
 connections: G 1/4"  
 NW: 6 mm  
 material: steel  
 medium: grease

**Lever ball valve,**

G 1/4" female, G 1/4" female

Article no.

18 095



18 095

**Technical data**

operating pressure: 400 bar  
 inside diameter: 13 mm  
 connection 1: self-tapping ring  
 for pipe, 20 x 3  
 connection 2: G 1/4" male  
 materials:  
 ball seal: polyamide  
 shaft sealing: NBR (buna N)  
 casing: steel  
 medium: grease

**Lever ball valve with a connecting set**

18 099



18 099

## 5 FLEXIBLE GREASE HOSES

**Technical data**

connection 1 : G 1/4" female  
 with 60° sealing cone  
 connection 2: G 1/4" male  
 with 60° sealing cone  
 inside diameter of hose: 6 mm  
 operating pressure: 400 bar

**Flexible grease hose**

1 m, G 1/4" female, G 1/4" male  
 2 m, G 1/4" female, G 1/4" male  
 3 m, G 1/4" female, G 1/4" male  
 4 m, G 1/4" female, G 1/4" male  
 5 m, G 1/4" female, G 1/4" male  
 6 m, G 1/4" female, G 1/4" male  
 8 m, G 1/4" female, G 1/4" male  
 10 m, G 1/4" female, G 1/4" male  
 15 m, G 1/4" female, G 1/4" male

18 021  
 18 022  
 18 023  
 18 024  
 18 025  
 18 026  
 18 028  
 18 030  
 18 035



18 022

**Technical data**

dimension LWH: 348 x 144 x 257  
 weight: 1,3 kg  
 material: aluminium die casting

**Hose storage rack**

large size

19 669



19 669

**Specification**

- for wall-mounting



# Construction Kit For Grease Supply

## 6 HOSE REELS

### Product features

- Complete with 1 m connecting hose G 1/4" female.
- Outstanding robustness and compact design.
- All steel parts are washed, phosphatised, coated and lacquered (Guide arm: RAL 7040 window grey satin, Drum: Pantone 294c blue satin, Cover: RAL 7040 window grey satin, Wall-mounting bracket: Pantone 294c blue satin).
- High-quality surface-treatment of all steel parts ensures high corrosion resistance.
- The axis diameter of die casting parts is 40 mm. If loads to be absorbed are predefined, dimensions selected by our engineers ensure almost unlimited lifecycle.
- Selected pairs of axis and bearing materials are maintenance-free.
- Suitable for wall, floor and mounting on ceilings.
- Easy assembly: It is not necessary to hold the weight of the hose reel while mounting.
- Ball bearings on any hinge joints.
- High pressures in the supply system do not influence the power needed for joint rotation.
- With hose stop.
- By 90° turning the hose can be engaged.

### Abbreviations

- D** Ceiling mounting  
**GDA** Encased, swivel joint situated outside  
**GDI** Encased, swivel joint situated inside  
**O** Open  
**WB** Wall- and ceiling mounting

Article no.

### HOSE REELS, FOR GREASE

#### OPEN, FOR WALL-/FLOOR-MOUNTING

##### Hose reel, for grease

- 29 242** O, WB, 400 bar, DN 6, **10 m**, (16,8 kg)  
**29 243** O, WB, 400 bar, DN 6, **15 m**, (18,8 kg)

##### Technical data

dimension LWH:	472 x 152 x 498
connecting threads of discharge hose:	G 1/4" male
length of connecting hose:	1000 mm
connecting threads of connecting hose:	G 1/4" female
inside diameter of hose:	6 mm
operating pressure:	400 bar

#### OPEN, FOR MOUNTING ON CEILINGS

##### Hose reel, for grease

- 29 252** O, D, 400 bar, DN 6, **10 m**, (20,4 kg)  
**29 253** O, D, 400 bar, DN 6, **15 m**, (22,4 kg)

##### Technical data

dimension LWH:	472 x 158 x 520
connecting threads of discharge hose:	G 1/4" male
length of connecting hose:	1000 mm
connecting threads of connecting hose:	G 1/4" female
inside diameter of hose:	6 mm
operating pressure:	400 bar



29 242



29 252



**ENCASED, FOR WALL-/FLOOR-MOUNTING, OUTSIDE SWIVEL**

<b>Technical data</b>		<b>Hose reel, for grease</b>	
dimension LWH:	495 x 158 x 508		
connecting threads of discharge hose:	G 1/4" male	GDA, WB, 400 bar, DN 6, <b>10 m</b> ,	<b>29 272</b>
length of connecting hose:	1000 mm	(23,4 kg)	
connecting threads of connecting hose:	G 1/4" female	GDA, WB, 400 bar, DN 6, <b>15 m</b> ,	<b>29 273</b>
inside diameter of hose:	6 mm	(25,4 kg)	
operating pressure:	400 bar		



**ENCASED, FOR WALL-/FLOOR-MOUNTING, INSIDE SWIVEL**

<b>Technical data</b>		<b>Hose reel, for grease</b>	
dimension LWH:	495 x 170 x 508		
connecting threads of discharge hose:	G 1/4" male	GDI, WB, 400 bar, DN 6, <b>10 m</b> ,	<b>29 262</b>
length of connecting hose:	1000 mm	(23,8 kg)	
connecting threads of connecting hose:	G 1/4" female	GDI, WB, 400 bar, DN 6, <b>15 m</b> ,	<b>29 263</b>
inside diameter of hose:	6 mm	(25,8 kg)	
operating pressure:	400 bar		



**ENCASED, FOR MOUNTING ON CEILINGS, OUTSIDE SWIVEL**

<b>Technical data</b>		<b>Hose reel, for grease</b>	
dimension LWH:	495 x 158 x 520		
connecting threads of discharge hose:	G 1/4" male	GDA, D, 400 bar, DN 6, <b>10 m</b> ,	<b>29 292</b>
length of connecting hose:	1000 mm	(23,6 kg)	
connecting threads of connecting hose:	G 1/4" female	GDA, D, 400 bar, DN 6, <b>15 m</b> ,	<b>29 293</b>
inside diameter of hose:	6 mm	(25,6 kg)	
operating pressure:	400 bar		



**ENCASED, FOR MOUNTING ON CEILINGS, INSIDE SWIVEL**

<b>Technical data</b>		<b>Hose reel, for grease</b>	
dimension LWH:	495 x 170 x 520		
connecting threads of discharge hose:	G 1/4" male	GDI, D, 400 bar, DN 6, <b>10 m</b> ,	<b>29 282</b>
length of connecting hose:	1000 mm	(23,2 kg)	
connecting threads of connecting hose:	G 1/4" female	GDI, D, 400 bar, DN 6, <b>15 m</b> ,	<b>29 283</b>
inside diameter of hose:	6 mm	(25,2 kg)	
operating pressure:	400 bar		



Article no.



# Construction Kit For Grease Supply



29 930



29 976



29 980



29 940

Article no.

## ACCESSORIES TO SUIT HOSE REELS

29 930

**Wall-mounting**  
90° swivel bracket

**Technical data**

dimension LWH: 170 x 105 x 220  
swivel range: 2 x 45°  
material: steel  
weight: 1,8 kg  
lacquering: Pantone 294c, blue satin

**Specification**

- wall-mounted swivel bracket to suit all types of hose reels

29 976

**Hose stop 1/4"**

**Technical data**

material: Polyamide  
colour of stop: RAL 8001, brown

**Specification**

- for hoses of 13.5 mm outside diameter
- suitable for grease hoses

29 980

**Control gun and meter storage bracket, for one gun only**  
(170 x 170 x 650 mm), 2,3 kg

**Technical data**

material: steel  
lacquering: RAL 7040, window grey satin

29 981

**Control gun and meter storage bracket, for two guns**  
(340 x 170 x 650 mm), 4,1 kg

**Specification**

- oil drip tray with a drain screw and removable strainer
- for wall-mounting

29 940

**Angle bracket for installation**

**Technical data**

material: steel  
lacquering: RAL 7040, window grey satin

**Specification**

- suits for lateral installation of a hose reel (e.g. in garage service pits)

## 7 ROTARY SWIVEL CONNECTORS

18 082

**Rotary Z-swivel connector, 3 x 360°,**  
G 1/8" male, G 1/4" female

**Technical data**

material: steel  
material: yellow galvanized steel  
operating pressure: 400 bar

18 083

**Rotary swivel connector, 2 x 360°,**  
G 1/8" male, G 1/4" female

**Specification**

- joints with ball bearings can be moved easily at high pressures
- O-ring sealing
- to suit high-pressure grease guns (18 104 / 18 105)

18 081

**Rotary swivel connector, 1 x 360°,**  
G 1/8" male, G 1/4" female

18 080

**Rotary swivel connector, 1 x 360°,**  
G 1/8" male, G 1/8" female

18 084

**Rotary swivel connector, 1 x 360°,**  
G 1/4" male, G 1/4" female



18 082



18 083



18 081



**8 HIGH PRESSURE GREASE CONTROL GUNS**

**Technical data**

max. operating pressure: 550 bar  
 operating temperature: +60 °C  
 connection 1: G 1/8" female  
 connection 2: hydraulic coupler to suit hydraulic grease nipples DIN 71412  
 area of application: NLGI greases of class 2

**Specification**

- angled spout
- 4 claws hydraulic coupler, G 1/8" female (12 743) precision design, machined
- ergonomic contoured safety handgrip

**Grease gun,**

G 1/8" female, hydraulic coupler H, integral 100 bar pressure boosting mechanism

Article no.

**18 104**



18 104

**Technical data**

max. operating pressure: 550 bar  
 operating temperature: +60 °C  
 connection 1: G 1/8" female  
 connection 2: Rectus female quick release adapter, type 72  
 area of application: NLGI greases of class 2

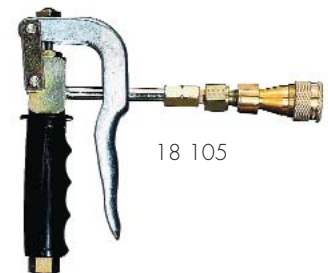
**Specification**

- to recharge central lubrication systems
- straight spout
- Rectus female quick release adapter, type 72 (01 297)
- ergonomic contoured safety handgrip

**Grease gun,**

G 1/8" female, type 72 adapter, integral 100 bar pressure boosting mechanism

**18 105**



18 105

**Technical data**

max. operating pressure: 550 bar  
 operating temperature: +60 °C  
 connection 1: G 1/8" female  
 connection 2: hydraulic coupler to suit hydraulic grease nipples DIN 71412  
 area of application: NLGI greases of class 2  
 measuring tolerance: + /- 1%  
 unit of measurement: gramm

**Specification**

- 4 claws hydraulic coupler, G 1/8" female (12 743) precision design, machined

**Grease gun,**

G 1/8" female, hydraulic coupler H, digital meter

**18 108**



18 108

- high pressure hose, 11 x 300 mm item No. 12 755
- ergonomic contoured safety handgrip
- meter, four digits, can be reset
- totalisator with four digits, cannot be reset



# Construction Kit For Grease Supply



18 108 155

Article no.

## HIGH PRESSURE GREASE CONTROL GUNS

18 108 155

**Grease gun,**  
G 1/8" female - G 1/8" female,  
digital meter

### Technical data

max. operating pressure: 550 bar  
operating temperature: +60 °C  
connections: G 1/8" female  
area of application: NLGI greases  
of class 2  
measuring tolerance: + /- 1%  
unit of measurement: gramm

### Specification

- ergonomic contoured safety handgrip
- meter, four digits, can be reset
- totalisator with four digits, cannot be reset

## 9 QUICK RELEASE ADAPTERS



12 042



12 043



12 044

12 042

**Quick release adapter with universal coupler** to suit ball type grease nipples DIN 3402

### Technical data

connection: quick-release adapter  
M 10 x 1 female

12 043

**Quick release adapter with pointed coupler** to suit funnel type grease nipples DIN 3405

### Specification

- to suit high-pressure grease guns (18 104 / 18 108)
- quick release adapter with a sleeve nut (12 006) to suit a four claws hydraulic coupler (12 643)
- straight spout, 150 mm

12 044

**Quick release adapter with 16 mm hock-on coupler**  
to suit 16 mm/0,63" button head nipples DIN 3404

12 054

**Quick release adapter with 22 mm hock-on coupler**  
to suit 22 mm/0,86" button head nipples DIN 3404



12 048



12 056

12 048

**Quick release adapter with flexible hose 11 x 300 mm**  
M 10 x 1 male

### Technical data

connection 1: quick-release adapter  
M 10 x 1 female  
connection 2: four claws hydraulic coupler

12 049

**Quick release adapter with flexible hose 11 x 500 mm**  
M 10 x 1 male

### Specification

- to suit high-pressure grease guns (18 104 / 18 108)
- quick release adapter with a sleeve nut (12 006) to suit a four claws hydraulic coupler (12 643)
- four claws hydraulic coupler, M 10 x 1 female (12 643), precision design, machined

12 056

**Quick release adapter with angled spout 150 mm**  
M 10 x 1 male

**Technical data**

connection 1: quick-release adapter  
M 10 x 1 female  
connection 2: 22 mm/0,86" slide-on  
coupler, DIN 3404

**Specification**

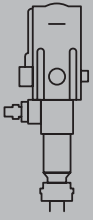
- to suit high-pressure grease guns  
(18 104 / 18 108)
- quick release adapter with a sleeve nut  
(12 006) to suit a four claws hydraulic coupler  
(12 643)
- angled spout, 150 mm
- 22 mm hock-on coupler to suit 22 mm/0,86"  
button head grease nipples

**Quick release adapter with  
22 mm hock-on coupler**  
to suit 22 mm/0,86" button  
head nipples DIN 3404

Article no.

**12 057**

12 057



## ***Fresh Oil Supply Systems***



***Mobile Or Stationary Fresh Oil Supply ?  
We Offer The Solution !***

**OIL SUPPLY SYSTEMS, STATIONARY**

**Technical data**

suction pipe length: 570 mm  
 airline connection: to suit Rectus coupling,  
 type 26  
 NW: 7,2 mm  
 connection: G 2" male retention  
 adapter

**Specification**

- 3:1 pneumatic oil pump
- suction pipe, G 3/4" male
- 4 m oil discharge hose, G 1/2" female/male

It is recommended to operate the pneumatic pump with an air maintenance unit (20 218 950)

**Oil system, stationary,**  
 SRL 570,  
 to suit 60 l container

**with standard oil control gun**  
 (19 718)

**with digital flow meter**  
 (19 707 950)

**with digital flow meter**  
 (19 707)

Article no.

**19 211**

**19 212**

**19 212 551**



19 211

**Technical data**

suction pipe length: 860 mm  
 airline connection: to suit Rectus coupling,  
 type 26  
 NW: 7,2 mm  
 connection: G 2" male retention  
 adapter

**Specification**

- 3:1 pneumatic oil pump
- suction pipe, G 3/4" male
- 4 m oil discharge hose, G 1/2" female/male

It is recommended to operate the pneumatic pump with an air maintenance unit (20 218 950)

**Oil system, stationary,**  
 SRL 860 mm,  
 to suit 200/220 l container

**with standard oil control gun**  
 (19 718)

**with digital flow meter**  
 (19 707 950)

**with digital flow meter**  
 (19 707)

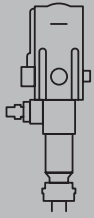
**19 241**

**19 242**

**19 242 551**



19 242 551



# Fresh Oil Supply Systems



19 000 330

Article no.

## OIL SUPPLY SYSTEMS, FOR WALL-MOUNTING

**Oil system, for wall-mounting**  
SRL 860/1600

19 000 330

**with digital flow meter**  
(19 707 950), rotary swivel  
connector, anti-drip nozzle

19 000 955

**with digital flow meter**  
(19 707), rotary swivel  
connector, anti-drip nozzle

### Technical data

airline connection: to suit Rectus coupling,  
type 26

NW: 7,2 mm

connection: G 2" male retention adapter

suction pipe length: 860 mm and 1600 mm

### Specification

- 3:1 pneumatic oil pump
- wall-mounting bracket
- suction pipe, to suit 200/220 l container and tanks
- connection hose, 2 m, pneumatic pump / suction pipe
- connection hose, 1 m, pneumatic pump / hose reel
- hose reel 10 m, open, wall- and floor-mounting (29 142)

It is recommended to operate the pneumatic pump with an air maintenance unit (20 218 950).

**Technical data**

airline connection: to suit Rectus coupling,  
type 26  
NW: 7,2 mm  
connection: G 2" male retention  
adapter  
suction pipe length: 860 mm and 1600 mm

**Specification**

- 3:1 pneumatic oil pump
- wall mounting bracket
- suction pipe, to suit 200/220 l container and tanks
- connection hose, 2 m, pneumatic pump / suction pipe
- connection hose, 1 m, pneumatic pump/ hose reel
- hose reel, 10 m, encased, outside swivel, wall- and floor-mounting (29 172)

It is recommended to operate the pneumatic pump with an air maintenance unit (20 218 951).

**Oil system, for wall-mounting**  
SRL 860/1600

**with digital flow meter**  
(19 707 950), rotary swivel connector, anti-drip nozzle

**with digital flow meter**  
(19 707), rotary swivel connector, anti-drip nozzle

Article no.

19 000 332

19 000 957



19 000 332

**Technical data**

airline connection: to suit Rectus coupling,  
type 26  
NW: 7,2 mm  
connection: G 2" male retention  
adapter  
suction pipe length: 860 mm and 1600 mm

**Specification**

- design acc. to German calibration law
- 3:1 pneumatic oil pump
- wall-mounting bracket
- suction pipe, to suit 200/220 l container and tanks
- connection hose, 2 m, pneumatic pump / suction pipe
- connection hose, 1 m, pneumatic pump/ hose reel
- digital flow meter (19 709), rotary swivel connector, anti-drip nozzle

It is recommended to operate the pneumatic pump with an air maintenance unit (20 218 950).

**Oil system, for wall-mounting**  
design acc. to  
German calibration law  
SRL 860/1600

**with an air eliminator**  
(19 285 030) and hose reel  
10 m, open, for wall-  
and floor-mounting (29 142)  
Design acc. to Austrian  
calibration law (19 012 135)

**with an air eliminator**  
(19 285 030) and hose reel,  
10 m, encased, outside swivel,  
for wall- and floor-mounting  
(29 172)  
Design acc. to Austrian  
calibration law (19 012 135)

19 000 331

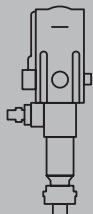
19 000 333



19 000 331

19 000 959

**with an air eliminating foot valve,**  
hose reel, 10 m open, for wall-  
and floor-mounting (29 142)



# Fresh Oil Supply Systems



23 322 950

Article no.

## OIL SUPPLY SYSTEMS, FOR WALL-MOUNTING

Article no.	Oil system, for wall-mounting	Technical data
	SRL 860/1600	suction pipe length: 860 mm and 1600 mm connection: G 2" male retention adapter
23 322 950	with electric oil pump (23 322) and digital flow meter (19 707 950), not calibratable	pump design: gear wheel pump, selfpriming delivery rate in case of free outlet: 10 l
23 322 955	with electric oil pump with an air eliminator (23 322 030) and digital flow meter (19 709), calibratable	max. operating pressure: 16 bar voltage: 400 V power: 0,5 KW power connection: Cekon-plug with a phase inverter

### Specification

- wall-mounting bracket
- on/off- switch, diaphragm switch, 1,8 m cable
- suction pipe, to suit 200/220 l container and tanks
- connection hose, 2 m electric pump / suction pipe
- connection hose, 1 m, electric pump / hose reel
- hose reel, 10 m, open (29 142)
- digital flow meter, rotary swivel connector, anti-drip nozzle

## ACCESSORIES



19 580 001

Article no.	Flexible connecting oil hose	Technical data
19 580 001	0,5 m, G 1/2" female, G 1/2" female	length: 0,5 m connection 1: G 1/2" female with 60° sealing cone, quadrant pipe connection 2: G 1/2" female with 60° sealing cone hose inside diameter: 12 mm operating pressure: 100 bar
		<b>Specification</b>
		<ul style="list-style-type: none"> <li>• to connect pneumatic oil pumps with pipework</li> <li>• swivel nuts on both hose ends</li> </ul>



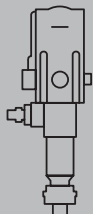
		Article no.
<p><b>Specification</b></p> <ul style="list-style-type: none"> <li>• to connect oil pumps with pipework in non-visible areas</li> <li>• acc. to German govt. specifications (TRBF 231 T1)</li> <li>• retention adapter, G 1" female, G 3/4" male (19 627)</li> <li>• lever ball valve, G 3/4" female, G 3/4" female (19 763)</li> <li>• connecting nipple, G 3/4" male, G 3/4" male (19 637)</li> <li>• flexible metal pipework connection, G 3/4" female, 0.5 m (19 666)</li> <li>• adapter, G 3/4" male, with 60° sealing cone, G 1/2" female (87 965)</li> </ul>	<p><b>Pipe work connecting set</b> <b>G 1" male</b></p>	<p><b>19 640</b></p>
<p><b>Specification</b></p> <ul style="list-style-type: none"> <li>• to connect oil pumps with pipework in non-visible areas</li> <li>• acc. to German govt. specifications (TRBF 231 T1)</li> <li>• retention adapter, G 1 1/4" female, G 3/4" male (19 629)</li> <li>• lever ball valve, G 3/4" female, G 3/4" female (19 763)</li> <li>• connecting nipple, G 3/4" male, G 3/4" male (19 637)</li> <li>• flexible metal pipework connection, G 3/4" female, 0.5 m (19 666)</li> <li>• adapter, G 3/4" male, with 60° sealing cone, G 1/2" female (87 965)</li> </ul>	<p><b>Pipe work connecting set</b> <b>G 1 1/4" male</b></p>	<p><b>19 641</b></p>
<p><b>Specification</b></p> <ul style="list-style-type: none"> <li>• to connect pipework with a hose reel or a flexible oil discharge hose</li> <li>• retention adapter, G 1" female, G 3/4" male (19 627)</li> <li>• lever ball valve, G 3/4" female, G 3/4" male (19 778)</li> <li>• inline oil filter G 3/4" female, G 3/4" female (19 761)</li> <li>• connecting nipple, G 1/2" male, G 3/4" male (19 636)</li> </ul>	<p><b>Pipe work connecting set</b> <b>G 1" male</b></p>	<p><b>19 642</b></p>
<p><b>Specification</b></p> <ul style="list-style-type: none"> <li>• to connect pipework with a hose reel or a flexible oil discharge hose</li> <li>• retention adapter, G 1 1/4" female, G 3/4" male (19 629)</li> <li>• lever ball valve, G 3/4" female, G 3/4" male (19 778)</li> <li>• inline oil filter G 3/4" female, G 3/4" female (19 761)</li> <li>• connecting nipple, G 1/2" male, G 3/4" male (19 636)</li> </ul>	<p><b>Pipe work connecting set</b> <b>G 1 1/4" male</b></p>	<p><b>19 643</b></p>



19 640



19 642



# Fresh Oil Supply Systems

Article no.

## OIL SUPPLY SYSTEMS, MOBILE



19 213

19 213

**Oil system, mobile**  
SRL 570 mm,  
to suit 60 l container

**with oil control valve**  
(19 718)

19 214

**with digital hose end meter**  
(19 707 950)

19 214 551

**with digital hose end meter**  
(19 707)

It is recommended to operate the pneumatic pump with an air maintenance unit (20 218 950).

### Technical data

dimension LWH: 500 x 500 x 1000  
suction pipe length: 570 mm  
airline connection: to suit Rectus coupling,  
type 26  
NW: 7,2 mm  
connection: G 2" male retention adapter  
trolley load: 60 kg

### Specification

- 3:1 pneumatic oil pump
- suction pipe, G 3/4" male
- 4 m oil discharge hose, G 1/2" female/male
- robust high quality trolley, easy to handle and quiet running (17 008)



19 244 551

19 243

**Oil system, mobile**  
SRL 860 mm,  
to suit 200/220 l container

**with oil control valve**  
(19 718)

19 244

**with digital hose end meter**  
(19 707 950)

19 244 551

**with digital hose end meter**  
(19 707)

It is recommended to operate the pneumatic pump with an air maintenance unit (20 218 950).

### Technical data

dimension, LWH: 1000 x 730 x 1370  
suction pipe length: 870 mm  
airline connection: to suit Rectus coupling,  
type 26  
NW: 7,2 mm  
connection: G 2" male retention adapter  
trolley load: 200 kg

### Specification

- 3:1 pneumatic oil pump
- suction pipe, G 3/4" male
- 4 m oil discharge hose, G 1/2" female/male
- robust high quality trolley, easy to handle and quiet running (17 009)



19 246

19 246

**Oil systems, mobile**  
SRL 860,  
to suit 200/220 l container

**with oil control valve**  
(19 718)

19 248

**with digital hose end meter**  
(19 707 950)

19 248 551

**with digital hose end meter**  
(19 707)

It is recommended to operate the pneumatic pump with an air maintenance unit (20 218 950).

### Technical data

dimension LWH: 1000 x 730 x 1370  
suction pipe length: 860 mm  
airline connection: to suit Rectus coupling,  
type 26  
NW: 7,2 mm  
connection: G 2" male retention adapter  
trolley load: 200 kg

### Specification

- 3:1 pneumatic oil pump
- suction pipe, G 3/4" male
- hose reel, 10 m, encased, outside swivel, wall- and floor-mounting (29 172)
- robust high quality trolley, easy to handle and quiet running (17 009)

**Technical data**

dimension LWH: 1000 x 730 x 1370  
 suction pipe length: 860 mm  
 airline connection: to suit Rectus coupling,  
 type 26  
 NW: 7,2 mm  
 connection: G 2" male retention adapter  
 trolley load: 200 kg

**Specification**

- 3:1 pneumatic oil pump
- suction pipe, G 3/4" male
- hose reel 10 m, open, wall- and floor-mounting (29 142)
- robust high quality trolley, easy to handle and quiet running (17 009)

**Oil system, mobile**

SRL 860,  
 to suit 200/220 l container

**with digital hose end meter**  
 (19 707 950)

**with digital hose end meter**  
 (19 707)

It is recommended to operate the pneumatic pump with an air maintenance unit (20 218 950).

Article no.

**19 257**

**19 257 551**



19 257

**Technical data**

dimension LWH: 1000 x 730 x 1370  
 suction pipe length: 860 mm  
 airline connection: to suit Rectus coupling,  
 type 26  
 NW: 7,2 mm  
 connection: G 2" male retention adapter  
 trolley load: 200 kg

**Specification**

- 3:1 pneumatic oil pump
- air maintenance unit (20 218 950)
- suction pipe, G 3/4" female (quadrant pipe) with foot valve
- suction hose, 2 m, G 3/4" female/male
- oil discharge hose, 5 m, G 1/2" female/male
- digital flow meter (19 707)
- robust high quality trolley, easy to handle and quiet running (17 009)

**Oil system, mobile**

SRL 860,  
 to suit 200/220 l container

**19 000 960**



19 000 960

**Technical data**

dimension LWH: 1000 x 730 x 1370  
 suction pipe length: 860 mm  
 airline connection: to suit Rectus coupling,  
 type 26  
 NW: 7,2 mm  
 connection: G 2" male retention adapter  
 trolley load: 200 kg

**Specification**

- design acc. to German calibration law
- 3:1 pneumatic oil pump
- air eliminating foot valve
- suction pipe, G 3/4" male
- hose reel 10 m, open, wall- and floor-mounting (29 142)
- digital flow meter (19 709)
- robust high quality trolley, easy to handle and quiet running (17 009)

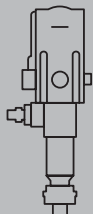
**Oil system, mobile, design acc. to German calibration law**  
 SRL 860,  
 to suit 200/220 l container

**19 000 950**



19 000 950

It is recommended to operate the pneumatic pump with an air maintenance unit (20 218 950).



# Fresh Oil Supply Systems

Article no.

## OIL SUPPLY SYSTEMS, MOBILE

19 000 961

**Oil system, mobile, design acc. to German calibration law**  
SRL 860 mm,  
to suit 200/220 l container

Design acc. to Austrian calibration law (19 000 135)

### Technical data

dimension LWH: 1000 x 730 x 1370  
suction pipe length: 860 mm  
airline connection: to suit Rectus coupling,  
type 26  
NW: 7,2 mm  
connection: G 2" male retention adapter  
trolley load: 200 kg

### Specification

- design acc. to German calibration law
- air eliminator
- 3:1 pneumatic oil pump
- air maintenance unit (20 218 950)
- suction pipe, G 3/4" female (quadrant pipe) with foot valve
- suction hose, 2 m, G 3/4" female/male
- discharge hose, 5 m, G 1/2" female/male
- digital flow meter (19 709)
- robust high quality trolley, easy to handle and quiet running (17 009)



19 000 961

23 000 960

**Oil system, mobile**  
SRL 860,  
to suit 200/220 l container

### Technical data

dimension LWH: 1000 x 730 x 1370  
suction pipe length: 860 mm  
connection: G 2" male retention adapter  
voltage: 400 V - 3 phase  
power: 0,5 KW  
power connection: Cekon-plug with a phase inverter, 2 m cable

delivery rate in  
case of free outlet: 10 l/min  
Max. operating  
pressure: 16 bar  
trolley load: 200 kg

### Specification

- electric oil pump (23 322), 2 m cable
- suction pipe, G 3/4" female (quadrant pipe) with foot valve
- suction hose, 2 m, G 3/4" female/male
- discharge hose, 5 m, G 1/2" female/male
- digital flow meter (19 707 950)
- robust high quality trolley, easy to handle and quiet running (17 009)



23 000 960

Article no.

**23 000 961**

**Technical data**

dimension LWH: 1000 x 730 x 1370  
 suction pipe length: 860 mm  
 connection: G 2" male retention adapter  
 voltage: 400 V - 3 phase  
 power: 0,5 KW  
 power connection: Cekon-plug with a phase inverter, 2 m cable

delivery rate in case of free outlet: 10 l/min  
 Max. operating pressure: 16 bar

**Oil system, mobile**

SRL 860,  
 to suit 200/220 l container, calibratable  
 Design acc. to Austrian calibration law (23 001 135)

**Specification**

- design acc. to German calibration law
- electric oil pump with an air eliminator (23 322 030), 2 m cable
- suction pipe, G 3/4" male (quadrant pipe) with foot valve
- suction hose, 2 m, G 3/4" female/male
- discharge hose, 5 m, G 1/2" female/male
- digital flow meter (19 709)
- robust high quality trolley, easy to handle and quiet running (17 009)



23 000 961

**OIL SUPPLY SYSTEM, STATIONARY**

**23 337 390**

**Technical data**

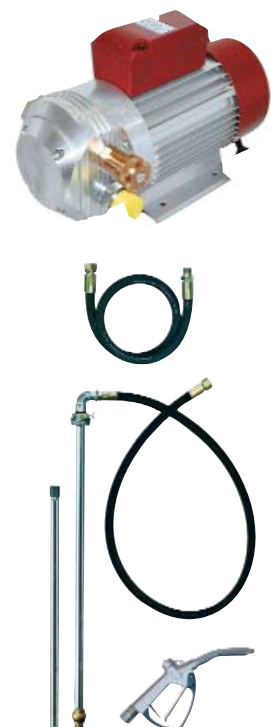
suction pipe length: 860 und 1600 mm  
 connection: G 2" male retention adapter  
 voltage: 230 V  
 power: 0,5 KW  
 power connection: euro plug  
 bypass: adjustable  
 pump capacity: 10 l/min  
 max. delivery pressure: 10 bar

**Oil system, stationary**

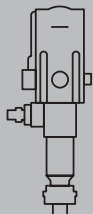
SRL 1600/860 mm,  
 to suit 200/220 l container or tanks

**Specification**

- electric oil pump (23 337)
- euro plug, 1,8 m cable
- suction pipe, G 3/4" female (quadrant pipe) with foot valve
- suction hose, 2 m, G 3/4" female/male
- discharge hose, 2 m, G 1/2" female/male
- rotary swivel connector
- oil control valve (19 718)
- anti-drip nozzle, with automatic non drip nozzle



23 337 390



# Fresh Oil Supply Systems

Article no.

## MOBILE OIL DISPENSERS

27 832

**Oil dispensing unit, mobile**  
75 l, manually operated

### Technical data

dimension, LWH: 560 x 600 x 1200  
 tank volume: 75 l  
 oil supply: manually operated pump  
 connection: G 2" male retention adapter  
 dispensing: manual valve  
 lacquering: tank, RAL 7040 window grey satin  
 liquids to be used: engine- and lubricating oils, gear oils

### Specification

- manually operated oil pump
- discharge hose, 1.5 m
- steel discharge spout with lever operated shut-off-valve
- storage bracket for discharge spout with integral oil drip tray
- visual level indicator
- 2 fixed and 2 castor wheels
- lacquering with water-based paint, oil-resistant



27 832

27 859

**Oil dispensing unit, mobile**  
75 l, pneumatically operated

### Technical data

dimension LWH: 560 x 600 x 1200  
 tank volume: 75 l  
 oil delivery: pneumatic  
 airline connection: to suit Rectus coupling, type 26  
 NW: 7,2 mm

27 859 951

**with digital flow meter**  
(19 709 950)  
  
**with air eliminating foot valve and with digital flow meter**  
(19 709)

dispensing: digital meter with control nozzle  
 lacquering: tank, RAL 7040 window grey satin  
 liquids to be used: engine- and lubricating oils, gear oils

### Specification

- 3:1 pneumatic oil pump
- discharge hose, 2 m, G 1/2" female/male
- digital flow meter
- storage bracket for discharge spout with integral oil drip tray
- visual level indicator
- 2 fixed and 2 castor wheels
- lacquering with water-based paint, oil-resistant

It is recommended to operate the pneumatic pump with an air maintenance unit (20 218 950).



27 859



**Technical data**

dimension LWH: 350 x 350 x 750  
 tank volume: 24 l  
 airline connection: to suit Rectus  
 coupling, type 26  
 NW: 7,2 mm  
 oil supply: low pressurized oil  
 discharge, max. 7 bar  
 filling: G 1 1/2", sealing cap  
 dispensing: manual oil control gun  
 lacquering: RAL 7040 window  
 grey satin  
 liquids to  
 be used: engine- and lubricating  
 oils, gear oils

**Specification**

- discharge hose, 2 m
- oil control gun with angled spout and non drip nozzle
- storage bracket for discharge spout with integral oil drip tray
- safety valve
- 2 fixed wheels
- lacquering, oil-resistant

**Oil dispensing unit, mobile**

24 l, low air pressurized

Article no.

**17 796**



17 796

**Technical data**

dimension LWH: 350 x 350 x 750  
 tank volume: 24 l  
 airline connection: to suit Rectus  
 coupling, type 26  
 NW: 7,2 mm  
 filling: G 1" female, with  
 top hopper  
 oil supply: low pressurized oil  
 discharge, max. 7 bar  
 dispensing: manual valve  
 lacquering: RAL 7040 window  
 grey satin  
 liquids to  
 be used: low viscosity oils,  
 self-lubricating liquids,  
 e.g. forming oils

**Specification**

- pressure gauge
- coiled hose
- spray lance with a microfine spray head
- oil drip tray
- 2 fixed wheels
- lacquering, oil-resistant

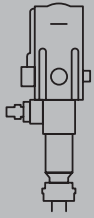
**Spray unit, mobile**

24 l, low air pressurized

**19 768**



19 768



# Fresh Oil Supply Systems



19 802

Article no.

## CONTAINER STORAGE UNITS TO SUIT 60/200 L CONTAINER

### Container storage unit

19 802

to suit two 200 l container  
(LWH: 1340 x 850 x 340), 76 kg

19 804

to suit four 200 l container  
(LWH: 2680 x 850 x 236), 122,2 kg

19 808

to suit four 200 l container  
(LWH: 1200 x 1200 x 340), 90 kg

### Technical data

material: 3.5 mm sheet steel  
lacquering: Pantone 294c, blue satin

### Specification

- galvanized platform grid
- stable and sturdy construction
- can be moved from four sides (100 mm clearance)
- to suit 200 l container
- for storage of diesel, fresh and waste oils of known origin (hazard class AIII) in container of max. 200/220 l volume, overground
- design approval, conforms to § 19 WHG (German Environmental Government Specifications), water protection regulations
- For storage in preservations of ground water, please ask your local authorities.

## OIL CONTAINER STORAGE RACK

19 815

Oil container storage rack  
to suit 3 x 60 l or 2 x 200 l container

### Technical data

dimension LWH: 1370 x 650 x 850  
material: steel  
lacquering: Pantone 294c, blue satin

### Specification

- for self-assembly
- stand-alone
- recommended to be used in conjunction with oil container storage units only (19 808 / 19 802)
- Two oil container storage units can be stacked together to create systems with two storage levels (700 mm and 1500 mm above ground level).



19 815



**BARREL LIFT****Technical data**

dimension LWH: 850 x 800 x 1400  
lift: 450 mm  
material: steel  
weight: 65 kg  
lacquering: Pantone 294c,  
blue satin

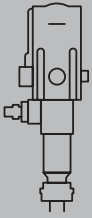
**Barrel lift****Specification**

- to transport max. 200 / 220 l container
- hydraulic lifting mechanism
- steerable 4 wheels-trolley
- The lift of container can easily be effected by means of special clamps and holders.

Article no.

**19 816**

19 816



# Fresh Oil Supply Systems

## OIL SUPPLY TANK STATIONS

- Lacquering RAL 7040 window grey satin.
- Storage tank and protection tank: Welded steel.
- With 5 fixed connecting adapters, G 2" female, to fit any accessories for refilling, dispensing, ventilation and over-flow and leakage protection.
- With mechanical float-level indicator.
- With visual leakage indicator.
- With sturdy integral steel pallet, welded. Can be lifted and moved from four sides even under load.
- Dimensions 750 l tank (L x W x H: 1200 x 800 x 1230 mm)
- Dimensions 1000 l tank (L x W x H: 1200 x 800 x 1570 mm)
- Designed for indoor storage of oils hazard class III.
- According to German Government Specifications.
- With European certificate.
- German TÜV approval.
- Connections G 1/2" female.
- Variations of storage tanks on request.



19 003 351

### OIL SUPPLY STATIONS, 1000 L

**Oil supply station, 1000 l,**  
3:1 pneumatic pump

#### Technical data

tank volume: 1000 l  
airline connection: to suit Rectus coupling, type 26  
NW: 7,2 mm  
oil supply: 3:1 pneumatic pump  
filling: G 2" tank filling coupler  
dispensing: digital flow meter  
application: for storage of fresh oils (hazard class A III) overground  
connections: G 1/2"

**19 003 350**

**with discharge hose, 8 m,**  
hose storage rack  
(LWH: 1370 x 800 x 1950),  
342 kg

#### Specification

- 3:1 pneumatic oil pump (19 266)
- tank, 1000 l, with a filling level indicator and a visual leakage indicator (45 010)
- air maintenance unit (20 218 950)
- suction tube set
- digital flow meter
- storage bracket for oil meter with integral oil drip tray

**19 003 351**

**with hose reel, 10 m,**  
open, wall- and floor-  
mounting (29 142)  
(LWH: 1370 x 800 x 2070),  
356 kg

**OIL SUPPLY STATIONS, 1000 L**

**Technical data**

tank volume: 1000 l  
 oil supply: electric oil pump  
 voltage: 400 V - 3 phase  
 power consumption: 5 A  
 power: 0,55 KW  
 adapter: Cekon-plug with phase inverter, 2 m cable  
 filling: G 2" tank filling coupler  
 dispensing: digital flow meter  
 application: for storage of fresh oils (hazard class A III) overground  
 connections: G 1/2"

**Specification**

- electric oil pump (23 319)
- tank, 1000 l, with a filling level indicator and a visual leakage indicator (45 010)
- suction tube set
- digital flow meter
- storage bracket for oil meter with integral oil drip tray

**Oil supply station, 1000 l**  
 oil pump, 400 V

**with discharge hose, 8 m,**  
 hose storage rack  
 (LWH: 1370 x 800 x 1950),  
 345 kg

**with hose reel, 10 m,**  
 open, wall- and floor-mounting (29 142)  
 (LWH: 1370 x 800 x 2070),  
 359 kg

Article no.

**23 003 350**

**23 003 351**



23 003 351

**OIL SUPPLY STATIONS, 1000 L,  
 DESIGN ACC. TO GERMAN CALIBRATION LAW**

**Technical data**

dimension LWH: 1000 l  
 airline connection: to suit Rectus coupling, type 26  
 NW: 7,2 mm  
 oil supply: 3:1 pneumatic pump  
 filling: G 2" tank filling coupler  
 dispensing: digital flow meter  
 application: for storage of fresh oils (hazard class A III) overground  
 connections: G 1/2"

**Specification**

- design acc. to German calibration law
- 3:1 pneumatic oil pump with an air eliminating foot valve
- tank, 1000 l, with a filling level indicator and a visual leakage indicator (45 010)
- air maintenance unit (20 218 950)
- suction tube set
- digital flow meter (19 709)
- storage bracket for oil meter with integral oil drip tray

**Oil supply station, 1000 l,**  
 design acc. to German  
 calibration law  
 3:1 pneumatic pump

**with discharge hose, 8 m,**  
 hose storage rack  
 (LWH: 1370 x 800 x 1950),  
 343 kg

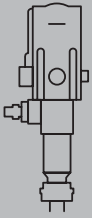
**with hose reel, 10 m,**  
 open, wall- and floor-mounting (29 142)  
 (LWH: 1370 x 800 x 2070),  
 357 kg

**19 003 355**

**19 003 356**



19 003 355



# Fresh Oil Supply Systems



23 003 356



19 003 251

Article no.

## OIL SUPPLY STATIONS, 1000 L, DESIGN ACC. TO GERMAN CALIBRATION LAW

	<b>Oil supply station, 1000 l,</b> design acc. to German calibration law oil pump, 400 V	<b>Technical data</b> tank volume: 1000 l oil supply: electric oil pump voltage: 400 V - 3 phase power consumption: 5 A power: 0,55 KW adapter: Cekon-plug with phase inverter, 2 m cable filling: G 2" tank filling coupler dispensing: digital flow meter application: for storage of fresh oil (hazard class A III) overground connections: G 1/2"
<b>23 003 355</b>	<b>with discharge hose, 8 m,</b> hose storage rack (LWH: 1370 x 800 x 1950), 346 kg	
<b>23 003 356</b>	<b>with hose reel, 10 m,</b> open, wall- and floor- mounting (29 142) (LWH: 1370 x 800 x 2070), 360 kg	

### Specification

- design acc. to German calibration law
- electric oil pump, with an air eliminating foot valve (23 319 951)
- tank, 1000 l, with a filling level indicator and a visual leakage indicator (45 010)
- suction tube set
- digital flow meter (19 709)
- storage bracket for oil meter with integral oil drip tray

## OIL SUPPLY STATION, 750 L

	<b>Oil supply station, 750 l,</b> 3:1 pneumatic pump	<b>Technical data</b> tank volume: 750 l airline connection: to suit Rectus coupling, type 26 NW: 7,2 mm oil supply: 3:1 pneumatic pump filling: G 2" tank filling coupler dispensing: digital flow meter application: for storage of fresh oils (hazard class A III) overground connections: G 1/2"
<b>19 003 250</b>	<b>with discharge hose, 8 m,</b> hose storage rack (LWH: 1370 x 800 x 1660), 301 kg	
<b>19 003 251</b>	<b>with hose reel, 10 m,</b> open, wall- and floor- mounting (29 142) (LWH: 1370 x 800 x 1730), 314 kg	

### Specification

- 3:1 pneumatic oil pump (19 265)
- air maintenance unit (20 218 950)
- tank, 750 l, with a filling level indicator and a visual leakage indicator (45 014)
- suction tube set
- digital flow meter
- storage bracket for oil meter with integral oil drip tray

**Technical data**

tank volume: 750 l  
 oil supply: electric oil pump  
 voltage: 400 V - 3 phase  
 power consumption: 5 A  
 power: 0,55 KW  
 adapter: Cekon-plug with phase inverter, 2 m cable  
 filling: G 2" tank filling coupler  
 dispensing: digital flow meter  
 application: for storage of fresh oils (hazard class A III) overground  
 connections: G 1/2"

**Specification**

- electric oil pump (23 319)
- tank, 750 l, with a filling level indicator and a visual leakage indicator (45 014)
- suction tube set
- digital flow meter
- storage bracket for oil meter with integral oil drip tray

**Oil supply station, 750 l,**  
oil pump, 400 V

**with discharge hose, 8 m,**  
hose storage rack  
(LWH: 1370 x 800 x 1660),  
296 kg

**with hose reel, 10 m,**  
open, wall- and floor-mounting  
(29 142)  
(LWH: 1370 x 800 x 1730),  
310 kg

Article no.

**23 003 250**

**23 003 251**



23 003 251

**OIL SUPPLY STATIONS, 750 L,  
DESIGN ACC. TO GERMAN CALIBRATION LAW**

**Technical data**

tank volume: 750 l  
 airline connection: to suit Rectus coupling, type 26  
 NW: 7,2 mm  
 oil supply: 3:1 pneumatic pump  
 filling: G 2" tank filling coupler  
 dispensing: digital flow meter  
 application: for storage of fresh oils (hazard class A III) overground  
 connections: G 1/2"

**Specification**

- design acc. to German calibration law
- 3:1 pneumatic oil pump with an air eliminating foot valve (19 265 951)
- air maintenance unit (20 218 950)
- tank, 750 l, with a filling level indicator and a visual leakage indicator (45 014)
- suction tube set
- digital flow meter
- storage bracket for oil meter with integral oil drip tray

**Oil supply station, 750 l,**  
design acc. to German  
calibration law  
3:1 pneumatic pump

**with discharge hose, 8 m,**  
hose storage rack  
(LWH: 1370 x 800 x 1660),  
302 kg

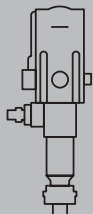
**with hose reel, 10 m,**  
open, wall- and floor-mounting,  
(29 142)  
(LWH: 1370 x 800 x 1730),  
315 kg

**19 003 255**

**19 003 256**



19 003 255



# Fresh Oil Supply Systems



23 003 256

Article no.

## OIL SUPPLY STATIONS, 750 L, DESIGN ACC. TO GERMAN CALIBRATION LAW

**23 003 255** Oil supply station, 750 l,  
design acc. to German  
calibration law oil pump, 400 V

**23 003 255** with discharge hose, 8 m,  
hose storage rack  
(LWH: 1370 x 800 x 1660),  
297 kg

**23 003 256** with hose reel, 10 m,  
open, wall- and floor-mounting  
(29 142)  
(LWH: 1370 x 800 x 1730),  
316 kg

### Technical data

tank volume: 750 l  
oil supply: electric oil pump  
voltage: 400 V - 3 phase  
power  
consumption: 5 A  
power: 0,55 KW  
adapter: Cekon-plug with phase  
inverter, 2 m cable  
filling: G 2" tank filling coupler  
dispensing: digital flow meter  
application: for storage of fresh oils  
(hazard class A III)  
overground  
connections: G 1/2"

### Specification

- design acc. to German calibration law
- electric oil pump, with an air eliminating foot valve (23 319 951)
- tank, 750 l, with a filling level indicator and a visual leakage indicator (45 014)
- suction tube set
- digital flow meter
- storage bracket for oil meter with integral oil drip tray



19 413 472

19 413 472

## ACCESSORIES

**Operating time limiter** to suit  
pneumatic fresh-oil systems

### Technical data

dimension LWH: 200 x 180 x 200

### Specification

- completely assembled
- safety shut-off switch for use in conjunction with permanent operating oil supply stations, with manual starter and electric contactor valve
- magnetic shut-off valve for automatic stop of air supply



19 413 473

19 413 473

**Operating time limiter** to suit  
electric fresh-oil systems

### Technical data

dimension LWH: 200 x 200 x 200

### Specification

- completely assembled
- safety shut-off switch for use in conjunction with permanent operating oil supply stations, with manual starter and electric contactor valve

## OIL SUPPLY TANK STATIONS

- Double walled oil storage tank.
- With 4 fixed connecting adapters, G2" female, to fit accessories for refilling, dispensing, ventilation and over-flow and leakage protection.
- With sturdy integral steel pallet and mechanic float-level indicator. (can be disassembled)
- Integral grips for manual transport.
- With suction tube.
- With storage bracket for oil meter and integral oil drip tray.
- With digital hose end meter.
- Dimensions 1000 l tank (L x W x H: 1280 x 760 x 1420 mm).
- Dimensions 750 l tank (L x W x H: 980 x 760 x 1420 mm)
- Completely assembled on a steel mounting plate.
- Designed for indoor storage of oils hazard class A III.
- According to German Government Specifications.
- With German certificate Z-38.11-117.
- German TÜV approval.
- Connections G1/2" female.

### OIL SUPPLY STATIONS, 1000 L

#### Technical data

tank volume:	1000 l
airline connection:	to suit Rectus coupling, type 26
NW:	7,2 mm
oil supply:	3:1 pneumatic pump
filling:	G 2" tank filling coupler
dispensing:	digital flow meter
application:	for storage of fresh oils (hazard class A III) overground
connections:	G 1/2"

#### Specification

- 3:1 pneumatic oil pump (19 266)
- tank, 1000 l, with a filling level indicator and a visual leakage indicator (45 100)
- mounting plate
- air maintenance unit (20 218 950)
- suction tube set
- digital flow meter
- storage bracket for oil meter with integral oil drip tray

#### Oil supply station, 1000 l, 3:1 pneumatic pump

**with discharge hose, 8 m,**  
hose storage rack  
(LWH: 1450 x 760 x 1720),  
125 kg

**with hose reel, 10 m,**  
open, wall- and floor-  
mounting (29 142)  
(LWH: 1450 x 760 x 1920),  
136,5 kg

Article no.

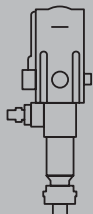
**19 000 350**

**19 000 351**



19 000 351





# Fresh Oil Supply Systems



23 000 350



19 000 356

Article no.

## OIL SUPPLY STATIONS, 1000 L

	<b>Oil supply station, 1000 l,</b> oil pump, 400 V	<b>Technical data</b> tank volume: 1000 l oil supply: electric oil pump voltage: 400 V - 3 phase power consumption: 5 A power: 0,55 KW adapter: Cekon-plug with phase inverter, 2 m cable filling: G 2" tank filling coupler dispensing: digital flow meter application: for storage of fresh oils (hazard class A III) overground connections: G 1/2"
<b>23 000 350</b>	<b>with discharge hose, 8 m</b> hose storage rack (LWH: 1450 x 760 x 1720), 137,5 kg	
<b>23 000 351</b>	<b>with hose reel, 10 m,</b> open, wall- and floor- mounting (29 142) (LWH: 1450 x 760 x 1720), 148,5 kg	

### Specification

- electric oil pump (23 319)
- tank, 1000 l, with a filling level indicator and a visual leakage indicator (45 100)
- mounting plate
- suction tube set
- digital flow meter
- storage bracket for oil meter with integral oil drip tray

## OIL SUPPLY STATIONS, 1000 L, DESIGN ACC. TO GERMAN CALIBRATION LAW

	<b>Oil supply station, 1000 l,</b> design acc. to German calibration law 3:1 pneumatic pump	<b>Technical data</b> tank volume: 1000 l airline connection: to suit Rectus coupling, type 26 NW: 7,2 mm oil supply: 3:1 pneumatic pump filling: G 2" tank filling coupler dispensing: digital flow meter application: for storage of fresh oils (hazard class A III) overground connections: G 1/2"
<b>19 000 355</b>	<b>with discharge hose, 8 m,</b> hose storage rack (LWH: 1450 x 760 x 1720), 125 kg	

Design acc. to Austrian  
calibration law  
(19 014 135)

<b>19 000 356</b>	<b>with hose reel, 10 m,</b> open, wall- and floor- mounting (29 142) (LWH: 1450 x 760 x 1920), 136,5 kg	<b>Specification</b> • design acc. to German calibration law • 3:1 pneumatic oil pump with an air eliminating foot valve (19 265 951) • tank, 1000 l, with a filling level indicator and a visual leakage indicator (45 100) • mounting plate • air maintenance unit (20 218 950) • suction tube set • digital flow meter • storage bracket for oil meter with integral oil drip tray
	Design acc. to Austrian calibration law (19 014 135)	

Article no.

**Technical data**

tank volume: 1000 l  
 oil supply: electric oil pump  
 voltage: 400 V - 3 phase  
 power consumption: 5 A  
 power: 0,55 KW  
 adapter: Cekon-plug with phase inverter, 2 m cable  
 filling: G 2" tank filling coupler  
 dispensing: digital flow meter  
 application: for storage of fresh oils (hazard class A III) overground  
 connections: G 1/2"

**Specification**

- design acc. to German calibration law
- electric oil pump, with an air eliminating foot valve (23 319 951)
- tank, 1000 l, with a filling level indicator and a visual leakage indicator (45 100)
- mounting plate
- suction tube set
- digital flow meter
- storage bracket for oil meter with integral oil drip tray

**Oil supply station, 1000 l,**  
 design acc. to German calibration law oil pump, 400 V

**with discharge hose, 8 m,**  
 hose storage rack  
 (LWH: 1450 x 760 x 1720),  
 137,5 kg

Design acc. to Austrian calibration law (23 000 135)

**with hose reel, 10 m,**  
 open, wall- and floor-mounting (29 142)  
 (LWH: 1450 x 760 x 1920),  
 148,5 kg

Design acc. to Austrian calibration law (23 000 135)

**23 000 355**

**23 000 356**



23 000 356

**OIL SUPPLY STATIONS, 750 L**

**Technical data**

tank volume: 750 l  
 airline connection: to suit Rectus coupling, type 26  
 NW: 7,2 mm  
 oil supply: 3:1 pneumatic pump  
 filling: G 2" tank filling coupler  
 dispensing: digital flow meter  
 application: for storage of fresh oils (hazard class A III) overground  
 connections: G 1/2"

**Specification**

- 3:1 pneumatic oil pump (19 265)
- air maintenance unit (20 218 950)
- tank, 750 l, with a filling level indicator and a visual leakage indicator (45 101)
- mounting plate
- suction tube set
- digital flow meter
- storage bracket for oil meter with integral oil drip tray

**Oil supply station, 750 l,**  
 3:1 pneumatic pump

**with discharge hose, 8 m,**  
 hose storage rack  
 (LWH: 1130 x 760 x 1720),  
 90 kg

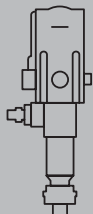
**with hose reel, 10 m,**  
 open, wall- and floor-mounting (29 142)  
 (LWH: 1150 x 760 x 1920),  
 100 kg

**19 000 250**

**19 000 251**



19 000 250



# Fresh Oil Supply Systems



23 000 251



19 000 256

Article no.

## OIL SUPPLY STATIONS, 750 L

	<b>Oil supply station, 750 l,</b> oil pump, 400 V	<b>Technical data</b> tank volume: 750 l oil supply: electric oil pump voltage: 400 V - 3 phase power consumption: 5 A power: 0,55 KW adapter: Cekon-plug with phase inverter, 2 m cable
<b>23 000 250</b>	<b>with discharge hose, 8 m,</b> hose storage rack (LWH: 1130 x 760 x 1720), 104 kg	filling: G 2" tank filling coupler dispensing: digital flow meter application: for storage of fresh oils (hazard class A III) overground connections: G 1/2"
<b>23 000 251</b>	<b>with hose reel, 10 m,</b> open, wall- and floor- mounting (29 142) (LWH: 1150 x 760 x 1920), 113 kg	

### Specification

- electric oil pump (23 319)
- tank, 750 l, with a filling level indicator and a visual leakage indicator (45 101)
- mounting plate
- suction tube set
- digital flow meter
- storage bracket for oil meter with integral oil drip tray

## OIL SUPPLY STATIONS, 750 L, DESIGN ACC. TO GERMAN CALIBRATION LAW

	<b>Oil supply station, 750 l,</b> design acc. to German calibration law 3:1 pneumatic pump	<b>Technical data</b> tank volume: 750 l airline connection: to suit Rectus coupling, type 26 NW: 7,2 mm oil supply: 3:1 pneumatic pump filling: G 2" tank filling coupler dispensing: digital flow meter application: for storage of fresh oils (hazard class A III) overground connections: G 1/2"
<b>19 000 255</b>	<b>with discharge hose, 8 m,</b> hose storage rack (LWH: 1130 x 760 x 1720), 90 kg	
	Design acc. to Austrian calibration law (19 016 135)	
<b>19 000 256</b>	<b>with hose reel, 10 m,</b> open, wall- and floor- mounting (29 142) (LWH: 1150 x 760 x 1920), 100 kg	
	Design acc. to Austrian calibration law (19 016 135)	

### Specification

- design acc. to German calibration law
- 3:1 pneumatic oil pump with an air eliminating foot valve (19 265 951)
- air maintenance unit (20 218 950)
- tank, 750 l, with a filling level indicator and a visual leakage indicator (45 101)
- mounting plate
- suction tube set
- digital flow meter
- storage bracket for oil meter with integral oil drip tray

**Technical data**

tank volume: 750 l  
 oil supply: electric oil pump  
 voltage: 400 V - 3 phase  
 power consumption: 5 A  
 power: 0,55 KW  
 adapter: Cekon-plug with phase inverter, 2 m cable  
 filling: G 2" tank filling coupler  
 dispensing: digital flow meter  
 application: for storage of fresh oils (hazard class A III) overground  
 connections: G 1/2"

**Specification**

- design acc. to German calibration law
- electric oil pump, with an air eliminating foot valve (23 319 951)
- tank, 750 l, with a filling level indicator and a visual leakage indicator (45 101)
- mounting plate
- suction tube set
- digital flow meter
- storage bracket for oil meter with integral oil drip tray

**Oil supply station, 750 l,**

design acc. to German calibration law  
 oil pump, 400 V

**with discharge hose, 8 m,**

hose storage rack (LWH: 1130 x 760 x 1720), 104 kg

Design acc. to Austrian calibration law (23 006 135)

**with hose reel, 10 m,**

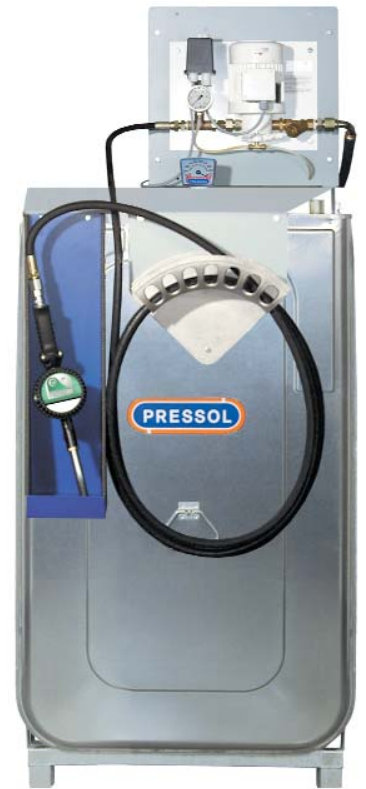
open, wall- and floor-mounting (29 142) (LWH: 1150 x 760 x 1920), 115 kg

Design acc. to Austrian calibration law (23 006 135)

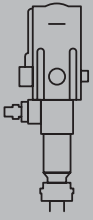
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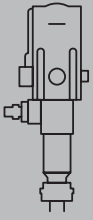
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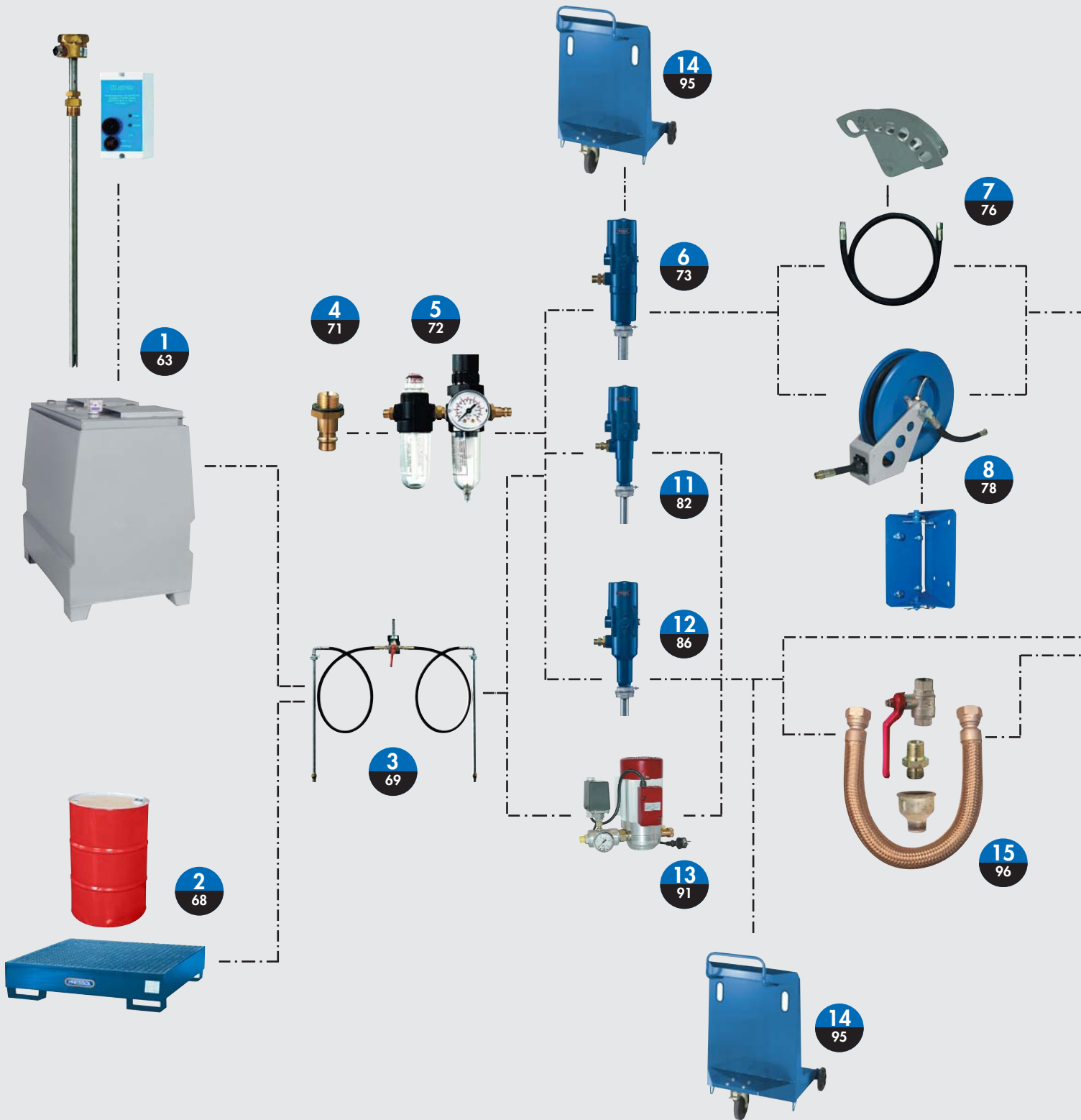
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***Construction Kit  
For Fresh Oil Supply***

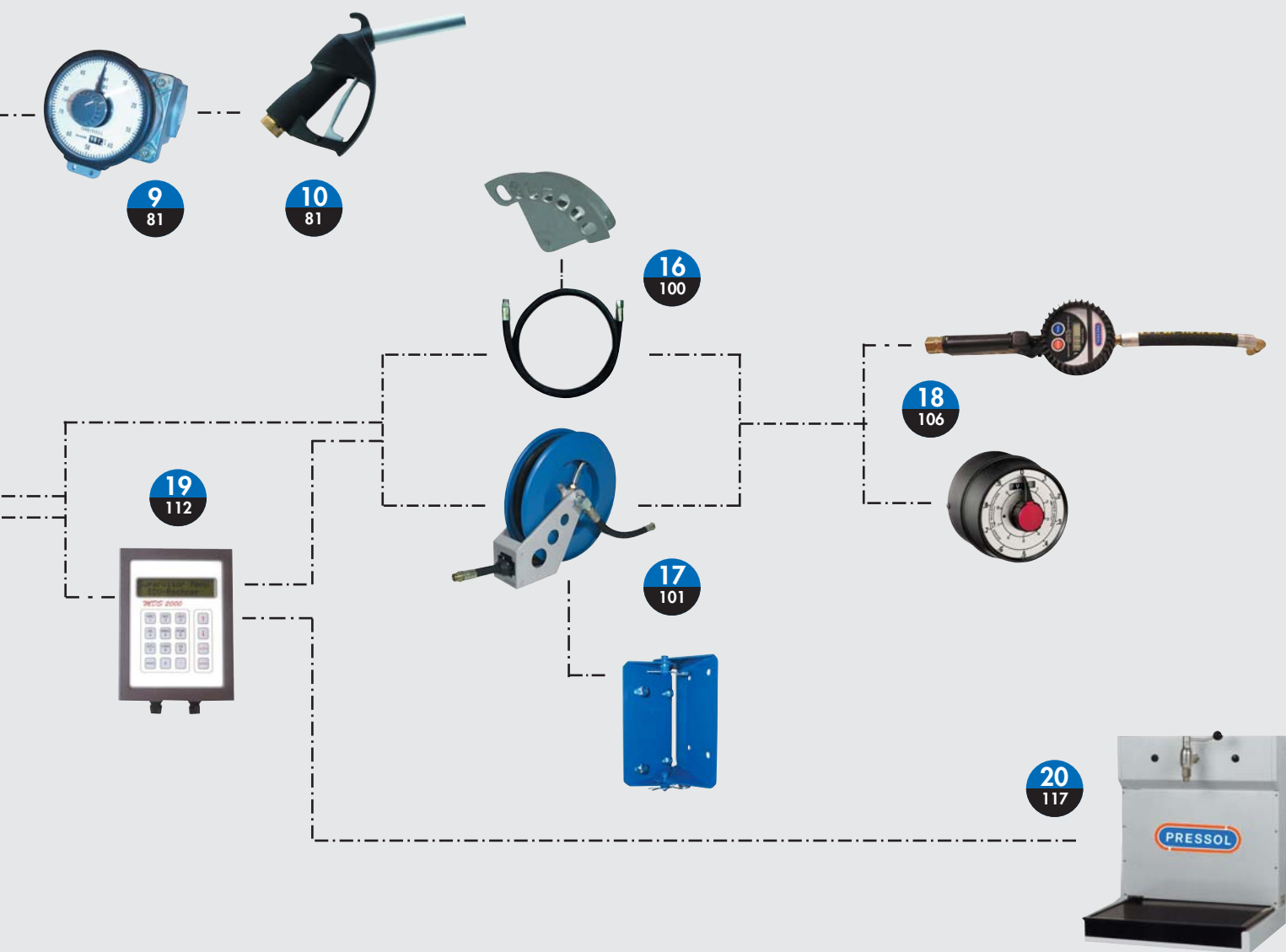


# Construction Kit For Fresh Oil Supply



## Explanation of Signs

- 1** — Chapter
- 63** — Page





**1 STORAGE TANKS**

**Technical data**

outside container  
 material: welded steel  
 inside container  
 material: welded steel  
 surface  
 treatment: degreased, phosphatized, primed and lacquered  
 lacquering: RAL 7040, window grey satin  
 connections: 5 x G 2" female

**Specification**

- European certificate
- mechanic float level indicator
- visual leakage indicator
- can be lifted and moved from four sides even under load
- designed for 3-side mounting of hose reels, electric and pneumatic pumps
- designed for indoor storage

Suitable for:

- fuel oil and diesel
- used engine and gear oils (waste oils) of known origin, hazard class A III
- lubricating oils, L-AN, acc. to DIN 51 501 (the lubricating oils AN 5 and AN 7 are inflammable liquids, hazard class A III, acc.to VbF)
- engine- and lubricating oils, acc. to DIN 51 511
- vehicle gear oils, acc. to DIN 51 512
- hydraulic oils, acc. to DIN 51 524 / 51 525
- heat transfer oils, acc. to DIN 51 522
- synthetic oils
- rapseed oil-methyl-ester (RME)

**tank 750 I**  
 (LWH: 1200 x 800 x 1123)  
 total weight: 279 kg

**tank 1000 I**  
 (LWH: 1200 x 800 x 1570)  
 total weight: 328 kg

**tank 1420 I**  
 (LWH: 1200 x 800 x 2070)  
 total weight: 415 kg

**Technical data**

outside container  
 material: steel, hot-dip galvanized  
 inside container  
 material: Polyethylene (HDPE)  
 connections: 4 x G 2" female

**Specification**

- European certificate Z-38.11-117
- mechanic float level indicator
- visual leakage indicator
- integral pallet (can be disassembled)
- integral grips for manual transport
- designed for indoor storage

Suitable for:

- fuel oil and diesel
- used engine and gear oils (waste oils) of known origin, hazard class A III
- lubricating oils, L-AN, acc. to DIN 51 501 (the lubricating oils AN 5 and AN 7 are inflammable liquids, hazard class A III, acc.to VbF)
- engine- and lubricating oils, acc. to DIN 51 511
- vehicle gear oils, acc. to DIN 51 512
- hydraulic oils, acc. to DIN 51 524 / 51 525
- heat transfer oils, acc. to DIN 51 522
- synthetic oils
- rapseed oil-methyl-ester (RME)

**tank 750 I**  
 (LWH: 980 x 760 x 1420), 66 kg

**tank 1000 I**  
 (LWH: 1280 x 760 x 1420), 89 kg

Article no.



45 010

**45 014**



45 014

**45 010**

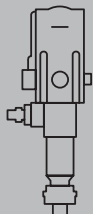
**45 018**



45 100

**45 101**

**45 100**



# Construction Kit For Fresh Oil Supply

Article no.

## ACCESSORIES TO SUIT STORAGE TANKS



19 402

19 402

**Storage bracket for oil meters**  
with integral drip tray

**Technical data**

dimension LWH: 703 x 90 x 150  
material: steel  
lacquering: RAL 7040 window  
grey satin  
weight: 1,57 kg

**Specification**

- drip tray
- fastening screws set
- for use in conjunction with storage tanks (45 100 / 45 101) only



19 403

19 403

**Fixing bracket**  
to suit a hose storage rack

**Technical data**

dimension LWH: 350 x 330 x 2  
material: steel  
lacquering: RAL 7040 window  
grey satin  
weight: 1,4 kg

**Specification**

- fastening screws set
- use in conjunction with storage tanks, (45 100 / 45 101) only
- to suit hose storage rack (19 669)



19 669

19 669

**Hose storage rack**  
large size

**Technical data**

dimension LWH: 348 x 144 x 257  
weight: 1,3 kg  
material: aluminium die casting

**Specification**

- for wall-mounting



19 407

19 407

**Continuously operating signal horn**  
for indoor use

**Technical data**

loudness level: 90 dB (A),  
1 m distance  
power supply: 230 V  
power input: 6 VA  
safety type: IP 20  
weight: 0,18 kg

**Specification**

- for acoustic remote monitoring of tanks
- adapter to connect to an overflow protection valve (19 412)

**Technical data**

loudness level: 90 dB (A), 1m distance  
 power supply: 230 V  
 power input: 10 VA  
 safety type: IP 33  
 weight: 0,19 kg

**Specification**

- for visual and acoustic remote monitoring of tanks
- adapter to connect to an overflow protection valve (19 412)

**Warning light and buzzer**

with separate control mechanism for each unit

Article no.  
**19 408**



19 408

**Technical data**

dimension LWH: 163 x 97 x 62  
 weight: 0,4 kg  
 power supply: 230 V AC, 50/60 HZ  
 nominal power: 5 VA  
 fuse: M 32 mA  
 connecting cable: 1.2 m, 2 x 0.75 mm<sup>2</sup>  
 operate lag: none  
 additional connections: 1 output relay (variator)  
 output relay switch capacity: max. 250 V, 2 A, resistive load  
 permitted ambient temperature: -10° to + 60 °C  
 safety class: II DIN 57 700

**Optical and acoustic oil/water leakage indicator system**

**19 406**



19406

**Specification**

- for installation between the inside and outside wall of a double storage tank
- warning signal at min. 50 mm liquid height

**Specification**

- operating time limiter, 1 - 30 min
- for electric and pneumatic oil supply stations
- for use in conjunction with pneumatic oil supply stations the use of a solenoid valve (19 897) is recommended
- can be installed in conjunction with a key operated switch (19 423)

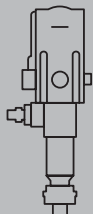
**Electric contactor valve**

with operating time limiter

**19 421**



19 421



# Construction Kit For Fresh Oil Supply



19 423



19 897



19 412



19 418

Article no.

## ACCESSORIES TO SUIT STORAGE TANKS

19 423

**Key operated switch**  
with an indication lamp

**Specification**

- control lamp
- for use in conjunction with an electric contactor valve (19 421)

19 897

**Solenoid valve, G 1/4" female,  
G 1/4" female**  
2/2 way air valve

**Technical data**

dimension LWH: 55 x 70 x 22  
medium: air  
connections: G 1/4" female  
NW: 7,2 mm  
pressure range: 0,3 – 10 bar  
ambient  
temperature: 0 °C to +60 °C  
nominal voltage: 230 V / 50 Hz  
safety type: IP 65  
duty cycle, ED: 100 %  
sealing material: NBR  
material: brass

**Specification**

- currentless circled
- epoxy-resin-pressed coil parts

19 412

**Overflow protection valve**  
A III, acc. to German WHG  
regulation

**Technical data**

power supply: AC 24 V, 110 V,  
230 V or DC 24 V  
power input: max. 3 VA or 5 W  
dimension LWH: 163 x 97 x 62  
safety type: IP 30  
level indicator length: 300 mm  
connections: G 3/4" male  
visual level gauge  
material: brass

**Specification**

- visual and acoustic warning with acknowledgement option

Area of application:  
Inflammable liquids and oil of hazard class A III; diesel acc. to DIN 51 601, fuel oil acc. to DIN 51 603, used gear and motor oils.

19 418

**Retention adapter**  
G 3/4" female, G 2" male

**Technical data**

connection 1: G 3/4" female  
connection 2: G 2" male  
material: galvanized cast steel

**Specification**

- for mounting of level indicators of the overflow protection valve (19 412) on storage tanks

<b>Technical data</b> connection: G 2" female	<b>Tank ventilation cap, G 2" female,</b> with a strainer, Polyamide	Article no. <b>19 410</b>
<b>Specification</b> <ul style="list-style-type: none"> <li>can be mounted as a protection cap at the end of a storage ventilation pipe of tanks</li> </ul>	<b>Tank ventilation cap, G 2" female,</b> without strainer, Brass	<b>19 411</b>
<b>Technical data</b> connections: G 2" male material: galvanized steel	<b>Tank filling spout, angled 90°</b> G 2" male, G 2" male	<b>19 414</b>
<b>Technical data</b> connection 1: G 2" male connection 2: to suit filling systems of tank trucks	<b>Storage tank refilling system,</b> G 2" male, 45° angled	<b>19 414 950</b>
<b>Specification</b> <ul style="list-style-type: none"> <li>metal cover</li> <li>tanker coupling</li> </ul>	<b>Tank filling coupler</b>	<b>19 416</b>
<b>Technical data</b> connection: R 2" female material: brass sealing: Vulkollan	<b>Cap to suit tank filling coupler</b>	<b>19 417</b>
<b>Specification</b> <ul style="list-style-type: none"> <li>without cover</li> </ul>	<b>Technical data</b> material: metal sealing: Perbunan  <b>Specification</b> <ul style="list-style-type: none"> <li>steel chain, nickelized, 25 cm</li> <li>to suit tank filling coupler (19 416)</li> </ul>	<b>19 424</b>
<b>Technical data</b> connection: G 2" male	<b>Storage tank refilling system and tank ventilation tube</b> G 2" male	<b>87 563</b>
<b>Specification</b> <ul style="list-style-type: none"> <li>storage tank refilling system (19 414 950)</li> <li>tank ventilation cap (19 410)</li> <li>tank ventilation tube (87 563)</li> </ul>	<b>Technical data</b> connection: G 2" male length: 500 mm  <b>Specification</b> <ul style="list-style-type: none"> <li>to be mounted on storage tank in conjunction with tank ventilation cap (19 410)</li> </ul>	<b>19 424</b>



19 411



19 414



19 414 950



19 416



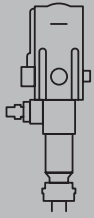
19 417



19 424



87 563



# Construction Kit For Fresh Oil Supply



19 426

Article no.

## ACCESSORIES TO SUIT STORAGE TANKS

19 426

**Installation set**  
tank attachment

**Specification**

- for installation of an overflow protection valve and of a tank ventilation tube
- adapter, G 3/4" female, G 2" male
- T-type adapter, G 2" female, G 2" male
- tank filling spout, angled 90°, G 2" male
- adapter G 2" female

## 2 CONTAINER STORAGE UNITS TO SUIT 60/200 L CONTAINERS

**Container storage unit**

**Technical data**

material: 3.5 mm sheet steel  
lacquering: Pantone 294c, blue satin

19 802

**to suit two 200 l container**  
(LWH: 1340 x 850 x 340), 76 kg

19 804

**to suit four 200 l container**  
(LWH: 2680 x 850 x 236), 122,2 kg

19 808

**to suit four 200 l container**  
(LWH: 1200 x 1200 x 340), 90 kg

**Specification**

- galvanized platform grid
- stable and sturdy construction
- can be moved from four sides (100 mm clearance)
- to suit 200 l container
- for storage of diesel, fresh and waste oils of known origin (hazard class AIII) in container of max. 200/220 l volume, overground
- design approval, conforms to § 19 WHG (German Environmental Government Specifications), water protection regulations
- for storage in preservations of ground water, please ask your local authorities.



19 802

Article no.

**ACCESSORIES TO SUIT OIL CONTAINERS STORAGE UNITS**

**Technical data**

dimension LWH: 1370 x 650 x 850  
 material: steel  
 lacquering: Pantone 294c,  
 blue satin

**Oil container storage rack**

to suit 3 x 60 l or 2 x 200 l container

**19 815**



19 815

**Specification**

- for self-assembly
- stand-alone
- recommended to be used in conjunction with oil container storage units only (19 808 / 19 802)
- two oil container storage units can be stacked together to create systems with two storage levels (700 mm and 1500 mm above ground level)

**Technical data**

dimension LWH: 850 x 800 x 1400  
 lift: 450 mm  
 material: steel  
 weight: 65 kg  
 lacquering: Pantone 294c,  
 blue satin

**Barrel lift**

**19 816**



19 816

**Specification**

- to transport max. 200 / 220 l container
- hydraulic lifting mechanism
- steerable 4 wheels-trolley
- The lift of container can easily be effected by means of special clamps and holders.

**3**

**SUCTION TUBES AND ACCESSORIES**

**Technical data**

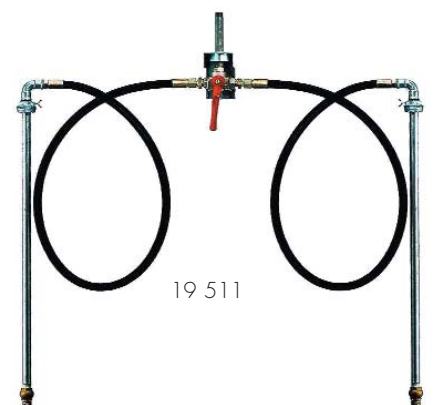
length of suction tube: 860 mm  
 connection of suction pipe: G 3/4" male  
 adapter: G 2" male

**Dual suction tube assembly, 2 m**

**19 511**

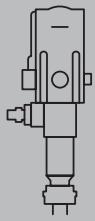
**Specification**

- two suction pipes each with an integral foot valve
- two suction hoses, 2 m, G 3/4 " female/male
- 3-way lever ball valve, G 3/4 " female
- wall-mounting bracket
- all adapters for assembly
- to suit two 200/220 l container



19 511





# Construction Kit For Fresh Oil Supply

Article no.

## SUCTION TUBES AND ACCESSORIES

19 512



19 512

**Flexible suction hose for oil**  
2 m, G 3/4" female, G 3/4" male

**Technical data**  
length: 2 m  
connection 1: G 3/4" female 60° sealing cone  
connection 2: G 3/4" male 60° sealing cone  
hose inside diameter: 20 mm  
operating pressure: 105 bar

**Specification**  
• high volume  
• Acc. to EN 857

19 521



19 521

**Wall-mounting bracket**  
to suit pneumatic pumps

**Technical data**  
dimension LWH: 155 x 48 x 127  
weight: 1,1 kg  
material: galvanized steel

**Specification**  
• to suit pneumatic pumps

19 522

**Suction tube**, G 3/4" female, G 2" male, 860 mm, to suit 200/220 l container

**Technical data**  
connection 1: G 3/4" female  
connection 2: G 2" male, retention adapter

19 523

**Suction tube**, G 3/4" female, G 2" male, 860 mm, to suit 200/220 l container with foot valve with an overpressure ventile

**Specification**  
• To connect the suction pipe with a pneumatic pump a suction hose, item No. 19 512, is required.

19 522

19 523 001

19 523 001

**Suction tube**, G 3/4" female, G 2" male, 1600 mm, to suit oil storage tanks with foot valve with an overpressure ventile

19 513 950

**Conversion kit**  
860 mm suction tube, to suit 200/220 l container

**Technical data**  
connection: G 3/4" male

19 513 952

**Conversion kit**  
1600 mm suction tube, to suit oil storage tanks

**Specification**  
• complete, with an air eliminating foot valve to convert a standard 3:1 pneumatic pump (19 285) into a pneumatic pump designed acc. to German calibration law

19 513 954

**Conversion kit**  
1600 mm suction tube, to suit oil storage tanks, 90° connecting angle for connection with a pneumatic pump  
For wall-mounting a suction hose, (19 512) and a wall-mounting bracket (19 521) is required.



19 513 950

**4 ACCESSORIES FOR AIR SUPPLY**

**Technical data**

connection 1: G 1/4" male  
 connection 2: to suit Rectus connector, type 26  
 NW: 7,2 mm  
 opening of the spanner: 12 mm  
 material: brass

**Male quick release adapter,**

G 1/4" male  
 to suit Rectus connector, type 26

**Specification**

- to be used for mounting of an air maintenance unit (20 218)

Article no.

**20 062**



20 062

**Technical data**

connections: G 1/4" male, 60° inside cone  
 NW: 7,5 mm  
 opening of the spanner: 17 mm  
 operating pressure: - 0.95 to 15 bar  
 operating temperature: - 10 °C to 70 °C  
 material: brass

**Adapter**

G 1/4" male, G 1/4" male

**Specification**

- to be used for mounting of an air maintenance unit (20 218)
- with an inside cone, acc. to DIN EN 560

**20 112**



20 112

**Technical data**

length of hose: 5 m  
 connection 1: female Rectus quick release airline connector, type 26  
 connection 2: to suit male Rectus quick release airline connector, type 26  
 NW: 7,2 mm  
 dynamic operating pressure: 17 bar

**Coiled air hose, 5 m**

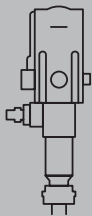
**Specification**

- to connect the compressed airline to a compressed air tool

**20 185**



20 185



# Construction Kit For Fresh Oil Supply

Article no.

## 5 AIR MANTENACE UNITS

20 218

Air maintenance unit

### Technical data

connection 1: G 1/4" female  
 connection 2: G 1/4" female  
 max. operating pressure: 10 bar  
 regulating air pressure: 0,5 - 10 bar  
 normal flow rate: \* 6,3 l/sec  
 filter: 40 my  
 condensate volume: 0,017 l  
 operating temperature: 0 °C to +50 °C  
 casing material: zinc die casting

\* at a 10 bar airline pressure, 6 bar operating pressure and  $\Delta p=1$  bar

### Specification

- pressure regulator with gauge, moisture separating filter and lubricator



20 218 950

Air maintenance unit, complete set

### Technical data

connection 1: G 1/4" male  
 connection 2: to suit Rectus airline connector, type 26  
 NW: 7,2 mm  
 max. operating pressure: 10 bar  
 regulating air pressure: 0,5 - 10 bar  
 normal flow rate: \* 6,3 l/sec  
 filter: 40 my  
 condensate volume: 0,017 l  
 operating temperature: 0 °C to +50 °C  
 casing material: zinc die casting

\* at a 10 bar airline pressure, 6 bar operating pressure and  $\Delta p = 1$  bar

### Specification

- pressure regulator with gauge, moisture separating filter and lubricator
- male quick release coupler
- G 1/4" male/male adapter



20 218 950

## 6 PNEUMATIC OIL AND DIESEL PUMPS 1:1

### Technical data

connection,  
pressure side: G 3/4" male  
connection: G 2" male, to suit  
metal container  
max. length of  
discharge hose: 10 m  
airline connection: G 1/4" female

**Pneumatic oil and diesel  
pump 1:1**

**SRL 860,  
to suit 200/220 l container**

**SRL 1200,  
for mounting on tanks**

### Specification

- suction tube, G 1" male
- thanks to high delivery rates, pump can be used as transfer pump
- designed to operate in conjunction with short distribution lines

### Technical data

connection,  
suction side: G 3/4" male  
connection  
pressure side: G 3/4" male  
max. length of  
discharge hose: 10 m  
airline connection: G 1/4" female

**Pneumatic oil and diesel  
pump 1:1  
for wall-mounting**

### Specification

- thanks to high delivery rates, pump can be used as transfer pump
- designed to operate in conjunction with short distribution lines
- recommended accessories: suction hose (19 512), wall-mounting bracket (19 521), suction tube (19 522 / 19 523 / 19 523 001)

## PUMPS FOR SCREEN WATER

### Technical data

connection,  
pressure side: G 3/4" male  
connection: G 2" male, to suit  
metal container  
sealings: FKM (Viton®)  
media: pure screen water,  
anti-freeze  
max. length of  
discharge hose: 10 m  
air line connection: G 1/4" female  
materials: All components which  
contact with flow  
media are made of  
steel, brass or Viton®

**Pneumatic pump 1:1, brass**

**SRL 860,  
to suit 200/220 l container**

**SRL 1200,  
for mounting on tanks**

### Specification

- suction tube, G 1" male

Article no.

19 135

19 165

19 185



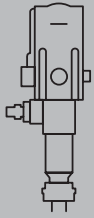
19 135

19 135 843

19 165 843



19 135 843



# Construction Kit For Fresh Oil Supply



19 185 843

Article no.

## PUMPS FOR SCREEN WATER

19 185 843

**Pneumatic pump 1:1, brass for wall-mounting**

### Technical data

connection, suction side:	G 3/4" male
connection, pressure side:	G 3/4" male
sealings:	FKM (Viton®)
media:	pure screen water, anti-freeze
max. length of discharge hose:	10 m
air line connection:	G 1/4" female
materials:	All components which contact with flow media are made of steel, brass or Viton®.

### Specifikation

- recommended accessories: suction hose (19 512), wall-mounting bracket (19 521), suction tube (19 522 / 19 523 / 19 523 001)



19 135 600

## COMPLETE INSTALLATION SETS

19 135 600

**Pneumatic Installation pump set 1:1**

**SRL 860, to suit 200/220 l container**

19 165 600

**SRL 1200, to suit tanks**

### Technical data

connection, pressure side:	G 3/4" male
connection:	G 2" male, to suit metal container
max. length of discharge hose:	10 m
airline connection:	to suit Rectus coupling, type 26
NW	7,2 mm

### Specifikation

- suction tube, G 1" male
- air maintenance unit (20 218 950)
- compressed-air hose, 2 m, DN 9, with male adapter to suit Rectus coupling, type 26
- oil discharge hose 2 m, DN 20, G 3/4" male/ female and lever ball valve, G 3/4" female, with all adapters required for assembly
- to connect directly to fixed oil/diesel discharge installations

**Technical data**

connection,  
pressure side: G 3/4" male  
connection: G 2" male, to suit  
metal container  
airline connection: to suit Rectus coupling,  
type 26  
NW: 7,2 mm

**Specification**

- wall-mounting bracket
- suction tube, with angle G 3/4" female
- suction hose, DN 20, to connect suction tube/pneumatic pump
- air maintenance unit (20 218 950)
- compressed-air hose, 2 m, DN 9, with male adapter to suit Rectus coupling, type 26
- oil discharge hose 2 m, DN 20, G 3/4" male/female and lever ball valve, G 3/4" female, with all adapters required for assembly
- to connect directly to fixed oil/diesel discharge installations

**Pneumatic Installation  
pump set 1:1  
SRL 860,  
for wall-mounting**

Article no.  
**19 185 600**



19 185 600

**PNEUMATIC DIAPHRAGM PUMPS**

**Technical data**

dimension, LWH: 191 x 222 x 273  
pump capacity (free flow): 60 l/min  
max. air pressure: 7 bar  
min. air pressure: 1,8 bar  
max. particle size: 2,5 mm  
max. suction height (wet): 7 m  
max. suction height (dry): 4,9 m  
max. operating temperature: 65 °C  
loudness level at  
3.5 bar, 50 DH/min: 75 dB (A)  
airline connector: to suit Rectus  
coupling, type 26  
suction and  
discharge adapter: G 1/2" male 60°  
with sealing cone  
max. air consumption: 560 l/min  
material of pump: Aluminium  
material of diaphragms: Buna-N  
material of ball valve: Buna-N  
material of ball valve seat: Acetal  
weight: 5 kg

**Pneumatic diaphragm pump  
60 l/min**

- Suitable for:
- waste oils, water
  - water-based liquids, oils or slurries providing outstanding abrasion resistance (e. g. screen water, anti-freeze, various chemicals, light acids etc.)

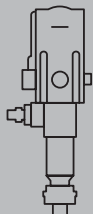
**19 060**



19 060

**Specification**

- designed for wall-mounting
- recommended accessory (87 626)



# Construction Kit For Fresh Oil Supply

Article no.

## PNEUMATIC DIAPHRAGM PUMPS

19 062

**Pneumatic diaphragm pump**  
159 l/min

Suitable for:

- waste oils, water
- water-based liquids, oils or slurries providing outstanding abrasion resistance (e. g. screen water, anti-freeze, various chemicals, light acids etc.)

### Technical data

dimension LWH:	235 x 305 x 356
pump capacity (free flow):	159 l/min
max. air pressure:	8,4 bar
min. air pressure:	1,4 bar
max. particle size:	3,2 mm
max. suction height (wet or dry):	5,8 m
max. operating temperature:	65 °C
loudness at 4.8 bar, 50 DH/min:	78 dB (A)
airline connector:	to suit Rectus coupling, type 26
NW:	7,2 mm
suction and discharge adapter:	G 3/4" male 60° with sealing cone
max. air consumption:	1700 l/min
material of pump:	Aluminium
material of diaphragms:	Hytrel®
material of ball valve:	Acetal
material of ball valve seat:	Hytrel®
weight:	8,2 kg

### Specification

- designed for wall-mounting
- recommended accessory (87 626)



19 062

7

## DISCHARGE HOSES FOR OIL

19 530

**Discharge hose for oil**  
0,5 m, G 3/4" female,  
G 3/4" female

### Technical data

length:	0,5 m
connection 1:	G 3/4" female, 60° sealing cone
connection 2:	G 3/4" female, 60° sealing cone
inside diameter of hose:	20 mm
operating pressure:	45 bar

### Specification

- high volume
- Acc. to DIN 20 021 (EN 854)



19 530

19 512

**Discharge hose for oil**  
2 m, G 3/4" female,  
G 3/4" male

### Technical data

length:	2 m
connection 1:	G 3/4" female 60° sealing cone
connection 2:	G 3/4" male 60° sealing cone
inside diameter of hose:	20 mm
operating pressure:	105 bar

### Specification

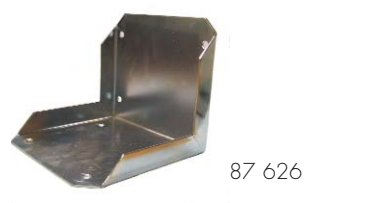
- high volume
- Acc. to EN 857

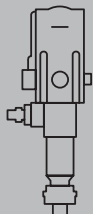


19 512



<b>Technical data</b>	connection 1: G 3/4" female connection 2: G 3/4" male, 60° sealing cone inside diameter of hose: 20 mm operating pressure: 105 bar	<b>Discharge hoses for oil</b>	<b>1 m</b> , G 3/4" female, G 3/4" male <b>3 m</b> , G 3/4" female, G 3/4" male <b>4 m</b> , G 3/4" female, G 3/4" male <b>5 m</b> , G 3/4" female, G 3/4" male <b>8 m</b> , G 3/4" female, G 3/4" male	Article no.  <b>19 531</b>  <b>19 533</b>  <b>19 534</b>  <b>19 535</b>  <b>19 538</b>
<b>Technical data</b>	length: 1,5 m connection 1: G 3/4" female connection 2: G 3/4" female, with 90° angle inside diameter of hose: 20 mm operating pressure: 105 bar	<b>Discharge hose for oil</b>	<b>1,5 m</b> , G 3/4" female, G 3/4" female	<b>19 550</b>
<b>Specification</b>	<ul style="list-style-type: none"> <li>to connect pneumatic oil pumps with pipework</li> <li>swivel nuts on both hose ends</li> <li>acc. to DIN 20 022 (EN 853)</li> </ul>			
<b>Technical data</b>	length: 0,5 m connections: G 3/4" female inside diameter of hose: 20 mm material of metal flexible hose: high-alloyed steel (X6 CrNiTi 1810) with high-alloyed steel braid weight: 0,4 kg	<b>Flexible metal hose</b>	0,5 m, G 3/4" female, G 3/4" female	<b>19 666</b>
<b>Specification</b>	<ul style="list-style-type: none"> <li>acc. to TRBF 231 T1 (German norm)</li> <li>to connect oil pumps with pipework in non-visible areas</li> <li>swivel nuts on both hose ends</li> </ul>			
<b>Technical data</b>	dimension, LWH: 348 x 144 x 257 weight: 1,3 kg material: aluminium die casting	<b>Hose storage rack</b>	large size	<b>19 669</b>
<b>Specification</b>	<ul style="list-style-type: none"> <li>for wall-mounting</li> </ul>			
<b>Technical data</b>	dimension, LWH: 182 x 198 x 208 weight: 1,8 kg material: galvanized steel	<b>Wall-mounting rack</b>	for diaphragm pumps	<b>87 626</b>
<b>Specification</b>	<ul style="list-style-type: none"> <li>to suit diaphragm pumps (19 060 / 19 062)</li> </ul>			





# Construction Kit For Fresh Oil Supply

## 8 HOSE REELS

### Product features

- Complete with 1 m connecting hose G 3/4" female.
- Outstanding robustness and compact design.
- All steel parts are washed, phosphatised, coated and lacquered (Guide arm: RAL 7040 window grey satin, Drum: Pantone 294c blue satin, Cover: RAL 7040 window grey satin, Wall-mounting bracket: Pantone 294c blue satin).
- High-quality surface-treatment of all steel parts ensures high corrosion resistance.
- The axis diameter of die casting parts is 40 mm. If loads to be absorbed are predefined, dimensions selected by our engineers ensure almost unlimited lifecycle.
- Selected pairs of axis and bearing materials are maintenance-free.
- Suitable for wall, floor and mounting on ceilings.
- Easy assembly: It is not necessary to hold the weight of the hose reel while mounting.
- Ball bearings on any hinge joints.
- High pressures in the supply system do not influence the power needed for hinge joint rotation.
- With hose stop.
- By 90° turning the hose can be engaged.

### Abbreviations

- D** Ceiling mounting  
**GDA** Encased, swivel joint situated outside  
**GDI** Encased, swivel joint situated inside  
**O** Open  
**WB** Wall- and ceiling mounting

Article no.

### HOSE REELS FOR OIL

#### OPEN, FOR WALL-/FLOOR-MOUNTING

29 341

#### Hose reel

O, WB, 60 bar, DN 16, 8 m

#### Technical data

dimension, LWH: 472 x 152 x 498  
hose length: 8 m  
connection,  
discharge hose: G 3/4" male  
length of connecting hose: 1000 mm  
connection,  
connecting hose: G 3/4" female  
inside diameter of hose: DN 16  
operating pressure: 60 bar  
weight: 18,7 kg



#### OPEN, FOR MOUNTING ON CEILINGS

29 351

#### Hose reel

O, D, 60 bar, DN 16, 8 m

#### Technical data

dimension, LWH: 475 x 158 x 520  
hose length: 8 m  
connection,  
discharge hose: G 3/4" male  
length of connecting hose: 1000 mm  
connection,  
connecting hose: G 3/4" female  
inside diameter of hose: DN 16  
operating pressure: 60 bar  
weight: 22,3 kg



**ENCASED, FOR WALL-/FLOOR-MOUNTING, OUTSIDE SWIVEL**

<b>Technical data</b>		<b>Hose reel</b>
dimension, LWH:	495 x 158 x 508	GDA, WB, 60 bar, DN 16, <b>8 m</b>
hose length:	8 m	
connection,		
discharge hose:	G 3/4" male	
length of connecting hose:	1000 mm	
connection,		
connecting hose:	G 3/4" female	
operating pressure:	60 bar	
weight:	25,3 kg	

Article no.

**29 371**



29 371

**ENCASED, FOR WALL-/FLOOR MOUNTING, INSIDE SWIVEL**

<b>Technical data</b>		<b>Hose reel</b>
dimension, LWH:	495 x 170 x 508	GDI, WB, 60 bar, DN 16, <b>8 m</b>
hose length:	8 m	
connection,		
discharge hose:	G 3/4" male	
length of connecting hose:	1000 mm	
connection,		
connecting hose:	G 3/4" female	
operating pressure:	60 bar	
weight:	25,7 kg	

**29 361**



29 361

**ENCASED, FOR MOUNTING ON CEILINGS, OUTSIDE SWIVEL**

<b>Technical data</b>		<b>Hose reel</b>
dimension, LWH:	495 x 158 x 520	GDA, D, 60 bar, DN 16, <b>8 m</b>
hose length:	8 m	
connection,		
discharge hose:	G 3/4" male	
length of connecting hose:	1000 mm	
connection,		
connecting hose:	G 3/4" female	
operating pressure:	60 bar	
weight:	25,5 kg	

**29 391**



29 391

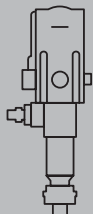
**ENCASED, FOR MOUNTING ON CEILINGS, INSIDE SWIVEL**

<b>Technical data</b>		<b>Hose reel</b>
dimension, LWH:	495 x 170 x 520	GDI, D, 60 bar, DN 16, <b>8 m</b>
hose length:	8 m	
connection,		
discharge hose:	G 3/4" male	
length of connecting hose:	1000 mm	
connection,		
connecting hose:	G 3/4" female	
operating pressure:	60 bar	
weight:	25,1 kg	

**29 381**



29 381



# Construction Kit For Fresh Oil Supply

Article no.

## ACCESSORIES TO SUIT HOSE REELS



29 930

29 930

**Wall-mounting**  
90° swivel bracket

**Technical data**

dimension, LWH: 170 x 105 x 220  
swivel range: 2 x 45°  
weight: 1,8 kg  
material: steel  
lacquering: Pantone 294c,  
blue satin

**Specification**

- wall-mounted swivel bracket to suit all types of hose reels



29 979

29 979

**Hose stop 5/8"**

**Technical data**

material: Polyamide  
colour of stop : RAL 8001, brown

**Specification**

- for hoses of 23.5 mm outside diameter
- suitable for oil hoses



29 980

29 980

**Control gun and meter storage bracket,**  
for one gun  
(170 x 170 x 650 mm), 2,3 kg

**Technical data**

material: steel  
lacquering: RAL 7040, window  
grey satin

29 981

**Control gun and meter storage bracket,**  
for two guns  
(340 x 170 x 650 mm), 4,1 kg

**Specification**

- drip tray with a drain screw and removable strainer
- for wall-mounting



29 940

29 940

**Angle bracket for installation**

**Technical data**

material: steel  
lacquering: Pantone 294c,  
blue satin

**Specification**

- suits for lateral installation of a hose reel (e.g. in garage service pits)

**9 FLOW METERS**

**Technical data**

dimension, LWH: 102 x 50 x 60  
 connections: G 1" female  
 liquids to be measured: for liquid oils only, e. g. hydraulics oils, diesel  
 flow rate: 10 - 100 l/min  
 temperature range: -10 °C to 50 °C  
 max. pressure: 10 bar  
 material of casing: Aluminium  
 display: four digits, without decimals  
 partial summation: can be reset to zero  
 total summation: counted in litres and will be reset to zero at a quantity of 999 999 l  
 measuring tolerance: +/- 2,5 %  
 batteries: AAA, size E92, 1.5 V

**Inline meter, digital**  
 turbine wheel, G 1" female, G 1" female

**Specification**

- to suit 1:1 pneumatic pumps and pneumatic diaphragm pumps
- for direct mounting on a diesel control valve

**Technical data**

dimension, LWH: 102 x 50 x 60  
 connections: G 3/4" female  
 liquids to be measured: lubricating oils and others within the viscosity range from 8 to 2000 mPa s  
 flow rate: 1 - 50 l/min  
 operating temperature: max. 40 °C  
 Ambient temperature: 10 °C to 50 °C  
 nominal pressure: 10 bar  
 material of casing: zinc die casting  
 display: 1-100 l, can be reset to zero  
 total summation: counted in litres and will be reset to zero at a quantity of 999 999 l  
 measuring tolerance: +/- 2 %  
 position of installation: according to your demands

**Cylindrical piston flowmeter, mechanical for in-line installation,**  
 Siemens

**10 CONTROL VALVE**

**Technical data**

connection: G 1" female  
 flow rate: 60 l/min  
 max. pressure: 8 bar  
 material: Aluminium and Polyethylene

**Control valve, for diesel / oil**  
 G 1" female

**Specification**

- manual shut-off valve
- swivel
- to suit 1:1 oil and diesel pumps and pneumatic diaphragm pumps
- recommended accessory (03 419)

Article no.

**23 285**



23 285

**19 728**

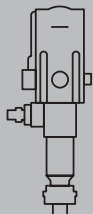


19 728

**19 701**



19 701



# Construction Kit For Fresh Oil Supply

Article no.

## 11 PNEUMATIC OIL PUMPS 3:1

### PNEUMATIC OIL PUMPS



19 205

19 205

#### Pneumatic oil pump, 3:1

SRL 570, to suit 60 l container

19 235

SRL 860, to suit 200/220 l container

19 265

SRL 1200, for mounting on tanks

19 266

SRL 1500, for mounting on tanks

#### Technical data

connection,  
pressure side: G 1/2" male  
retention adapter: G 2" male, to suit  
metal container  
airline connection: G 1/4" female

#### Specification

- suction tube, G 3/4" male
- Especially designed to dispense engine or gear oils (max. viscosity 90 SAE).
- Designed for use in conjunction with distribution lines up to 70 m. We recommend the installation of an overflow valve (19 648, 16 bar or 19 506, 20 bar)
- can be easily combined with several hose reels



19 285

19 285

#### Pneumatic oil pump, 3:1 for wall-mounting

#### Technical data

connection,  
suction side : G 3/4" male  
connection,  
pressure side: G 1/2" male  
airline connection: G 1/4" female

#### Specification

- especially designed to dispense engine or gear oils (max. viscosity 90 SAE)
- designed for use in conjunction with distribution lines up to 70 m. We recommend the installation of an overflow valve (19 648, 16 bar or 19 506, 20 bar)
- can be easily combined with several hose reels
- recommended accessories: suction hose (19 512), wall-mounting bracket (19 521), suction tube (19 522 / 19 523 / 19 523 001)



**PNEUMATIC OIL PUMPS, ACC. TO GERMAN CALIBRATION LAW**

**Technical data**

connection,  
 pressure side: G 1/2" male  
 retention adapter: G 2" male, to suit  
 metal container  
 airline connection: to suit Rectus coupling,  
 type 26  
 NW: 7,2 mm

**Pneumatic oil pump, 3:1,**

**SRL 860,  
 to suit 200/220 l container**

**SRL 1200, for mounting on tanks**

**SRL 1500, for mounting on tanks**

Article no.

19 235 030

19 265 030

19 266 030

**Specification**

- acc. to German calibration law
- integral air eliminator
- suction tube, G 3/4" male
- overflow tube (copper) to prevent overpressures, recommended as well for use in non visible aereas
- PTB approval / German Govt. specification
- especially designed to dispense engine or gear oils (max. viscosity 90 SAE)
- Designed for use in conjunction with distribution lines up to 70 m. We recommend the installation of an overflow valve (19 648, 16 bar or 19 506, 20 bar)
- can be easily combined with several hose reels



19 235 030

**Technical data**

connection,  
 suction side: G 1/2" male  
 connection,  
 pressure side: G1/2" male  
 airline connection: to suit Rectus coupling,  
 type 26  
 NW: 7,2 mm

**Pneumatic oil pump, 3:1,**

**Design acc. to German  
 calibration law  
 for wall-mounting**

**Design acc. to Austrian  
 calibration law  
 (19 285 135)**

19 285 030

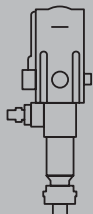
**Specification**

- acc. to German calibration law
- integral air eliminator
- overflow tube (copper) to prevent overpressures, recommended as well for use in non visible aereas
- PTB approval / German Govt. Specification
- especially designed to dispense engine or gear oils (max. viscosity 90 SAE)
- Designed for use in conjunction with distribution lines up to 70 m. We recommend the installation of an overflow valve (19 648 ,16 bar or 19 506, 20 bar)
- can be easily combined with several hose reels
- completely assembled and mounted on a steel plate for wall-mounting
- recommended accessories: suction hose (19 512), suction tube (19 522 / 19 523 / 19 523 001)



19 285 030





# Construction Kit For Fresh Oil Supply



19 235 951

Article no.

## PNEUMATIC OIL PUMPS, ACC. TO GERMAN CALIBRATION LAW

Article no.	Description	Technical data
19 235 951	Pneumatic oil pump, 3:1, SRL 860, to suit 200/220 l container	connection, pressure side: G 1/2" male retention adapter: G 2" male, to suit metal container
19 265 951	Pneumatic oil pump, 3:1, SRL 1200 mm, for mounting on tanks	airline connection: G 1/4" female
19 266 951	Pneumatic oil pump, 3:1, SRL 1500 mm, for mounting on tanks	<b>Specification</b> <ul style="list-style-type: none"> <li>• acc. to German calibration law</li> <li>• integral air eliminating foot valve</li> <li>• suction tube, G 3/4" male</li> <li>• PTB approval / German Govt. Specification</li> <li>• especially designed to dispense engine or gear oils (max. viscosity 90 SAE)</li> <li>• Designed for use in conjunction with distribution lines up to 70 m. We recommend the installation of an overflow valve (19 648, 16 bar or 19 506, 20 bar)</li> <li>• can be easily combined with several hose reels</li> </ul>



19 285 951

19 285 951	Pneumatic oil pump, 3:1, set, 860 mm suction tube, for wall-mounting	<b>Technical data</b> connection, pressure side: G 1/2" male retention adapter: G 2" male, to suit metal container airline connection: G 1/4" female  <b>Specification</b> <ul style="list-style-type: none"> <li>• acc. to German calibration law</li> <li>• integral air eliminating foot valve</li> <li>• suction tube, 90° connecting angle, G 3/4" male</li> <li>• suction hose, 2 m, G 3/4" female/male</li> <li>• wall-mounting bracket</li> <li>• PTB approval / German Govt. Specification</li> <li>• especially designed to dispense engine or gear oils (max. viscosity 90 SAE)</li> <li>• Designed for use in conjunction with distribution lines up to 70 m. We recommend the installation of an overflow valve (19 648, 16 bar or 19 506, 20 bar)</li> <li>• can be easily combined with several hose reels</li> </ul>
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**PNEUMATIC OIL PUMPS, COMPLETE INSTALLATION SETS**

**Technical data**

connection,  
pressure side: G 1/2" male  
retention adapter: G 2" male, to suit  
metal container  
airline connection: to suit Rectus  
coupling, type 26  
NW: 7,2 mm

**Specification**

- suction tube, G 3/4" male
- air maintenance unit (20 218 950)
- compressed-air hose, 2 m, with male adapter to suit female Rectus quick release airline connector type 26
- oil discharge hose, 2 m, G 1/2" male/female and lever ball valve, G 1/2" female to connect directly to a fixed oil discharge installation
- Designed for use in conjunction with distribution lines up to 70 m. We recommend the installation of an overflow valve (19 648, 16 bar or 19 506, 20 bar)
- with all adapters required for assembly

**Pneumatic oil installation pump set, 3:1**

**SRL 860, to suit 200/220 l container**

**19 235 600**

**SRL 860 to suit 200/220 l container, with integral air eliminating foot valve**  
acc. to German calibration law

**19 235 601**

**SRL 1200, for mounting on tanks**

**19 265 600**

**SRL 1200, for mounting on tanks, with integral air eliminating foot valve**  
acc. to German calibration law

**19 265 601**

**Technical data**

connection,  
pressure side: G 1/2" male  
retention adapter: G 2" male, to suit  
metal container  
airline connection: to suit Rectus  
coupling, type 26  
NW: 7,2 mm

**Specification**

- suction tube, 90° connecting angle, G 3/4" male
- wall-mounting bracket
- suction hose, 2 m, G 3/4" female/male, to connect suction tube/pneumatic pump
- oil discharge hose, 2 m, G 1/2" male/female and lever ball valve, G 1/2" female to connect directly to a fixed oil discharge installation
- air maintenance unit (20 218 950) and compressed-air hose, 2 m, with male adapter to suit female Rectus quick release airline connector type 26
- Designed for use in conjunction with distribution lines up to 70 m. We recommend the installation of an overflow valve (19 648, 16 bar or 19 506, 20 bar).
- with all adapters required for assembly

**Pneumatic oil installation pump set, 3:1**

**SRL 1200, for wall-mounting**

**19 285 600**

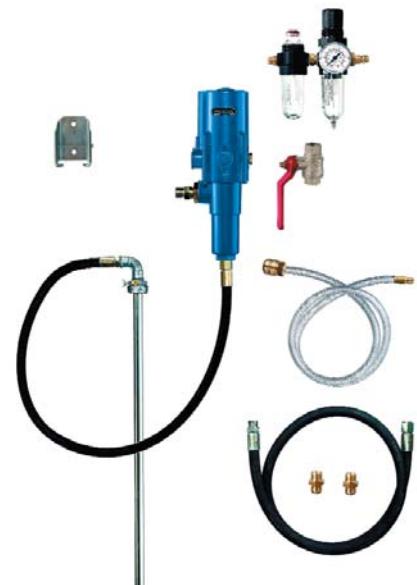
**SRL 1200, for wall-mounting, with integral air eliminating foot valve**  
acc. to German calibration law

**19 285 601**

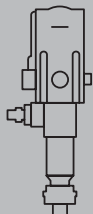
Article no.



19 235 600



19 285 600



# Construction Kit For Fresh Oil Supply

Article no.

## 12 PNEUMATIC OIL PUMPS 5:1 - DOUBLE ACTING

### PNEUMATIK OIL PUMPS



19 305

19 305

**Pneumatic oil pump, 5:1,  
double-acting**

**SRL 570, to suit 60 l container**

19 335

**SRL 860, to suit 200/220 l container**

19 365

**SRL 1200, for mounting on tanks**

19 366

**SRL 1500, for mounting on tanks**

#### Technical data

connection,  
pressure side: G 1/2" male  
retention adapter: G 2" male, to suit  
metal container  
airline connection: G 1/4" female

#### Specification

- double-acting pump, providing a continuous oil flow
- suction tube, G 3/4" male
- especially designed to dispense engine-, hydraulic- or gear oils (max. viscosity 140 SAE)
- Designed for use in conjunction with distribution lines up to 70 m. We recommend the installation of an overflow valve (19 648, 16 bar or 19 506, 20 bar).
- can be easily combined with several hose reels



19 385

19 385

**Pneumatic oil pump, 5:1,  
double-acting, for wall-mounting**

#### Technical data

connection,  
suction side: G 3/4" male  
connection,  
pressure side: G 1/2" male  
airline connection: G 1/4" female

#### Specification

- double-acting pump, providing a continuous oil flow
- fluid outlet with integral back-flow valve
- especially designed to dispense engine or gear oils (max. viscosity 90 SAE)
- Designed for use in conjunction with distribution lines up to 70 m. We recommend the installation of an overflow valve (19 648, 16 bar or 19 506, 20 bar).
- can be easily combined with several hose reels
- recommended accessories: suction hose (19 512), wall-mounting bracket (19 521), suction tube (19 522 / 19 523 / 19 523 001)

**PNEUMATIC OIL PUMPS, ACC. TO GERMAN CALIBRATION LAW**

**Technical data**

connection,  
 pressure side: G 1/2" male  
 retention adapter: G 2" male, to suit  
 metal container  
 airline connection: G 1/4" female

**Pneumatic oil pump, 5:1,  
 double-acting,**

**SRL 860 mm,  
 to suit 200/220 l container**

Article no.

**19 335 951**

**Specification**

- double-acting pump, providing a continuous oil flow
- acc. to German calibration law
- integral air eliminating foot valve
- suction tube, G 3/4" male
- especially designed to dispense engine-, hydraulic- or gear oils (max. viscosity 140 SAE)
- Designed for use in conjunction with distribution lines up to 70 m. We recommend the installation of an overflow valve (19 648, 16 bar or 19 506, 20 bar).
- can be easily combined with several hose reels

**SRL 1200, for mounting on tanks**

**19 365 951**

**SRL 1500, for mounting on tanks**

**19 366 951**



19 335 951

**Technical data**

connection,  
 pressure side: G 1/2" male  
 retention adapter: G 2" male, to suit  
 metal container  
 airline connection: G 1/4" female

**Pneumatic oil pump, 5:1,  
 double-acting, for wall-mounting  
 SRL 860**

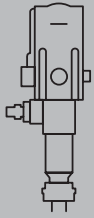
**19 385 951**

**Specification**

- double-acting pump, providing a continuous oil flow
- acc. to German calibration law
- integral air eliminating foot valve
- suction tube, G 3/4" male
- 2 m suction hose, G 3/4" female/male
- fluid outlet with integral back-flow valve
- wall-mounting bracket
- especially designed to dispense engine-, hydraulic- or gear oils (max. viscosity 140 SAE)
- Designed for use in conjunction with distribution lines up to 70 m. We recommend the installation of an overflow valve (19 648, 16 bar or 19 506, 20 bar).
- can be easily combined with several hose reels



19 385 951



# Construction Kit For Fresh Oil Supply

Article no.

## PNEUMATIC OIL PUMPS, COMPLETE INSTALLATION SETS

**Pneumatic oil installation pump set, 5:1, double-acting**

**Technical data**

connection, pressure side: G 1/2" male  
retention adapter: G 2" male, to suit metal container  
airline connection: to suit Rectus coupling, type 26  
NW: 7,2 mm

19 335 600

**SRL 860, to suit 200/220 l container**

19 335 601

**SRL 860, to suit 200/220 l container, with integral air eliminating foot valve acc. to German calibration law**

**Specification**

- double-acting pump, providing a continuous oil flow
- suction tube, G 3/4" male
- air maintenance unit (20 218 950)
- compressed-air hose, 2 m, with male adapter to suit female Rectus quick release airline connector type 26
- oil discharge hose, 2 m, G 1/2" male/female and lever ball valve, G 1/2" female, to connect directly to a fixed oil discharge installation
- Designed for use in conjunction with distribution lines up to 70 m. We recommend the installation of an overflow valve (19 648, 16 bar or 19 506, 20 bar).
- with all adapters required for assembly

19 365 600

**SRL 1200, for mounting on tanks**

19 365 601

**SRL 1200, for mounting on tanks with integral air eliminating foot valve acc. to German calibration law**



19 335 600



19 335 601

**Technical data**

connection,  
pressure side: G 1/2" male  
retention adapter: G 2" male, to suit  
metal container  
airline connection: to suit Rectus  
coupling, type 26  
NW: 7,2 mm

**Specification**

- double-acting pump, providing a continuous oil flow
- suction tube, 90° connecting angle, G 3/4" male
- suction hose, 2 m, G 3/4" female/male, to connect suction tube/pneumatic pump
- oil discharge hose, 2 m, G 1/2" male/female and lever ball valve, G 1/2" female to connect directly to a fixed oil discharge installation
- air maintenance unit (20 218 950)
- compressed-air hose, 2 m, with male adapter to suit female Rectus quick release airline connector type 26
- wall-mounting bracket
- Designed for use in conjunction with distribution lines up to 70 m. We recommend the installation of an overflow valve (19 648, 16 bar or 19 506, 20 bar).
- with all adapters required for assembly

**Pneumatic oil installation pump set, 5:1, double-acting**

**SRL 860, for wall-mounting**

**SRL 860, for wall-mounting, with integral air eliminating foot valve acc. to German calibration law**

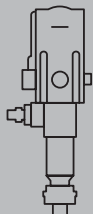
Article no.

**19 385 600**

**19 385 601**



19 385 600



# Construction Kit For Fresh Oil Supply

Article no.

## ACCESSORIES TO SUIT PNEUMATIC OIL PUMPS 3:1 AND 5:1

19 518

**Pressure equalising pulsator**  
G 1/2" female, G 1/2" female

**Technical data**  
connections: G 1/2"  
female/female

### Specification

- recommended for installation in conjunction with long distribution lines and to prevent damages caused by overpressures based on high differences of ambient temperatures
- provides a continuous flow of oil
- protects oil flow meters



19 518

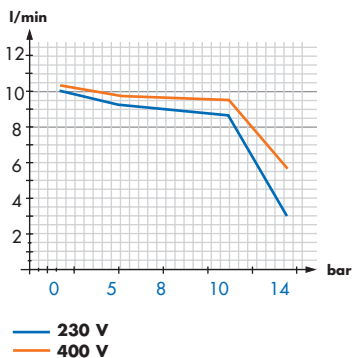


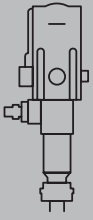
**13 ELECTRIC OIL PUMPS**

Our electric oil pumps are especially designed to dispense engine- or gear oil (max. viscosity 90 SAE). You can choose between standard versions and versions designed acc. to German calibration laws.

The use in conjunction with several hose reels is not restricted.

Article no.	23 337	23 321	23 321 030	23 322	23 322 030
calibratable			•		•
not calibratable	•	•		•	
Voltage 230 V	•	•	•		
Voltage 400 V				•	•
Power consumption 1,7 A				•	•
Power consumption 5,5 A	•	•	•		
Torque 2 Nm	•	•	•		
Torque 3,5 Nm				•	•
Delivery pressure 10 bar	•	•	•		
Delivery pressure 16 bar				•	•
Connction, suction side 3/4"	•	•	•	•	•
Connection, pressure side 1/2"	•	•	•	•	•
General application	Pump for dispensing of engine- and hydraulic oils from original barrels or tanks.				
Classical application	Pump for mounting on container or tanks		Pump for mounting on container or tanks. Pump is designed to be used in conjunction with distribution lines up to 70 m, depending on diameter of the tube used.		
Viscosity of medium	Oils up to SAE 90				
Classical medium	Engine- and gearoil				
Testing data	Testing medium: SAE 15 W40 Temperature of the testmedium: 20 °C Suction line: 1 m, G 3/4" Discharge line: 1 m, G 1/2"				
Discharge time for a 200 l container	20 min.				





# Construction Kit For Fresh Oil Supply

Article no.

## ELECTRIC OIL PUMPS

23 337

**Oil pump 10 l/min**  
230 V, 1~AC, 50 Hz, EU-plug

### Technical data

dimensions pump  
LWH (mm): 310 x 195 x 205  
weight of motor  
and pump unit (kg): 13  
connecting cable: 1,8 m  
connection,  
suction side: G 3/4" male  
connection,  
pressure side: G 1/2" male

### hydraulic data

pump design: gear wheel pump,  
selfpriming  
delivery rate: 10 l/min  
delivery pressure: 10 bar  
suction height: 3,5 m  
Flow media: oils up to SAE 90

### motor data

voltage: 230 V  
frequency: 50 Hz  
power consumption: 5,5 A  
power: 0,5 KW  
thermoprotection: Self-resetting  
duty cycle: Permanent  
operation  
torque: 2 Nm  
speed: 1450 U/min  
construction version: IMB3  
protection: IP 54

### Specification

- not calibratable
- adjustable by-pass (pre-set at 7 bar)
- with ventilation valve
- according to TRBF
- on/off- switch, 1,8 m cable with EU-plug

### Remarks

- pump for montage on tank or barrel



23 337

**Technical data**

dimensions pump  
LWH (mm): 310 x 320 x 205  
weight of motor  
and pump unit (kg): 13  
connecting cable: 1,8 m  
connection,  
suction side: G 3/4" male  
connection,  
pressure side: G 1/2" male  
  
hydraulic data  
pump design: Gear wheel pump,  
selfpriming  
suction height: 3,5 m  
flow media: Oils up to SAE 90

motor data  
frequency: 50 Hz  
thermoprotection: Self-resetting  
duty cycle: Permanent  
operation  
construction version: IMB3  
protection: IP 54

**Specification**

- not calibratable
- adjustable by-pass (pre-set at 7 bar)
- with ventilation valve
- according to TRBF
- on/off- switch, 1,8 m cable with EU-plug

**Remarks**

- pump for montage on tank or barrel
- pump can be used for tube installations up to 70 m, depending on dimension of discharge tube
- recommended accessories for wall mounting:  
(19 512 and 19 522, 19 523, 19 523 001)

**Oil pump 10 l/min, set, NEF**  
230 V, 1~AC, 50 Hz, EU-plug  
Power consumption: 5,5 A  
Torque: 2 Nm  
Delivery pressure: 10 bar

**Oil pump 10 l/min, set, NEF**  
400 V, 3~AC  
Power consumption: 1,7 A  
Torque: 3,5 Nm  
Delivery pressure: 16 bar

Article no.

**23 321**

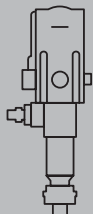


23 321

**23 322**



23 322



# Construction Kit For Fresh Oil Supply

Article no.

## ELECTRIC OIL PUMPS

23 321 030

**Oil pump 10 l/min, set, EF**  
230 V, 1~AC, 50 Hz, EU-plug  
Power consumption: 5,5 A  
Torque: 2 Nm  
Delivery pressure: 10 bar  
calibratable

### Technical data

dimensions pump  
LWH (mm): 310 x 320 x 205  
weight of motor  
and pump unit (kg): 13  
connecting cable:  
1,8 m  
connection,  
suction side: G 3/4" male  
connection,  
pressure side: G 1/2" male

23 322 030

**Oil pump 10 l/min, set, EF**  
400 V, 3~AC  
Power consumption: 1,7 A  
Torque: 3,5 Nm  
Delivery pressure: 16 bar  
calibratable

### hydraulic data

pump design: Gear wheel pump,  
selfpriming  
delivery rate: 10 l/min  
suction height: 3,5 m  
flow media: Oils up to SAE 90

### motor data

power: 0,5 KW  
frequency: 50 Hz  
thermoprotection: Self-resetting  
duty cycle: Permanent  
operation  
construction version: IMB3  
protection: IP 54

### Spezifikation

- calibratable acc. to German govt. specification
- air eliminating valve
- adjustable by-pass, overflow valve with external back-flow hose 2 m
- with ventiating valve
- according to TRBF acc. to German norm
- on/off- switch, diaphragm switch, 1,8 m calbe

### Remarks

- pump for montage on tank or wall
- pump can be used for tube installations up to 70 m, depending on dimension of discharge tube
- recommended accessories for wall mounting:  
(19 512 and 19 522, 19 523, 19 523 001)



23 321 030



23 322 030

**14 TROLLEYS TO SUIT OIL BARRELS AND ACCESSORIES**

**Specification**

- robust high quality trolley, easy to handle and quiet running
- two wheels
- rubber retaining strap (17 000)
- hose storage rack

**Trolley** to suit 5, 10, 15, 25, 50 kg container

Article no.

**17 008**



17 008

**Technical data**

length: 770 mm

**Rubber retaining strap** to suit trolley (17 008)

**17 000**

17 000



**Specification**

- robust highest quality trolley, easy to handle and quiet running
- three wheels
- single wheel locking mechanism
- hose storage rack
- suitable for mounting of hose reels, electric oil pumps or pneumatic pumps
- drip-tray integrated on the handle, with a drain screw and removable strainer

**Trolley** to suit 200 kg container

**17 009**



17 009

**Specification**

- three wheels
- single wheel locking mechanism
- control gun storage bracket with drip-tray

**Trolley** to suit 200 kg container

**17 009 390**



17 009 390

**Specification**

- three wheels
- single wheel locking mechanism
- suitable for mounting of hose reels
- control gun storage bracket with drip-tray

**Trolley** to suit 200 kg container

**17 009 950**



17 009 950

**Technical data**

dimension, LWH: 500 x 500 x 750  
load: maximum 60 kg  
lacquering: Pantone 294c, blue satin

**Trolley** to suit 5 - 60 kg metal and plastic container

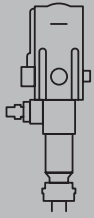
**17 008 950**

**Specification**

- two wheels with stabilising post and hand grip to move
- stabilising bracket with 2" drum adapter
- drip-tray
- dust cap



17 008 950



# Construction Kit For Fresh Oil Supply

Article no.

## 15 ACCESSORIES FOR INSTALLATION OF FIXED OIL PIPE WORK

### FLEXIBLE METAL HOSES



19 666

19 666

Flexible metal hose

0,5 m, G 3/4" female,  
G 3/4" female, 0,4 kg

Technical data

length: 0,5 m

inside diameter

of hose: 20 mm

material of metal

flexible hose: high-alloyed steel  
(X6 CrNiTi 1810) with  
high-alloyed steel braid

Specification

- acc. to TRBF 231 T1 (German norm)
- to connect oil pumps with pipework in non-visible areas
- swivel nuts on both hose ends

19 668

0,5 m, G 1/2" female,  
G 1/2" female, 0,25 kg



19 580 001

19 580 001

Flexible connecting oil hose

0,5 m, G 1/2" female,  
G 1/2" female

Technical data

connection 1: G 1/2" female with 60°  
sealing cone,  
quadrant pipe

connection 2: G 1/2" female with 60°  
sealing cone

hose inside diameter: 12 mm

operating pressure: 100 bar

Specification

- to connect pneumatic oil pumps with pipework
- swivel nuts on both hose ends

19 580

1,5 m, G 1/2" female,  
G 1/2" female



19 550

19 550

Discharge hose for oil  
1,5 m, G 3/4" female,  
G 3/4" female

Technical data

length: 1,5 m

connection 1: G 3/4" female

connection 2: G 3/4" female, with  
90° angle

hose inside diameter: 20 mm

operating pressure: 105 bar

Specification

- to connect pneumatic oil pumps with pipework
- swivel nuts on both hose ends
- acc. to DIN 20 022 (EN 853)

### LEVER BALL VALVES



19 762

19 762

Lever ball valve

G 1/2" female, G 1/2" female

Technical data

connections: G 1/2" female

inside diameter: 12 mm

body length: 63 mm

operating pressure: 60 bar

material: nickelized brass

medium: oils, air

<b>Technical data</b>	connections: G 3/4" female inside diameter: 20 mm body length: 57 mm operating pressure: 30 bar material: nickelized brass medium: oils, air	<b>Lever ball valve</b> <b>G 3/4" female, G 3/4" female</b>	Article no. <b>19 763</b>
<b>RETENTION ADAPTERS</b>			
<b>Technical data</b>	connection 1: R 1/2" male, DIN 2999 connection 2: G 1/2" male, inside cone inside diameter: 12 mm opening of the spanner: 26 mm material: galvanized steel	<b>Adapter</b> <b>R 1/2" male, G 1/2 " male</b>	<b>19 619</b>
<b>Technical data</b>	connection 1: G 1/2" male, 60° inside cone connection 2: G 3/4" male, inside cone inside diameter: 12 mm opening of the spanner: 32 mm material: brass	<b>Adapter</b> <b>G 1/2" male, G 3/4" male</b>	<b>19 636</b>
<b>Technical data</b>	connection 1: R 3/4" male, DIN 2999 connection 2: G 3/4" male, inside cone inside diameter: 16 mm opening of the spanner: 30 mm material: galvanized steel	<b>Adapter</b> <b>R 3/4" male, G 3/4 " male</b>	<b>19 637</b>
<b>Technical data</b>	connection 1: G 1" female connection 2: G 3/4" male inside diameter: 18 mm length: 56,3 mm material: galvanized cast steel	<b>Retention nipple</b> <b>G 1" female, G 3/4" male</b>	<b>19 627</b>
<b>Technical data</b>	connection 1: G 1 1/4" female connection 2: G 3/4" male inside diameter: 18 mm length: 60,4 mm material: galvanized cast steel	<b>Retention nipple</b> <b>G 1 1/4" female, G 3/4" male</b>	<b>19 629</b>



19 763



19 619



19 636



19 637

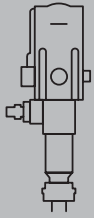


19 627



19 629





# Construction Kit For Fresh Oil Supply



Article no.

## IN-LINE FILTERS

	In-line filter	Technical data
19 760	G 1/2" female, G 1/2" female, inside diameter: 12 mm	sieve mesh size: 0,5 mm operating pressure: 16 bar material: brass medium: oil
19 761	G 3/4" female, G 3/4" female, inside diameter: 20 mm	
19 769	G 1" female, G 1" female, inside diameter: 25 mm	

## CONNECTING SETS



19 640

19 640	Pipe work connecting set G 1" male	<b>Specification</b> <ul style="list-style-type: none"> <li>to connect oil pumps with pipework in non-visible areas</li> <li>acc. to German govt. specifications (TRBF 231 T1)</li> <li>retention adapter, G 1" female, G 3/4" male (19 627)</li> <li>lever ball valve, G 3/4" female, G 3/4" female (19 763)</li> <li>connecting nipple, G 3/4" male, G 3/4" male (19 637)</li> <li>flexible metal pipework connection, G 3/4" female, 0.5 m (19 666)</li> <li>adapter, G 3/4" male, with 60° sealing cone, G 1/2" female (87 965)</li> </ul>
19 641	Pipe work connecting set G 1 1/4" male	<b>Specification</b> <ul style="list-style-type: none"> <li>to connect oil pumps with pipework in non-visible areas</li> <li>acc. to German govt. specifications (TRBF 231 T1)</li> <li>retention adapter, G 1 1/4" female, G 3/4" male (19 629)</li> <li>lever ball valve, G 3/4" female, G 3/4" female (19 763)</li> <li>connecting nipple, G 3/4" male, G 3/4" male (19 637)</li> <li>flexible metal pipework connection, G 3/4" female, 0.5 m (19 666)</li> <li>adapter, G 3/4" male, with 60° sealing cone, G 1/2" female (87 965)</li> </ul>

**Specification**

- to connect pipework with a hose reel or a flexible oil discharge hose
- retention adapter, G 1" female, G 3/4" male (19 627)
- lever ball valve, G 3/4" female, G 3/4" male (19 778)
- inline oil filter G 3/4" female, G 3/4" female (19 761)
- connecting nipple, G 1/2" male, G 3/4" male (19 636)

**Pipe work connecting set  
G 1" male**

Article no.  
**19 642**



19 642

**Specification**

- to connect pipework with a hose reel or a flexible oil discharge hose
- retention adapter, G 1 1/4" female, G 3/4" male (19 629)
- lever ball valve, G 3/4" female, G 3/4" male (19 778)
- inline oil filter G 3/4" female, G 3/4" female (19 761)
- connecting nipple, G 1/2" male, G 3/4" male (19 636)

**Pipe work connecting set  
G 1 1/4" male**

**19 643**



19 643

**OVERFLOW VALVES**

**Technical data**

connection: G 1/2" female

**Overflow valve**

**16 bar  
20 bar**

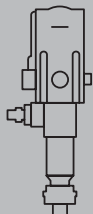
**Specification**

- for installation in conjunction with pipe work, G 1/2" female, on the delivery side of a pump
- prevents pressure built-up
- copper pipe, 2 m, for flow back of overpressurized liquid into the container

**19 506  
19 648**



19 648



# Construction Kit For Fresh Oil Supply

Article no.

## 16 DISCHARGE HOSES FOR OIL



19 561

19 561

### Discharge hoses for oil

1 m, G 1/2" female,  
G 1/2" male

19 562

2 m, G 1/2" female,  
G 1/2" male

19 563

3 m, G 1/2" female,  
G 1/2" male

19 564

4 m, G 1/2" female,  
G 1/2" male

19 565

5 m, G 1/2" female,  
G 1/2" male

19 568

8 m, G 1/2" female,  
G 1/2" male

19 570

10 m, G 1/2" female,  
G 1/2" male

19 575

15 m, G 1/2" female,  
G 1/2" male

### Technical data

connection 1: G 1/2" female 60° with cone

connection 2: G 1/2" male 60° with cone

hose inside

diameter: 12 mm

operating

pressure: 100 bar

### Specification

- acc. to DIN 20 022



19 580 001

19 580 001

### Flexible connecting oil hose

0,5 m, G 1/2" female,  
G 1/2" female

19 580

1,5 m, G 1/2" female,  
G 1/2" female

### Technical data

connection 1: G 1/2" female with 60° sealing  
cone, quadrant pipe

connection 2: G 1/2" female with 60° sealing  
cone

hose inside

diameter: 12 mm

operating

pressure: 100 bar

### Specification

- to connect pneumatic oil pumps with pipework
- swivel nuts on both hose ends



19 669

19 669

### Hose storage rack

large size

### Technical data

dimension, LWH: 348 x 144 x 257

weight: 1,3 kg

material: aluminium die casting

### Specification

- for wall-mounting

## 17 HOSE REELS

### Product features

- Complete with 1 m connecting hose G 1/2" female.
- Outstanding robustness and compact design.
- All steel parts are washed, phosphatised, coated and lacquered (Guide arm: RAL 7040 window grey satin, Drum: Pantone 294c blue satin, Cover: RAL 7040 window grey satin, Wall-mounting bracket: Pantone 294c blue satin).
- High-quality surface-treatment of all steel parts ensures high corrosion resistance.
- The axis diameter of die casting parts is 40 mm. If loads to be absorbed are predefined, dimensions selected by our engineers ensure almost unlimited lifecycle.
- Selected pairs of axis and bearing materials are maintenance-free.
- Suitable for wall, floor and mounting on ceilings.
- Easy assembly: It is not necessary to hold the weight of the hose reel while mounting.
- Ball bearings on any hinge joints.
- High pressures in the supply system do not influence the power needed for hinge joint rotation.
- With hose stop.
- By 90° turning the hose can be engaged.

### Abbreviations

- D** Ceiling mounting  
**GDA** Encased, swivel joint situated outside  
**GDI** Encased, swivel joint situated inside  
**O** Open  
**WB** Wall- and ceiling mounting

### HOSE REELS FOR OIL

#### OPEN, FOR WALL-/FLOOR-MOUNTING

Technical data		Hose reel, oil, set
dimension, LWH:	472 x 152 x 498	
connection, discharge hose:	G 1/2" male	O, WB, 120 bar, DN 12, <b>10 m</b> , (17,5 kg)
length of connection, hose:	1000 mm	
connection, connecting hose:	G 1/2" female	O, WB, 120 bar, DN 12, <b>15 m</b> , (19,5 kg)
inside diameter of hose:	DN 12	
operating pressure:	120 bar	

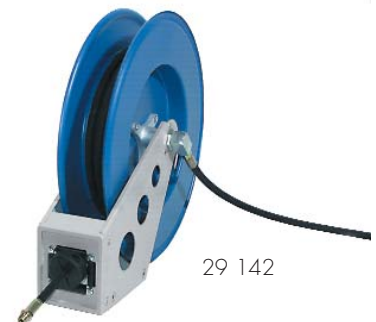
#### OPEN, FOR MOUNTING ON CEILINGS

Technical data		Hose reel, oil, set
dimension, LWH:	475 x 158 x 520	
connection, discharge hose:	G 1/2" male	O, D, 120 bar, DN 12, <b>10 m</b> , (21,1 kg)
length of connecting hose:	1000 mm	
connection, connecting hose:	G 1/2" female	O, D, 120 bar, DN 12, <b>15 m</b> , (23,1 kg)
inside diameter of hose:	DN 12	
operating pressure:	120 bar	

Article no.

**29 142**

**29 143**



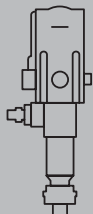
29 142

**29 152**

**29 153**



29 152



# Construction Kit For Fresh Oil Supply

Article no.

## HOSE REELS

### ENCASED, FOR WALL-/FLOOR-MOUNTING, OUTSIDE SWIVEL



29 172

**29 172**

GDA, WB, 120 bar, **10 m**,  
(24,1 kg)

**29 173**

GDA, WB, 120 bar, **15 m**,  
(26,1 kg)

#### Technical data

dimension, LWH: 495 x 158 x 508  
connection,  
discharge hose: G 1/2" male  
length of  
connecting hose: 1000 mm  
connection,  
connecting hose: G 1/2" female  
inside diameter  
of hose: DN 12  
operating pressure: 120 bar

### ENCASED, FOR WALL-/FLOOR-MOUNTING, INSIDE SWIVEL



29 162

**29 162**

GDI, WB, 120 bar, DN 12, **10 m**,  
(24,5 kg)

**29 163**

GDI, WB, 120 bar, DN 12, **15 m**,  
(26,5 kg)

#### Technical data

dimension, LWH: 495 x 170 x 508  
connection,  
discharge hose: G 1/2" male  
length of  
connecting hose: 1000 mm  
connection,  
connecting hose: G 1/2" female  
inside diameter  
of hose: DN 12  
operating pressure: 120 bar

### ENCASED, FOR MOUNTING ON CEILINGS, OUTSIDE SWIVEL



29 192

**29 192**

GDA, D, 120 bar, DN 12, **10 m**,  
(24,3 kg)

**29 193**

GDA, D, 120 bar, DN 12, **15 m**,  
(26,3 kg)

#### Technical data

dimension, LWH: 495 x 158 x 520  
connection,  
discharge hose: G 1/2" male  
length of  
connecting hose: 1000 mm  
connection,  
connecting hose: G 1/2" female  
inside diameter  
of hose: DN 12  
operating pressure: 120 bar

### ENCASED, FOR MOUNTING ON CEILINGS, INSIDE SWIVEL



29 182

**29 182**

GDI, D, 120 bar, DN 12, **10 m**,  
(23,9 kg)

**29 183**

GDI, D, 120 bar, DN 12, **15 m**,  
(25,9 kg)

#### Technical data

dimension, LWH: 495 x 170 x 520  
connection,  
discharge hose: G 1/2" male  
length of  
connecting hose: 1000 mm  
connection,  
connecting hose: G 1/2" female  
inside diameter  
of hose: DN 12  
operating pressure: 120 bar

**HOSE REELS - COMPLETE INSTALLATION SETS**

**Technical data**

dimension, LWH: 472 x 152 x 498  
 hose length: 10 m  
 connection,  
 discharge hose: G 1/2" male  
 length of  
 connecting hose: 1000 mm  
 connection,  
 connecting hose: G 1/2" female  
 inside diameter  
 of hose: DN 12  
 operating pressure: 120 bar

**Specification**

- hose reel (29 142)
- for installation in conjunction with oil discharge pipework (connection threads, reduced to G 1/2" male)
- hose stop
- connecting hose, 1 m
- in-line filter, G 1/2" female
- lever ball valve, G 1/2" female
- all adapters required for assembly

**Hose reel, oil, set**

O, WB, 120 bar, DN 12, **10 m**

**with oil control valve**  
(19 718)

**with digital hose end meter**  
(19 707 950)

**with mechanical hose end meter**  
(19 723)

**with mechanical pre-set hose end meter**  
(19 724)

**with digital hose end meter, oval gears, acc. to German calibration law**  
(19 709)

Article no.

29 142 600

29 142 601

29 142 602

29 142 603

29 142 604



29 142 601

**Technical data**

dimension, LWH: 472 x 152 x 498  
 hose length: 15 m  
 connection,  
 discharge hose: G 1/2" male  
 length of  
 connecting hose: 1000 mm  
 connection,  
 connecting hose: G 1/2" female  
 inside diameter  
 of hose: DN 12  
 operating pressure: 120 bar

**Specification**

- hose reel (29 143)
- for installation in conjunction with oil discharge pipework (connection threads, reduced to G 1/2" male)
- hose stop
- connecting hose, 1 m
- in-line filter, G 1/2" female
- lever ball valve, G 1/2" female
- all adapters required for assembly

**Hose reel, oil, set**

O, WB, 120 bar, DN 12, **15 m**

**with standard oil control valve**  
(19 718)

**with digital hose end meter**  
(19 707 950)

**with mechanical hose end meter**  
(19 723)

**with mechanical pre-set hose end meter**  
(19 724)

**with digital hose end meter, oval gears, acc. to German calibration law**  
(19 709)

29 143 600

29 143 601

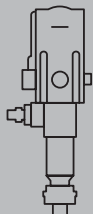
29 143 602

29 143 603

29 143 604



29 143 602



# Construction Kit For Fresh Oil Supply

Article no.

## HOSE REELS - COMPLETE INSTALLATION SETS

### Hose reel, oil, set

GDA, WB, 120 bar, DN 12, 10 m

### Technical data

dimension, LWH: 495 x 158 x 508

hose length: 10 m

connection, discharge hose: G 1/2" male

length of connecting hose: 1000 mm

connection, connecting hose: G 1/2" female

inside diameter of hose: DN 12

operating pressure: 120 bar

### with oil control valve

(19 718)

### with digital hose end meter

item No.19 707 950)

### with mechanical hose end meter

(19 723)

### with mechanical pre-set hose end meter

(19 724)

### with digital hose end meter, oval gears,

acc. to German calibration law

(19 709)

### Specification

- hose reel (29 172)
- for installation in conjunction with oil discharge pipework (connection threads, reduced to G 1/2" male)
- hose stop
- connecting hose, 1 m
- in-line filter, G 1/2" female
- lever ball valve, G 1/2" female
- all adapters required for assembly

### Hose reel, oil, set

GDA, WB, 120 bar, DN 12, 15 m

### Technical data

dimension, LWH: 495 x 158 x 508

hose length: 15 m

connection, discharge hose: G 1/2" male

length of connecting hose: 1000 mm

connection, connecting hose: G 1/2" female

inside diameter of hose: DN 12

operating pressure: 120 bar

### with oil control valve

(19 718)

### with digital hose end meter

item No.19 707 950)

### with mechanical hose end meter

(19 723)

### with mechanical pre-set hose end meter

(19 724)

### with digital hose end meter, oval gears,

acc. to German calibration law

(19 709)

### Specification

- hose reel (29 173)
- for installation in conjunction with oil discharge pipework (connection threads, reduced to G 1/2" male)
- hose stop
- connecting hose, 1 m
- in-line filter, G 1/2" female
- lever ball valve, G 1/2" female
- all adapters required for assembly



29 172 601



29 173 602



**ACCESSORIES TO SUIT HOSE REELS**

**Technical data**

dimension, LWH: 170 x 105 x 220  
 swivel range: 2 x 45°  
 weight: 1,8 kg  
 material: steel  
 lacquering: Pantone 294c,  
 blue satin

**Wall-mounting,**

90° swivel bracket

**Specification**

- wall-mounted swivel bracket to suit all types of hose reels

Article no.

**29 930**



29 930

**Technical data**

colour : RAL 8001 brown  
 material: Polyamide

**Hose stop 1/2"**

**Specification**

- for hoses of 18.5 mm outside diameter
- suitable for oil hoses

**29 978**



29 978

**Technical data**

material: steel  
 lacquering: RAL 7040 window  
 grey satin

**Control gun and meter storage bracket,**

for one gun only  
 (170 x 170 x 650 mm), 2,3 kg

**Specification**

- drip tray with a drain screw and removable strainer
- for wall-mounting

**29 980**



29 980

**Control gun and meter storage bracket,**

for two guns  
 (340 x 170 x 650 mm), 4,1 kg

**29 981**

**Technical data**

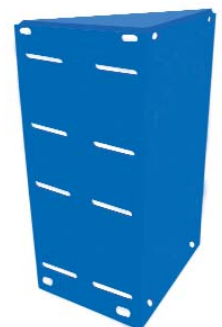
lacquering: Pantone 294c,  
 blue satin  
 material: steel

**Angle bracket for installation**

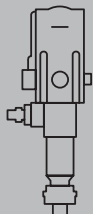
**Specification**

- suits for lateral installation of a hose reel (e.g. in garage service pits)

**29 940**



29 940



# Construction Kit For Fresh Oil Supply

Article no.

## 18 CONTROL VALVES AND METERS



19 718

19 718

**Oil control valve,  
with swivel**  
G 1/2" female

### Technical data

connection: G 1/2" female  
operating pressure: 60 bar  
material: metal

### Specification

- angled dispensing spout
- automatic anti-drip nozzle
- manual switch-off



19 706

19 706

**Pre-set digital hose  
end meter**  
oval gears

### Technical data

dimension, LWH: 486 x 112 x 87  
connection: G 1/2" female  
medium: lubricating oils  
flow rate: 1 – 30 l/min  
nominal pressure: 60 bar  
temperature range: 0 °C to +50 °C  
casing material: aluminium die casting  
measuring tolerance: ± 0,5 %  
repetition tolerance: ± 0,2 %  
display 1: LCD partial value display,  
4 digits  
display 2: LCD total value display,  
6 digits, can be reset to zero  
weight: 1,5 kg  
dispensing: by means of manual  
operation or with pre-set rate  
batteries: 4 pieces, 1.5 VAA

### Specification

- automatic shut-off
- can be pre-set within the range of 0.1 - 99.9 l
- different units of measurement are selectable
- rigid discharge spout
- angled automatic anti-drip nozzle
- swivel, G 1/2" female

**Technical data**

connection: G 1/2" female  
 medium: lubricating oils  
 flow rate: 0 – 28 l/min  
 viscosity: 8 - 2000 mPa s  
 nominal pressure: 70 bar  
 temperature range: - 10 °C to +50 °C  
 casing material: aluminium die casting  
 tolerance: ± 0,5 %  
 repetition tolerance: ± 0,3 %  
 weight: 1,58 kg  
 display: digital, with three digits and two decimal digits  
 batteries: lithium 1/2 AA  
 battery lifecycle: 7 years / 400,000 l flow rate

**Specification**

- manual shut-off
- manual anti-drip nozzle
- rubber protection guard ring
- swivel, G 1/2" female

**Remarks**

Other measurable media, as e.g. antifreeze or liquids for windscreen cleaning, upon request.

**Digital hose end meters**

oval gears

**with oil discharge hose, with 90° angled metal spout**  
 manual anti-drip nozzle

**with angled dispensing spout**  
 automatic anti-drip nozzle

Article no.

**19 707**

**19 707 950**



19 707

19 707 950

**Technical data**

connection: G 1/2" female  
 medium: lubricating oils  
 flow rate, calibrated: 0 - 10 l/min  
 flow rate, without calibration: 0 – 30 l/min  
 viscosity: 8 - 2000 mPa s  
 nominal pressure: 70 bar  
 temperature range: - 10 °C to +50 °C  
 casing material: aluminium die casting  
 tolerance: ± 0,3 %  
 repetition tolerance: ± 0,3 %  
 weight: 1,65 kg  
 display: digital, with three digits and two decimal digits  
 batteries: lithium 1/2 AA  
 battery lifecycle: 7 years / 400,000 l flow rate

**Specification**

- acc. to German calibration law
- precalibration certificate
- angled discharge nozzle
- automatic shut-off valve

**Remarks**

Other measurable media, as e.g. antifreeze or liquids for windscreen cleaning, upon request.

**Digital hose end meter**

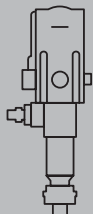
oval gears, BADGER, acc. to German calibration law

Design acc. to Austrian calibration law (19 709 135)

**19 709**



19 709



# Construction Kit For Fresh Oil Supply

Article no.

## CONTROL VALVES AND METERS

**Mechanical hose end meters**, oscillating piston, BADGER

### Technical data

connection: G 1/2" female  
media: mineral oils and free-flow greases, SAE 5-50 motor oil, gear oil, SAE 80-240

19 714

**with discharge hose**  
manual anti-drip nozzle

viscosity: 50 – 5000 mPa s  
flow rate: 1,5 – 15 l/min

19 723

**with straight discharge nozzle**  
automatic anti-drip nozzle

pressure loss at max. flow rate: 2 bar  
temperature range: - 10 °C to +50 °C  
max. pressure: 70 bar

19 724

**mechanical pre-set, 0 - 60 l**  
rigid discharge nozzle, automatic anti-drip nozzle

casing material: aluminium die casting  
measuring tolerance: ± 0,5 %  
display 1: 1/10 l, can be reset to zero  
display 2: 1 l, can be reset to zero  
total sum: counted in litres and resets automatically to zero at 999 999 l  
weight: 1,6 kg

### Specification

- swivel, G 1/2" female
- anti-drip nozzle



19 714



19 723



19 724



19 735

19 735

**Mechanical hose end meter**  
oscillating piston, Siemens, acc. to German calibration law

### Technical data

connection: G 1/2" female, DIN ISO 228/1  
media: lubricating oils and other measured substances within the viscosity range  
viscosity: 8 bis 2000 mPa s  
flow rate: 1 – 15 l/min

flow rate in case of calibration: 10 l/min  
limit of error: ± 0,3 % des Istwerts

temperature limit of measured substances: max. 40 °C  
permitted ambient temperature: 10 - 50 °C

nominal pressure: 40 bar

nominal pressure during calibration: 16 bar

casing material: zinc die casting  
display 1: 1/100 l, can be reset to zero

display 2: 1/10 l, can be reset to zero  
total sum: counted in litres and resets automatically to zero at 999 999 l

weight: 1,8 kg

### Specification

- acc. to German calibration law
- swivel, 1/2" female
- automatic anti-drip nozzle
- precalibration certificate

**IN-LINE INSTALLATION METERS FOR OIL**

**Technical data**

connection: G 1/2" female  
 medium: lubricating oils  
 flow rate, calibrated: 0 - 10 l / min  
 flow rate,  
 without calibration: 0 - 30 l / min  
 viscosity: 8 – 2000 m Pa s  
 nominal pressure: 70 bar  
 temperature range: - 10 °C to +50 °C  
 casing material: aluminium die casting  
 tolerance: ± 0,3 %  
 repetition tolerance: ± 0,3 %  
 weight: 0,65 kg  
 display: digital, with three digits and  
 two decimal digits  
 batteries: lithium 1/2 AA  
 battery lifecycle: 7 years / 400,000 l  
 flow rate

**Specification**

- acc. to German calibration law
- precalibration certificate

**Remarks**

Other measurable media, as e.g. antifreeze or liquids for windscreen cleaning, upon request.

**Digital in-line installation meter**

oval gears, BADGER, acc. to German calibration law

Design acc. to Austrian calibration law (19 710 135)

Article no.

**19 709 952**



19 709 952

**Technical data**

connection: G 1/2" female  
 medium: lubricating oils  
 flow rate: 0 - 35 l / min  
 viscosity: 8 – 2000 mPa s  
 nominal pressure: 70 bar  
 temperature range: - 10 °C to +50 °C  
 casing material: aluminium die casting  
 tolerance: ± 0,5 %  
 repetition tolerance: ± 0,3 %  
 weight: 0,65 kg  
 display: digital, with three digits and  
 two decimal digits  
 batteries: lithium 1/2 AA  
 battery lifecycle: 7 years / 400,000 l  
 flow rate

**Remarks**

Other measurable media, as e.g. antifreeze or liquids for windscreen cleaning, upon request.

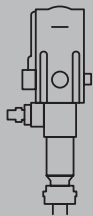
**Digital in-line installation meter**

oval gears

**19 702**



19 702



# Construction Kit For Fresh Oil Supply

Article no.

## CONTROL VALVES AND METERS

### IN-LINE INSTALLATION METER FOR OIL

19 729

**Mechanical in-line installation meter**  
oscillating piston, BADGER

**Technical data**

connection: G 1/2" female  
media: mineral oils and free-flow greases, SAE 5-50 motor oil, SAE 80-240 gear oil  
viscosity: 50 – 5000 mPa s  
flow rate: 0 – 15 l/min  
pressure loss at max. flow rate: 2 bar  
temperature range: - 10 °C to +70 °C  
max. pressure: 70 bar  
casing material: aluminium die casting  
measuring tolerance: ± 0,5 %  
display 1: 1/10 l, can be reset to zero  
display 2: 1 l, can be reset to zero  
total sum: counted in litres and resets automatically to zero at 999 999 l  
weight: 1,0 kg



19 729

### ACCESSORIES TO SUIT CONTROL VALVES AND METERS

19 616

**Rotating swivel**  
G 1/2" female,  
G 1/2" male

**Technical data**

connection 1: G 1/2" female  
connection 2: G 1/2" male  
length: 51,8 mm  
nominal pressure: 70 bar  
material: galvanized steel

**Specification**

- to suit hose end meters and control valves



19 616

19 715

**Wall-mounted drip tray**  
steel

**Technical data**

dimension, LWH: 270 x 130 x 50  
material: galvanized sheet steel

**Specification**

- discharge tap

19 715

19 721

**Rubber protection guard ring**

**Specification**

- to suit hose end meters (19 714, 19 723 and 19 724)



19 721

19 740

**Dispensing spout,**  
G 1/2" male,  
M 16 x 1 female  
**straight**

**Technical data**

connection 1: G 1/2" male  
connection 2: M 16 x 1 female  
outside diameter: 21 mm

19 740








19 741

19 741

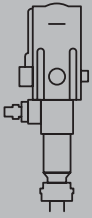
**30° angled**

19 742

**90° angled**

<b>Technical data</b>	connection: G 1/2" male	<b>Dispensing spout, 90° curved</b> G 1/2" male, with anti-drip nozzle	Article no. <b>19 743</b>	
<b>Specification</b>	<ul style="list-style-type: none"> <li>• automatic anti-drip nozzle</li> <li>• for gear oils</li> </ul>			19 743
<b>Technical data</b>	length: 270 mm connection 1: G 1/2" male connection 2: G 1/4" male	<b>Discharge hose, 270 mm</b> G 1/2" male, G 1/4" male	<b>19 745</b>	
<b>Specification</b>	<ul style="list-style-type: none"> <li>• to suit anti-drip nozzle (19 748)</li> <li>• acc. to DIN 20 021 (EN 854)</li> </ul>			19 745
<b>Technical data</b>	length of hose: 270 mm connection: G 1/2" male hose material: PVC	<b>Discharge hose, Ø 10 mm</b> G 1/2" male, anti-drip nozzle	<b>19 746</b>	
<b>Specification</b>	<ul style="list-style-type: none"> <li>• manual anti-drip nozzle</li> <li>• 90° angled discharge spout</li> </ul>			19 746
<b>Technical data</b>	connection: M 16 x 1 male outside diameter: 20 mm	<b>Anti-drip nozzle</b> M 16 x 1 male, Ø 20 mm	<b>19 747</b>	
<b>Specification</b>	<ul style="list-style-type: none"> <li>• automatic shut-off</li> </ul>			19 747
<b>Technical data</b>	connection: G 1/4 " female outside diameter: 12 mm	<b>Anti-drip nozzle</b> G 1/4" female	<b>19 748</b>	
<b>Specification</b>	<ul style="list-style-type: none"> <li>• manual shut-off</li> <li>• to suit discharge hoses (19 745)</li> </ul>			19 748
<b>Technical data</b>	connection: G 1/2" female	<b>Visual inspection glass</b> G 1/2" female	<b>19 711</b>	
<b>Specification</b>	<ul style="list-style-type: none"> <li>• to suit hose end meter acc. to German calibration law (19 735)</li> </ul>			19 711
<b>Technical data</b>	connection 1: G 1/2" female connection 2: G 1/2" a	<b>Visual inspection glass</b> G 1/2" female, G 1/2" male	<b>19 709 954</b>	
<b>Specification</b>	<ul style="list-style-type: none"> <li>• for suit hose end meter (19 709) and in-line installation meter acc. to German calibration law (19 709 952)</li> <li>• not pressure resistant</li> </ul>			19 709 954





# Construction Kit For Fresh Oil Supply

## 19 OIL MONITORING SYSTEMS

Servicing a car any garage meets two main problems when changing oils or liquids:

1. The high losses of media: Acc. to statistical investigations any garage does not invoice between 10 and 30 % of purchased liquids every year.
2. Problems of an effective stock-control and stock-administration of the liquids dispensed.

Especially the first fact can cause financial, mostly underestimated losses, which are mainly based on not authorised or not invoiced dispenses of liquids.

Our Oil Monitoring System designed to suit any size of garage and to follow any individual requirement of our customers offers an ideal solution to secure controlled access and to achieve product accountability and profit centre protection. The investment will certainly - depending on your annual consumption - be payed back in a short time.

The PRESSOL Oil Monitoring System is as well available in versions acc. to German or Austrian calibration laws.

The PRESSOL Oil Monitoring System is a versatile fluid management system. Its modular design allows the product to be used to cover applications from a small single access keypad controlled system incorporating the minimum amount of system hardware, through to a multi-dispense point, multi access, P.C. linked system. The system can be operated by use of the oil supply control unit only. (For Version 36 402 see separate information.)

Datas can be achieved, restored an exported into the main workshop computer.  
For printing we recommend any standard printer.

We recommend our Oil Monitoring System to be utilized especially in medium and large size garages. The level entry consists of one alphanumerical access keypad, network linked to one control unit, controlling up to 8 (4) dispensing points each of which could be a different product/grade or the same product/grade. The system upgrades easily to control up to 64 (32) dispensing points working simultaneously with multi-access keypads. Up to 8 (4) control units can be utilized a large size garage.

The PRESSOL Oil Monitoring System 36 402 is designed especially to suit small size garages and to suit installations not beeing linked to a work shop computer.

A transaction printer, the power supply unit, the data-entry keypad and a LED display are opposite to the standard Oil Monitoring Systems incorporated.

The system controlles up to 4 dispensing points each of which could be a different product/grade or the same product/grade.

(Figures in brackets relate to systems designed acc. to German or Austrian calibration law.)

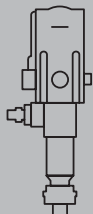
## ADVANTAGES OF THE PRESSOL OIL MONITORING SYSTEM

<ul style="list-style-type: none"> <li>• 100 % control of any, even of non invoiced consumption. A consumption without registration is impossible. Simultaneous operation on different dispensing points.</li> </ul>	<b>1. EFFECTIVITY</b>
<ul style="list-style-type: none"> <li>• Effective daily, monthly and annually administration and statistics for any transaction             <ul style="list-style-type: none"> <li>– Hose report (usage and totals)</li> <li>– Product report (usage and totals)</li> <li>– User report (usage and totals)</li> <li>– All transactions (usage and totals)</li> </ul> </li> <li>• Print of transaction tickets of any usage showing the date and the time of transaction, the quantity of product dispensed and the stock level remaining.</li> <li>• Effective stock-control, stock administration and statistics of any liquid dispensed</li> <li>• Report review by job number for different grades against the same job number and from one date to another (PC level only).</li> <li>• Historic report by licence plate number (PC level only)</li> <li>• System configuration details for records and amendments and after sales service.</li> </ul>	<b>2. ACCOUNTABILTY</b>
<ul style="list-style-type: none"> <li>• Highly efficient and easy to handle.</li> <li>• Especially when utilized in large garages with long distances to go an installation of a data-entry keypad operated by the responsible mechanic at each service place will be profitable.</li> </ul>	<b>3. FASTNESS</b>
<ul style="list-style-type: none"> <li>• Only responsible people authorised by a PIN No. or by a magnetic stripe card (optional) can dispense liquids.</li> <li>• All data are stored even in case of power failiure.</li> <li>• Stock level of each product tank with minimum stock level. When especially configurated and automatic warning will be provided in case a low level.</li> </ul>	<b>4. SECURITY</b>

## TECHNICAL DATA

(Figures in brackets relate to systems designed acc. to German or Austrian calibration law.)

<b>Network:</b>	<b>Two wires can bus network communication</b>
<b>Power Supply:</b>	<b>24 VDC voltage, power supply units included in the system (210 – 240 VAC, 50/60 Hz single phase)</b>
<b>System Storage:</b>	<b>Battery based RAM storage with max. capacity of 1900 transactions</b>
<b>Print of Reports:</b>	<b>Utilising an external standard printer with max. 80 characters/line Utilising an integral printer with max. 40 charakters/line (36 402 only)</b>
<b>System Data of Standard Oil Monitoring System:</b>	<b>max. 8 ( 4 ) control units per system max. 64 ( 32 ) data entry keypads per system max. 64 ( 32 ) solenoid valves and pulstransmitters per system max. 8 ( 4 ) liquids to be dispensed per system max. 99 user PIN No. per system</b>
<b>System Data of 36 402:</b>	<b>max. 4 ( 2 ) control units per system max. 4 ( 2 ) solenoid valves and pulstransmitters per system max. 4 ( 2 ) liquids to be dispensed per system max. 99 user PIN No. per system</b>



# Construction Kit For Fresh Oil Supply

Article no.

## OIL MONITORING SYSTEMS

### MDS 2000



36 100

36 100

Control unit, MDS 2000

**Specification**

- connections for:  
8 pulse transmitters (different oils),  
8 solenoid valves,  
8 data entry keyboards



36 110

36 110

Data entry keyboard, MDS 2000

**Technical data**

power supply: 24 VDC

**Specification**

- membrane keyboard
- serial printer connection
- alphanumeric data entry system



36 120

36 120

Power supply unit  
MDS 2000

**Technical data**

input: 230 VAC  
output: 24 VDC



36 130

36 130

LCD large character remote display,  
MDS 2000

**Technical data**

LCD-display: 56 mm,  
5 digits,  
1 decimal digits

**Specification**

- for wall-mounting



36 140

36 140

PC interface card, MDS 2000

**Specification**

- incl. master management software  
to suit Windows
- not suitable for Windows NT



36 150

36 150

Solenoid valve, MDS 2000  
G 1/2" female, G 1/2" female

**Technical data**

pressure range: 0 - 40 bar  
power supply: 24 VDC, 8 Watt  
connections: G 1/2" female  
inside diameter: 10 mm

<p><b>Technical data</b></p> <p>pulses / liter: 100  max. pressure: 70 bar  connections: G 1/2" female  flow rate: 0 - 30 l / min  power supply: 6 -24 V  media: lubricating oils</p> <p><b>Specification</b></p> <ul style="list-style-type: none"> <li>reed switch</li> </ul> <p>Remarks  Other measurable media, as e.g. antifreeze or liquids for windscreen cleaning, upon request.</p>	<p><b>Pulse transmitter, MDS 2000</b>  G 1/2" female, G 1/2" female</p>
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Article no.  
**36 160**



36 160

<p><b>Specification</b></p> <ul style="list-style-type: none"> <li>serial interface</li> <li>Epson emulation</li> <li>to suit any MDS 2000 system</li> </ul>	<p><b>Printer, Epson LX 300</b></p>
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**36 170**



36 170

**MDS 2000, ACC. TO GERMAN CALIBRATION LAW**

<p><b>Specification</b></p> <ul style="list-style-type: none"> <li>acc. to German calibration law</li> <li>connections for:  1 - 4 pulse transmitters (different oils),  4 double solenoid valves,  4 data entry keyboards</li> </ul>	<p><b>Control unit, MDS 2000</b>  Design acc. to Austrian calibration law  (36 200 135)</p>
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**36 200**



36 200

<p><b>Technical data</b></p> <p>power supply: 24 V</p> <p><b>Specification</b></p> <ul style="list-style-type: none"> <li>acc. to German calibration law</li> <li>membrane keyboard</li> <li>serial printer connection</li> <li>alphanumeric data entry system</li> </ul>	<p><b>Data entry keyboard, MDS 2000</b>  Design acc. to Austrian calibration law  (36 210 135)</p>
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**36 210**



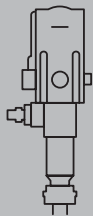
36 210

<p><b>Technical data</b></p> <p>input: 230 VAC  output: 24 VDC</p>	<p><b>Power supply unit</b>  MDS 2000</p>
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**36 220**

36 220





# Construction Kit For Fresh Oil Supply

Article no.

## OIL MONITORING SYSTEMS



36 230

36 230

**LCD large character remote display, MDS 2000**

Design acc. to Austrian calibration law (36 230 135)

**Technical data**

LCD-display: 56 mm,  
5 digits,  
2 decimal digits

**Specification**

- acc. to German calibration law
- for wall-mounting



36 240

36 240

**PC interface card, MDS 2000**

Design acc. to Austrian calibration law (36 240 135)

**Specification**

- acc. to German calibration law
- incl. master management software to suit Windows
- not suitable for Windows NT



36 250

36 250

**Double block solenoid valve, acc. to German calibration law MDS 2000, G 3/4" female, G 3/4" female**

Design acc. to Austrian calibration law (36 250 135)

**Technical data**

pressure range: 0 - 50 bar  
power supply: 24 VDC  
connections: G 3/4" female  
inside diameter: 10 mm

**Specification**

- acc. to German calibration law
- flow control valve
- directly controlled



36 260

36 260

**Control unit, MDS 2000**

acc. to German calibration law, G 1/2" female, G 1/2" female

Design acc. to Austrian calibration law (36 260 135)

**Technical data**

pulses / liter: 200  
max. pressure: 70 bar  
connections: G 1/2" female  
flow rate: 0 - 10 l/min  
power supply: 6 - 24 V  
media: lubricating oils

**Specification**

- acc. to German calibration law

**Remarks**

Other measurable media, as e.g. antifreeze or liquids for windscreen cleaning, upon request.



36 170

36 170

**Printer, Epson LX 300 MDS 2000**

**Specification**

- serial interface
- Epson emulation
- to suit any MDS 2000 systems

**OIL MONITORING SYSTEMS**

**Specification**

- stand alone unit
- for 1-4 fluid dispense points
- integral printer, 40 column
- RS 232 port for a serial A4 printer
- processing via graphic display
- large character display
- configuration via PC
- alphanumeric data entry keyboard

**Oil monitoring system,**

1-4 fluid dispense points,  
with a printer

Article no.

**36 402**



36 402

**20 OIL BAR**

**Technical data**

dimension, LWH: 497 x 470 x 650  
 connection: G 1/2" male  
 NW: 12 mm  
 lacquering: RAL 7040, window grey satin

**Oil bar,** fluid dispense point  
for wall-mounting

**19 810**



19 810

**Specification**

- suitable for use with a 5:1 pneumatic pump or an electric pump with a pressure reduction valve
- to be operated in conjunction with fixed pipework installation
- for installation of max. 3 fluid dispense points
- drip tray with removable grid
- to refill oil measures
- dispensing tap (19 812)

**ACCESSORIES**

**Technical data**

adapter: G 1/2" male  
 NW: 12 mm

**Dispensing tap for oil bar**

**19 812**

**Specification**

- for use in conjunction with oil bar (19 810)



19 812

**Technical data**

length: 1,5 m  
 connection 1: G 1/2" female with 60° sealing cone, quadrant pipe  
 connection 2: G 1/2" female with 60° sealing cone  
 hose inside diameter: 12 mm  
 operating pressure: 100 bar

**Flexible connecting oil hose**

1,5 m, G 1/2" female,  
G 1/2" female

**19 580**

**Specification**

- to connect pneumatic oil pumps with pipework
- swivel nuts on both hose ends



19 580

## Waste Oil Disposal

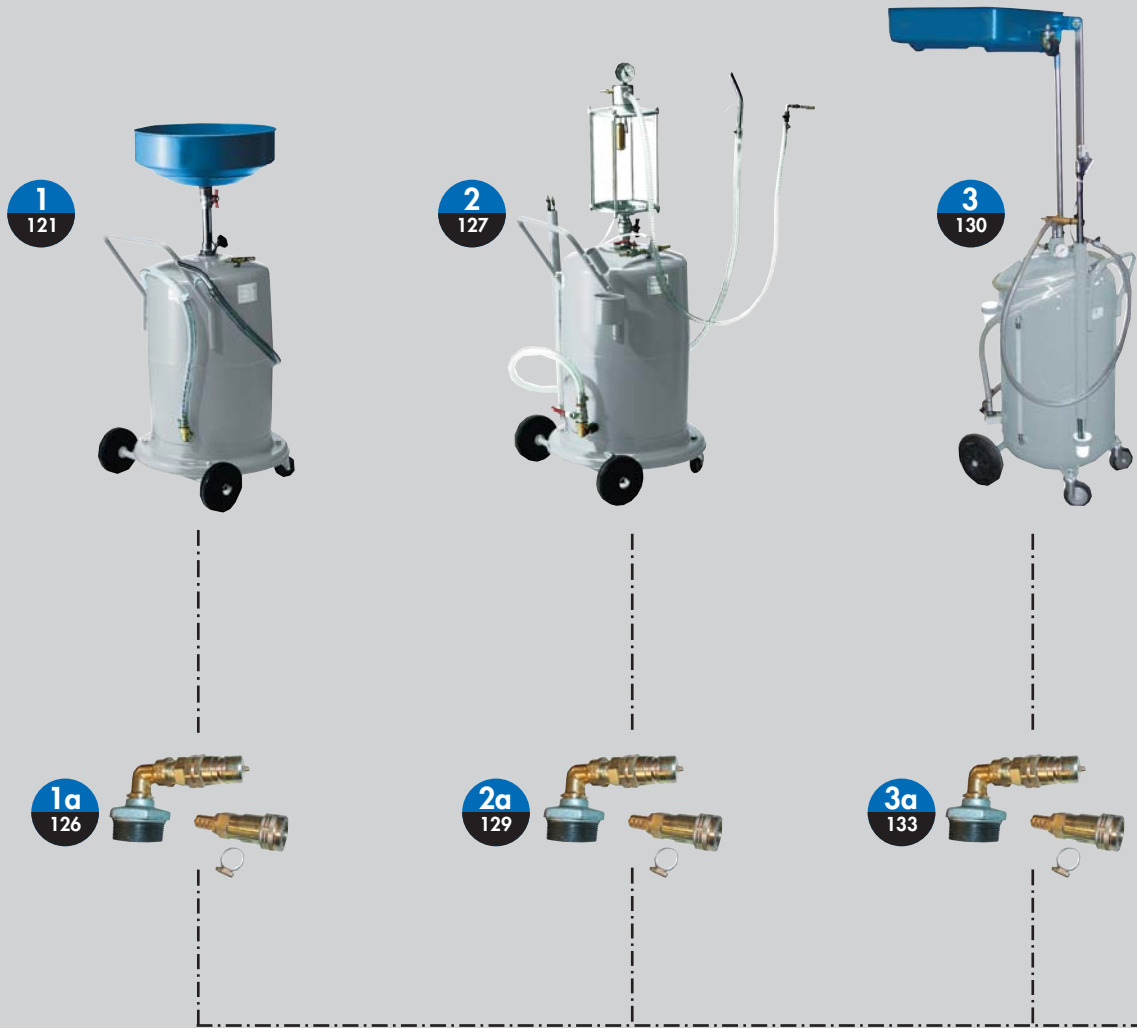


*Your Disposal Will Be  
Quick, Clean  
And Reliable ...*





# Waste Oil Disposal



## Explanation of Signs

- 1** — Chapter
- 121** — Page



4  
134



5  
135



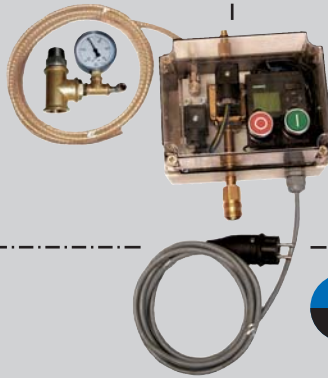
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144



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142



10  
146

## WASTE OIL DRAINERS AND SUCTION UNITS

- The units are manufactured according to the German government specifications for pressurized containers (max. pressure 0,5 bar to drain a waste oil unit).
- Designed for the use with waste oils of known origin hazard class A III not exceeding the flashpoint temperature of 55 °C.
- The units are not designed to be utilized with liquids hazard class A I, A II or B (explosives).
- Container: 1,5 mm sheet steel.
- With metal protecting cover to avoid damages on container.
- Lacquered with oil resistant environmental safe paint.
- With two heavy duty fixed rear wheels and two castor wheels at the front.
- With sturdy hand grip.
- With adjustable drain bowl or drain tray.
- With detachable metal strainer and a fixed strainer.
- Attention:  
Please observe your local regulation if a waste oil drainer or a waste oil suction unit will be drained by using a fixed installation pipe work.

### 1

## WASTE OIL DRAINERS

### Technical data

diameter of drain bowl:	420 mm
volume of drain bowl:	18 l
discharge :	gravity discharge tap
lacquering:	container RAL 7040, window grey satin, drain bowl Pantone 294c, blue satin

### Media:

For waste oils of hazard class A III of known origin, with flash points higher than 55 °C; not applicable for liquids of hazard class A I, A II, B;

### Specification

- visual level indicator
- gravity discharge tap
- 2 fixed rear wheels, 2 castor front wheels
- waste oil drain bowl with drain grill
- sturdy handle

### Remarks

It is recommended to use an overflow protection valve if the waste oil drainers shall be discharged into a waste oil collecting tank by using a fixed pipe-work installation. Please adhere to regional regulations and guidelines of your country.

### Mobile waste oil drainer, with a gravity discharge tap

**75 l**  
(LWH: 600 x 580 x 1150)  
telescopic tube of drain bowl:  
1180 mm – 1750 mm

**95 l**  
(LWH: 600 x 580 x 1310)  
telescopic tube of drain bowl:  
1340 mm – 1910 mm

Article no.

**27 030**

**27 030 890**



27 030



# Waste Oil Disposal



27 035

Article no.

## WASTE OIL DRAINERS

	<b>Mobile waste oil drainer, with oil discharge connector</b>	<b>Technical data</b>
<b>27 035</b>	<b>75 l</b> (LWH: 600 x 580 x 1150) telescopic tube of drain bowl: 1180 mm – 1750 mm	diameter of drain bowl: 420 mm volume of drain bowl: 18 l adapter, discharge: female quick release connector, size 4, G 3/4" to connect with waste oil suction system (19 800)
<b>27 035 890</b>	<b>95 l</b> (LWH: 600 x 580 x 1310) telescopic tube of drain bowl: 1340 mm – 1910 mm	lacquering: container RAL 7040, window grey satin, drain bowl Pantone 294c, blue satin

### Media:

For waste oils of hazard class A III of known origin, with flash points higher than 55 °C; not applicable for liquids of hazard class A I, A II, B.

### Specification

- female quick release connector, size 4, G 3/4" (19 774)
- visual level indicator
- 2 fixed rear wheels, 2 castor front wheels
- drain bowl with drain grill
- sturdy handle

### Remarks

It is recommended to use an overflow protection valve if the waste oil drainers shall be discharged into a waste oil collecting tank by using a fixed pipe-work installation. Please adhere to regional regulations and guidelines of your country.

Article no.

**Technical data**

diameter of drain bowl: 420 mm  
 volume of drain bowl: 18 l  
 airline connection : to suit Rectus coupling,  
 type 26  
 NW: 7,2 mm  
 discharge: via 1:1 pneumatic oil  
 pump  
 connection, discharge: female quick release  
 connector, size 4,  
 G 3/4"  
 lacquering: container RAL 7040,  
 window grey satin,  
 drain bowl  
 Pantone 294c,  
 blue satin

**Media:**

For waste oils of hazard class A III of known  
 origin, with flash points higher than 55 °C;  
 not applicable for liquids of hazard class A I,  
 A II, B.

**Specification**

- visual level indicator
- 1:1 pneumatic oil pump for waste oil discharge,  
 male quick release adapter G1/4", NW 7,2,  
 (20 062)
- lever ball valve
- dispensing hose, 2 m, with a female  
 quick release connector, type 4, G 3/4"  
 (19 770); an independent female quick release  
 connector, size 4, G 3/4" (19 774), is included  
 enabling the unit to be connected to a fixed  
 pipe-work installation leading to a waste oil tank
- 2 fixed rear wheels, 2 castor front wheels
- drain bowl with drain grill
- sturdy handle

**Remarks**

It is recommended to use an overflow  
 protection valve if the waste oil drainers shall  
 be discharged into a waste oil collecting tank  
 by using a fixed pipe-work installation. Please  
 adhere to regional regulations and guidelines  
 of your country.

**Mobile waste oil drainer,**  
 with 1:1 pneumatic oil pump

**75 l**  
 (LWH: 600 x 580 x 1150)  
 telescopic tube of drain bowl:  
 1180 mm – 1750 mm

**95 l**  
 (LWH: 600 x 580 x 1310)  
 telescopic tube of drain bowl:  
 1340 mm – 1910 mm

**27 040**

**27 040 890**



27 040



# Waste Oil Disposal



27 070

Article no.

## WASTE OIL DRAINERS

27 070

**Mobile waste oil drainer,**  
with air pressurised oil  
evacuation

**75 I**

(LWH: 600 x 580 x 1150)  
telescopic tube of drain bowl:  
1180 mm – 1750 mm

**Technical data**

diameter of  
drain bowl: 420 mm  
volume of drain bowl: 18 l  
discharge : using compressed air  
airline connection: to suit Rectus coupling,  
type 26  
NW: 7,2 mm  
lacquering: container RAL 7040  
window grey satin,  
drain bowl Pantone 294c,  
blue satin

27 070 890

**95 I**

(LWH: 600 x 580 x 1310)  
telescopic tube of drain bowl:  
1340 mm – 1910 mm

**Media:**

For waste oils of hazard class A III of known  
origin, with flash points higher than 55 °C; not  
applicable for liquids of hazard class A I, A II, B.

**Specification**

- pre-set (0.5 bar) pressure regulator with safety valve
- male quick release adapter G1/4", NW 7,2, (20 062)
- lever ball valve, transparent dispensing hose with a metal dispensing spout, 2 m
- 2 fixed rear wheels, 2 castor front wheels
- drain bowl with drain grill
- lever ball valve to shut-off manually the telescopic tube when discharging
- sturdy handle
- air pressurised oil evacuation

**Remarks**

It is recommended to use an overflow protection valve if the waste oil drainers shall be discharged into a waste oil collecting tank by using a fixed pipe-work installation. Please adhere to regional regulations and guidelines of your country.

## ACCESSORIES

19 770



19 770

**Female quick release  
connector**  
size 4, G 3/4" female

**Technical data**

connection 1: size 4  
connection 2: G 3/4" female  
inside diameter: 20 mm  
wrench width: 34 mm  
temperature range: - 25 °C to +125 °C  
sealing material: NBR  
max. pressure: 250 bar  
material: galvanized high-tensile steel

**Specification**

- to suit female quick release connector, size 4 (19 774)

Article no.

**Technical data**

connection 1: size 4  
 connection 2: G 3/4" female  
 inside diameter: 20 mm  
 wrench width: 34 mm  
 temperature range: - 25 °C to +125 °C  
 Maximum pressure: 250 bar  
 material: galvanized high-tensile steel

**Female quick release connector**

size 4, G 3/4" female

**19 774**



19 774

**Specification**

- to suit female quick release connector, size 4 (19 770)

**Technical data**

connection 1: G 1" male  
 connection 2: G 1" female

**Angled tube with rotating swivel**

G 1" male,  
 G 1" female

**27 985**



27 985

**Specification**

- to suit any waste oil drainers with drain bowl
- to convert a fixed drain bowl into a swiveling one

**Technical data**

max. height: 700 mm  
 diameter of drain bowl: 420 mm  
 volume of drain bowl: 18 l  
 connection: retention adapter G 2" male  
 lacquering: Pantone 294c, blue satin

**Drain bowl with fixed tube**

retention adapter  
 G 2" male

**27 988**



27 988

**Specification**

- level indicator with G 3/4" male screw connection
- length of tube 790 mm
- drain bowl with drain grill
- to suit containers with G 2" female connection

**Remarks**

When using a 200 /220 l container:  
 telescoping height of drain bowl is 1150 to 1850 mm.

**Technical data**

dimension LWH: 463 x 263 x 100  
 volume: 15 l  
 connection: G 1" male  
 lacquering: Pantone 294c, blue satin

**Rectangular drain tray**

G 1" male

**27 989**



27 989

**Specification**

- to suit any waste oil drainers of article group 27
- with drain grill





# Waste Oil Disposal



19 857

Article no.

## LEVEL OIL DRAINER

19 857

**Level oil drainer**  
mobile, 95 l

### Technical data

dimension LWH: 1500 x 750 x 260  
 volume: 95 l  
 connection,  
 discharge 1: female quick release connector,  
 size 4, G 3/4"  
 discharge 2: gravity discharge tap  
 lacquering: Pantone 294c, blue satin

### Specification

- mobile
- gravity discharge tap
- rolls under lorries, busses, etc.
- to suit a female quick release connector, size 4, G 3/4" female (19 770)
- For discharge we recommend the use of waste oil suction system (19 800)

## 1a CONNECTING SETS FOR DIRECT DRAINAGE



27 966

27 966

**Installation set to suit waste oil collecting tank**  
female quick release connector, G 3/4"

### Technical data

connection 1: G 2" male retention adapter  
 connection 2: female quick release connector, size 4, G 3/4" female

### Specification

- for use in conjunction with waste oil drainers and suction units with air pressurised evacuation or discharge by means of a pneumatic oil pump
- compatible with 27 967
- female quick release connector, size 4 (19 774)
- retention adapter (19 418)

27 967

**Installation set to suit waste oil drainers to be mounted on dispensing hose**

### Technical data

connection 1: female quick release connector, size 4  
 connection 2: dispensing hose inside diameter 19 mm

### Specification

- for mounting on dispensing hose
- for use in conjunction with waste oil drainers and suction units by means of pressure or a pneumatic oil pump
- compatible with 27 966
- female quick release connector, size 4 (19 770)
- hose nozzle, G 3/4" male (02 803)
- hose clip (20 156)



27 967

**2 WASTE OIL SUCTION UNITS**

**Technical data**

2 airline connections: to suit Rectus coupling, type 26  
 recommended air pressure: 6 bar  
 suction volume, based on a complete vacuum: 45 - 50 l  
 vacuum generation: 3 - 4 min  
 Ø 5 mm suction probe performance: 1,0 - 1,5 l/min  
 Ø 6 mm suction probe performance: 2,0 - 2,5 l/min  
 Ø 8 mm suction probe performance: 3,5 - 4,0 l/min  
 oil temperature, min. 70 °C  
 container lacquering: RAL 7040, window grey satin

**Media:**

For waste oils of hazard class A III of known origin, with flash points higher than 55 °C; not applicable for liquids of hazard class A I, A II, B;

**Specification**

- Vacuum is generated in the container by means of compressed air Venturi system
- pressure/vacuum gauge, for indication of pressure and vacuum level
- oil extraction directly through the dipstick tube
- level indicator
- overpressure safety valve, set at 0.5 bar, with a pressure reduction valve
- male quick release adapter G 1/4", NW 7.2, (20 062), lever ball valve
- overflow protection valve (vacuum interruption)
- suction hose, 2 m, with a spiral spring
- suction probes, Ø 5/6/8 mm
- with adapters to suit BMW, Mercedes, VW and Audi
- suction probe storage tube
- sturdy handle
- transparent discharge hose, 2 m, with a metal discharge spout, lever ball valve
- 2 fixed rear wheels, 2 castor front wheels
- air pressurized oil evacuation

**Remarks**

It is recommended to use an overflow protection valve if the waste oil drainers shall be discharged into a waste oil collecting tank by using a fixed pipe-work installation. Please adhere to regional regulations and guidelines of your country.

**Venturi waste oil suction unit, mobile**

**75 l**  
(LWH: 600 x 580 x 930)

**75 l, with visual inspection reservoir, 7 l**  
(LWH: 600 x 580 x 1360)

**95 l**  
(LWH: 600 x 580 x 1090)

**95 l, with visual inspection reservoir, 7 l**  
(LWH: 600 x 580 x 1520)

Article no.

**27 622**

**27 632**

**27 622 890**

**27 632 890**



27 622



27 632



# Waste Oil Disposal

Article no.

## WASTE OIL SUCTION UNITS

19 782

**Venturi oil suction probe extraction unit, 24 l**  
mobile



19 782

### Technical data

dimension LWH:	380 x 380 x 950
container volume:	24 l
airline connection:	to suit Rectus coupling, type 26
recommended air pressure:	6 bar
suction volume, based on a complete vacuum:	8 - 12 l
vacuum generation:	1 - 2 min
performance	
Ø 5 mm suction probe:	1,0 - 1,5 l/min
Ø 6 mm suction probe:	2,0 - 2,5 l/min
Ø 8 mm suction probe:	3,5 - 4,0 l/min
oil temperature, min:	70 °C
container lacquering:	RAL 7040, window grey satin

### Media:

For waste oils of hazard class A III of known origin, with flash points higher than 55 °C; not applicable for liquids of hazard class A I, A II, B;

### Specification

- Vacuum is generated in the container by means of compressed air Venturi system.
- gauge for pressure display
- oil extraction directly through the dipstick tube
- male quick connecting coupler, Rectus, type 26, NW 7.2
- suction probes, Ø 5/6/8 mm
- with adapter to suit BMW, Mercedes, VW, Audi
- sturdy handle
- 2 fixed rear wheels
- discharge via screw cap, G 1 1/2"

## ELECTRIC WASTE OIL SUCTION UNIT

19 783

**Electric waste oil suction unit, 12 l**  
mobile



19 783

### Technical data

dimension, LWH:	316 x 322 x 900
container volume:	12 l
voltage:	230 V
power consumption:	3,5 A
power:	0,75 KW
connection:	euro plug, 1,5 m cable
performance	
Ø 5 mm suction probe:	1 - 1,5 l/min
Ø 8 mm suction probe:	3,5 - 4 l/min
oil temperature, min.:	70 °C
lacquering:	RAL 7040, window grey satin

### Media:

For waste oils of hazard class A III of known origin, with flash points higher than 55 °C, not applicable for liquids of hazard class A I, A II, B.

### Specification

- gauge for indication of vacuum level
- oil extraction directly through the dipstick tube
- suction probe storage tube
- 4 suction probes, 2 pieces, Ø 5/8 mm each, rigid and flexible, 10 and 16 mm adapters
- 2 fixed rear wheels
- manual drain of the waste oil container

**2a CONNECTING SETS FOR DIRECT DRAINAGE**

**Technical data**

connection 1: G 2" male retention adapter  
 connection 2: female quick release connector, size 4, G 3/4"

**Specification**

- for use in conjunction with waste oil drainers and suction units with air pressurised evacuation or discharge by means of a pneumatic oil pump
- compatible with 27 967
- female quick release connector, size 4 (19 774)
- retention adapter (19 418)

**Installation set to suit waste oil tanks**

female quick release connector, G 3/4"

Article no.

**27 966**



27 966

**Technical data**

connection 1: female quick release connector, size 4  
 connection 2: dispensing hose, inside diameter 19 mm

**Specification**

- for mounting on dispensing hose
- for use in conjunction with oil drainers and suction units by means of pressure or a pneumatic oil pump
- compatible with 27 966
- female quick release connector, size 4 (19 770)
- hose nozzle, G 3/4" male (02 803)
- hose clip (20 156)

**Installation set to suit waste oil drainers**

to be mounted on dispensing hose

**27 967**



27 967



# Waste Oil Disposal



27 410

Article no.

3

## WASTE OIL DRAINERS AND SUCTION UNITS

**Waste oil drainer and suction unit**, mobile, with 1:1 pneumatic pump

### Technical data

diameter of drain bowl: 420 mm  
 volume of drain bowl: 18 l  
 airline connection: to suit Rectus coupling, type 26  
 NW: 7,2 mm  
 discharge : utilizing a 1:1 pneumatic pump  
 adapter, discharge: female hydraulic coupler, size 4, G 3/4"

27 410

75 l

(LWH: 600 x 580 x 1150)  
 telescopic tube of drain bowl: 1180 mm – 1750 mm

NW:

discharge :

adapter, discharge:

27 410 890

95 l

(LWH: 600 x 580 x 1310)  
 telescopic tube of drain bowl: 1340 mm – 1910 mm

performance

Ø 5 mm suction probe: 1,0 – 1,5 l/min

Ø 6 mm suction probe: 2,0 – 2,5 l/min

Ø 8 mm suction probe: 3,5 – 4,0 l/min

container lacquering: RAL 7040, window grey satin

### Media:

For waste oils of hazard class A III of known origin, with flash points higher than 55 °C; not applicable for liquids of hazard class A I, A II, B.

### Specification

- visual level indicator
- 1:1 pneumatic pump, with an inline filter on suction side, male quick release adapter G 1/4" (20 062)
- 3 way lever ball valve
- suction hose, 2 m, with a spiral spring
- suction probe storage tube
- suction probes, Ø 5/6/8 mm
- with adapters to suit BMW, Mercedes, VW, Audi
- dispensing hose, 2 m, with female quick release connector, size 4 (19 770) and female quick release connector, size 4 (19 774) mounted to suit as a connection on container
- female quick release connector, size 4 (19 774), enclosed as an accessory to suit pipe-work or waste oil collection tanks
- drain bowl with a removable drain grill
- sturdy handle
- 2 fixed rear wheels, 2 castor front wheels

### Remarks

It is recommended to use an overflow protection valve if the waste oil drainers shall be discharged into a waste oil collecting tank by using a fixed pipe-work installation. Please adhere to regional regulations and guidelines of your country.

Article no.

**Technical data**

diameter of drain bowl: 420 mm  
 volume of drain bowl: 18 l  
 2 airline connections: to suit Rectus coupling, type 26  
 recommended air pressure: 6 bar  
 suction volume, based on a complete vacuum: 45 - 50 l  
 vacuum generation: 3 - 4 min performance  
 Ø 5 mm suction probe: 1,0 - 1,5 l/min  
 Ø 6 mm suction probe: 2,0 - 2,5 l/min  
 Ø 8 mm suction probe: 3,5 - 4,0 l/min  
 oil temperature, min.: 70 °C  
 container lacquering: RAL 7040, window grey satin

**Media:**

For waste oils of hazard class A III of known origin, with flash points higher than 55 °C; not applicable for liquids of hazard class A I, A II, B.

**Specification**

- Vacuum is generated in the container by means of compressed air Venturi system.
- pressure/vacuum gauge, for indication of pressure and vacuum level
- oil extraction directly through the dipstick tube
- level indicator
- overpressure safety valve, set at 0.5 bar, with a pressure reduction valve
- male quick release adapter G 1/4", NW 7.2, (20 062), lever ball valve
- overflow protection valve (vacuum interruption)
- suction hose, 2 m, with a spiral spring
- suction probes, Ø 5/6/8 mm
- with adapters to suit BMW, Mercedes, VW and Audi
- suction probe storage tube
- sturdy handle
- transparent discharge hose, 2 m, with a metal discharge spout, lever ball valve
- drain bowl with removable drain grill
- 2 fixed rear wheels, 2 castor front wheels
- air pressurized oil evacuation

**Remarks**

It is recommended to use an overflow protection valve if the waste oil drainers shall be discharged into a waste oil collecting tank by using a fixed pipe-work installation. Please adhere to regional regulations and guidelines of your country.

**Venturi waste oil drainer and suction unit, mobile**

**75 l** **27 622 680**  
 (LWH: 600 x 580 x 930)  
 telescopic tube of drain bowl: 1180 mm - 1750 mm

**75 l, with visual inspection reservoir, 7 l** **27 632 680**  
 (LWH: 600 x 580 x 1360)  
 telescopic tube of drain bowl: 1180 mm - 1800 mm

**95 l** **27 622 891**  
 (LWH: 600 x 580 x 1150)  
 telescopic tube of drain bowl: 1550 mm - 2120 mm

**95 l, with visual inspection reservoir, 7 l** **27 632 891**  
 (LWH: 600 x 580 x 1520)  
 telescopic tube of drain bowl: 1550 mm - 2120 mm



27 622 680



27 632 680



# Waste Oil Disposal

Article no.

## ACCESSORIES



27 985

27 985

**Angled tube with rotating swivel**  
G 1" male, G 1" female

**Technical data**  
connection 1: G 1" male  
connection 2: G 1" female

**Specification**

- to suit any waste oil drainers with drain bowl
- to convert a fixed drain bowl into a swiveling



27 989

27 989

**Rectangular drain tray**  
G 1" male

**Technical data**  
dimension LWH: 463 x 263 x 100  
volume: 15 l  
connection: G 1" male  
lacquering: Pantone 294c, blue satin

**Specification**

- to suit any waste oil drainers of article group 27
- with drain grill

## 3 WASTE OIL DRAINERS AND SUCTION UNITS



19 793 301

19 793 301

**Venturi waste oil drainer and suction unit, mobile**

**Technical data**  
dimension LWH: 500 x 500 x 1700  
container volume: 80 l  
drain tray volume: 22 l  
2 airline connections: to suit Rectus coupling, type 26 recommended  
air pressure: 6 bar  
oil temperature, min.: 70 °C  
container lacquering: RAL 7040, window grey satin

19 793 391

**80 l, with visual inspection reservoir, 10 l**

**Media:**  
For waste oils of hazard class A III of known origin, with flash points higher than 55 °C; not applicable for liquids of hazard class A I, A II, B.

**Remarks**  
It is recommended to use an overflow protection valve if the waste oil drainers shall be discharged into a waste oil collecting tank by using a fixed pipe-work installation. Please adhere to regional regulations and guidelines of your country.

**Specification**

- Vacuum is generated in the containers by means of compressed air Venturi system.
- gauge for pressure indication
- oil extraction directly through the dipstick tube
- suction hose, 2 m, with a spiral spring
- 4 suction probes, 2 Ø 5/8 mm
- with adapters to suit BMW, Mercedes, VW, Audi
- transparent dispensing hose, 2 m, with a metal discharge spout
- rectangular cantilever drain tray with drain grill, can be lowered to the floor level, can be drained via Venturi technique
- air pressurized oil evacuation
- safety overpressure valve, set at 0.5 bar
- quick connection coupler, Rectus, type 26, NW 7.2
- overflow protection valve and suction probe storage tube
- sturdy handle
- 2 fixed rear wheels, 2 castor front wheels

19 793 391





**ACCESSORIES**

**Specification**

- to extract waste oils
- to lead in directly into the dipstick tube of vehicles
- adapter, suitable for all waste oil suction units of article group 27

**Suction probes, 700 mm**

- Ø 5 mm, plastic
- Ø 6 mm, plastic
- Ø 8 mm, plastic
- Ø 5 mm, copper
- Ø 6 mm, copper
- Ø 8 mm, copper

- 27 905
- 27 906
- 27 908
- 27 915
- 27 916
- 27 918



**Suction probes, 1000 mm**

- Ø 6 mm, plastic
- Ø 8 mm, plastic

- 27 926
- 27 928



**Suction probes, 1500 mm**

- Ø 8 mm, copper
- Ø 8 mm, plastic

- 27 958
- 27 948



**Specification**

- to extract waste oils
- to lead in directly into the dipstick tube of vehicles
- adapter, suitable for all waste oil suction units of article group 27

**Adapters to suit the dipstick tube of**

- VW/Audi, Ø 8 mm
- Mercedes, Ø 16 mm
- BMW, Ø 14 mm

- 27 963
- 27 964
- 27 965



27 963

27 964

27 965

**3a CONNECTING SETS FOR DIRECT DRAINAGE**

**Technical data**

- connection 1: G 2" male retention adapter
- connection 2: female quick release connector, size 4, G 3/4"

**Installation set to suit waste oil collecting tank**

- female quick release connector, G 3/4"

27 966

**Specification**

- for use in conjunction with waste oil drainers and suction units with air pressurised evacuation or discharge by means of a pneumatic oil pump
- compatible with 27 967
- female quick release connector, size 4 (19 774)
- retention adapter (19 418)



27 966

**Technical data**

- connection 1: female quick release connector, size 4
- connection 2: dispensing hose, inside diameter 19 mm

**Installation set to suit waste oil drainers**

- to be mounted on dispensing hose

27 967



27 967

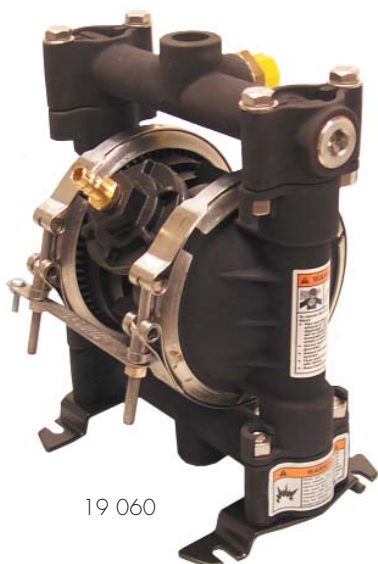


# Waste Oil Disposal

Article no.

## 4 PNEUMATIC DIAPHRAGM PUMPS

19 060



19 060

**Pneumatic diaphragm pump**  
60 l/min  
5 kg

Suitable for:

- waste oils, water
- water-based liquids, oils or slurries providing outstanding abrasion resistance (e. g. screen water, anti-freeze, various chemicals, light acids etc.)

**Technical data**

dimension, LWH: 191 x 222 x 273  
 pump capacity (free flow): 60 l/min  
 max. air pressure: 7 bar  
 min. air pressure: 1,8 bar  
 max. particle size: 2,5 mm  
 max. suction height (wet): 7 m  
 max. suction height (dry): 4,9 m  
 max. operating temperature: 65 °C  
 loudness level at 3.5 bar, 50 DH/min: 75 dB (A)  
 airline connection: to suit Rectus coupling, type 26  
 suction and discharge adapter: G 1/2" male 60° with sealing cone  
 max. air consumption: 560 l/min  
 material of pump: Aluminium  
 material of diaphragms: Buna-N  
 material of ball valve: Buna-N  
 material of ball valve seat: Acetal

**Specification**

- designed for wall-mounting
- recommended accessory (87 626)

19 062



19 062

**Pneumatic diaphragm pump**  
159 l / min  
8,2 kg

Suitable for:

- waste oils, water
- water-based liquids, oils or slurries providing outstanding abrasion resistance (e. g. screen water, anti-freeze, various chemicals, light acids etc.)

**Technical data**

dimension, LWH: 235 x 305 x 356  
 pump capacity (free flow): 159 l/min  
 max. air pressure: 8,4 bar  
 min. air pressure: 1,4 bar  
 max. particle size: 3,2 mm  
 max. suction height (wet or dry): 5,8 m  
 max. operating temperature: 65 °C  
 loudness at 4.8 bar, 50 DH/min: 78 dB (A)  
 airline connection: to suit Rectus coupling, type 26  
 NW: 7,2 mm  
 suction and discharge adapter: G 3/4" male 60° with sealing cone  
 max. air consumption: 1700 l/min  
 material of pump: Aluminium  
 material of diaphragms: Hytrel®  
 material of ball valve: Acetal  
 material of ball valve seat: Hytrel®

**Specification**

- designed for wall-mounting
- recommended accessory (87 626)

**5 WASTE OIL SUCTION SYSTEMS**

**Technical data**

airline connector: to suit Rectus coupling, type 26  
 NW: 7,2 mm  
 discharge : via 5:1 pneumatic pump  
 performance  
 Ø 5 mm suction probe: 1,0 – 1,5 l/min  
 performance  
 Ø 6 mm suction probe: 2,0 – 2,5 l/min  
 performance  
 Ø 8 mm suction 3,5 – 4,0 l/min  
 connection,  
 pressure side: G 3/4" male

**Media:**

For waste oils of hazard class A III of known origin, with flash points higher than 55 °C; not applicable for liquids of hazard class A I, A II, B

**Specification**

- stationary, for direct discharge via pipe-work to a waste oil collection tank
- for direct waste oil extraction from vehicles
- 5:1 pneumatic oil pump with a wall-mounting bracket
- inline filter and lever ball valve
- complete accessories set for assembly
- discharge hose, 4 m, retention adapter, G 2" male
- suction probes, Ø 5/6/8 mm
- with adapters for BMW, Mercedes, VW and Audi
- suction probe storage tube
- can be installed in conjunction with a vacuum switch-off unit (19 422)

**Remarks**

Waste oil must not be stored in working area. It is recommended to use an overflow protection valve if the waste oil drainers shall be discharged into a waste oil collecting tank by using a fixed pipe-work installation. Please adhere to regional regulations and guidelines of your country.

**Waste oil suction system, stationary,**

5:1 pneumatic pump

**with suction hose, 5 m,**

2 m as visible transparent line segment, hose storage rack (19 669)

**with hose reel, 8 m ,**

open, wall- and floor-mounting (29 341)

A lever ball is mounted on hose reel (suction side)

Article no.

19 900



19 900

19 901



19 901



# Waste Oil Disposal



19 800

Article no.

## WASTE OIL SUCTION SYSTEM

19 800

**Waste oil suction system, stationary**

5:1 pneumatic pump

Media:

For waste oils of hazard class A III of known origin, with flash points higher than 55 °C; not applicable for liquids of hazard class A I, A II, B

**Technical data**

airline connection: to suit Rectus coupling, type 26  
 NW: 7,2 mm  
 discharge : via 5:1 pneumatic pump connection,  
 suction hose: female quick connecting coupler, size 4, G 3/4" connection,  
 pressure side: G 3/4" male

**Specification**

- stationary, for discharge of waste oil drainers (27 035 / 27 035 890 / 19 857)
- for direct discharge to a waste oil collecting tank via pipe-work
- 5:1 pneumatic oil pump with a wall-mounting bracket
- complete accessories set for assembly
- suction hose, 2 m with an inline filter and female quick release connector, size 4, G 3/4" female (19 770) and female quick release connector, size 4, G 3/4" (19 774), enclosed unassembled
- suitable for garage service pit waste oil drainers

Remarks

Waste oil must not be stored in working area. It is recommended to use an overflow protection valve if the waste oil drainers shall be discharged into a waste oil collecting tank by using a fixed pipe-work installation. Please adhere to regional regulations and guidelines of your country.

## ACCESSORIES

19 902



19 902

**Installation set for waste oil discharge pipe-work**

G 3/4" male

**Technical data**

connection 1: G 3/4" female  
 connection 2: quick release connector, size 4

**Specification**

- completely assembled
- female quick release connector, size 4, G 3/4" (19 774)
- lever ball valve
- back flow valve



19 903

19 903

**Collecting tray for oil drops with discharge tap**

**Specification**

- to suit waste oil pipe-works
- for wall-mounting
- discharge tap

**6 DRAINAGE TRAYS**

**Technical data**

to fit service pits: 850 – 1200 mm  
 connection: G 3/4" male  
 material: sheet steel  
 lacquering: RAL 7040, window grey satin

**Specification**

- suitable for all standard garage service pit profiles
- strainer
- 4 integral wheels

**Drainage tray**

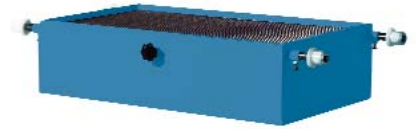
**40 l**  
 H = 155 mm, G 3/4" male  
 (LWH: 750 x 465 x 155)

**60 l**  
 H = 200 mm, G 3/4" male  
 (LWH: 750 x 465 x 200)

Article no.

**19 850**

**19 788**



19 788

**Technical data**

dimension, LWH: 750 x 465 x 290  
 volume: 100 l  
 to fit service pits: 850 – 1200 mm  
 connection: G 1" male  
 material: sheet steel  
 lacquering: RAL 7040, window grey satin

**Specification**

- suitable for all standard garage service pit profiles
- strainer
- 4 integral wheels

**Drainage tray**

**100 l**  
 H = 290 mm, G 1" male

**19 852**

**Technical data**

dimension, LWH: 570 x 150 x 100  
 connection: G 2" male  
 bowl volume: 3,6 l  
 weight: 3 kg  
 lacquering: Pantone 294c, blue satin

**Specification**

- fixed strainer
- for mounting in garage service pits directly connected to a G 2" waste oil discharge pipe-work for drainage of drainage trays

**Drain bowl, rotating swivel, 3,6 l**

**19 858**



19 858



# Waste Oil Disposal

Article no.

## WASTE OIL DISPOSAL SYSTEMS TO SUIT GARAGE SERVICE PITS

### Waste oil disposal system to suit garage service pit

### Technical data

airline connection: to suit Rectus coupling, type 26  
NW: 7,2 mm

connection, pressure hose: G 1/2" female, 60° sealing cone, 90° angle

### with a 5:1 pneumatic pump (19 385)

20 l/min, with wall-mounting bracket, suitable for pipe-work up to 70 m distance

suction performance: 20 l/min in case of free outlet

drainage tray: dimension, LWH: 750 x 465 x 200  
volume: 60 l

to fit service pits: 850 – 1200 mm

connection: G 3/4" male

lacquering: RAL 7040, window grey satin

### with pneumatic diaphragm pump (19 060)

60 l/min, suitable for pipe-work up to 20 m distance

suction performance: 60 l/min in case of free outlet

### Media:

For waste oils of hazard class A III of known origin, with flash points higher than 55 °C; not applicable for liquids of hazard class A I, A II, B

### Specification

- to suit any garage service pits
- all accessories required for mounting
- suction hose, 2 m, G 3/4" female/male
- discharge hose, 1.5 m, G 1/2" female/male
- including all necessary couplers, adapters etc.
- drainage tray (19 788) suitable for all standard service pit profiles

### Remarks

If the pipework is mounted in non-visible areas, please use the pipe connection of item No. 19 666 and install it acc. to local regulation. It is recommended to use an overflow protection valve if the waste oil drainers shall be discharged into a waste oil collecting tank by using a fixed pipe-work installation. Please adhere to regional regulations and guidelines of your country.



19 000 335

19 000 335



19 000 435

19 000 435

## 7 STATIONARY WASTE OIL COLLECTING AND DISPOSING SYSTEM TO SUIT GARAGE SERVICE PITS

- Designed for the use in garage service pits of big garages serving cars and trucks.
- Big quantities of waste oils can be collected without any spillage and drained quickly without any slurries remaining into a waste oil collecting tank.
- For your convenience several drain trays can be installed.
- The head of the waste oil discharge gutter is adjustable.
- Designed for the use with waste oils of known origin hazard class A III not exceeding the flashpoint temperature of 55 °C.

### Technical data

height: 475 mm  
width: 140 mm  
weight: 30 kg/m  
connection: G 2" male  
material: galvanized sheet steel

### Media:

For waste oils of hazard class A III of known origin, with flash points higher than 55 °C; not applicable for liquids of hazard class A I, A II, B

### Specification

- 2 end parts, connection G 2"
- launder is adjustable in height, even after complete mounting
- to suit several drain trays, in order to provide oil collection at different places of discharge

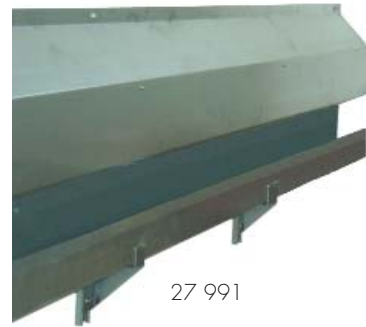
### Remarks

Launders are supplied in single pieces of 2 - 3 m and will have to be welded on site. It is recommended to use an overflow protection valve if the waste oil launder shall be discharged into a waste oil collecting tank by using a fixed pipe-work installation. Please adhere to regional regulations and guidelines of your country.

### Waste oil launder

Article no.

27 991



### Specification

- consisting of an upper and a lower brush part

### Remarks

Brush protection cap is supplied in single pieces of 2 - 3 m.

### Brush protection cap

to suit waste oil launder (27 991)

27 995



27 995





# Waste Oil Disposal

Article no.

## STATIONARY WASTE OIL COLLECTING AND DISPOSING SYSTEM TO SUIT GARAGE SERVICE PITS

27 992

**Mobile waste oil drain tray**  
with a strainer

### Technical data

tray LWH: 463 x 263 x 100  
tray volume: 15 l  
complete weight: 25 kg

### Media:

For waste oils of hazard class A III of known origin, with flash points higher than 55 °C; not applicable for liquids of hazard class A I, A II, B

### Specification

- drain tray, rotating swivel (radius=900 mm), movable along all the length of the waste oil launder, double telescoping
- adjustable height approx. 1050 mm



27 992

27 993

**Waste oil intermediate container, 20 l**  
with a 3:1 pneumatic pump,  
22 l/min

### Technical data

airline connection: to suit Rectus coupling, type 26  
NM: 7,2 mm  
discharge: via 3:1 pneumatic pump  
suction performance: 22 l/min in case of free outlet

### waste oil intermediate container:

dimension, LWH: 750 x 465 x 200  
volume: 20 l  
connection: G 2"  
material: galvanized steel

### Media:

For waste oils of hazard class A III of known origin, with flash points higher than 55 °C; not applicable for liquids of hazard class A I, A II, B

### Specification

- 3:1 pneumatic pump (19 285)
- 2 chamber system
- 3 float switch for control of pneumatic pumps
- warning light buzzer
- inline filters and back flow valves, completely assembled

### Remarks

Pneumatic pump shall be operated by using an air maintenance unit (20 218 950) only. It is recommended to use an overflow protection valve if the waste oil intermediate container shall be discharged into a waste oil collecting tank by using a fixed pipe-work installation. Please adhere to regional regulations and guidelines of your country.



27 993

Article no.

**27 994**

**Technical data**

airline connection: to suit Rectus coupling,  
type 26  
NM: 7,2 mm  
discharge : via 1:1 pneumatic pump  
suction performance: 61 l/min in case of  
free outlet

waste oil intermediate container:  
dimension, LWH: 750 x 465 x 200  
volume: 20 l  
connection: G 2"  
material: galvanized steel

**Media:**

For waste oils of hazard class A III of known origin, with flash points higher than 55 °C; not applicable for liquids of hazard class A I, A II, B

**Specification**

- 1:1 pneumatic pump (19 185)
- 2 chamber system
- 3 float switch for control of pneumatic pumps
- warning light buzzer
- inline filters and back flow valves, completely assembled

**Remarks**

Pneumatic pump shall be operated by using an air maintenance unit (20 218 950) only. It is recommended to use an overflow protection valve if the waste oil intermediate container shall be discharged into a waste oil collecting tank by using a fixed pipe-work installation. Please adhere to regional regulations and guidelines of your country.

**Waste oil intermediate container, 20 l**

with 1:1 pneumatic pump,  
61 l/min



27 994



# Waste Oil Disposal

Article no.

## 8 ACCESSORIES TO SUIT PNEUMATIC PUMPS



19 422

19 422

**Vacuum switch-off unit**  
automatic, activate button

**Technical data**

connection 1: to suit Rectus coupler, type 26  
connection 2: to suit Rectus quick connecting nipple, type 26

**Specification**

- vacuum hose, 2 m, DN 5
- cable, 2 m, with a euro plug
- pre- and follower control regulation unit
- suction relief valve
- designed for automatic switch-off when drainage of a vehicle is finished
- to suit waste oil suction system (19 900 / 19 901)
- pressure gauge for installation on a pneumatic pump (suction side)



19 669

19 669

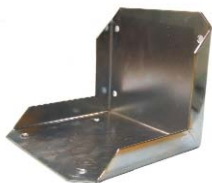
**Hose storage rack**  
large size

**Technical data**

dimension, LWH: 348 x 144 x 257  
weight: 1,3 kg  
material: aluminium die casting

**Specification**

- for wall-mounting



87 626

87 626

**Wall-mounting rack**  
for diaphragm pumps

**Technical data**

dimension, LWH: 182x198x208  
weight: 1,3 kg  
material: galvanized steel

**Specification**

- to suit diaphragm pumps (19 060 / 19 062)



19 550

19 550

**Discharge hose for oil**  
1,5 m, G 3/4" female,  
G 3/4" female

**Technical data**

length: 1,5 m  
connection 1: G 3/4" female  
connection 2: G 3/4" female, with 90° angle  
inside diameter of hose: 20 mm  
operating pressure: 105 bar

**Specification**

- to connect pneumatic oil pumps with pipe-work
- swivel nuts on both hose ends
- acc. to DIN 20 022 (EN 853)

Article no.

**Technical data**

length: 0,5 m  
 connections: G 3/4" female  
 inside diameter of hose: 20 mm  
 material of hose: high-alloyed steel (X6 CrNiTi 1810) with high-alloyed steel braid  
 weight: 0,4 kg

**Flexible metal hose**

0.5 m, G 3/4" female, G 3/4" female

**19 666**



**Specification**

- acc. to TRBF 231 T1 (German norm)
- to connect oil pumps with pipe-work in non-visible areas
- swivel nuts on both hose ends

**Technical data**

connection 1: R 3/4" male, DIN 2999  
 connection 2: G 3/4" male, inside cone  
 inside diameter: 16 mm  
 opening of the spanner: 30 mm  
 material: galvanized steel

**Adapter**

R 3/4" male, G 3/4" male

**19 637**



19 637

**Technical data**

connections: G 3/4" female  
 inside diameter: 20 mm  
 body length: 57 mm  
 operating pressure: 30 bar  
 material: nickelized brass  
 medium: oils, air

**Lever ball valve**

G 3/4" female, G 3/4" female

**19 763**



19 763



# Waste Oil Disposal

Article no.

## 9 ACCESSORIES AND AIR MAINTENANCE UNITS

20 062



20 062

**Male quick release adapter,**  
G 1/4" to suit Rectus  
connector, type 26

**Technical data**

connection 1: G 1/4" male  
connection 2: to suit Rectus airline  
connector, type 26

NW: 7,2 mm  
opening of  
the spanner: 12 mm  
material: brass

**Specification**

- to be used for mounting of an air maintenance unit (20 218)

20 112



20 112

**Adapter,**  
G 1/4" male, G 1/4" male

**Technical data**

connections: G 1/4" male,  
60° inside cone  
NW: 7,5 mm

opening of  
the spanner: 17 mm  
operating pressure: - 0.95 to 15 bar  
operating temperature: - 10 °C to +70 °C  
material: brass

**Specification**

- to be used for mounting of an air maintenance unit (20 218)
- with an inside cone, acc. to DIN EN 560

20 185



20 185

**Coiled air hose, 5 m**

**Technical data**

length of hose: 5 m  
connection 1: female Rectus quick  
release airline connector,  
type 26  
connection 2: to suit male Rectus quick  
release airline connector,  
type 26  
NW: 7,2 mm

dynamic operating  
pressure: 17 bar

**Specification**

- to connect the compressed airline to a compressed air tool

Article no.

**Technical data**

connection 1: G 1/4" female  
 connection 2: G 1/4" female  
 max. operating pressure: 10 bar  
 regulating air pressure: 0,5 - 10 bar  
 normal flow rate\*: 6,3 l/sec  
 filter: 40 my  
 condensate volume: 0,017 l  
 operating temperature: 0 °C to +50 °C  
 casing material: zinc die casting

**Air maintenance unit**

**20 218**

\* at a 10 bar airline pressure, 6 bar operating pressure and  $\Delta p = 1$  bar

**Specification**

- pressure regulator with gauge, moisture separating filter and lubricator



20 218

**Technical data**

connection 1: G 1/4" male  
 connection 2: to suit Rectus airline connector, type 26  
 NW: 7,2 mm  
 max. operating pressure: 10 bar  
 regulating air pressure: 0,5 - 10 bar  
 normal flow rate\*: 6,3 l/sec  
 filter: 40 my  
 condensate volume: 0,017 l  
 operating temperature: 0 °C to +50 °C  
 casing material: zinc die casting

**Air maintenance unit, complete set**

**20 218 950**

\* at a 10 bar airline pressure, 6 bar operating pressure and  $\Delta p = 1$  bar

**Specification**

- pressure regulator with gauge, moisture separating filter and lubricator
- male quick release coupler
- G 1/4" male/male adapter



20 218 950



# Waste Oil Disposal

Article no.

## 10 STORAGE TANKS



45 010



45 014



45 100

45 014

### tank 750 l

(LWH: 1200 x 800 x 1123)  
total weight: 279 kg

45 010

### tank 1000 l

(LWH: 1200 x 800 x 1570)  
total weight: 328 kg

45 018

### tank 1420 l

(LWH: 1200 x 800 x 2070)  
total weight: 415 kg

Suitable for:

- fuel oil and diesel
- used engine and gear oils (waste oils) of known origin, hazard class A III lubricating oils, L-AN, acc. to DIN 51 501 (the lubricating oils AN 5 and AN 7 are inflammable liquids, hazard class III, acc. to VbF)
- engine- and lubricating oils, acc. to DIN 51 511
- vehicle gear oils, acc. to DIN 51 512
- hydraulic oils, acc. to DIN 51 524 / 51 525
- heat transfer oils, acc to DIN 51 522
- synthetic oils
- rapseed oil-methyl-ester (RME)

45 101

### tank 750 l

(LWH: 980 x 760 x 1420), 66 kg

45 100

### tank 1000 l

(LWH: 1280 x 760 x 1420), 89 kg

### Technical data

outside container  
material: welded steel  
inside container  
material: welded steel  
surface  
treatment: degreased, phosphatized, primed and lacquered  
lacquering: RAL 7040, window grey satin  
connections: 5 x G 2" female

### Specification

- European certificate
- mechanic float level indicator
- visual leakage indicator
- can be lifted and moved from four sides even under load
- designed for 3-side mounting of hose reels, electric and pneumatic pumps
- designed for indoor storage

### Technical data

outside container  
material: steel, hot-dip galvanized  
inside container  
material: Polyethylene (HDPE)  
connections: 4 x G 2" female

### Specification

- European certificate Z-38.11-117
- mechanic float level indicator
- visual leakage indicator
- integral pallet (can be disassembled)
- integral grips for manual transport
- designed for indoor storage



**ACCESSORIES TO SUIT STORAGE TANKS**

**Technical data**

dimension, LWH: 163 x 97 x 62  
 weight: 0,4 kg  
 power supply: 230 V AC, 50/60 Hz  
 nominal power: 5 VA  
 fuse: M 32mA  
 connecting cable: 1.2 m long, 2x0.75 mm<sup>2</sup>  
 operate lag: none  
 additional connections: 1 output relay (variator)  
 output relay switch  
 capacity: max. 250 V, 2 A,  
 resistive load  
 permitted ambient  
 temperature: -10° to + 60 °C  
 safety class: II DIN 57 700

**Optical and acoustic  
oil/water leakage indicator  
system**

**19 406**



19 406

**Specification**

- for installation between the inside and outside wall of a double storage tank
- warning signal at min. 50 mm liquid height

**Technical data**

loudness level: 90 dB (A), 1m distance  
 power supply: 230 V  
 power input: 6 VA  
 safety type: IP 20  
 weight: 0,18 kg

**Continuously operating  
signal horn  
for indoor use**

**19 407**



19 407

**Specification**

- for acoustic remote monitoring of tanks
- adapter to connect to an overflow protection valve (19 412)

**Technical data**

loudness level: 90 dB (A), 1m distance  
 power supply: 230 V  
 power input: 10 VA  
 safety type: IP 33  
 weight: 0,19 kg

**Warning light and buzzer  
with separate control  
mechanism for each unit**

**19 408**



19 408

**Specification**

- for visual and acoustic remote monitoring of tanks
- adapter to connect to an overflow protection valve (19 412 )

**Technical data**

connection: G 2" female

**Tank ventilation cap,  
G 2" female  
with a strainer, Polyamide**

**19 410**



19 410

**Specification**

- can be mounted as a protection cap at the end of storage ventilation pipe of tanks

**Tank ventilation cap,  
G 2" female  
Brass**

**19 411**



# Waste Oil Disposal

Article no.

## ACCESSORIES TO SUIT STORAGE TANKS

19 412

### Overflow protection valve

A III, acc. to German  
WHG regulation

### Technical data

power supply: AC 24 V, 110 V,  
230 V or DC 24 V  
power input: max. 3 VA or 5 W  
dimension, LWH: 163 x 97 x 62  
safety type: IP 30  
level indicator length: 300 mm  
connection: G 3/4" male  
visual level gauge material: brass

### Specification

- visual and acoustic warning with acknowledgement option

Area of application:

Inflammable liquids and oil of hazard class A III;  
diesel acc. to DIN 51 601, EL fuel oil acc. to  
DIN 51 603, used gear and engine oils.



19 418

### Retention adapter

G 3/4" female,  
G 2" male

### Technical data

connection 1: G 3/4" female  
connection 2: G 2" male  
material: galvanized cast steel

### Specification

- for mounting of level indicators of the overflow protection valve (19 412) on storage tanks



19 418

19 414

### Tank filling spout, angled 90°

G 2" male, G 2" male

### Technical data

connections: G 2" male  
material: galvanized steel



19 414

19 419

### Waste oil suction probe,

G 2" male, 45° angle  
to suit tank  
truck-connectors

### Technical data

connection 1: G 2" male  
connection 2: tank truck connector  
length: 1,60 m

### Specification

- metal cover
- tank truck connector
- to extract oils from waste oil collecting tanks



19 419

19 426

### Installation set tank attachment

### Specification

- for installation of an overflow protection valve and of a tank ventilation tube
- adapter, G 3/4" female, G 2" male
- T-type adapter, G 2" female, G 2" male
- tank filling spout, angled 90°, G 2" male
- adapter G 2" female



19 426

**Technical data**

dimension, LWH: 650 x 350 x 100  
 connection: G 2" male, retention adapter  
 material: galvanized sheet steel

**Rectangular collecting tray, with a cover**  
 (LWH 650 x 350 x 100)

**Specification**

- lockable cover
- removable strainer
- fixing brackets with screws
- for mounting on tanks (45 100 / 45 101)

Article no.

**27 987**



27 987

**Technical data**

volume: 3,2 l  
 connection: G 2" male, retention adapter  
 funnel diameter: 250 mm  
 funnel material: PE  
 cover material: PE  
 funnel colour: red  
 cover colour: black

**Funnel, 3,2 l,**  
 Ø 250 mm

**02 568**



02 568

**Specification**

- lockable cover



## ***Modular Liquid Suction Probe Extraction System For Vehicles***



***Components  
Saving your space -  
in a perfect design.***

- The modules for car drainage are based on two basic units.
- The modules are made of steel (welded).
- With an integral oil collecting floor-platform with a galvanized platform grid.
- Various modules to be utilized with petrol, diesel, anti-freeze, windscreen cleaners or waste oil.
- The modules can be installed in a row or separately.
- The modules provide more flexibility when planning the installation.
- The modules are designed acc. to German government specifications.
- With German TÜV certificate.

	Module 1	Module 2
<b>Media</b>	Petrol	Diesel, oil, anti-freeze, windscreen cleaners
<b>Recommended Tools</b>	<ul style="list-style-type: none"> <li>• Drilling unit,</li> <li>• Flexible and electro conductive suction probes diam. 6/8 mm, length 1200 mm</li> <li>• hollow mandrel</li> </ul>	<p><b>Diesel:</b> Drilling unit, flexible and electro conductive suction probes (diam. 6/8 mm, length 1200 mm), hollow mandrel</p> <p><b>Oil:</b> Oil collecting unit, drilling unit, pneumatic chiseling hammer</p> <p><b>Anti-freeze, windscreen cleaners:</b> hollow mandrel</p>
<b>Capacity</b>	20 l/min	<p><b>Diesel/oil:</b> approx. 18 l/min</p> <p><b>Anti-freeze and windscreen cleaners:</b> approx. 20 l/min</p>
<b>Overflow Protection Valve</b>	In A I Version	In A III Version
<b>Suction Line</b>	Electro conductive	Electro conductive
<b>Hose Reel</b>	6 m	6 m
<b>Dimensions of the Module (W x D x H)</b>	406 x 900 x 2100 mm	406 x 900 x 2100 mm
<b>Oil Collecting Platform (W x D x H)</b>	406 x 900 x 50 mm	406 x 900 x 50 mm



43 003

## MODULES

### Technical data

dimension, LWH: 406 x 900 x 2100  
 airline connection: to suit Rectus coupling, type 26  
 NW: 7,2 mm

### Specification

- module base with a collecting tray made of sheet steel
- air maintenance unit (20 218 950)
- hose reel 10 m, coloured identification for media

### Construction:

The modules for the car drainage are based on two basic units. The modules can be installed in a row or separately. Thanks to that, more flexibility is possible when planning the installation.

Article no.

**43 003**



# Modular Liquid Suction Probe Extraction System For Vehicles

Article no.

## MODULES

**Motor vehicle  
drain dry system**

### Technical data

dimension, LWH: 406 x 900 x 2100  
airline connection: to suit Rectus coupler, type 26  
NW: 7,2 mm  
discharge: via 1:1 pneumatic pump  
pump capacity: 20 l/min in case of free outlet

43 001

**Module 1, petrol version**

overflow protection,  
A I design  
Media:  
carburettor fuels, petrol

### Specification

- module base with a collecting tray made of sheet steel
- 1:1 pneumatic oil pump
- air maintenance unit (20 218 950)
- hose reel 6 m, with a electro conductive hose and coloured identification for media
- overflow protection, A III design
- transparent in line segment, electro conductive, remains transparent
- suction line, electro conductive
- necessary special tools: spot-drill, flexible and electro conductive suction probes  $\varnothing 6 / 8$  mm, L= 1200 mm, hollow, mandrel

43 002

**Module 2, A III**

overflow protection,  
A III design  
Media:  
diesel, cooling liquid,  
anti-freeze, screen  
water and waste oil

### Construction:

The modules for modular liquid suction probe extraction system for vehicles are based on two basic units. The modules can be installed in a row or separately. Thanks to that, more flexibility is possible when planning the installation.



43 001



43 002

Article no.

**ACCESSORIES**

**Technical data**

airline connection: to suit Rectus coupler, type 26  
 NW: 7,2 mm

**Motor vehicle  
 drain dry system  
 drilling unit**

**43 004**



**Specification**

- to extract petrol, diesel and oil
- pneumatic compressed air drill
- drill unit
- drill head with an emission preventing plunger
- accessories box
- adapter

**Specification**

- suction probes, electro conductive, for diesel and oil, Ø 6 / 8 mm
- hollow mandrel for extracting of petrol and diesel out of vehicles pipework
- cooling water tapping probe
- suction probes, for cooling liquid and screen water, Ø 5/ 6/ 8 mm, L=1200 mm

**Motor vehicle  
 drain dry system  
 accessories set**

**43 005**



**Technical data**

airline connection: to suit Rectus coupler, type 26  
 NW: 7,2 mm

**Motor vehicle  
 drain dry system  
 spotting drill**

**43 006**



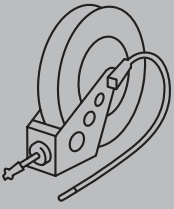
**Specification**

- to extract oils from shock absorbers
- pneumatic compressed air drill
- drill head with an emission preventing plunger
- discharge hose, 2 m
- compressed-air connecting hose, 2 m
- control unit (three-way-control)
- air maintenance unit

43 006



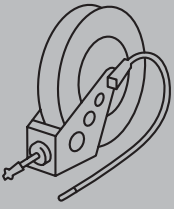




## Air/Water Supply

*The elementary basis  
of daily work ...*





# Air/Water Supply

## HOSE REELS

### Product features

- Complete with 1 m connecting hose G 1/4" female.
- Outstanding robustness and compact design.
- All steel parts are washed, phosphatised, coated and lacquered (Guide arm: RAL 7040 window grey satin, Drum: Pantone 294c blue satin, Cover: RAL 7040 window grey satin, Wall-mounting bracket: Pantone 294c blue satin).
- High-quality surface-treatment of all steel parts ensures high corrosion resistance.
- The axis diameter of die casting parts is 40 mm. If loads to be absorbed are predefined, dimensions selected by our engineers ensure almost unlimited lifecycle.
- Selected pairs of axis and bearing materials are maintenance-free.
- Suitable for wall, floor and mounting on ceilings.
- Easy assembly: It is not necessary to hold the weight of the hose reel while mounting.
- Ball bearings on any hinge joints.
- High pressures in the supply system do not influence the power needed for joint rotation.
- With hose stop
- By 90° turning the hose can be engaged.

### Abbreviations

- D** Ceiling mounting  
**GDA** Encased, swivel joint situated outside  
**GDI** Encased, swivel joint situated inside  
**O** Open  
**WB** Wall- and ceiling mounting



29 442



29 452

Article no.

## HOSE REELS FOR AIR/WATER

### OPEN, FOR WALL-/FLOOR-MOUNTING

Hose reels for water/air	Technical data
<b>29 442</b> O, WB, 20 bar, DN 10, <b>10 m</b> , (17,2 kg)	dimension, LWH: 472 x 152 x 498 connection, discharge hose: G 3/8" male length of connecting hose: 1000 mm
<b>29 443</b> O, WB, 20 bar, DN 10, <b>15 m</b> , (19,2 kg)	connection, connecting hose: G 3/8" female inside diameter of hose: 10 mm operating pressure: 20 bar

### OPEN, FOR MOUNTING ON CEILINGS

Hose reels for water/air	Technical data
<b>29 452</b> O, D, 20 bar, DN 10, <b>10 m</b> , (20,8 kg)	dimension, LWH: 472 x 158 x 520 connection, discharge hose: G 3/8" male length of connecting hose: 1000 mm
<b>29 453</b> O, D, 20 bar, DN 10, <b>15 m</b> , (22,8 kg)	connection, connecting hose: G 3/8" female inside diameter of hose: 10 mm operating pressure: 20 bar

Article no.

**ENCASED, FOR WALL-/FLOOR-MOUNTING, OUTSIDE SWIVEL**

<b>Technical data</b>		<b>Hose reels for water/air</b>	
dimension, LWH:	495 x 158 x 508		
connection,			
discharge hose:	G 3/8" male	GDA, WB, 20 bar, <b>10 m,</b>	<b>29 472</b>
length of connecting hose:	1000 mm	(23,8 kg)	
connection,			
connecting hose:	G 3/8" female	GDA, WB, 20 bar, <b>15 m,</b>	<b>29 473</b>
inside diameter of hose:	10 mm	(25,8 kg)	
operating pressure:	20 bar		



29 472

**ENCASED, FOR WALL-/FLOOR-MOUNTING, INSIDE SWIVEL**

<b>Technical data</b>		<b>Hose reels for water/air</b>	
dimension, LWH:	495 x 170 x 508		
connection,			
discharge hose:	G 3/8" male	GDI, WB, 20 bar, <b>10 m,</b>	<b>29 462</b>
length of connecting hose:	1000 mm	(24,2 kg)	
connection,			
connecting hose:	G 3/8" female	GDI, WB, 20 bar, <b>15 m,</b>	<b>29 463</b>
inside diameter of hose:	10 mm	(26,2 kg)	
operating pressure:	20 bar		



29 462

**ENCASED, FOR MOUNTING ON CEILINGS, OUTSIDE SWIVEL**

<b>Technical data</b>		<b>Hose reels for water/air</b>	
dimension, LWH:	495 x 158 x 520		
connection,			
discharge hose:	G 3/8" male	GDA, D, 20 bar, DN 10, <b>10 m,</b>	<b>29 492</b>
length of connecting hose:	1000 mm	(24 kg)	
connection,			
connecting hose:	G 3/8" female	GDA, D, 20 bar, DN 10, <b>15 m,</b>	<b>29 493</b>
inside diameter of hose:	10 mm	(26 kg)	
operating pressure:	20 bar		



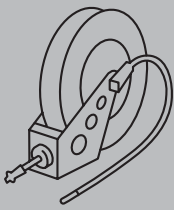
29 492

**ENCASED, FOR MOUNTING ON CEILINGS, INSIDE SWIVEL**

<b>Technical data</b>		<b>Hose reels for water/air</b>	
dimension, LWH:	495 x 170 x 520		
connection,			
discharge hose:	G 3/8" male	GDI, D, 20 bar, DN 10, <b>10 m,</b>	<b>29 482</b>
length of connecting hose:	1000 mm	(23,8 kg)	
connection,			
connecting hose:	G 3/8" female	GDI, D, 20 bar, DN 10, <b>15 m,</b>	<b>29 483</b>
inside diameter of hose:	10 mm	(25,6 kg)	
operating pressure:	20 bar		



29 482



# Air/Water Supply

Article no.

## HOSE REELS FOR ANTI-FREEZE

### OPEN, FOR WALL-/FLOOR-MOUNTING



29 542

**29 542**

O, WB, 120 bar, DN 12, **10 m**,  
(17,5 kg)

**29 543**

O, WB, 120 bar, DN 12, **15 m**,  
(19,5 kg)

#### Technical data

dimension, LWH: 472 x 152 x 498  
 connection,  
 discharge hose: G 1/2" male  
 length of connecting hose: 1000 mm  
 connection,  
 connecting hose: G 1/2" female  
 inside diameter of hose: 12 mm  
 operating pressure: 120 bar

### OPEN, FOR MOUNTING ON CEILINGS



29 552

**29 552**

O, D, 120 bar, DN 12, **10 m**,  
(21,1 kg)

**29 553**

O, D, 120 bar, DN 12, **15 m**,  
(23,1 kg)

#### Technical data

dimension, LWH: 475 x 158 x 520  
 connection,  
 discharge hose: G 1/2" male  
 length of connecting hose: 1000 mm  
 connection,  
 connecting hose: G 1/2" female  
 inside diameter of hose: 12 mm  
 operating pressure: 120 bar

### ENCASED, FOR WALL-/FLOOR-MOUNTING, OUTSIDE SWIVEL



29 572

**29 572**

GDA, WB, 120 bar, DN 12, **10 m**,  
(24,1 kg)

**29 573**

GDA, WB, 120 bar, DN 12, **15 m**,  
(26,1 kg)

#### Technical data

dimension, LWH: 495 x 158 x 508  
 connection,  
 discharge hose: G 1/2" male  
 length of connecting hose: 1000 mm  
 connection,  
 connecting hose: G 1/2" female  
 inside diameter of hose: 12 mm  
 operating pressure: 120 bar

### ENCASED, FOR WALL-/FLOOR-MOUNTING, INSIDE SWIVEL



29 562

**29 562**

GDI, WB, 120 bar, DN 12, **10 m**,  
(24,5 kg)

**29 563**

GDI, WB, 120 bar, DN 12, **15 m**,  
(26,5 kg)

#### Technical data

dimension, LWH: 495 x 170 x 508  
 connection,  
 discharge hose: G 1/2" male  
 length of connecting hose: 1000 mm  
 connection,  
 connecting hose: G 1/2" female  
 inside diameter of hose: 12 mm  
 operating pressure: 120 bar



**ENCASED, FOR MOUNTING ON CEILINGS, OUTSIDE SWIVEL**

**Technical data**

dimension, LWH: 495 x 158 x 520  
 connection,  
 discharge hose: G 1/2" male  
 length of connecting hose: 1000 mm  
 connection,  
 connecting hose: G 1/2" female  
 inside diameter of hose: 12 mm  
 operating pressure: 120 bar

**Hose reels for anti-freeze**

GDA, D, 120 bar, DN 12, **10 m**,  
 (24,3 kg)  
 GDA, D, 120 bar, DN 12, **15 m**,  
 (26,3 kg)

Article no.

**29 592**

**29 593**



29 592

**ENCASED, FOR MOUNTING ON CEILINGS, INSIDE SWIVEL**

**Technical data**

dimension, LWH: 495 x 158 x 520  
 connection,  
 discharge hose: G 1/2" male  
 length of connecting hose: 1000 mm  
 connection,  
 connecting hose: G 1/2" female  
 inside diameter of hose: 12 mm  
 operating pressure: 120 bar

**Hose reels for anti-freeze**

GDI, D, 120 bar, DN 12, **10 m**,  
 (23,9 kg)  
 GDI, D, 120 bar, DN 12, **15 m**,  
 (25,9 kg)

**29 582**

**29 583**



29 582

**HOSE REELS FOR WATER/HOT WATER**

**OPEN, FOR WALL-/FLOOR-MOUNTING**

**Technical data**

dimension, LWH: 472 x 152 x 498  
 connection,  
 discharge hose: G 3/8" male  
 length of connecting hose: 1000 mm  
 connection,  
 connecting hose: G 3/8" female  
 inside diameter of hose: 10 mm  
 operating pressure: 200 bar  
 water temperature: up to 130 °C

**Hose reels for anti-freeze**

O, WB, 200 bar, DN 10, **10 m**,  
 (17,2 kg)  
 O, WB, 200 bar, DN 10, **15 m**,  
 (19,2 kg)

**29 742**

**29 743**



29 742

**OPEN, FOR MOUNTING ON CEILINGS**

**Technical data**

dimension, LWH: 475 x 158 x 520  
 connection,  
 discharge hose: G 3/8" male  
 length of connecting hose: 1000 mm  
 connection,  
 connecting hose: G 3/8" female  
 inside diameter of hose: 10 mm  
 operating pressure: 200 bar  
 water temperature: up to 130 °C

**Hose reels for anti-freeze**

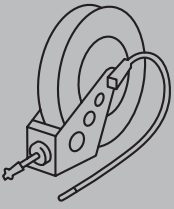
O, D, 200 bar, DN 10, **10 m**,  
 (20,8 kg)  
 O, D, 200 bar, DN 10, **15 m**,  
 (22,8 kg)

**29 752**

**29 753**



29 752



# Air/Water Supply

Article no.

## HOSE REELS FOR WATER/HOT WATER

### ENCASED, FOR WALL-/FLOOR-MOUNTING, OUTSIDE SWIVEL



29 772

**29 772**

GDA, WB, 200 bar, DN 10, **10 m**,  
(23,8 kg)

**29 773**

GDA, WB, 200 bar, DN 10, **15 m**,  
(25,5 kg)

#### Technical data

dimension, LWH:	495 x 158 x 508
connection,	
discharge hose:	G 3/8" male
length of connecting hose:	1000 mm
connection,	
connecting hose:	G 3/8" female
inside diameter of hose:	10 mm
operating pressure:	200 bar
water temperature:	up to 130 °C

### ENCASED, FOR WALL-/FLOOR-MOUNTING, INSIDE SWIVEL



29 762

**29 762**

GDI, WB, 200 bar, DN 10, **10 m**,  
(24,2 kg)

**29 763**

GDI, WB, 200 bar, DN 10, **15 m**,  
(26,2 kg)

#### Technical data

dimension, LWH:	495 x 170 x 508
connection,	
discharge hose:	G 3/8" male
length of connecting hose:	1000 mm
connection,	
connecting hose:	G 3/8" female
inside diameter of hose:	10 mm
operating pressure:	200 bar
water temperature:	up to 130 °C

### ENCASED, FOR MOUNTING ON CEILINGS, OUTSIDE SWIVEL



29 792

**29 792**

GDA, D, 200 bar, DN 10, **10 m**,  
(24 kg)

**29 793**

GDA, D, 200 bar, DN 10, **15 m**,  
(26 kg)

#### Technical data

dimension, LWH:	495 x 158 x 520
connection,	
discharge hose:	G 3/8" male
length of connecting hose:	1000 mm
connection,	
connecting hose:	G 3/8" female
inside diameter of hose:	10 mm
operating pressure:	200 bar
water temperature:	up to 130 °C

### ENCASED, FOR MOUNTING ON CEILINGS, INSIDE SWIVEL



29 782

**29 782**

GDI, D, 200 bar, DN 10, **10 m**,  
(23,6 kg)




**29 783**

GDI, D, 200 bar, DN 10, **15 m**,  
(25,6 kg)


#### Technical data

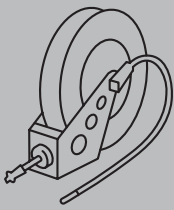
dimension, LWH:	495 x 170 x 520
connection,	
discharge hose:	G 3/8" male
length of connecting hose:	1000 mm
connection,	
connecting hose:	G 3/8" female
inside diameter of hose:	10 mm
operating pressure:	200 bar water
temperature:	up to 130 °C



<b>ACCESSORIES TO SUIT HOSE REELS</b>		Article no.
<p><b>Technical data</b>                      dimension, LWH: 170 x 105 x 220                      swivel range: 2 x 45°                      material: steel                      weight: 1,8 kg                      lacquering: Pantone 294c, blue satin</p> <p><b>Specification</b></p> <ul style="list-style-type: none"> <li>• wall-mounted swivel bracket to suit all types of hose reels</li> </ul>	<p><b>Wall-mounting</b>                      90° swivel bracket</p>	<p><b>29 930</b></p>  <p>29 930</p>
<p><b>Technical data</b>                      material: steel                      lacquering: Pantone 294c, blue satin</p> <p><b>Specification</b></p> <ul style="list-style-type: none"> <li>• suits for lateral installation of a hose reel (e.g. in garage service pits)</li> </ul>	<p><b>Angle bracket for installation</b></p>	<p><b>29 940</b></p>  <p>29 940</p>
<p><b>Technical data</b>                      material: Polyamide                      colour: RAL 6018, green (water use)                      RAL 7001, grey (air use)</p> <p><b>Specification</b></p> <ul style="list-style-type: none"> <li>• for hoses of 17.5 mm outside diameter</li> <li>• suitable for air and water hoses</li> </ul>	<p><b>Hose stop 3/8"</b></p>	<p><b>29 977</b></p>  <p>29 977</p>

**HOSE REELS - SPECIAL VERSIONS**

<b>ENCASED, FOR WALL-MOUNTING AND MOUNTING ON CEILINGS</b>		Article no.
<p><b>Technical data</b>                      dimension, LWH: 400 x 350 x 230                      hose length: 16 m                      connection, discharge hose: G 1/4" male                      connection, connecting hose: G 3/8" female                      inside diameter of hose: 8 mm                      operating pressure: 15 bar                      casing material: PA                      weight: 7,8 kg</p> <p><b>Specification</b></p> <ul style="list-style-type: none"> <li>• hose stop</li> </ul> <p>Remarks                      The use of a quick connecting coupler (20 022) is recommended.</p>	<p><b>Hose reel, compressed air</b>                      outside swivel, for mounting on wall and ceilings, DN 8, 16 m</p>	<p><b>29 036</b></p>  <p>29 036</p>



# Air/Water Supply

Article no.

## HOSE REELS - SPECIAL VERSIONS

### ENCASED, FOR WALL-MOUNTING AND MOUNTING ON CEILINGS



29 051

29 051

**Electric cable reel**  
for mounting on walls and ceilings, 11,5 m, swivel bracket

**Technical data**

dimension, LWH:	300 x 300 x 150
voltage:	230 V
connection, power rolled up:	3 KW
connection, power unrolled:	3 KW
length of connecting cable:	1,5 m
electric adapters:	euro plugs
length of cable:	11,5 m
fuse:	thermal safety overload switch
casing material:	Polyamide
weight:	4,1 kg
mark of conformity:	German Technical Supervision Board and GS-sign (Safety Examined)

**Specification**

- hose stop



20 233

20 233

## AIR BLOW GUNS

**Air blow gun, Aluminum body**  
short nozzle

**Specification**

- male quick connecting coupler to suit Rectus coupler, type 26, NW 7.2 mm
- removable short nozzle (concentrated air flow)
- designed to blow out blind holes



20 235

20 235

**Air blow gun, plastic body**  
105 mm pipe

**Specification**

- male quick connecting coupler to suit Rectus coupler, type 26, NW 7.2 mm
- aluminium pipe
- to blow out deep holes and not easy accessible locations

20 235 950

**Air blow gun, plastic body**  
105 mm pipe, G 1/4" female

**Specification**

- Aluminium pipe
- to blow out deep holes and not easy accessible locations



20 240

20 240

## COMPRESSED AIR SPRAY NOZZLE

**Compressed air spray nozzle**  
1 l container

**Technical data**

medium: liquid oils

**Specification**

- male quick connecting coupler to suit Rectus coupler, type 26, NW 7.2 mm
- 1 l container

**WATER GUN**

**Technical data**

operating pressure: max. 40 bar  
 operating temperature: 0 °C to 90 °C  
 connection: G 3/8" female  
 medium: water

**Water gun with  
 regulating wheel**  
 G 3/8" female

**Specification**

- spray jet manually controlled by using of a regulating wheel
- rubber handgrip
- suitable for hose reels

Article no.

**20 250**



20 250

**ACCESSORIES**

**AIR MAINTENANCE UNITS**

**Technical data**

connection 1: G 1/4" female  
 connection 2: G 1/4" female  
 max. operating pressure: 10 bar  
 regulating air pressure: 0,5 - 10 bar  
 normal flow rate\*: 6,3 l/sec  
 filter: 40 my  
 condensate volume: 0,017 l  
 operating temperature: 0 °C to +50 °C  
 casing material: zinc die casting

**Air maintenance unit**

**20 218**

\* at a 10 bar airline pressure, 6 bar operating pressure and  $\Delta p=1$  bar

**Specification**

- pressure regulator with gauge, moisture separating filter and lubricator



20 218

**Technical data**

connection 1: G 1/4" male  
 connection 2: to suit Rectus airline connector, type 26  
 NW: 7,2 mm  
 max. operating pressure: 10 bar  
 regulating air pressure: 0,5 - 10 bar  
 normal flow rate\*: 6,3 l/sec  
 filter: 40 my  
 condensate volume: 0,017 l  
 operating temperature: 0 °C to +50 °C  
 casing material: zinc die casting

**Air maintenance unit,  
 complete set**

**20 218 950**

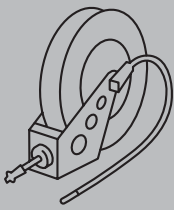
\* at a 10 bar airline pressure, 6 bar operating pressure and  $\Delta p=1$  bar

**Specification**

- pressure regulator with gauge, moisture separating filter and lubricator
- male quick release coupler
- G 1/4" male/male adapter



20 218 950



# Air/Water Supply

Article no.

## COMPRESSED AIR DISCHARGE HOSES



20 913

20 913

20 914

20 915

20 917

### Compressed air discharge

hoses, acc. to DIN 20 021 (EN 854)

operating pressure: 20 bar  
**5 m, G 3/8" female,**  
 G 3/8" male

**8 m, G 3/8" female,**  
 G 3/8" male

### Technical data

connection 1: G 3/8" female,  
 60 ° sealing cone  
 connection 2: G 3/8" male,  
 60 ° sealing cone  
 hose inside diameter: 10 mm

### Compressed air discharge

hoses, acc. to DIN 20 022 (EN 853)

operating pressure: 180 bar  
**10 m, G 3/8" female,**  
 G 3/8" male

**15 m, G 3/8" female,**  
 G 3/8" male



20 022



20 032



20 043



20 052

20 022

20 024

20 026

20 032

20 034

20 036

## QUICK CONNECTING COUPLERS

### Quick connecting couplers, Rectus

Typ 26, **G 1/4" female,**  
 wrench width 22

Typ 26, **G 3/8" female,**  
 wrench width 22

Typ 26, **G 1/2" female,**  
 wrench width 24

Typ 26, **G 1/4" male**  
 wrench width 22

Typ 26, **G 3/8" male,**  
 wrench width 22

Typ 26, **G 1/2" male,**  
 wrench width 24

### Technical data

connection : quick release connector,  
 Rectus, type 26  
 function: one-sided locking  
 sealing: Perbunan  
 NW: 7,2 mm  
 temperature range: - 20 °C to +100 °C  
 pressure range: 0 - 35 bar, as well as with  
 low vacuum  
 material: brass

20 043

20 045

### Quick connecting couplers, Rectus Typ 26,

**connection 6 mm, male,**  
 for hoses of DN 6, wrench  
 width 24 mm

**connection 9 mm, male,**  
 for hoses of DN 9, wrench  
 width 21 mm

### Technical data

connection: quick release connector,  
 Rectus, type 26  
 function: one-sided locking  
 sealing: Perbunan  
 NW: 7,2 mm  
 temperature range: - 20 °C to +100 °C  
 pressure range: 0 - 35 bar, as well as with  
 low vacuum  
 material: brass

### Quick release coupler

to suit Rectus couplers,  
 type 26

**G 1/4" female**  
 wrench width: 17 mm

**G 3/8" female**  
 wrench width: 19 mm

### Technical data

connection: to suit Rectus coupler,  
 type 26  
 NW: 7,2 mm  
 material: brass

**Technical data**

connection: to suit Rectus coupler, type 26  
 NW: 7,2 mm  
 material: brass

**Quick release adapter**

to suit Rectus coupler, type 26

**G 1/4" male**

wrench width: 12 mm  
 to be used for mounting of an air maintenance unit (20 218)

**G 3/8" male**

wrench width: 19 mm

**G 1/2" male**

wrench width: 22 mm

Article no.

20 062



20 062

20 064

20 066

**COILED AIR HOSE**

**Technical data**

length of hose: 5 m  
 connection 1: female Rectus quick release airline connector, type 26  
 connection 2: to suit male Rectus quick release airline connector, type 26  
 NW: 7,2 mm  
 dynamic operating pressure: 17 bar

**Coiled air hose, 5 m**

20 185



20 185

**Specification**

- to connect the compressed airline to a compressed air tool

**AIRLINE CONNECTORS**

**Technical data**

connection: to suit Rectus coupler, type 26  
 NW: 7,2 mm  
 material: brass

**Airline connectors,**

to suit Rectus coupler, type 26

**6 mm male, for hoses of DN 6**

20 073

**9 mm male, for hoses of DN 9**

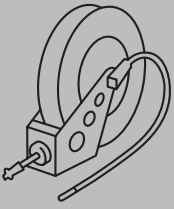
20 075

**13 mm male, for hoses of DN 13**

20 077



20 075



# Air/Water Supply

Article no.

## ADAPTERS

**Adapter,**  
60° sealing cone

### Technical data

pressure: - 0.95 to 15 bar  
temperature range: - 10 °C to +70 °C  
material: brass

### Specification

- with an inside cone, acc. to DIN EN 560



20 112

**20 112**

**G 1/4" male, G 1/4" male**

NW: 7,2 mm,  
wrench width: 17 mm  
to be used for mounting of an air maintenance unit (20 218)

**20 114**

**G 3/8" male, G 3/8" male**

NW: 10 mm, wrench width: 19 mm

**20 116**

**G 1/2" male, G 1/2" male**

NW: 12 mm, wrench width: 24 mm

**20 118**

**G 1" male, G 1" male**

NW: 25 mm, wrench width: 34 mm  
For connecting of a mechanical meter with a control valve, G 1" male

## HOSE NOZZLES

### Male hose nozzle

### Technical data

material: brass



20 133

**20 132**

wrench width 17 mm  
**6 mm, G 1/4" male**, for hoses of DN 6

**20 133**

wrench width 17 mm  
**9 mm, G 1/4" male**, for hoses of DN 9

**20 134**

wrench width 19 mm  
**6 mm, G 3/8" male**, for hoses of DN 6

**20 135**

wrench width 19 mm  
**9 mm, G 3/8" male**, for hoses of DN 9

**20 136**

wrench width 24 mm  
**12 mm, G 1/2" male**, for hoses of DN 12

**02 803**

wrench width 32 mm  
**19 mm, G 3/4" male**, for hoses of DN 19

<b>HOSE CLIPS</b>		Article no.
<b>Technical data</b> bandwidth: 9 mm tape and casing material: 1.4016 (high-alloyed steel)	<b>Hose O-clips</b> adjustable from 10 to 16 mm adjustable from 12 to 20 mm adjustable from 16 to 25 mm	20 152 20 154 20 156
<b>Technical data</b> material: steel, bright chromium-galvanized	<b>Two-ear clips</b> adjustable from 11 to 13 mm adjustable from 13 to 15 mm adjustable from 15 to 18 mm	20 162 20 164 20 166
<b>SLEEVES</b>		
<b>Technical data</b> material: brass	<b>Sleeve</b> G 1/2" female, G 1/2" female G 3/4" female, G 3/4" female	20 120 20 121
<b>PVC REINFORCED AIR HOSES</b>		
<b>Technical data</b> pressure: 17 bar  <b>Specification</b> • transparent	<b>PVC reinforced air hose</b>  I.D. 6 mm <b>12 mm male, 20 m</b>  I.D. 9 mm <b>15 mm male, 20 m</b>  I.D. 9 mm <b>15 mm male, piece goods</b>	20 192  20 194  20 193



20 154



20 164

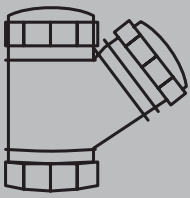


20 120

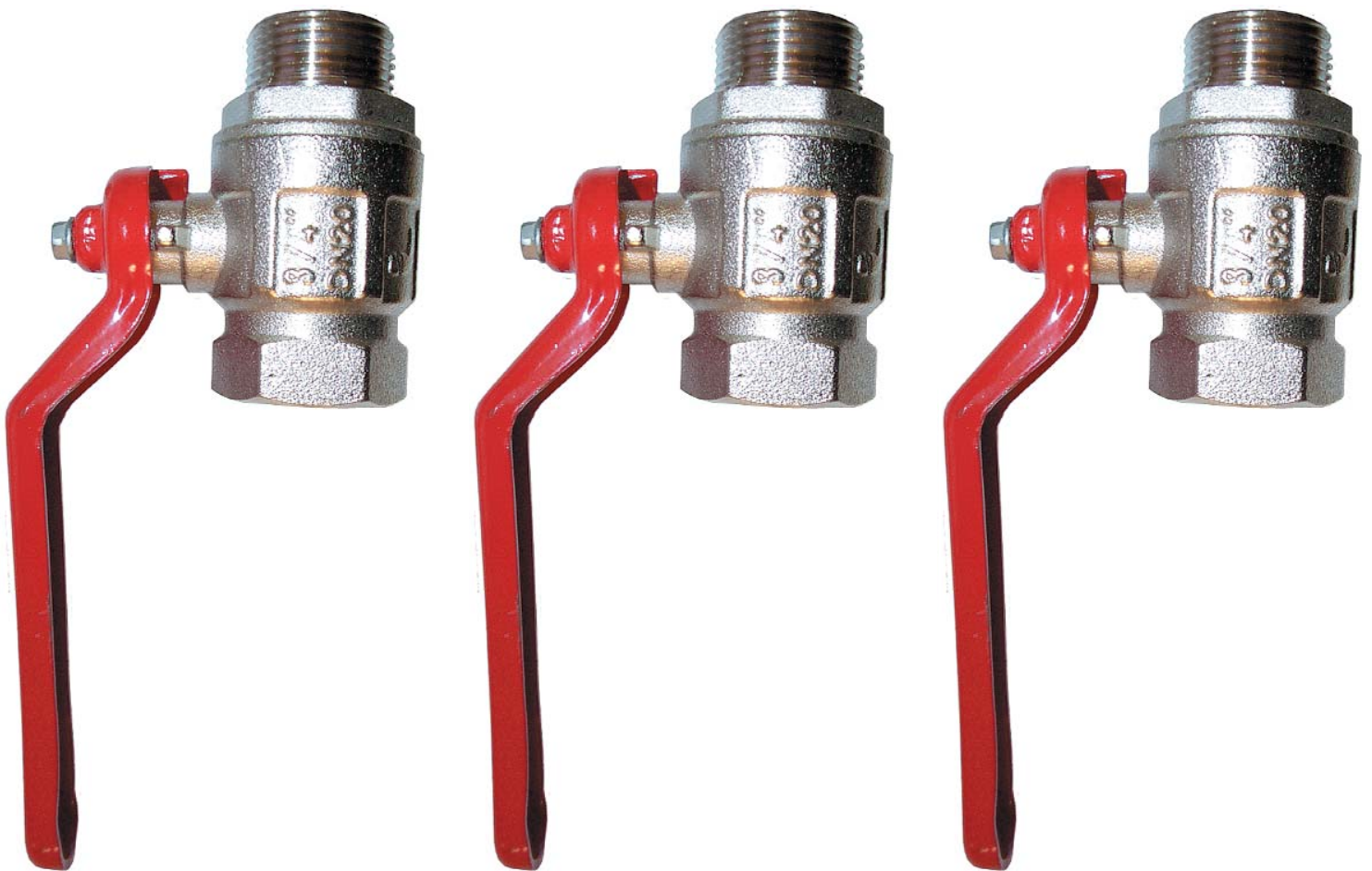


20 193





## ***Lever Ball Valves/Inline Filters/Adapters***



***... there are no more connecting problems.***

**HOSE NOZZLES**

**Technical data**

material: brass

**Male hose nozzle**

wrench width 17 mm

**6 mm, G 1/4" male**, for hoses of DN 6

**20 132**

wrench width 17 mm

**9 mm, G 1/4" male**, for hoses of DN 9

**20 133**

wrench width 19 mm

**6 mm, G 3/8" male**, for hoses of DN 6

**20 134**

wrench width 19 mm

**9 mm, G 3/8" male**, for hoses of DN 9

**20 135**

wrench width 24 mm

**12 mm, G 1/2" a**, for hoses of DN 12

**20 136**

wrench width 32 mm

**19 mm, G 3/4" a**, for hoses of DN 19

**02 803**



20 133

**HOSE CLIPS**

**Technical data**

bandwidth: 9 mm

tape and casing

material: 1.4016  
(high-alloyed steel)

**Hose O-clips**

**adjustable from 10 to 16 mm**

**adjustable from 12 to 20 mm**

**adjustable from 16 to 25 mm**

**20 152**

**20 154**

**20 156**



20 154

**Technical data**

material: steel, bright,  
chromium-galvanized

**Two-ear clips**

**adjustable from 11 to 13 mm**

**adjustable from 13 to 15 mm**

**adjustable from 15 to 18 mm**

**20 162**

**20 164**

**20 166**



20 164

**TAPE**

**Technical data**

colour: white

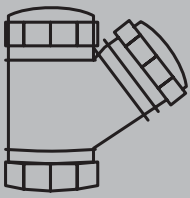
**Tape, PTFE**

L=12 m, 12 mm x 0,1 mm

**20 178**



20 178



# Lever Ball Valves/Inline Filters/Adapters



19 760

Article no.

## INLINE FILTERS

	Inline filters	Technical data
19 760	G 1/2" female, G 1/2" female, inside diameter: 12 mm	sieve mesh size: 0,5 mm operating pressure: 16 bar material: brass medium: oil
19 761	G 3/4" female, G 3/4" female, inside diameter: 20 mm	
19 769	G 1" female, G 1" female, inside diameter: 25 mm	

## LEVER BALL VALVES



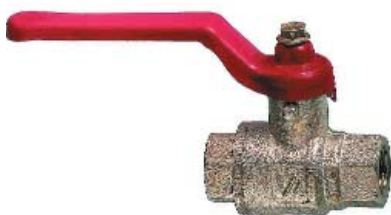
18 096

	Lever ball valves	Technical data
18 095	G 1/4" female, G 1/4" female, NW: 6 mm	operating pressure: 400 bar material: steel medium: grease
18 096	G 3/8" female, G 3/8" female, NW: 9 mm	
18 097	Lever ball valve G 1/2" female, G 1/2" female, NW: 13 mm	connections: G 1/2" female NW: 13 mm operating pressure: 500 bar material: steel medium: grease



19 778

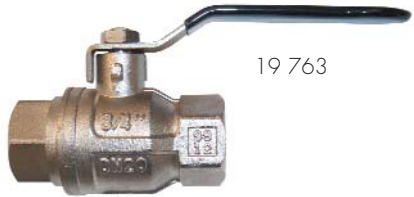
19 778	Lever ball valve G 3/4" female, G 3/4" male	Technical data connection 1: G 3/4" female connection 2: G 3/4" male inside diameter: 20 mm design length: 80 mm operating pressure: 55 bar material: nickelized brass medium: oils, air
		Specification • with a long thread



19 762

19 764	Lever ball valves G 1/4" female, G 1/4" female operating pressure: 50 bar	Technical data design length: 54 mm inside diameter: 10 mm material: nickelized brass medium: oils, air
19 765	G 3/8" female, G 3/8" female operating pressure: 60 bar	
19 762	Lever ball valve G 1/2" female, G 1/2" female	Technical data connections: G 1/2" female inside diameter: 12 mm body length: 63 mm operating pressure: 60 bar material: nickelized brass medium: oils, air

<b>Technical data</b>	connections: G 3/4" female body length: 57 mm inside diameter: 20 mm operating pressure: 30 bar material: nickelized brass medium: oils, air	<b>Lever ball valve</b> <b>G 3/4" female, G 3/4" female</b>	Article no. <b>19 763</b>
<b>Technical data</b>	connections: G 1" female body length: 85 mm inside diameter: 25 mm operating pressure: 50 bar material: nickelized brass medium: oils, air	<b>Lever ball valve</b> <b>G 1" female, G1" female</b>	<b>19 767</b>
<b>Technical data</b>	connections: G 1 1/4" female design length: 100 mm inside diameter: 32 mm operating pressure: 45 bar material: nickelized brass medium: oils, air	<b>Lever ball valves</b> <b>G 1 1/4" female,</b> <b>G 1 1/4" female</b>	<b>19 771</b>
<b>Technical data</b>	operating pressure: 40 bar ball/casing material: nickelized brass sealing: 2 Viton O rings temperature range: - 20 °C to +170 °C medium: oils, air	<b>Lever ball valves</b> <b>G 1 1/2" female,</b> <b>G 1 1/2" female</b> inside diameter: 40 mm design length: 120 mm	<b>19 772</b>
<b>Specification</b>	<ul style="list-style-type: none"> <li>with a long thread</li> </ul>	<b>G 2" female, G 2" female</b> inside diameter: 50 mm design length: 140 mm	<b>19 773</b>



19 763



19 767



19 771



19 773

### BACK FLOW VALVES

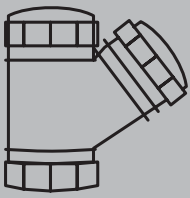
<b>Technical data</b>	working pressure: 16 bar material: brass medium: oils, water	<b>Back flow valves</b> <b>G 3/4" female, G 3/4" female</b> design length: 53 mm	<b>19 891</b>
<b>Specification</b>	<ul style="list-style-type: none"> <li>with long threads</li> </ul>	<b>G 1" female, G 1" female</b> design length: 58,5 mm	<b>19 892</b>
<b>Technical data</b>	working pressure: 18 bar material: brass medium: oils, water	<b>Back flow valves</b> <b>G 1 1/4" female,</b> <b>G 1 1/4" female</b> design length: 80 mm	<b>19 893</b>
		<b>G 1 1/2" female,</b> <b>G 1 1/2" female</b> design length: 85,5 mm	<b>19 894</b>
		<b>G 2" female, G 2" female</b> design length: 94 mm	<b>19 895</b>



19 892



19 895



# Lever Ball Valves/Inline Filters/Adapters

Article no.

## BACK FLOW VALVES

19 897

**Solenoid valve,  
G 1/4" female, G 1/4" female  
2/2 way air valve**

### Technical data

dimension, LWH: 55 x 70 x 22  
medium: air  
connections: G 1/4" female  
NW: 7,2 mm  
pressure range: 0,3 – 10 bar  
ambient temperature: 0 °C to +60 °C  
nominal voltage: 230V / 50Hz  
safety type: IP 65  
duty cycle, ED: 100 %  
sealing material: NBR  
material: brass

### Specification

- currentless circled
- epoxy-resin-pressed coil parts



19 897

## RETENTION ADAPTERS/ADAPTERS

18 016

### Sleeves

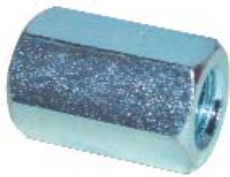
**M 10 x 1 female, M 10 x 1 female**

### Technical data

length: 24 mm  
wrench width: 15 mm  
material: galvanized steel

18 017

**G 1/8" female, G 1/8" female**



18 016

12 016

### Retention adapters

**G 1/8" female, M 10 x 1 male**

### Technical data

inside diameter: 5 mm  
length: 23 mm  
wrench width: 13 mm  
material: galvanized steel

12 086

**R 1/8" male, M 10 x 1 female**



12 016

18 093

### Retention adapter

**G 1/4" male, G 1/8" female**

### Technical data

connection 1: G 1/4" male  
connection 2: G 1/8" female  
inside diameter: 5 mm  
length: 28 mm  
wrench width: 19 mm  
material: galvanized steel



18 093

19 418

### Retention adapter

**G 3/4" female, G 2" male  
acc. to DIN EN 10242-N4**

### Technical data

connection 1: G 3/4" female  
connection 2: G 2" male  
length: 48,5 mm  
wrench width: 65 mm  
material: galvanized cast steel

### Specification

- For mounting of level indicators of the overflow protection valve (19 412) on storage tanks



19 418

<b>Technical data</b>	connection 1: G 1/2" male connection 2: G 3/4" female inside diameter: 15 mm length: 30 mm material: brass	<b>Retention adapter</b> G 1/2" male, G 3/4" female	Article no. <b>19 626</b>
<b>Technical data</b>	material: galvanized cast steel inside diameter: 17,5 mm	<b>Retention sleeves</b> DIN EN 10242-M 4  <b>G 1" female, G 3/4" male</b> design length: 56,3 mm  <b>G 1 1/4" female, G 3/4" male</b> design length: 60,4 mm	<b>19 627</b>  <b>19 629</b>
<b>Technical data</b>	material: galvanized cast steel	<b>Retention sleeves</b> DIN EN 10242-M2  <b>G 1" female, G 3/4" female</b> design length: 56,3 mm  <b>G 1 1/4" female, G 3/4" female</b> design length: 60,4 mm	<b>19 628</b>  <b>19 630</b>
<b>Technical data</b>	material: brass	<b>Retention adapters</b>  <b>G 1/4" female, G 3/8" male</b> design length: 14 mm, wrench width 19 mm  <b>G 3/8" female, G 1/2" male</b> design length: 18 mm, wrench width 24 mm  <b>G 1/2" female, G 3/4" male</b> design length: 24,3 mm, wrench width 32 mm	<b>20 122</b>  <b>20 124</b>  <b>20 126</b>
<b>Technical data</b>	connection 1: G 1" male connection 2: G 3/4" female length: 21 mm wrench width: 36 mm material: brass	<b>Adapter, short version</b> G 1" male, G 3/4" female	<b>03 419</b>
<b>Technical data</b>	connection 1: G 1/4" male, 60° sealing cone connection 2: R 1/4" male, DIN 2999 inside diameter: 5,5 mm length: 35 mm wrench width: 18 mm material: galvanized steel	<b>Adapter</b> G 1/2" male, R 3/4" male	<b>18 085</b>



19 626



19 627



19 628



20 122

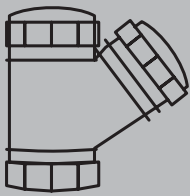


03 419



18 085





# Lever Ball Valves/Inline Filters/Adapters

Article no.

## RETENTION ADAPTERS/ADAPTERS



18 086



18 087



18 088



19 619



19 636



19 637



19 638

18 086

**Adapter**  
G 1/2" male, R 3/4 " male

**Technical data**

connection 1: G 1/4" male, 60° sealing cone  
 connection 2: R 1/2" male, DIN 2999  
 inside diameter: 5,5 mm  
 length: 42,9 mm  
 wrench width: 24 mm  
 material: galvanized steel

18 087

**Adapter**  
G 3/8" male, R 1/2 " male

**Technical data**

connection 1: G 3/8" male, 60° sealing cone  
 connection 2: R 1/2" male, DIN 2999  
 inside diameter: 9,5 mm  
 length: 43,6 mm  
 wrench width: 24 mm  
 material: galvanized steel

18 088

**Adapter**  
G 3/8" male, G 3/8" male

**Technical data**

connections: G 3/8" male, 60° sealing cone  
 inside diameter: 9,5 mm  
 length: 32 mm  
 wrench width: 22 mm  
 material: galvanized steel

19 619

**Adapter**  
R 1/2" male, G 1/2" male

**Technical data**

connection 1: R 1/2" male, DIN 2999  
 connection 2: G 1/2" male,  
 60° sealing cone  
 inside diameter: 12 mm  
 opening of the spanner: 26 mm  
 material: steel, galvanized

19 636

**Adapter**  
G 1/2" male, G 3/4" male

**Technical data**

connection 1: G 1/2" male, 60° sealing cone  
 connection 2: G 3/4" male, 60° sealing cone  
 inside diameter: 12 mm  
 opening of the spanner: 32 mm  
 material: brass

19 637

**Adapter**  
R 3/4" male, G 3/4 " male

**Technical data**

connection 1: R 3/4" male, DIN 2999  
 connection 2: G 3/4" male,  
 60° sealing cone  
 inside diameter: 16 mm  
 opening of the spanner: 30 mm  
 material: galvanized steel

19 638

**Retention adapter,**  
R 1" male, G 3/4" male

**Technical data**

**Specification**

- for connecting of a mechanical meter with a control valve, G 1" male

connection 1: R 1" male, DIN 2999  
 connection 2: G 3/4" male,  
 60° sealing cone  
 inside diameter: 16,6 mm  
 wrench width: 33 mm  
 material: galvanized steel



<b>Technical data</b>	connection 1: G 1/4" male, 60° sealing cone connection 2: G 1/8" male, 60° sealing cone inside diameter: 4,5 mm wrench width: 18 mm material: galvanized steel	<b>Adapter</b> G 1/4" male, G 1/8" male	Article no. <b>20 111</b>
<b>Technical data</b>	connection 1: R 3/8" male, DIN 2999 connection 2: G 1/2" a, 60° sealing cone inside diameter: 9 mm wrench width: 24 mm material: galvanized steel	<b>Adapter</b> R 3/8" male, G 1/2" male	<b>20 251</b>



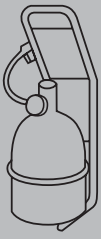
20 111



20 251

### RETENTION ADAPTERS

<b>Technical data</b>	connections: G 2" male and M 64 x 4 male wrench width: 50 mm	<b>Retention adapter</b>	<b>13 080</b> <b>19 526</b> <b>19 527</b> <b>19 528</b>	
<b>Specification</b>	<ul style="list-style-type: none"> <li>two-step threads</li> <li>locking screw</li> <li>to suit metal containers with G 2" female connecting thread</li> </ul>	to suit Ø 32 mm pipes to suit Ø 35,5 mm pipes to suit Ø 40 mm pipes to suit Ø 27,5 mm pipes		
<b>Technical data</b>	connection: M 60 x 5 female	<b>Retention adapter</b> to suit Ø 35,5 mm pipes	<b>19 529</b>	
<b>Specification</b>	<ul style="list-style-type: none"> <li>locking screws</li> <li>to suit plastic containers with male connecting thread</li> </ul>	<b>Retention adapter</b> to suit Ø 35,5 mm pipes	<b>19 519</b>	
<b>Technical data</b>	connection: M 62.5 x 4 female	<b>Retention adapter</b> to suit Ø 35,5 mm pipes	<b>19 519</b>	
<b>Specification</b>	<ul style="list-style-type: none"> <li>locking screw</li> <li>to suit plastic containers with male connecting thread</li> </ul>			



## Workshop Equipment



*We thought even  
about the „small parts“*

Article no.

**DEGREASING UNITS**

**Technical data**

working surface: 780 mm x 530 mm  
 height: 300 mm  
 weight: 20 kg  
 voltage: 230 V  
 adapter: euro plug

**Media:**

For cleaning liquids with a flash point higher than 55 °C (65 °C - 70 °C), hazard class A III, acc. to Vbf (German regulation)

**Specification**

- safety foot switch, cleaning brush, self-priming electric pump with a thermal safety overload switch
- plug connection as a top unit for 200 l standard container
- collecting tray (for screwing onto a tank)
- galvanized strainer
- anti-splash guards, with edge protection on three sides
- connecting cable with an euro plug
- suitable for 200 l containers
- For use in conjunction with liquids, which may cause water pollution, a separate container storage unit (19 802/19 804) is recommended.

**Remarks**

For recycling, please adhere to national and regional regulations.

**Degreasing unit**

electric pump

**23 137**



23 137

**Technical data**

working surface: 650 mm x 550 mm  
 working height: 1060 mm  
 operating pressure: 0,5 bar  
 weight: 35 kg  
 lacquering: RAL 7040, window grey satin

**Media:**

For cleaning liquids with a flash point higher than 55 °C (65 °C - 70 °C), hazard class A III, acc. to Vbf (German regulation)

**Specification**

- 65 l container with a level indicator and 54 l collecting tray with integral stainless steel strainer
- cleaning brush
- 2 rigid wheels, 2 castor wheels
- discharge nozzle, pressure reduction valve and blow-out gun

**Remarks**

For recycling, please adhere to national and regional regulations.

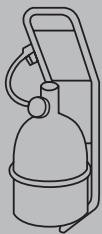
**Degreasing unit**

pneumatically operated

**23 139**



23 139



# Workshop Equipment

Article no.

## BREAK BLEEDER

19 776

Brake bleeder

### Technical data

dimension, LWH:	240 x 310 x 620
air chamber volume:	5 l
operating pressure of the air chamber:	10,5 bar
operating pressure of the brake-fluid reservoir:	2,5 bar
brake fluid tank volume:	5l

### Specification

- to vent brake units and clutches of vehicles
- inside rubber diaphragm separates air and brake fluid reliably from each other
- automatic switch-off at 0.5 l
- universal adapter

### Remarks

Not applicable for liquids of hazard class A I, A II or B. Please use brake fluid, which is recommended by the car manufacturer.



19 776



**WORKING BENCHES**

**Technical data**

capacity: 1 x 200 l container  
 dimensions (LWH): 785 x 900 x 2370 mm  
 material: welded steel  
 surface treatment: degreased,  
 phosphatized,  
 primed, lacquered  
 lacquering: RAL 7040,  
 window grey satin  
 working bench: with container  
 storage and  
 protecting unit with  
 4 integral wheels  
 oil discharge: pneumatic 3:1 oil  
 pump, 10 m open  
 hose reel, digital  
 hose end meter  
 (19 707 950)  
 weight: 115 kg  
 connections: G 1/2"

**Working bench with integral  
 covered container storage  
 unit to suit 200 l container**

**Specification**

- working bench with rubber protected surface 600 x 785 mm
- height of working bench 1050 mm
- integral oil container storage unit
- easy change of oil containers
- oil meter storage bracket with oil drip tray
- modular assembly - pneumatic pump and hose reel can be mounted on right or left side of the working bench
- tools can be easily stored on the integral tool storage grid

Article no.

**19 040**

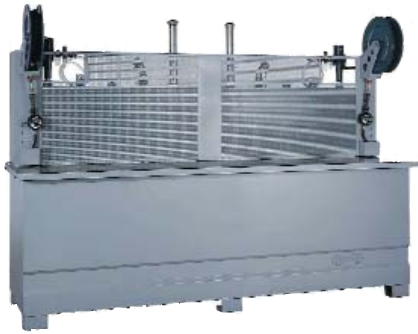


19 040

# Workshop Equipment

Article no.

## WORKING BENCHES



19 034

19 034

**Working bench with two separate integral 1250 l welded steel tanks**

### Technical data

capacity:	1 x 1250 l container
dimensions (LWH):	3250 x 900 x 2340 mm
material:	welded steel
surface treatment:	degreased, phosphatized, primed, lacquered
lacquering:	RAL 7040, window grey satin
connections:	5 x G 2" female, each tank
oil discharge:	two sets consisting of a pneumatic 3:1 oil pump with an air maintenance unit, a 10 m open hose reel and a digital hose end meter (19 707 950)
weight:	720 kg
connections (oil discharge):	G 1/2" female

### Specification

- working bench with rubber protected surface 3250 x 570 mm
- height of working bench 900 mm
- integral level indicator for each tank
- Tools can be easily stored on the integral tool storage grid



19 044

19 044

**Double working bench with integral covered container storage unit to suit two 200 l container**

### Technical data

capacity:	1 x 200 l container
dimensions (LWH):	1570 x 900 x 2370 mm
material:	welded steel
surface treatment:	degreased, phosphatized, primed, lacquered
lacquering:	RAL 7040, window grey satin
working bench:	with two oil container storage and protecting units each with 4 integral wheels
oil discharge per unit:	pneumatic 3:1 oil pump, 10 m open hose reel, digital hose end meter (19 707 950)
weight:	230 kg
connections:	G 1/2"

### Specification

- working bench with rubber protected surface 600 x 1570 mm
- height of working bench 1050 mm
- integral oil container storage unit
- easy change of oil containers
- oil meter storage bracket with oil drip tray
- modular assembly - pneumatic pump and hose reel can be mounted on right or left side of the working bench





## Indicating Labels






**ÖLLAGERI**  
**WGK**  
**Unbefugten**  
**verboten**

*„An indication  
saves  
a lot of explanations ...”*





# Indicating Labels

	Article no.	<b>INDICATING LABELS AND ACCESSORIES</b>	
	90 710	<b>Plate, level switch error</b> LW 100 x 50	<b>Technical data</b> material: 2-layer plastic, self-adhesive colour: white inscription: red  <b>Specification</b> <ul style="list-style-type: none"><li>• for fixed chute for waste disposal</li></ul>
	90 711	<b>Plate, oil storage room, WGK II</b> LW 210 x 150	<b>Technical data</b> material: 2-layer plastic, self-adhesive colour: white inscription: blue
	90 712	<b>Plate, full waste oil tank</b> LW 210 x 150	<b>Technical data</b> material: 2-layer plastic, self-adhesive colour: red inscription: white
	90 713	<b>Plate, waste oil collecting tank</b> LW 210 x 150	<b>Technical data</b> material: 2-layer plastic, self-adhesive colour: red inscription: white
	90 714	<b>Plate, tank filling</b> LW 210 x 150	<b>Technical data</b> material: 2-layer plastic, self-adhesive colour: white inscription: red

<p><b>Specification</b></p> <ul style="list-style-type: none"> <li>• universal holder with plastic covering, without planish wall, galvanized</li> <li>• for pipe-work</li> </ul>	<p><b>Universal holder</b> LW 105 x 56 mm</p>	<p>Article no. <b>90 730</b></p>
<p><b>Specification</b></p> <ul style="list-style-type: none"> <li>• to suit universal holder for pipe-work fastening</li> </ul>	<p><b>Tight tape</b> 5 m reel</p>	<p><b>90 731</b></p>
<p><b>Specification</b></p> <ul style="list-style-type: none"> <li>• to suit universal holder (90 730)</li> </ul>	<p><b>Plastic covering</b> LW 105 x 56 mm</p>	<p><b>90 732</b></p>
<p><b>Technical data</b> colour: white material: plastic</p>	<p><b>Blank plate</b> LW 100 x 50 mm</p>	<p><b>90 745</b></p>
<p><b>Specification</b></p> <ul style="list-style-type: none"> <li>• blank plate without inscription ledge</li> </ul>		
<p><b>Specification</b></p> <ul style="list-style-type: none"> <li>• to suit a blank plate (90 745)</li> </ul>	<p><b>Blank ledge</b></p>	<p><b>90 746</b></p>
<p><b>Technical data</b> colour: white inscription: black character height: 7 mm</p>	<p><b>Lettering ledge</b>  partially synthetic oil  full-synthetic oil  motor oil  gear oil  hydraulics oil  A III waste oil, of known origin</p>	<p><b>90 760</b> <b>90 761</b> <b>90 762</b> <b>90 763</b> <b>90 764</b> <b>90 765</b></p>





<b>SPECIAL LEAFLETS</b>		Article no.
Brochure No. 90 980 932 A402	<b>Hose Reels</b>	<b>90 980 932</b>
Brochure No. 90 998 932 A401	<b>Pneumatic Pumps</b>	<b>90 998 932</b>
Brochure No. 90995 932 A402	<b>PREMAxx / ROTAxx</b>	<b>90 995 932</b>



# General Terms of Business

## 1. SCOPE OF APPLICATION

1. Our General Terms of Business shall apply to all present and future business relationships with our customers, in particular for our deliveries and services. Differing, opposing or supplementary general terms of business of our customers, even if we are aware of them, shall not form part of the business relationship unless we have expressly approved their validity.
2. Customers within the meaning of our terms of business are exclusively entrepreneurs, i.e. individuals or legal entities or partnerships with legal capacity for whom the establishment of a business relationship with us represents part of their commercial or free-lance activity.

## 2. CONCLUSION OF CONTRACT

1. Our quotes are not binding. We reserve the right to make technical changes and changes to the shape, colour and/or weight of our products within reasonable limits.
2. By ordering the products the customer makes a binding declaration that he intends to purchase the products ordered. We are entitled to accept the offer contained in the order within two weeks of receiving it. Acceptance may be in writing or through delivery of the products to the customer.

## 3. DELIVERY

1. We are entitled to make partial deliveries or perform partial services at any time unless a partial delivery or partial performance of service is not of interest to the customer.
2. Delivery dates are binding only if they have expressly been confirmed by us as binding. A delivery date shall be deemed to have been kept if the products have left our factory/warehouse by the delivery date. If dispatch or collection is delayed for reasons for which we are not responsible then the delivery date shall be deemed to have been kept if we have informed the customer within the agreed period that the products were ready for dispatch.
3. If a delivery date cannot be kept because of a strike or a lock-out - which may be at one of our suppliers - or because of incorrect or delayed delivery by our suppliers or because of mobilization, war, civil unrest or other unforeseen obstacles beyond our control the delivery period shall be extended by the duration of the obstacle.
4. Our obligation to deliver shall be suspended as long as the customer is in default with a due payment. If delivery of products is to be taken gradually over a certain period of time then delivery shall be spread equally over the entire period of time.

## 4. PAYMENT

1. Terms of payment and the treatment of packaging and freight charges are laid down in the current version of our price lists and terms sheets which to this extent form part of these General Terms of Business. Unless agreed otherwise the cost of packaging and freight shall be borne by the customer.
2. Value added tax at the rate applicable on the day of delivery shall be added to the agreed price.
3. The customer undertakes to pay the purchase price within 10 days of receiving the products. When this period has expired the customer is in default of payment. While he is in default the customer shall pay interest on his debt at a rate of 8% above the base interest rate. We reserve the right, however, to prove and claim higher damages caused by the default.
4. Payment dates shall be deemed to have been kept if the amount due is made available to us within the time period. Discount agreements can be honoured only on condition that all due payments have been made. We accept bills of exchange only by agreement and only as fulfilment of our receivable on condition that the full amount due has been paid into our account. The customer shall bear any expenses incurred.
5. The customer may only set off counterclaims against our claims if his counterclaim is uncontested or has been upheld in a court of law. A customer may exercise his right of retention only if his counterclaim is based on the same contractual relationship.

6. If the customer stops making payments, if he is in debt or if insolvency proceedings have been applied for against him or if he is in default in honouring a bill of exchange or a cheque then all claims which we have against the customer shall become due immediately. This also applies in the case of any other serious deterioration in the customer's economic position. In such cases we are entitled to demand adequate security or to withdraw from the contract.

#### 4. PAYMENT

1. Risks (risks of transport and remuneration) shall pass to the customer at the latest when the products have been handed over to the person carrying out the transport or have left the factory/warehouse to be dispatched. If dispatch is delayed at the customer's request or due to circumstances for which the customer is responsible the risk shall pass to the customer when he is informed that the products are ready for dispatch.
2. The choice of the transport route and means of transport is made at our discretion, with no guarantee that they are the cheapest.
3. At the customer's request, an insurance of the customer's choice shall be taken out for a delivery, the costs of which shall be borne by the customer.

#### 5. PASSING OF RISK

1. We shall retain the ownership of the products until all claims arising from the business relationship have been fully met.
2. The customer must treat the products as intended and with care. Where maintenance and servicing are required the customer must have these carried out regularly at his own cost.
3. The customer must inform us immediately if third parties have access to the products or if they are damaged or destroyed. The customer must inform us immediately of any change of ownership of the products or if he himself changes his address.
4. Should the customer breach the terms of this contract, in particular through default of payment or by breaching an obligation as set out in 2. and/or 3. above, we are entitled to withdraw from the contract and demand the return of the products.
5. If the customer re-designs or processes the products this shall always be done in our name and on our behalf. If the processing or re-designing is done using other objects which do not belong to us we shall acquire ownership of the new object in proportion to the objective value of our products in relation to the other objects used at the time the processing or re-designing was done. This also applies if the products are mixed with other objects which do not belong to us.
6. The customer is entitled to sell or hire out the products to others in the ordinary course of business. He shall immediately assign to us all claims amounting to the final invoice sum agreed with us (including VAT) which have accrued to him through the sale or hiring out of the products to others. This shall apply regardless of whether the customer sells or hires out the products with or without processing, mixing or re-designing. We accept the assignment. After the assignment the customer remains entitled to collect the payment due. This does not affect our right to collect the payment ourselves. We undertake however not to collect the payment due as long as the customer meets his financial obligations to us in the proper manner and is not in default of payment. Further, we undertake, at the customer's request, to release securities due to us where the actual value of our securities exceeds the amount of the claims to be secured by more than 20%; the choice of the securities to be released lies with us.

#### 6. RESERVATION OF TITLE

1. In the case of defects in the products, the defect shall, at the customer's option, be rectified by us either through repair or replacement. We are however entitled to refuse the option chosen if it would involve disproportionately high costs and the other option would not bring the customer serious disadvantages.
2. If the repair or replacement is not successful the customer may choose between a reduction in price ("Diminution") or the cancellation of the contract ("Withdrawal"). The customer has no right of Withdrawal in the case of a minor breach of contract, in particular in the case of minor defects.

#### 7. DEFECTS



# General Terms of Business

## 7. DEFECTS

3. The customer must report obvious defects to us in writing within two weeks of receipt of the products. If this is not done then he has no right of redress, in particular of Diminution or Withdrawal. The deadline has been kept if the report is sent in good time. The customer shall take full responsibility for providing proof of all claims, in particular of the defect itself, the point in time when the defect was determined and for lodging the complaint in good time.
4. If the customer elects to withdraw from the contract because of defects in the products after attempts to rectify the defect have failed he shall have no further claim to compensation because of the defect. If the customer chooses compensation after attempts to rectify the defect have failed then the products shall remain with the customer if this is reasonable. Compensation shall be limited to the difference between the purchase price and the value of the defective object. This shall not apply if we have fraudulently breached the contract.
5. Where the customer uses the products himself or sells them exclusively to entrepreneurs the period of limitation for a claim based on a defect - provided that they were reported to us in good time as set out in 3. above - is one year following delivery of the products.
6. In the case of default of payment and the customer's loss of credit-worthiness we may refuse to remedy a claim based on a defect until the customer has met his financial obligations to an extent equivalent to the invoice value of our products supplied minus Diminution appropriate to the faults.
7. The above paragraphs 1 to 6 of this provision do not constitute a guarantee on our part. Claims by customers based on separate guarantees shall remain unaffected.

## 8. LIMITATIONS ON LIABILITY

1. In cases of minor negligence our liability, depending on the type of products, is limited to foreseeable, direct, typical for the contract, average damage. This also applies to cases of minor negligence by our legal representatives or persons acting on our behalf.
2. The restrictions on liability mentioned above do not apply to customer claims based on product liability. Nor do the limitations on liability apply to damage to the person or health of the customer or to loss of life attributable to us.
3. The customer's claims to compensation because of a defect shall lapse one year after delivery of the products. This shall not apply in the case of fraudulent intent on our part.

## 9. PROHIBITION OF ASSIGNMENT AND PLEDGING

The customer shall not assign or pledge claims arising to him from our business relationship without our express prior written approval.

## 10. PLACE OF JURISDICTION

The exclusive place of jurisdiction for all disputes arising from this business relationship is Nuremberg. This also applies if the customer has no general place of jurisdiction in Germany or if his place of resident or usual place of residence is not known at the time the suit is filed. We are however entitled to appeal to any legally responsible court.

## 11. APPLICABLE LAW

The law of the Federal Republic of Germany shall apply exclusively. The Hague Convention relating to a Uniform Law on the Formation of Contracts for the International Sale of Goods dated July 1, 1964 and the United Nations Convention on Contracts for the International Sale of Goods dated April 11, 1980 shall be excluded.





# Article Numbers/Dimensions/Weights

Article no.	Page	PU	Dimension/Packing	Weight kg	Article no.	Page	PU	Dimension/Packing	Weight kgm
01 297	18	1	Ø 29 x 58 mm	0,149	18 023	29	1	(LxWxH) 300 x 300 x 50 mm	1,160
02 568	149	1	(LxWxH) 330 x 275 x 215 mm	0,816	18 024	29	1	(LxWxH) 300 x 300 x 50 mm	1,554
02 803	166	1	Ø 27 x 48 mm	0,055	18 025	29	1	(LxWxH) 300 x 300 x 60 mm	1,844
03 419	173	1	Ø 42 x 21 mm	0,060	18 026	29	1	(LxWxH) 300 x 300 x 60 mm	3,500
12 016	172	1	Ø 15 x 23 mm	0,012	18 028	29	1	(LxWxH) 300 x 300 x 70 mm	3,230
12 042	34	1	Ø 18 x 184 mm	0,072	18 030	29	1	(LxWxH) 350 x 350 x 70 mm	3,800
12 043	34	1	Ø 18 x 188 mm	0,071	18 035	29	1	(LxWxH) 400 x 400 x 70 mm	5,800
12 044	34	1	(LxWxH) 202 x 23 x 20 mm	0,160	18 050	28	1	(LxWxH) 300 x 300 x 35 mm	0,656
12 048	34	1	Ø 18 x 360 mm	0,132	18 080	32	1	Ø 15 x 33 mm	0,021
12 049	34	1	Ø 18 x 560 mm	0,128	18 081	32	1	(LxWxH) 150 x 60 x 20 mm	0,088
12 054	34	1	(LxWxH) 203 x 35 x 30 mm	0,226	18 082	32	1	(LxWxH) 150 x 60 x 23 mm	0,244
12 056	34	1	Ø 18 x 210 mm	0,095	18 083	32	1	(LxWxH) 150 x 60 x 23 mm	0,157
12 057	35	1	(LxWxH) 210 x 30 x 60 mm	0,226	18 084	32	1	Ø 19 x 38 mm	0,050
12 086	172	1	Ø 15 x 23 mm	0,012	18 085	173	1	Ø 21 x 34 mm	0,033
13 080	175	1	Ø 66 x 36 mm	0,165	18 086	174	1	Ø 27 x 43 mm	0,063
17 000	26	1	(LxWxH) 800 x 35 x 35 mm	0,160	18 087	174	1	Ø 27 x 44 mm	0,140
17 004	25	1	(LxWxH) 200 x 350 x 1004 mm	3,940	18 088	174	1	Ø 25 x 32 mm	0,052
17 008	25	1	(LxWxH) 550 x 500 x 1000 mm	9,300	18 093	172	1	Ø 22 x 28 mm	0,039
17 008 950	95	1	(LxWxH) 570 x 530 x 200 mm	7,800	18 095	29	1	(LxWxH) 140 x 65 x 26 mm	0,360
17 009	26	1	(LxWxH) 870 x 610 x 1000 mm	35,100	18 096	170		(LxWxH) 145 x 80 x 32 mm	0,550
17 009 390	26	1	(LxWxH) 700 x 800 x 1113 mm	15,100	18 097	170		(LxWxH) 120 x 70 x 32 mm	0,650
17 009 950	26	1	(LxWxH) 760 x 750 x 1070 mm	13,200	18 099	29	1	(LxWxH) 165 x 35 x 68 mm	0,860
17 021	26	1	(LxWxH) 560 x 515 x 175 mm	6,200	18 103	28	1	(LxWxH) 1044 x 36 x 102 mm	0,690
17 044	17	1	Ø 22 x 39 mm	0,039	18 104	33	1	(LxWxH) 220 x 220 x 35 mm	0,897
17 045	18	1	(LxWxH) 215 x 80 x 22 mm	0,012	18 105	33	1	(LxWxH) 220 x 210 x 35 mm	1,050
17 171	27	1	Ø 280 x 55 mm	0,850	18 108	33	1	(LxWxH) 310 x 170 x 55 mm	1,278
17 172	27	1	Ø 310 x 55 mm	1,250	18 108 155	34	1	(LxWxH) 310 x 170 x 55 mm	1,168
17 176	27	1	Ø 365 x 65 mm	1,430	18 405 051	16	1	(LxWxH) 790 x 480 x 105 mm	10,850
17 184	27	1	Ø 430 x 88 mm	1,380	18 410 051	16	1	(LxWxH) 1010 x 480 x 270 mm	14,640
17 194	27	1	Ø 415 x 80 mm	1,370	18 415 051	16	1	(LxWxH) 1010 x 480 x 270 mm	13,450
17 195	28	1	Ø 220 x 30 mm	0,650	18 417 051	16	1	(LxWxH) 1010 x 480 x 270 mm	11,300
17 197	27	1	(LxWxH) 250 x 210 x 55 mm	0,550	18 419 051	16	1	(LxWxH) 1010 x 480 x 105 mm	10,980
17 198	27	1	Ø 480 x 80 mm	1,663	18 421 051	16	1	(LxWxH) 1010 x 480 x 105 mm	10,200
17 199	27	1	(LxWxH) 350 x 300 x 55 mm	0,600	18 421 056	16	1	(LxWxH) 1010 x 480 x 105 mm	10,800
17 200	27	1	Ø 630 x 30 mm	2,500	18 425 051	16	1	(LxWxH) 1060 x 480 x 500 mm	23,900
17 201	27	1	(LxWxH) 380 x 200 x 40 mm	0,680	18 700 051	25	1	(LxWxH) 770 x 190 x 180 mm	5,900
17 230	28	1	Ø 245 x 30 mm	0,800	18 710 051	26	1	(LxWxH) 770 x 190 x 180 mm	7,900
17 265	28	1	Ø 275 x 30 mm	1,080	18 710 950	26	1	(LxWxH) 770 x 190 x 180 mm	7,700
17 275	28	1	Ø 295 x 30 mm	1,070	18 711 051	27	1	(LxWxH) 1000 x 180 x 180 mm	9,100
17 285	28	1	Ø 295 x 30 mm	1,340	18 713 051	27	1	(LxWxH) 1000 x 180 x 180 mm	9,400
17 300	28	1	Ø 315 x 30 mm	1,270	18 716 051	27	1	(LxWxH) 190 x 180 x 1310 mm	11,300
17 320	28	1	Ø 340 x 30 mm	1,640	18 720 051	25	1	(LxWxH) 790 x 480 x 105 mm	8,500
17 325	28	1	Ø 365 x 30 mm	1,360	18 730 051	25	1	(LxWxH) 790 x 480 x 105 mm	9,000
17 350	28	1	Ø 310 x 30 mm	1,820	18 740 051	25	1	(LxWxH) 790 x 480 x 105 mm	9,500
17 380	28	1	Ø 390 x 30 mm	2,000	18 750 051	25	1	(LxWxH) 1010 x 480 x 105 mm	12,100
17 400	28	1	Ø 410 x 30 mm	2,030	18 760 051	25	1	(LxWxH) 1010 x 480 x 105 mm	13,000
17 401	28	1	Ø 600 x 30 mm	5,560	18 764 051	16	1	(LxWxH) 1010 x 480 x 105 mm	16,000
17 796	47	1	(LxWxH) 850 x 400 x 400 mm	9,800	18 764 056	16	1	(LxWxH) 1010 x 480 x 105 mm	16,600
18 016	172	1	Ø 17 x 24 mm	0,023	18 766 051	16	1	(LxWxH) 1010 x 480 x 105 mm	22,700
18 017	172	1	Ø 17 x 24 mm	0,022	18 766 950	17	1	(LxWxH) 1060 x 480 x 500 mm	25,000
18 021	29	1	(LxWxH) 300 x 300 x 22 mm	0,490	18 780 051	25	1	(LxWxH) 650 x 130 x 1260 mm	21,300
18 022	29	1	(LxWxH) 300 x 300 x 35 mm	0,815	18 785 051	16	1	(LxWxH) 650 x 130 x 1260 mm	24,300

Article no.	Page	PU	Dimension/Packing	Weight kgm	Article no.	Page	PU	Dimension/Packing	Weight kgm
18 785 056	16	1	(LxWxH) 650 x 130 x 1310 mm	24,900	19 212	37	1	(LxWxH) 1000 x 190 x 195 mm	10,800
18 786 051	17	1	(LxWxH) 870 x 760 x 1420 mm	52,500	19 212 551	37	1	(LxWxH) 1000 x 190 x 195 mm	10,800
18 786 056	17	1	(LxWxH) 870 x 760 x 1420 mm	53,100	19 213	42	1	(LxWxH) 1000 x 190 x 195 mm	19,000
18 788 051	17	1	(LxWxH) 870 x 760 x 1420 mm	65,900	19 214	42	1	(LxWxH) 1000 x 190 x 195 mm	20,100
19 000 250	57	1	(LxWxH) 1130 x 760 x 1720 mm	90,000	19 214 551	42	1	(LxWxH) 1000 x 190 x 195 mm	10,000
19 000 251	57	1	(LxWxH) 1150 x 760 x 1920 mm	100,000	19 235	82	1	(LxWxH) 190 x 195 x 1310 mm	8,200
19 000 255	58	1	(LxWxH) 1130 x 760 x 1720 mm	90,000	19 235 030	83	1	(LxWxH) 190 x 195 x 1310 mm	14,000
19 000 256	58	1	(LxWxH) 1150 x 760 x 1920 mm	100,000	19 235 600	85	1	(LxWxH) 190 x 195 x 1310 mm	9,400
19 000 330	38	1	(LxWxH) 615 x 510 x 420 mm	35,000	19 235 601	85	1	(LxWxH) 190 x 195 x 1310 mm	9,600
19 000 331	39	1	(LxWxH) 615 x 510 x 420 mm	44,500	19 235 951	84	1	(LxWxH) 190 x 195 x 1310 mm	7,500
19 000 332	39	1	(LxWxH) 615 x 510 x 420 mm	34,000	19 241	37	1	(LxWxH) 190 x 195 x 1310 mm	10,300
19 000 333	39	1	(LxWxH) 615 x 510 x 420 mm	45,500	19 242	37	1	(LxWxH) 190 x 195 x 1310 mm	12,500
19 000 335	138	1	(LxWxH) 835 x 485 x 230 mm	35,000	19 242 551	37	1	(LxWxH) 190 x 195 x 1310 mm	12,500
19 000 350	55	1	(LxWxH) 1450 x 760 x 1720 mm	125,000	19 243	42	1	(LxWxH) 870 x 760 x 1400 mm	36,200
19 000 351	55	1	(LxWxH) 1450 x 760 x 1920 mm	136,500	19 244	42	1	(LxWxH) 870 x 760 x 1400 mm	36,900
19 000 355	56	1	(LxWxH) 1450 x 760 x 1720 mm	125,000	19 244 551	42	1	(LxWxH) 870 x 760 x 1400 mm	40,200
19 000 356	56	1	(LxWxH) 1450 x 760 x 1920 mm	136,500	19 246	42	1	(LxWxH) 870 x 760 x 1400 mm	53,500
19 000 435	138	1	(LxWxH) 835 x 485 x 300 mm	35,200	19 248	42	1	(LxWxH) 870 x 760 x 1400 mm	53,700
19 000 530	16	1	(LxWxH) 1060 x 480 x 500 mm	23,700	19 248 551	42	1	(LxWxH) 870 x 760 x 1400 mm	53,400
19 000 532	17	1	(LxWxH) 1060 x 480 x 500 mm	24,900	19 257	43	1	(LxWxH) 870 x 760 x 1400 mm	51,400
19 000 533	17	1	(LxWxH) 1060 x 480 x 500 mm	24,400	19 257 551	43	1	(LxWxH) 870 x 760 x 1400 mm	51,400
19 000 535	17	1	(LxWxH) 1060 x 480 x 500 mm	24,500	19 265	82	1	(LxWxH) 190 x 195 x 1635 mm	8,400
19 000 950	43	1	(LxWxH) 1040 x 760 x 870 mm	69,200	19 265 030	83	1	(LxWxH) 190 x 195 x 1635 mm	15,600
19 000 955	38	1	(LxWxH) 615 x 510 x 420 mm	35,200	19 265 600	85	1	(LxWxH) 190 x 195 x 1635 mm	11,000
19 000 957	39	1	(LxWxH) 615 x 510 x 420 mm	38,200	19 265 601	85	1	(LxWxH) 190 x 195 x 1635 mm	11,000
19 000 959	39	1	(LxWxH) 615 x 510 x 420 mm	27,800	19 265 951	84	1	(LxWxH) 190 x 195 x 1635 mm	8,000
19 000 960	43	1	(LxWxH) 1040 x 760 x 870 mm	49,323	19 266	82	1	(LxWxH) 1000 x 190 x 195 mm	8,000
19 000 961	44	1	(LxWxH) 1040 x 760 x 870 mm	57,000	19 266 030	83	1	(LxWxH) 190 x 195 x 1310 mm	15,800
19 003 250	52	1	(LxWxH) 1370 x 800 x 1660 mm	301,000	19 266 951	84	1	(LxWxH) 190 x 195 x 1310 mm	9,200
19 003 251	52	1	(LxWxH) 1370 x 800 x 1730 mm	314,000	19 285	82	1	(LxWxH) 400 x 360 x 150 mm	5,500
19 003 255	53	1	(LxWxH) 1370 x 800 x 1660 mm	302,000	19 285 030	83	1	(LxWxH) 610 x 415 x 415 mm	13,000
19 003 256	53	1	(LxWxH) 1370 x 800 x 1730 mm	315,000	19 285 600	85	1	(LxWxH) 190 x 195 x 1310 mm	10,000
19 003 350	50	1	(LxWxH) 1370 x 800 x 1950 mm	342,000	19 285 601	85	1	(LxWxH) 190 x 195 x 1310 mm	10,300
19 003 351	50	1	(LxWxH) 1370 x 800 x 2070 mm	356,000	19 285 951	84	1	(LxWxH) 1100 x 315 x 400 mm	9,500
19 003 355	51	1	(LxWxH) 1370 x 800 x 1950 mm	343,000	19 305	86	1	(LxWxH) 1100 x 190 x 195 mm	7,200
19 003 356	51	1	(LxWxH) 1370 x 800 x 2070 mm	357,000	19 335	86	1	(LxWxH) 190 x 195 x 1310 mm	8,500
19 034	180	1	(LxWxH) 3250 x 900 x 2340 mm	720,000	19 335 600	88	1	(LxWxH) 190 x 195 x 1310 mm	10,500
19 040	179	1	(LxWxH) 785 x 900 x 2370 mm	115,000	19 335 601	88	1	(LxWxH) 190 x 195 x 1310 mm	10,500
19 044	180	1	(LxWxH) 1570 x 900 x 2370 mm	230,000	19 335 951	87	1	(LxWxH) 190 x 195 x 1310 mm	8,500
19 060	75	1	(LxWxH) 300 x 275 x 205 mm	4,391	19 365	86	1	(LxWxH) 190 x 195 x 1310 mm	8,600
19 062	76	1	(LxWxH) 365 x 210 x 470 mm	10,183	19 365 600	88	1	(LxWxH) 190 x 195 x 1635 mm	11,000
19 135	73	1	(LxWxH) 190 x 195 x 1310 mm	6,850	19 365 601	88	1	(LxWxH) 190 x 195 x 1635 mm	11,000
19 135 600	74	1	(LxWxH) 195 x 190 x 1310 mm	11,000	19 365 951	87	1	(LxWxH) 190 x 195 x 1635 mm	11,200
19 135 843	73	1	(LxWxH) 190 x 195 x 1310 mm	9,200	19 366	86	1	(LxWxH) 190 x 195 x 1310 mm	8,600
19 165	73	1	(LxWxH) 190 x 195 x 1635 mm	7,610	19 366 951	87	1	(LxWxH) 190 x 195 x 1310 mm	10,100
19 165 600	74	1	(LxWxH) 190 x 195 x 1635 mm	12,300	19 385	86	1	(LxWxH) 400 x 300 x 150 mm	5,760
19 165 843	73	1	(LxWxH) 190 x 195 x 1635 mm	7,600	19 385 600	89	1	(LxWxH) 190 x 195 x 1310 mm	10,000
19 185	73	1	(LxWxH) 400 x 360 x 150 mm	6,010	19 385 601	89	1	(LxWxH) 190 x 195 x 1310 mm	10,100
19 185 600	75	1	(LxWxH) 190 x 195 x 1000 mm	10,400	19 385 951	87	1	(LxWxH) 1100 x 315 x 400 mm	9,700
19 185 843	74	1	(LxWxH) 40 x 36 x 15 mm	6,364	19 402	64	1	(LxWxH) 760 x 120 x 100 mm	1,420
19 205	82	1	(LxWxH) 1000 x 190 x 195 mm	6,680	19 403	64	1	∅ 350 x 330 mm	1,608
19 211	37	1	(LxWxH) 1000 x 190 x 195 mm	9,600	19 406	65	1	(LxWxH) 235 x 225 x 80 mm	0,870

# Article Numbers/Dimensions/Weights

Article no.	Page	PU	Dimension/Packing	Weight kg	Article no.	Page	PU	Dimension/Packing	Weight kg
19 407	64	1	(LxWxH) 310 x 180 x 75 mm	0,218	19 619	97	1	Ø 30 x 46 mm	0,090
19 408	65	1	(LxWxH) 195 x 145 x 90 mm	0,648	19 626	173	1	Ø 32 x 29 mm	0,032
19 410	67	1	Ø 90 x 40 mm	0,568	19 627	97	1	Ø 46 x 56 mm	0,136
19 411	67	1	Ø 102 x 45 mm	0,561	19 628	173	1	Ø 46 x 57 mm	0,180
19 412	66	1	(LxWxH) 625 x 135 x 80 mm	1,267	19 629	97	1	Ø 54 x 60 mm	0,219
19 413 472	54	1	(LxWxH) 200 x 260 x 200 mm	2,300	19 630	173	1	Ø 54 x 55 mm	0,210
19 413 473	54	1	(LxWxH) 200 x 260 x 200 mm	2,500	19 636	97	1	Ø 37 x 36 mm	0,110
19 414	67	1	(LxWxH) 160 x 160 x 60 mm	1,335	19 637	97	1	Ø 35 x 53 mm	0,123
19 414 950	67	1	(LxWxH) 140 x 220 x 100 mm	1,871	19 640	41	1	(LxWxH) 810 x 110 x 160 mm	1,900
19 416	67	1	Ø 80 x 40 mm	0,334	19 638	174	1	Ø 40 x 58 mm	0,240
19 417	67	1	Ø 110 x 45 mm	0,162	19 641	41	1	(LxWxH) 810 x 110 x 160 mm	1,700
19 418	66	1	Ø 80 x 60 mm	0,373	19 642	41	1	(LxWxH) 400 x 75 x 137 mm	1,300
19 419	148	1	(LxWxH) 150 x 90 x 1650 mm	7,000	19 643	41	1	(LxWxH) 400 x 75 x 137 mm	1,400
19 421	65	1	(LxWxH) 250 x 220 x 130 mm	1,306	19 648	99		Ø 300 x 32 mm	0,700
19 422	142	1	(LxWxH) 200 x 260 x 200 mm	2,800	19 666	77	1	Ø 37 x 515 mm	0,498
19 423	66	1	(LxWxH) 120 x 70 x 95 mm	0,310	19 668	96	1	Ø 31 x 515 mm	0,297
19 424	67	1	(LxWxH) 520 x 150 x 90 mm	3,853	19 669	29	1	(LxWxH) 348 x 144 x 257 mm	1,345
19 426	68	1	(LxWxH) 250 x 230 x 70 mm	3,122	19 701	81	1	(LxWxH) 430 x 175 x 45 mm	0,870
19 506	99	1	Ø 300 x 32 mm	0,700	19 702	109	1	(LxWxH) 280 x 210 x 140 mm	0,796
19 511	69	1	(LxWxH) 190 x 195 x 1310 mm	11,000	19 706	106	1	(LxWxH) 280 x 160 x 145 mm	1,786
19 512	70	1	Ø 450 x 80 mm	1,660	19 707	107	1	(LxWxH) 550 x 120 x 165 mm	1,874
19 513 950	70	1	(LxWxH) 950 x 80 x 80 mm	1,770	19 707 950	107	1	(LxWxH) 390 x 140 x 165 mm	1,556
19 513 952	70	1	(LxWxH) 950 x 80 x 80 mm	2,890	19 709	107	1	(LxWxH) 385 x 145 x 165 mm	2,051
19 513 954	70	1	(LxWxH) 950 x 80 x 80 mm	3,710	19 709 952	109	1	(LxWxH) 250 x 190 x 190 mm	0,897
19 518	90	1	(LxWxH) 270 x 50 x 61 mm	2,383	19 709 954	111	1	(LxWxH) 250 x 190 x 110 mm	0,134
19 519	175	1	Ø 85 x 45 mm	0,171	19 711	111	1	Ø 55 x 100 mm	0,080
19 521	70	1	(LxWxH) 145 x 105 x 50 mm	1,115	19 714	108	1	(LxWxH) 270 x 170 x 100 mm	1,930
19 522	70	1	(LxWxH) 950 x 90 x 65 mm	1,990	19 715	110	1	(LxWxH) 255 x 100 x 65 mm	1,036
19 523	70	1	(LxWxH) 1020 x 80 x 65 mm	1,930	19 718	106	1	(LxWxH) 300 x 120 x 30 mm	0,587
19 523 001	70	1	(LxWxH) 950 x 80 x 80 mm	3,300	19 721	110	1	Ø 125 x 55 mm	0,222
19 526	175	1	(LxWxH) 80 x 65 x 37 mm	0,162	19 723	108	1	(LxWxH) 270 x 170 x 100 mm	1,816
19 527	175	1	(LxWxH) 80 x 65 x 35 mm	0,147	19 724	108	1	(LxWxH) 270 x 170 x 100 mm	1,925
19 528	175	1	(LxWxH) 80 x 65 x 36 mm	0,175	19 728	81	1	(LxWxH) 120 x 120 x 170 mm	1,653
19 529	175	1	(LxWxH) 105 x 85 x 45 mm	0,260	19 729	110	1	(LxWxH) 250 x 190 x 120 mm	1,500
19 530	76	1	Ø 37 x 510 mm	0,596	19 735	108	1	(LxWxH) 350 x 110 x 215 mm	3,024
19 531	77	1	Ø 370 x 70 mm	0,900	19 740	110	1	Ø 21 x 120 mm	0,176
19 533	77	1	Ø 400 x 70 mm	1,780	19 741	110	1	(LxWxH) 126 x 21 x 35 mm	0,150
19 534	77	1	Ø 450 x 80 mm	2,000	19 742	110	1	(LxWxH) 120 x 120 x 21 mm	0,240
19 535	77	1	Ø 550 x 65 mm	2,360	19 743	111	1	(LxWxH) 220 x 100 x 21 mm	0,205
19 538	77	1	Ø 450 x 110 mm	5,600	19 745	111	1	Ø 25 x 310 mm	0,250
19 550	77	1	Ø 350 x 65 mm	1,560	19 746	111	1	(LxWxH) 25 x 120 x 25 mm	0,215
19 561	100	1	Ø 250 x 50 mm	0,650	19 747	111	1	Ø 18 x 28 mm	0,025
19 562	100	1	Ø 300 x 60 mm	1,082	19 748	111	1	Ø 20 x 58 mm	0,062
19 563	100	1	Ø 300 x 70 mm	1,500	19 760	98	1	(LxWxH) 58 x 53 x 31 mm	0,152
19 564	100	1	Ø 330 x 70 mm	1,978	19 761	98	1	(LxWxH) 70 x 66 x 38 mm	0,208
19 565	100	1	Ø 350 x 60 mm	2,405	19 762	96	1	(LxWxH) 132 x 65 x 34 mm	1,001
19 568	100	1	Ø 550 x 60 mm	3,520	19 763	97	1	(LxWxH) 135 x 75 x 42 mm	0,353
19 570	100	1	Ø 400 x 85 mm	4,500	19 764	170	1	(LxWxH) 105 x 50 x 26 mm	0,142
19 575	100	1	Ø 420 x 125 mm	6,500	19 765	170	1	(LxWxH) 105 x 50 x 26 mm	0,145
19 580	96	1	Ø 300 x 55 mm	0,884	19 767	171	1	(LxWxH) 170 x 85 x 50 mm	0,584
19 580 001	40	1	Ø 250 x 30 mm	0,900	19 768	47	1	(LxWxH) 950 x 400 x 400 mm	15,600
19 616	110	1	Ø 29 x 52 mm	0,126	19 769	98	1	(LxWxH) 87 x 78 x 44 mm	0,399

Article no.	Page	PU	Dimension/Packing	Weight kg	Article no.	Page	PU	Dimension/Packing	Weight kg
19 770	124	1	Ø 45 x 85 mm	0,707	20 114	166	1	Ø 22 x 23 mm	0,023
19 771	171	1	(LxWxH) 215 x 100 x 61 mm	0,986	20 116	166	1	Ø 28 x 30 mm	0,051
19 772	171	1	(LxWxH) 220 x 100 x 70 mm	1,480	20 120	167	1	Ø 28 x 31 mm	0,066
19 773	171	1	(LxWxH) 235 x 125 x 86 mm	1,779	20 121	167	1	Ø 32 x 34 mm	0,080
19 774	125	1	Ø 38 x 64 mm	0,492	20 122	173	1	Ø 22 x 14 mm	0,010
19 776	178	1	(LxWxH) 710 x 350 x 270 mm	10,500	20 124	173	1	Ø 28 x 18 mm	0,025
19 778	170	1	(LxWxH) 105 x 50 x 26 mm	0,156	20 126	173	1	Ø 37 x 25 mm	0,063
19 782	128	1	(LxWxH) 380 x 360 x 950 mm	11,800	20 132	166	1	Ø 19 x 35 mm	0,018
19 783	128	1	(LxWxH) 630 x 300 x 325 mm	22,100	20 133	166	1	Ø 19 x 35 mm	0,018
19 788	137	1	(LxWxH) 830 x 480 x 230 mm	20,000	20 134	166	1	Ø 22 x 36 mm	0,024
19 793 301	132	1	(LxWxH) 500 x 500 x 1700 mm	56,500	20 135	166	1	Ø 22 x 36 mm	0,025
19 793 391	132	1	(LxWxH) 500 x 500 x 1700 mm	61,000	20 136	166	1	Ø 27 x 46 mm	0,049
19 800	136	1	(LxWxH) 400 x 360 x 150 mm	10,500	20 152	167	1	Ø 29 x 12 mm	0,010
19 802	48	1	(LxWxH) 1340 x 850 x 340 mm	77,000	20 154	167	1	Ø 32 x 13 mm	0,010
19 804	48	1	(LxWxH) 2680 x 850 x 236 mm	124,000	20 156	167	1	Ø 40 x 12 mm	0,010
19 808	48	1	(LxWxH) 1200 x 1200 x 340 mm	86,800	20 162	167	1	Ø 19 x 7 mm	0,002
19 810	117	1	(LxWxH) 700 x 560 x 300 mm	16,600	20 164	167	1	Ø 22 x 7 mm	0,003
19 812	117	1	(LxWxH) 165 x 165 x 41 mm	1,000	20 166	167	1	Ø 26 x 7 mm	0,005
19 815	48	1	(LxWxH) 650 x 900 x 1470 mm	60,400	20 178	169	1	Ø 57 x 20 mm	0,014
19 816	49	1	(LxWxH) 450 x 200 x 1470 mm	58,000	20 185	25	1	Ø 80 x 280 mm	0,260
19 850	137	1	(LxWxH) 750 x 465 x 155 mm	20,000	20 192	167	1	Ø 400 x 70 mm	1,900
19 852	137	1	(LxWxH) 750 x 465 x 290 mm	25,000	20 193	167	1	Ø 350 x 180 mm	0,140
19 857	126	1	(LxWxH) 1250 x 610 x 260 mm	45,000	20 194	167	1	Ø 280 x 160 mm	0,145
19 858	137	1	(LxWxH) 570 x 150 x 200 mm	3,000	20 218	23	1	(LxWxH) 155 x 125 x 80 mm	0,727
19 891	171	1	Ø 37 x 53 mm	0,200	20 218 950	24	1	(LxWxH) 155 x 125 x 80 mm	0,844
19 892	171	1	Ø 44 x 59 mm	0,218	20 233	162	1	(LxWxH) 165 x 90 x 18 mm	0,253
19 893	171	1	Ø 53 x 65 mm	0,320	20 235	162	1	(LxWxH) 280 x 100 x 20 mm	0,110
19 894	171	1	Ø 63 x 71 mm	0,456	20 235 950	162	1	(LxWxH) 235 x 100 x 27 mm	0,090
19 895	171	1	Ø 78 x 80 mm	0,715	20 240	162	1	(LxWxH) 380 x 190 x 110 mm	0,571
19 897	66	1	(LxWxH) 122 x 67 x 33 mm	0,356	20 250	163	1	(LxWxH) 185 x 90 x 90 mm	0,951
19 900	135	1	(LxWxH) 610 x 400 x 205 mm	12,700	20 251	175	1	Ø 21 x 43 mm	0,078
19 901	135	1	(LxWxH) 610 x 580 x 365 mm	32,050	20 913	164	1	Ø 300 x 55 mm	1,300
19 902	136	1	Ø 300 x 70 mm	0,862	20 914	164	1	Ø 370 x 65 mm	1,521
19 903	136	1	(LxWxH) 200 x 200 x 240 mm	1,500	20 915	164	1	Ø 450 x 60 mm	3,500
20 022	164	1	Ø 20 x 41 mm	0,099	20 917	164	1	Ø 500 x 80 mm	5,400
20 024	164	1	Ø 25 x 41 mm	0,094	23 000 250	58	1	(LxWxH) 1130 x 760 x 1720 mm	104,000
20 026	164	1	Ø 28 x 44 mm	0,100	23 000 251	58	1	(LxWxH) 1150 x 760 x 1920 mm	113,000
20 032	164	1	Ø 25 x 41 mm	0,073	23 000 255	59	1	(LxWxH) 1130 x 760 x 1720 mm	104,000
20 034	164	1	Ø 41 x 28 mm	0,090	23 000 256	59	1	(LxWxH) 1150 x 760 x 1920 mm	115,000
20 036	164	1	Ø 25 x 44 mm	0,097	23 000 350	56	1	(LxWxH) 1450 x 760 x 1720 mm	137,500
20 043	164	1	Ø 25 x 58 mm	0,084	23 000 351	56	1	(LxWxH) 1450 x 760 x 1720 mm	148,500
20 045	164	1	Ø 27 x 60 mm	0,086	23 000 355	57	1	(LxWxH) 1450 x 760 x 1720 mm	137,500
20 052	164	1	Ø 20 x 34 mm	0,024	23 000 356	57	1	(LxWxH) 1450 x 760 x 1920 mm	148,500
20 054	164	1	Ø 20 x 34 mm	0,030	23 000 960	44	1	(LxWxH) 840 x 750 x 1030 mm	53,000
20 062	24	1	Ø 19 x 33 mm	0,020	23 000 961	45	1	(LxWxH) 840 x 750 x 1030 mm	61,000
20 064	165	1	Ø 19 x 33 mm	0,022	23 003 250	53	1	(LxWxH) 1370 x 800 x 1660 mm	296,000
20 066	165	1	Ø 28 x 38 mm	0,051	23 003 251	53	1	(LxWxH) 1370 x 800 x 1730 mm	310,000
20 073	165	1	Ø 12 x 48 mm	0,014	23 003 255	54	1	(LxWxH) 1370 x 800 x 1660 mm	297,000
20 075	165	1	Ø 12 x 48 mm	0,018	23 003 256	54	1	(LxWxH) 1370 x 800 x 1730 mm	316,000
20 077	165	1	Ø 15 x 48 mm	0,024	23 003 350	51	1	(LxWxH) 1370 x 800 x 1950 mm	345,000
20 111	175	1	Ø 19 x 20 mm	0,016	23 003 351	51	1	(LxWxH) 1370 x 800 x 2070 mm	359,000
20 112	24	1	Ø 19 x 25 mm	0,019	23 003 355	52	1	(LxWxH) 1370 x 800 x 1950 mm	346,000



# Article Numbers/Dimensions/Weights

Article no.	Page	PU	Dimension/Packing	Weight kg	Article no.	Page	PU	Dimension/Packing	Weight kg
23 003 356	52	1	(LxWxH) 1370 x 800 x 2070 mm	360,000	27 985	125	1	(LxWxH) 230 x 150 x 40 mm	0,802
23 137	177	1	(LxWxH) 970 x 590 x 180 mm	20,000	27 987	149	1	(LxWxH) 510 x 300 x 490 mm	9,427
23 139	177	1	(LxWxH) 680 x 650 x 1085 mm	43,000	27 988	125	1	(LxWxH) 1110 x 510 x 260 mm	5,950
23 285	81	1	(LxWxH) 230 x 100 x 100 mm	0,475	27 989	125	1	(LxWxH) 500 x 275 x 220 mm	3,074
23 287	210	1	(LxWxH) 145 x 110 x 55 mm	0,250	27 991	139	1	(LxWxH) 2000 bis	
23 321	93	1	(LxBxH) 370 x 370 x 250 mm	16,200				3000 x 475 x 140 mm lfm	30,000
23 321 030	94	1	(LxBxH) 370 x 370 x 250 mm	16,500	27 992	140	1	(LxWxH) 900 x 1050 x 263 mm	25,000
23 322	93	1	(LxBxH) 370 x 370 x 250 mm	15,100	27 993	140	1	(LxWxH) 600 x 800 x 250 mm	15,000
23 322 030	94	1	(LxBxH) 370 x 370 x 250 mm	15,300	27 994	141	1	(LxWxH) 600 x 800 x 250 mm	16,000
23 322 950	40	1	-	-	27 995	139	1	(LxWxH) 2000 bis	
23 322 955	40	1	-	-				3000 x 20 x 100 mm lfm	1,000
23 337	92	1	(LxBxH) 380 x 230 x 265 mm	13,400	29 036	161	1	(LxWxH) 390 x 370 x 240 mm	8,200
23 337 390	45	1	(LxBxH) 510 x 410 x 330 mm	18,700	29 051	162	1	(LxWxH) 310 x 300 x 160 mm	4,397
27 030	121	1	(LxWxH) 780 x 580 x 630 mm	31,200	29 142	101	1	(LxWxH) 540 x 580 x 160 mm	18,100
27 030 890	121	1	(LxWxH) 630 x 580 x 1000 mm	34,700	29 142 600	103	1	(LxWxH) 570 x 530 x 230 mm	18,687
27 035	122	1	(LxWxH) 780 x 580 x 630 mm	31,300	29 142 601	103	1	(LxWxH) 570 x 530 x 300 mm	19,656
27 035 890	122	1	(LxWxH) 630 x 580 x 1000 mm	34,825	29 142 602	103	1	(LxWxH) 570 x 530 x 260 mm	20,160
27 040	123	1	(LxWxH) 780 x 580 x 630 mm	40,000	29 142 603	103	1	(LxWxH) 570 x 530 x 260 mm	20,025
27 040 890	123	1	(LxWxH) 630 x 580 x 1000 mm	43,000	29 142 604	103	1	(LxWxH) 570 x 530 x 300 mm	20,160
27 070	124	1	(LxWxH) 780 x 580 x 630 mm	31,800	29 143	101	1	(LxWxH) 540 x 580 x 160 mm	19,450
27 070 890	124	1	(LxWxH) 630 x 580 x 1000 mm	34,800	29 143 600	103	1	(LxWxH) 570 x 530 x 230 mm	20,290
27 410	130	1	(LxWxH) 780 x 580 x 630 mm	43,000	29 143 601	103	1	(LxWxH) 570 x 530 x 300 mm	21,250
27 410 890	130	1	(LxWxH) 630 x 580 x 1000 mm	46,000	29 143 602	103	1	(LxWxH) 570 x 530 x 260 mm	21,520
27 622	127	1	(LxWxH) 780 x 580 x 630 mm	35,700	29 143 603	103	1	(LxWxH) 570 x 530 x 260 mm	21,630
27 622 680	131	1	(LxWxH) 780 x 580 x 630 mm	43,320	29 143 604	103	1	(LxWxH) 570 x 530 x 300 mm	21,760
27 622 890	127	1	(LxWxH) 630 x 580 x 1000 mm	39,250	29 152	101	1	(LxWxH) 540 x 580 x 160 mm	22,200
27 622 891	131	1	(LxWxH) 780 x 580 x 630 mm	38,380	29 153	101	1	(LxWxH) 540 x 580 x 160 mm	24,200
27 632	127	1	(LxWxH) 780 x 580 x 630 mm	44,100	29 162	102	1	(LxWxH) 540 x 580 x 195 mm	25,400
27 632 680	131	1	(LxWxH) 780 x 580 x 630 mm	45,000	29 163	102	1	(LxWxH) 540 x 580 x 195 mm	27,800
27 632 890	127	1	(LxWxH) 630 x 580 x 1000 mm	47,680	29 172	102	1	(LxWxH) 540 x 580 x 160 mm	25,100
27 632 891	131	1	(LxWxH) 780 x 580 x 630 mm	45,255	29 172 600	104	1	(LxWxH) 570 x 530 x 230 mm	27,300
27 832	46	1	(LxWxH) 780 x 580 x 630 mm	30,900	29 172 601	104	1	(LxWxH) 570 x 530 x 300 mm	27,800
27 846	18	1	(LxWxH) 680 x 630 x 1090 mm	39,700	29 172 602	104	1	(LxWxH) 570 x 530 x 260 mm	27,900
27 846 056	18	1	(LxWxH) 680 x 630 x 1090 mm	40,000	29 172 603	104	1	(LxWxH) 570 x 530 x 260 mm	27,900
27 846 950	18	1	(LxWxH) ??? x ??? x ???	???	29 172 604	104	1	(LxWxH) 570 x 530 x 300 mm	27,900
27 859	46	1	(LxWxH) 580 x 800 x 1300 mm	40,600	29 173	102	1	(LxWxH) 540 x 580 x 160 mm	26,900
27 859 951	46	1	(LxWxH) 580 x 800 x 1300 mm	40,900	29 173 600	104	1	(LxWxH) 570 x 530 x 230 mm	28,500
27 905	133	1	∅ 20 x 745 mm	0,062	29 173 601	104	1	(LxWxH) 570 x 530 x 300 mm	28,700
27 906	133	1	∅ 20 x 745 mm	0,064	29 173 602	104	1	(LxWxH) 570 x 530 x 260 mm	28,600
27 908	133	1	∅ 20 x 745 mm	0,068	29 173 603	104	1	(LxWxH) 570 x 530 x 260 mm	28,700
27 915	133	1	∅ 20 x 745 mm	0,098	29 173 604	104	1	(LxWxH) 570 x 530 x 300 mm	28,700
27 916	133	1	∅ 20 x 745 mm	0,112	29 182	102	1	(LxWxH) 540 x 580 x 195 mm	25,800
27 918	133	1	∅ 20 x 745 mm	0,123	29 183	102	1	(LxWxH) 540 x 580 x 195 mm	27,600
27 926	133	1	∅ 20 x 1045 mm	0,075	29 192	102	1	(LxWxH) 540 x 580 x 160 mm	25,300
27 928	133	1	∅ 20 x 1045 mm	0,079	29 193	102	1	(LxWxH) 540 x 580 x 160 mm	27,400
27 948	133	1	∅ 20 x 1545 mm	0,108	29 242	30	1	(LxWxH) 540 x 580 x 160 mm	17,900
27 958	133	1	∅ 20 x 1545 mm	0,207	29 243	30	1	(LxWxH) 540 x 580 x 160 mm	19,900
27 963	133	1	∅ 18 x 57 mm	0,033	29 252	30	1	(LxWxH) 540 x 580 x 160 mm	21,500
27 964	133	1	∅ 18 x 54 mm	0,053	29 253	30	1	(LxWxH) 540 x 580 x 160 mm	23,500
27 965	133	1	∅ 20 x 40 mm	0,034	29 262	31	1	(LxWxH) 540 x 580 x 190 mm	25,300
27 966	126	1	∅ 45 mm	0,520	29 263	31	1	(LxWxH) 540 x 580 x 190 mm	27,100
27 967	126	1	(LxWxH) 170 x 80 x 100 mm	0,900	29 272	31	1	(LxWxH) 540 x 580 x 160 mm	24,400

Article no.	Page	PU	Dimension/Packing	Weight kg	Article no.	Page	PU	Dimension/Packing	Weight kg
29 273	31	1	(LxWxH) 540 x 580 x 160 mm	26,200	29 979	80	1	∅ 55 x 55 mm	0,050
29 282	31	1	(LxWxH) 540 x 580 x 190 mm	25,100	29 980	32	1	(LxWxH) 650 x 170 x 170 mm	2,240
29 283	31	1	(LxWxH) 540 x 580 x 190 mm	26,900	29 981	32	1	(LxWxH) 650 x 340 x 170 mm	4,100
29 292	31	1	(LxWxH) 540 x 580 x 160 mm	24,600	36 100	114	1	(LxWxH) 360 x 250 x 80 mm	3,100
29 293	31	1	(LxWxH) 540 x 580 x 160 mm	26,700	36 110	114	1	(LxWxH) 200 x 150 x 60 mm	1,200
29 341	78	1	(LxWxH) 540 x 580 x 160 mm	19,350	36 120	114	1	(LxWxH) 250 x 140 x 130 mm	5,800
29 351	78	1	(LxWxH) 540 x 580 x 195 mm	23,450	36 130	114	1	(LxWxH) 230 x 155 x 50 mm	1,300
29 361	79	1	(LxWxH) 540 x 580 x 195 mm	26,650	36 140	114	1	(LxWxH) 150 x 120 x 60 mm	0,150
29 371	79	1	(LxWxH) 540 x 580 x 160 mm	26,350	36 150	114	1	(LxWxH) 100 x 70 x 70 mm	0,608
29 381	79	1	(LxWxH) 540 x 580 x 195 mm	27,100	36 160	115	1	(LxWxH) 120 x 120 x 75 mm	0,642
29 391	79	1	(LxWxH) 540 x 580 x 160 mm	28,650	36 170	115	1	(LxWxH) 440 x 230 x 380 mm	5,378
29 442	156	1	(LxWxH) 540 x 580 x 160 mm	17,100	36 200	115	1	(LxWxH) 410 x 310 x 135 mm	7,100
29 443	156	1	(LxWxH) 540 x 580 x 160 mm	18,450	36 210	115	1	(LxWxH) 200 x 150 x 60 mm	1,200
29 452	156	1	(LxWxH) 540 x 580 x 160 mm	21,100	36 220	115	1	(LxWxH) 250 x 140 x 130 mm	5,800
29 453	156	1	(LxWxH) 540 x 580 x 160 mm	23,200	36 230	116	1	(LxWxH) 230 x 155 x 50 mm	1,300
29 462	157	1	(LxWxH) 540 x 580 x 190 mm	24,400	36 240	116	1	(LxWxH) 150 x 120 x 60 mm	0,150
29 463	157	1	(LxWxH) 540 x 580 x 190 mm	26,800	36 250	116	1	(LxWxH) 135 x 95 x 185 mm	3,940
29 472	157	1	(LxWxH) 540 x 580 x 160 mm	24,100	36 260	116	1	(LxWxH) 120 x 120 x 75 mm	0,739
29 473	157	1	(LxWxH) 540 x 580 x 160 mm	25,900	36 402	117	1	(LxWxH) 445 x 300 x 255 mm	6,300
29 482	157	1	(LxWxH) 540 x 580 x 190 mm	24,800	43 001	152	1	(LxWxH) 900 x 406 x 2100 mm	
29 483	157	1	(LxWxH) 540 x 580 x 190 mm	26,600				ca.	112,000
29 492	157	1	(LxWxH) 540 x 580 x 160 mm	24,300	43 002	152	1	(LxWxH) 900 x 406 x 2100 mm	
29 493	157	1	(LxWxH) 540 x 580 x 160 mm	26,400				ca.	110,000
29 542	158	1	(LxWxH) 540 x 580 x 160 mm	18,100	43 003	151	1	(LxWxH) 900 x 406 x 2100 mm	
29 543	158	1	(LxWxH) 540 x 580 x 160 mm	19,450				ca.	105,000
29 552	158	1	(LxWxH) 540 x 580 x 160 mm	22,200	43 004	153	1	(LxWxH) 450 x 390 x 110 mm	4,900
29 553	158	1	(LxWxH) 540 x 580 x 160 mm	24,200	43 005	153	1	(LxWxH) 810 x 110 x 160 mm	1,700
29 562	158	1	(LxWxH) 540 x 580 x 195 mm	25,400	43 006	153	1	(LxWxH) 450 x 390 x 110 mm	4,600
29 563	158	1	(LxWxH) 540 x 580 x 195 mm	27,800	45 010	63	1	(LxWxH) 1200 x 800 x 1570 mm	328,000
29 572	158	1	(LxWxH) 540 x 580 x 160 mm	25,100	45 014	63	1	(LxWxH) 1200 x 800 x 1123 mm	279,000
29 573	158	1	(LxWxH) 540 x 580 x 160 mm	26,900	45 018	63	1	(LxWxH) 1200 x 800 x 2070 mm	415,000
29 582	159	1	(LxWxH) 540 x 580 x 195 mm	25,800	45 100	63	1	(LxWxH) 1280 x 760 x 1420 mm	89,000
29 583	159	1	(LxWxH) 540 x 580 x 195 mm	27,600	45 101	63	1	(LxWxH) 980 x 760 x 1420 mm	66,000
29 592	159	1	(LxWxH) 540 x 580 x 160 mm	25,300	87 563	67	1	∅ 56 x 530 mm	2,184
29 593	159	1	(LxWxH) 540 x 580 x 160 mm	27,400	87 626	77	1	(LxWxH) 182 x 198 x 208 mm	1,810
29 742	159	1	(LxWxH) 540 x 580 x 160 mm	17,100	90 710	182	1	(LxWxH) 100 x 50 x 2 mm	0,009
29 743	159	1	(LxWxH) 540 x 580 x 160 mm	18,450	90 711	182	1	(LxWxH) 210 x 150 x 2 mm	0,009
29 752	159	1	(LxWxH) 540 x 580 x 160 mm	21,100	90 712	182	1	(LxWxH) 210 x 150 x 2 mm	0,009
29 753	159	1	(LxWxH) 540 x 580 x 160 mm	23,200	90 713	182	1	(LxWxH) 150 x 115 x 1 mm	0,005
29 762	160	1	(LxWxH) 540 x 580 x 190 mm	24,400	90 714	182	1	(LxWxH) 210 x 150 x 2 mm	0,009
29 763	160	1	(LxWxH) 540 x 580 x 190 mm	26,800	90 730	183	1	(LxWxH) 105 x 56 x 41 mm	0,068
29 772	160	1	(LxWxH) 540 x 580 x 160 mm	24,100	90 731	183	1	∅ 110 x 16 mm	0,265
29 773	160	1	(LxWxH) 540 x 580 x 160 mm	25,900	90 732	183	1	(LxWxH) 105 x 56 x 11 mm	0,017
29 782	160	1	(LxWxH) 540 x 580 x 190 mm	24,800	90 745	183	1	(LxWxH) 100 x 50 x 4 mm	0,025
29 783	160	1	(LxWxH) 540 x 580 x 190 mm	26,600	90 746	183	1	(LxWxH) 100 x 9 x 1 mm	0,001
29 792	160	1	(LxWxH) 540 x 580 x 160 mm	24,300	90 760	183	1	(LxWxH) 100 x 9 x 1 mm	0,001
29 793	160	1	(LxWxH) 540 x 580 x 160 mm	26,400	90 761	183	1	(LxWxH) 100 x 9 x 1 mm	0,001
29 930	32	1	(LxWxH) 170 x 220 x 105 mm	1,800	90 762	183	1	(LxWxH) 100 x 9 x 1 mm	0,001
29 940	32	1	(LxWxH) 300 x 250 x 540 mm	7,800	90 763	183	1	(LxWxH) 100 x 9 x 1 mm	0,001
29 976	32	1	∅ 55 x 55 mm	0,060	90 764	183	1	(LxWxH) 100 x 9 x 1 mm	0,001
29 977	161	1	∅ 55 x 55 mm	0,055	90 765	183	1	(LxWxH) 100 x 9 x 1 mm	0,001
29 978	105	1	∅ 55 x 55 mm	0,050	90 980 932	185	1	-	-





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