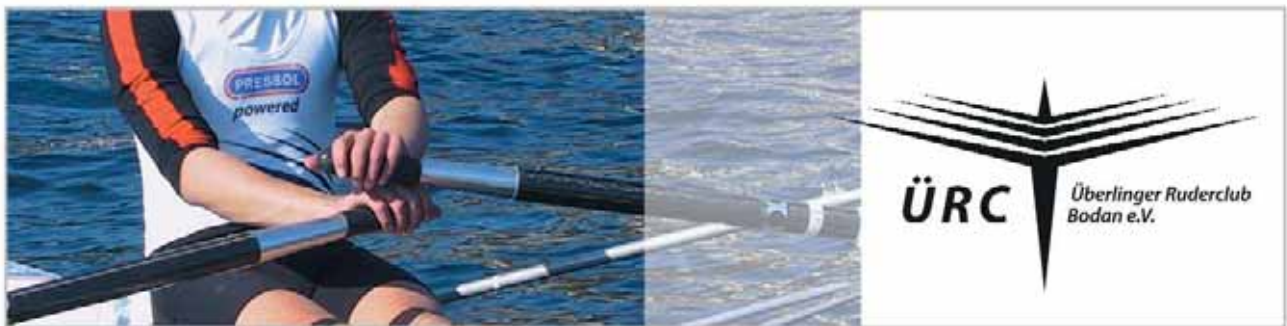


GARAGE EQUIPMENT





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

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



COMPREHENSIVE PRODUCT LINE

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List Of Abbreviations / Weights and Measures

LIST OF GENERAL ABBREVIATIONS

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

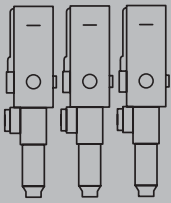
INTERNATIONAL WEIGHTS AND MEASURES

1 Inch (in.)2,54 cm
 1 foot (ft) - 12 in.30,48 cm
 1 yard (yd) - 3 in.91,44 cm
 1 mile1,609344 km

1 square inch (sq.in.)6,45 cm²
 1 square foot (sq.ft) - 144 sq.in9,280 dm²
 1 square yard (sq.yd - 9 sq.ft.....0,836 m²
 1 acre0,4047 ha
 1 square mile (sq.mile)2,589978 km²

	U. K.	U.S.A
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 dr28,350 g
 1 pound (lb) - 16 oz453,590 g
 1 quarter (qr)12,700 kg
 1 hundredweight (cwt) - 4 gr50,802 kg



Synopsis Pneumatic Pumps

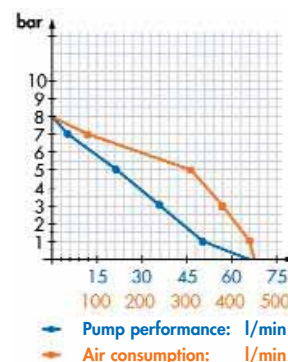
***We don't guarantee 5 years of
best performance for fun...***

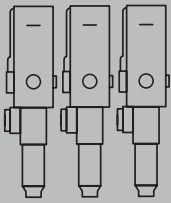


PNEUMATIC OIL AND DIESEL PUMP 1:1

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	220 cm³
Stroke volume, pump	220 cm³
Stroke number at 8 bar (free outlet)	240 /min
Pump performance at 8 bar (free outlet)	66 l/min
Pump pressure at 8 bar compressed air	8 bar
Air consumption at 8 bar compressed air	450 l/min
Feeding pipeline length	Depends on each single machine
Maximum suction height	6 m , 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	We recommend the use of an air maintenance unit (20 218 950)

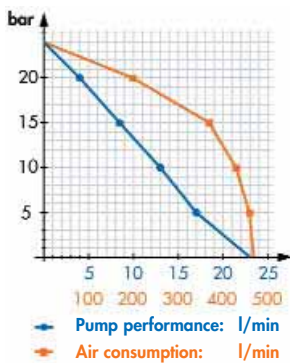




Synopsis Pneumatic Pumps

PNEUMATIC OIL AND DIESEL PUMP 3:1

TECHNICAL DATA, PNEUMATIC OIL AND DIESEL PUMP 3:1

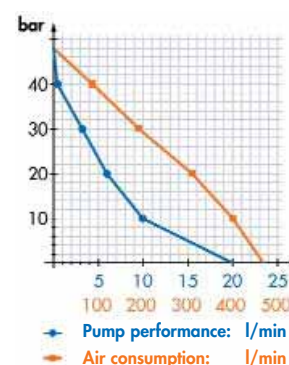


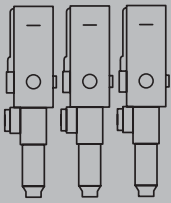
Total length of pump	360 mm / 1200 mm
Maximum Diameter	130 mm
Motor weight/total weight	3,8 kg / 5,2 kg
Transmission ratio	3 : 1
Maximum air pressure	10 bar
Minimum air pressure	2 bar
Recommended air pressure	8 bar
Stroke volume, motor	220 cm³
Stroke volume, pump	70 cm³
Stroke number at 8 bar (free outlet)	260 /min
Pump performance at 8 bar (free outlet)	22 l/min
Pump pressure at 8 bar compressed air	24 bar
Air consumption at 8 bar compressed air	470 l/min
Feeding pipeline length	Depends on each single machine
Maximum suction height	6 m , 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	We recommend the use of an air maintenance unit (20 218 950)

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	220 cm³
Stroke volume, pump	70 cm³
Stroke number at 8 bar (free outlet)	270 /min
Pump performance at 8 bar (free outlet)	20 l/min
Pump pressure at 8 bar compressed air	40 bar
Air consumption at 8 bar compressed air	470 l/min
Feeding pipeline length	Depends on each single machine
Maximum suction height	6 m , 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 rewinder 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	We recommend the use of an air maintenance unit (20 218 950)





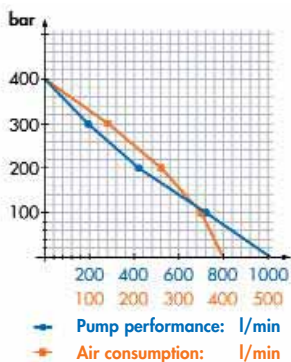
Synopsis Pneumatic Pumps



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	220 cm ³
Stroke volume, pump	8 cm ³
Stroke number at 8 bar (free outlet)	220 /min
Pump performance at 8 bar (free outlet)	1100 g/min
Pump pressure at 8 bar compressed air	400 bar
Air consumption at 8 bar compressed air	400 l/min
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	We recommend the use of an air maintenance unit (20 218 950)





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

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

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

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

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

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

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

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

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

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

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

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

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



18 419 051



18 415 051

GREASE SUPPLY SYSTEMS, MOBILE

Grease supply system, mobile

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

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

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

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

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

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

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

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

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

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



18 766 051

Technical data		Article no.
airline connector:	to suit Rectus airline connector, type 26	
NW:	7,2 mm	
hydraulic coupler:	to suit hydraulic grease nipples, DIN 71 412	
Specification		
<ul style="list-style-type: none"> • 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,		18 786 051
Ø 540 - 590 mm		
high-pressure grease hose, 6 m (18 026) and trolley (17 008)		
to suit 25 kg container,		19 000 533
Ø 310 - 335 mm		
high-pressure grease hose, 6 m (18 026) and trolley (17 008)		
to suit 50 kg container,		18 766 950
Ø 335 - 385 mm		
high-pressure grease hose, 6 m (18 026) and trolley (17 009)		
to suit 200 kg container,		18 786 056
Ø 540 - 590 mm		
hose reel, open, wall and floor mounting, 10 m (29 242) and trolley (17 009)		
to suit 200 kg container,		18 788 051
Ø 540 - 590 mm		



18 786 051

GREASE SUPPLY SYSTEMS, MOBILE, TO RECHARGE CENTRALIZED LUBRICATION SYSTEMS

Technical data		Grease supply system, mobile, ZSA
airline connector:	to suit Rectus airline connector, type 26	high-pressure grease hose, 4 m (18 024) and trolley (17 008)
NW:	7,2 mm	to suit 50 kg container,
hydraulic coupler:	to suit Rectus connector, type 72	Ø 335 - 385 mm
Specification		
<ul style="list-style-type: none"> • 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 		high-pressure grease hose, 6 m (18 026) and trolley (17 008)
		to suit 50 kg container,
		Ø 335 - 385 mm
		<ul style="list-style-type: none"> • 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		Male quick release adapter,	17 044
connection 1:	G 1/4" female	G 1/4" female, type 72	
connection 2:	to suit Rectus connector, type 72		
material:	brass	Specification	
		<ul style="list-style-type: none"> • to connect to a centralized lubricating system 	



17 044



Grease Supply Systems

Article no.

ACCESSORIES TO SUIT 19 000 532



01 297

01 297

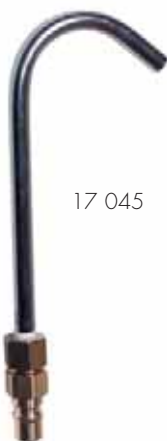
Female quick release adapter,
type 72, G 1/4" female

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

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

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

27 846

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

27 846 056

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

27 846 950

- for use with smaller container please order follower plates according to the diameter of used container by separate
- hose storage rack
- oil drip tray

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)



27 846

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

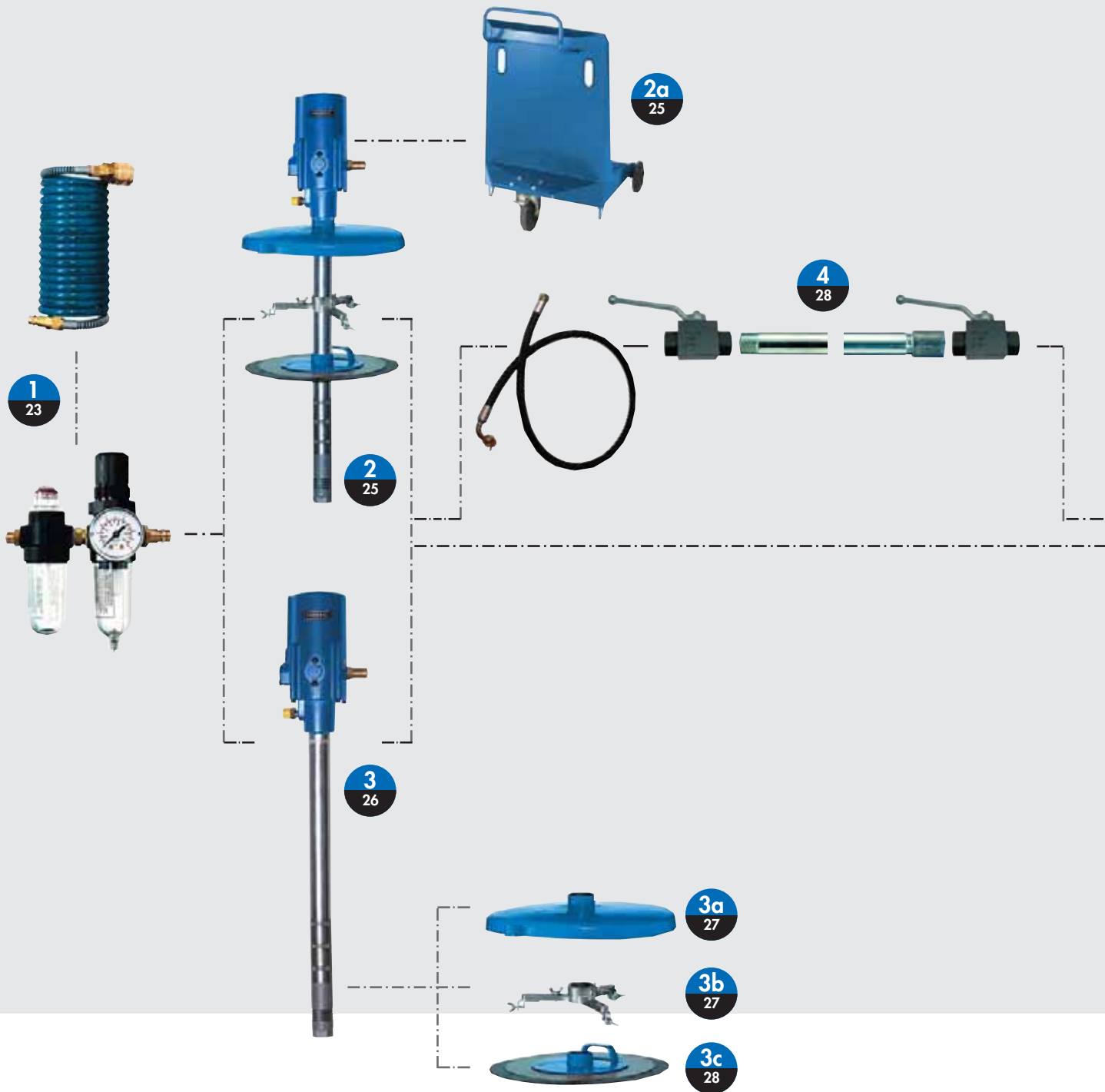


Construction Kit For Grease Supply

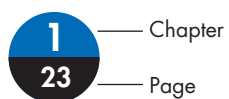


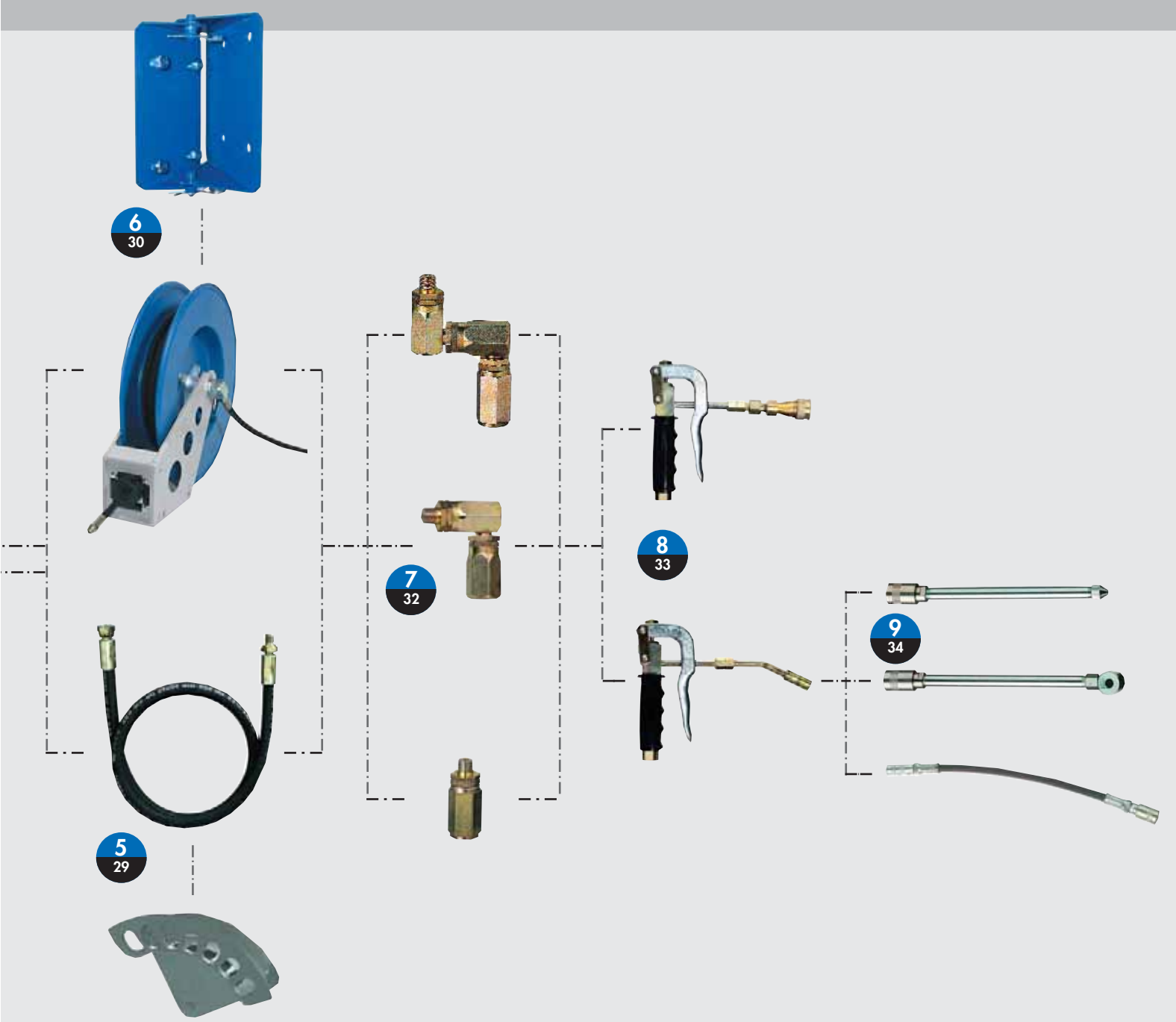


Construction Kit For Grease Supply



Explanation of Signs





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

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

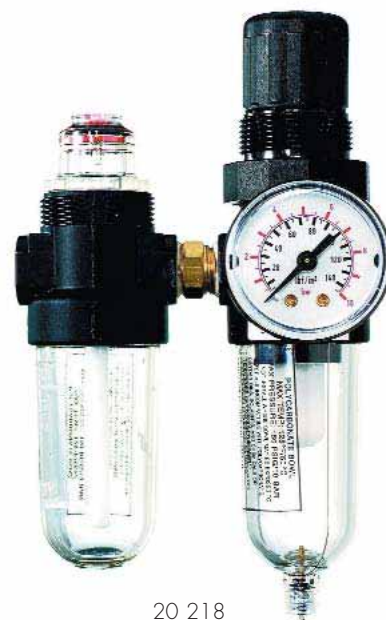
Specification

- pressure regulator with gauge, moisture separating filter and lubricator

Air maintenance unit

Article no.

20 218



20 218



Construction Kit For Grease Supply



20 218 950

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

ACCESSORIES FOR AIR SUPPLY

20 062

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



20 062

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

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



20 112

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

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

to suit 5 kg container,
Ø 180 - 210 mm

18 700 051

SRL 468

to suit 10 kg container, Ø 210 - 240 mm
to suit 15 kg container, Ø 240 - 270 mm

18 720 051
18 730 051

SRL 600

to suit 20/30 kg container,
Ø 270 - 310 mm

18 740 051
to suit 25 kg container, Ø 310 - 335 mm

18 750 051

SRL 700

to suit 50 kg container, Ø 335 - 385 mm

18 760 051

SRL 1000

to suit 200 kg container, Ø 540 - 590 mm

18 780 051


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

3

PNEUMATIC GREASE PUMPS 50:1

18 710 950



18 710 950

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

SRL1000 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

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

Technical data

material: metal
inside diameter: 35,5 mm
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
hose diameter
inside: 6 mm
operating
pressure: 400 bar

Specification

- to connect pneumatic grease pump
with pipework

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

Technical data

29 242

O, WB, 400 bar, DN 6, 10 m, (16,8 kg)

dimension LWH: 472 x 152 x 498

connecting threads

of discharge hose: G 1/4" male

length of connecting hose:

1000 mm

29 243

O, WB, 400 bar, DN 6, 15 m, (18,8 kg)

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

Technical data

29 252

O, D, 400 bar, DN 6, 10 m, (20,4 kg)

dimension LWH: 472 x 158 x 520

connecting threads

of discharge hose: G 1/4" male

length of connecting hose:

1000 mm

29 253

O, D, 400 bar, DN 6, 15 m, (22,4 kg)

connecting threads

of connecting hose: G 1/4" female

inside diameter of hose: 6 mm

operating pressure: 400 bar



29 242



29 252

Article no.

ENCASED, FOR WALL-/FLOOR-MOUNTING, OUTSIDE SWIVEL
Technical data

dimension LWH: 495 x 158 x 508

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

Hose reel, for grease

GDA, WB, 400 bar, DN 6, 10 m,
(23,4 kg)

GDA, WB, 400 bar, DN 6, 15 m,
(25,4 kg)

29 272
29 273


29 272

ENCASED, FOR WALL-/FLOOR-MOUNTING, INSIDE SWIVEL
Technical data

dimension LWH: 495 x 170 x 508

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

Hose reel, for grease

GDI, WB, 400 bar, DN 6, 10 m,
(23,8 kg)

GDI, WB, 400 bar, DN 6, 15 m,
(25,8 kg)

29 262
29 263


29 262

ENCASED, FOR MOUNTING ON CEILINGS, OUTSIDE SWIVEL
Technical data

dimension LWH: 495 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

Hose reel, for grease

GDA, D, 400 bar, DN 6, 10 m,
(23,6 kg)

GDA, D, 400 bar, DN 6, 15 m,
(25,6 kg)

29 292
29 293


29 292

ENCASED, FOR MOUNTING ON CEILINGS, INSIDE SWIVEL
Technical data

dimension LWH: 495 x 170 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

Hose reel, for grease

GDI, D, 400 bar, DN 6, 10 m,
(23,2 kg)

GDI, D, 400 bar, DN 6, 15 m,
(25,2 kg)

29 282
29 283


29 282



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 easy 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

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

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

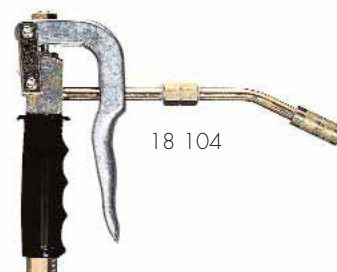
Grease gun,

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

- 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

Article no.

18 104



18 104

18 105



18 105

18 108



18 108



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

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



12 042



12 043



12 044



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

12 056

Quick release adapter with angled spout 150 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

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

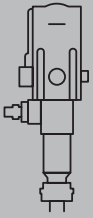
**Quick release adapter with
22 mm hock-on coupler**
to suit 22 mm/0,86" button
head nipples DIN 3404

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)

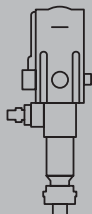
19 241

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

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

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

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)

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

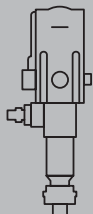
19 000 331

19 000 333

19 000 959



19 000 331



Fresh Oil Supply Systems



23 322 950

Article no.

OIL SUPPLY SYSTEMS, FOR WALL-MOUNTING

Oil system, for wall-mounting
SRL 860/1600

Technical data

suction pipe length:	860 mm and 1600 mm
connection:	G 2" male retention adapter
pump design:	gear wheel pump, selfpriming
delivery rate in case of free outlet	10 l
max. operating pressure:	16 bar
voltage:	400 V
power:	0,5 KW
power connection:	Cekon-plug with a phase inverter

23 322 950

with electric oil pump (23 322) and digital flow meter (19 707 950), not calibratable

23 322 955

with electric oil pump with an air eliminator (23 322 030) and digital flow meter (19 709), calibratable

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

Flexible connecting oil hose
0,5 m, G 1/2" female, G 1/2" female

Technical data



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

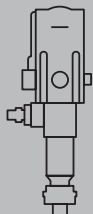
Specification

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



19 580 001

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



Fresh Oil Supply Systems



19 213



19 244 551



19 246

Article no.

OIL SUPPLY SYSTEMS, MOBILE

Oil system, mobile

SRL 570 mm,
to suit 60 l container

19 213

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)

Oil system, mobile

SRL 860 mm,
to suit 200/220 l container

19 243

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)

Oil systems, mobile

SRL 860,
to suit 200/220 l container

19 246

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).

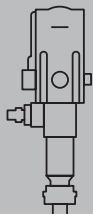
Technical data

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)

<p>Technical data</p> <p>dimension LWH: 1000 x 730 x 1370</p> <p>suction pipe length: 860 mm</p> <p>airline connection: to suit Rectus coupling, type 26</p> <p>NW: 7,2 mm</p> <p>connection: G 2" male retention adapter</p> <p>trolley load: 200 kg</p> <p>Specification</p> <ul style="list-style-type: none"> • 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) 	<p>Oil system, mobile</p> <p>SRL 860, to suit 200/220 l container</p> <p>with digital hose end meter (19 707 950)</p> <p>with digital hose end meter (19 707)</p>	<p>Article no.</p>	 <p>19 257</p>
<p>Technical data</p> <p>dimension LWH: 1000 x 730 x 1370</p> <p>suction pipe length: 860 mm</p> <p>airline connection: to suit Rectus coupling, type 26</p> <p>NW: 7,2 mm</p> <p>connection: G 2" male retention adapter</p> <p>trolley load: 200 kg</p> <p>Specification</p> <ul style="list-style-type: none"> • 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) 	<p>Oil system, mobile</p> <p>SRL 860, to suit 200/220 l container</p>	<p>19 257 551</p>	 <p>19 257 551</p>
<p>Technical data</p> <p>dimension LWH: 1000 x 730 x 1370</p> <p>suction pipe length: 860 mm</p> <p>airline connection: to suit Rectus coupling, type 26</p> <p>NW: 7,2 mm</p> <p>connection: G 2" male retention adapter</p> <p>trolley load: 200 kg</p> <p>Specification</p> <ul style="list-style-type: none"> • 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) 	<p>Oil system, mobile, design acc. to German calibration law</p> <p>SRL 860, to suit 200/220 l container</p>	<p>19 000 960</p>	 <p>19 000 960</p>
<p>Technical data</p> <p>dimension LWH: 1000 x 730 x 1370</p> <p>suction pipe length: 860 mm</p> <p>airline connection: to suit Rectus coupling, type 26</p> <p>NW: 7,2 mm</p> <p>connection: G 2" male retention adapter</p> <p>trolley load: 200 kg</p> <p>Specification</p> <ul style="list-style-type: none"> • 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) 	<p>It is recommended to operate the pneumatic pump with an air maintenance unit (20 218 950).</p>	<p>19 000 950</p>	 <p>19 000 950</p>



Fresh Oil Supply Systems

Article no.

OIL SUPPLY SYSTEMS, MOBILE

19 000 961



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)

23 000 960



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)

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

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)

Oil system, mobile

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

Article no.

23 000 961


23 000 961

OIL SUPPLY SYSTEM, STATIONARY
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

Specification

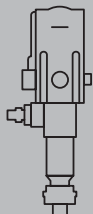
- electric oil pump (23 337)
- euro plug, 1,8 m cable
- suction pipe, G 3/4" female (quadrant pipe) with foot valve
- suction hose, 2 m, G 3/4" female/male
- discharge hose, 2 m, G 1/2" female/male
- rotary swivel connector
- oil control valve (19 718)
- anti-drip nozzle, with automatic non drip nozzle

Oil system, stationary

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

23 337 390


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

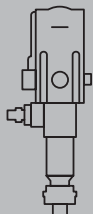
Spray unit, mobile

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

19 802

Container storage unit

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

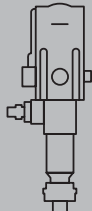
Barrel lift**Specification**

- 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

19 003 350

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

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

19 003 351

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

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 (45 010)
- air maintenance unit (20 218 950)
- suction tube set
- digital flow meter
- storage bracket for oil meter with integral oil drip tray

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

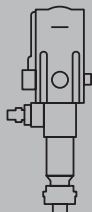
with hose reel, 10 m,
open, wall- and floor-
mounting (29 142)
(LWH: 1370 x 800 x 2070),
357 kg

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

	Oil supply station, 1000 l, design acc. to German calibration law oil pump, 400 V	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 oil (hazard class A III) overground connections: G 1/2"
23 003 355	with discharge hose, 8 m, hose storage rack (LWH: 1370 x 800 x 1950), 346 kg	
23 003 356	with hose reel, 10 m, open, wall- and floor- mounting (29 142) (LWH: 1370 x 800 x 2070), 360 kg	
		Specification <ul style="list-style-type: none"> • 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

	Oil supply station, 750 l, 3:1 pneumatic pump	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"
19 003 250	with discharge hose, 8 m, hose storage rack (LWH: 1370 x 800 x 1660), 301 kg	
19 003 251	with hose reel, 10 m, open, wall- and floor- mounting (29 142) (LWH: 1370 x 800 x 1730), 314 kg	
		Specification <ul style="list-style-type: none"> • 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

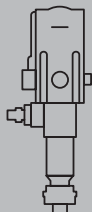
with hose reel, 10 m,
open, wall- and floor-mounting,
(29 142)
(LWH: 1370 x 800 x 1730),
315 kg

19 003 255

19 003 256



19 003 255



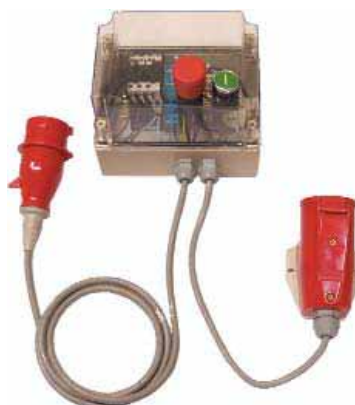
Fresh Oil Supply Systems



23 003 256



19 413 472



19 413 473

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

23 003 256

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

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

ACCESSORIES

19 413 472

Operating time limiter to suit
pneumatic fresh-oil systems

Technical data

dimension LWH:	200 x 180 x 200
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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

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

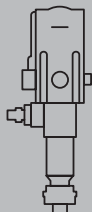
Article no.

19 000 350

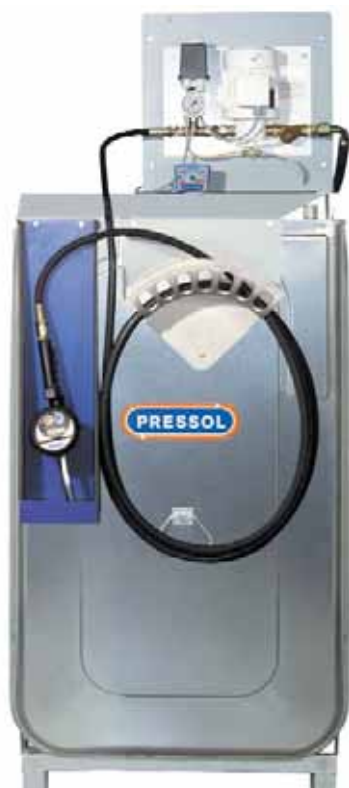
19 000 351



19 000 351



Fresh Oil Supply Systems



23 000 350



19 000 356

Article no.

OIL SUPPLY STATIONS, 1000 L

23 000 350

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

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

23 000 351

with hose reel, 10 m,
open, wall- and floor-
mounting (29 142)
(LWH: 1450 x 760 x 1720),
148,5 kg

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 (45 100)
- 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

19 000 355

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

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

19 000 356

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

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

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

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

- 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

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

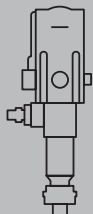
with hose reel, 10 m,
open, wall- and floor-
mounting (29 142)
(LWH: 1150 x 760 x 1920),
100 kg

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

	Oil supply station, 750 l, oil pump, 400 V	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"
23 000 250	with discharge hose, 8 m, hose storage rack (LWH: 1130 x 760 x 1720), 104 kg	
23 000 251	with hose reel, 10 m, 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

	Oil supply station, 750 l, design acc. to German calibration law 3:1 pneumatic pump	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"
19 000 255	with discharge hose, 8 m, hose storage rack (LWH: 1130 x 760 x 1720), 90 kg Design acc. to Austrian calibration law (19 016 135)	
19 000 256	with hose reel, 10 m, 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)

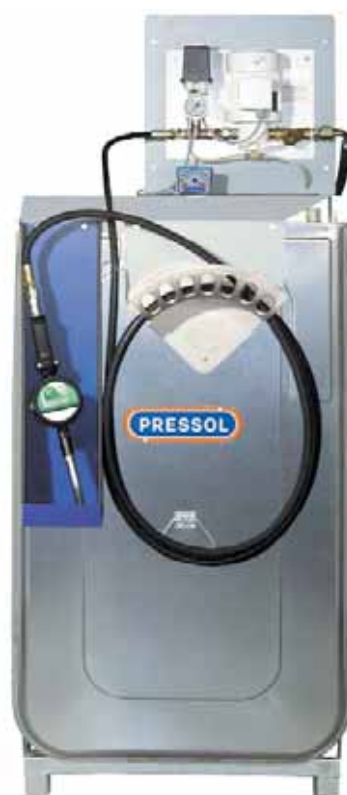
with hose reel, 10 m,
 open, wall- and floor-mounting
 (29 142)
 (LWH: 1150 x 760 x 1920),
 115 kg

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

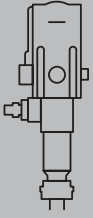
Article no.

23 000 255

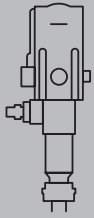
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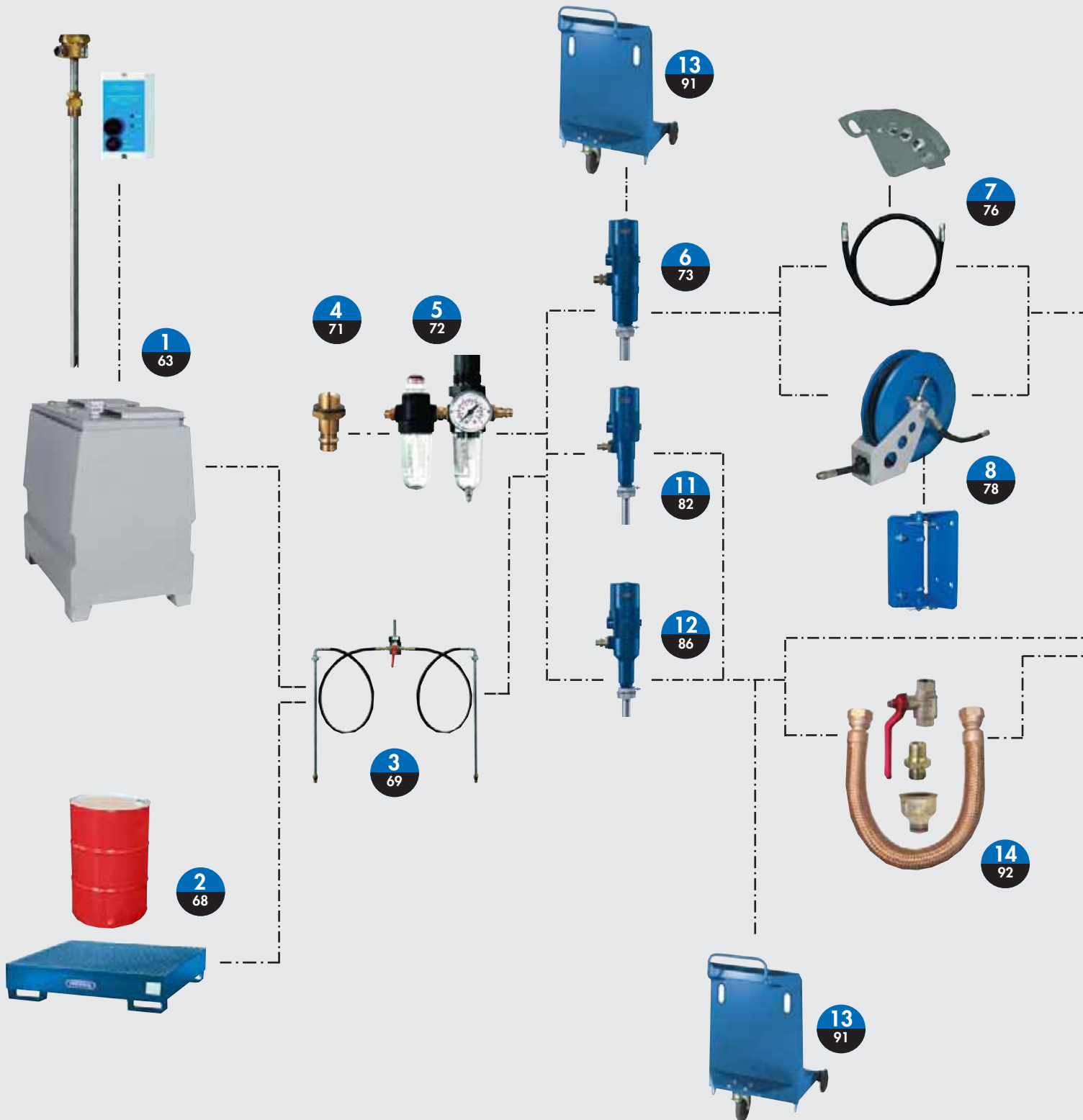
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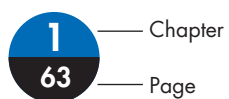
Construction Kit For Fresh Oil Supply

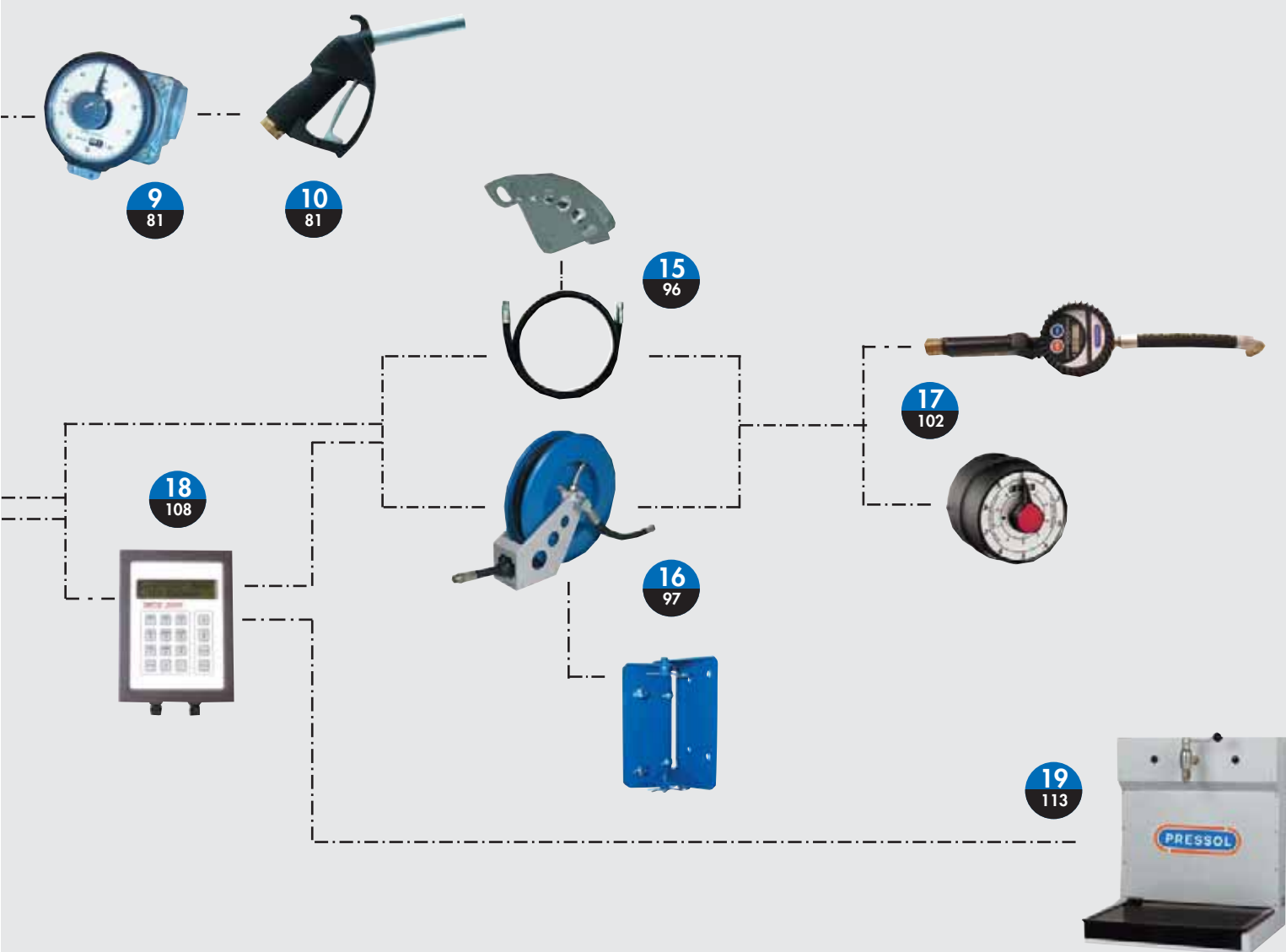


Construction Kit For Fresh Oil Supply



Explanation of Signs





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

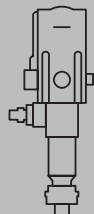
45 018



45 100

45 101

45 100



Construction Kit For Fresh Oil Supply



Article no.

ACCESSORIES TO SUIT STORAGE TANKS

19 402

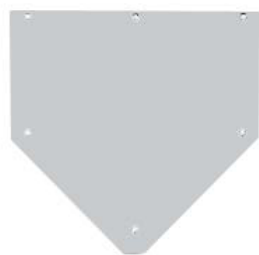
Storage bracket for oil meters
with integral drip tray

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

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

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

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), 1 m 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 mm²
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)

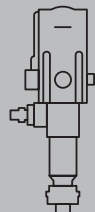
Electric contactor valve

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

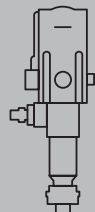
Technical data

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

<p>Technical data connection: G 2" female</p> <p>Specification</p> <ul style="list-style-type: none"> • can be mounted as a protection cap at the end of a storage ventilation pipe of tanks 	<p>Tank ventilation cap, G 2" female, with a strainer, Polyamide</p> <p>Tank ventilation cap, G 2" female, without strainer, Brass</p>	<p>Article no.</p> <p>19 410</p> <p>19 411</p>	 <p>19 411</p>
<p>Technical data connections: G 2" male material: galvanized steel</p>	<p>Tank filling spout, angled 90° G 2" male, G 2" male</p>	<p>19 414</p>	 <p>19 414</p>
<p>Technical data connection 1: G 2" male connection 2: to suit filling systems of tank trucks</p> <p>Specification</p> <ul style="list-style-type: none"> • metal cover • tanker coupling 	<p>Storage tank refilling system, G 2" male, 45° angled</p>	<p>19 414 950</p>	 <p>19 41</p>
<p>Technical data connection: R 2" female material: brass sealing: Vulkollan</p> <p>Specification</p> <ul style="list-style-type: none"> • without cover 	<p>Tank filling coupler</p>	<p>19 416</p>	 <p>19 416</p>
<p>Technical data material: metal sealing: Perbunan</p> <p>Specification</p> <ul style="list-style-type: none"> • steel chain, nickelized, 25 cm • to suit tank filling coupler (19 416) 	<p>Cap to suit tank filling coupler</p>	<p>19 417</p>	 <p>19 417</p>
<p>Technical data connection: G 2" male</p> <p>Specification</p> <ul style="list-style-type: none"> • storage tank refilling system (19 414 950) • tank ventilation cap (19 410) • tank ventilation tube (87 563) 	<p>Storage tank refilling system and tank ventilation tube G 2" male</p>	<p>19 424</p>	 <p>19 424</p>
<p>Technical data connection: G 2" male length: 500 mm</p> <p>Specification</p> <ul style="list-style-type: none"> • to be mounted on storage tank in conjunction with tank ventilation cap (19 410) 	<p>Tank ventilation tube G 2" male, 500 mm</p>	<p>87 563</p>	 <p>87 563</p>



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



19 802

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.

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

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)

Article no.

19 815



19 815

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.

19 816



19 816

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

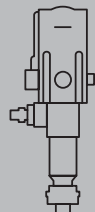
Specification

- 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



19 511



Construction Kit For Fresh Oil Supply

Article no.

SUCTION TUBES AND ACCESSORIES

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



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.

19 523 001

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

19 522

19 523 001

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

Specification

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

Male quick release adapter,

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

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

Specification

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

Adapter

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

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

Specification

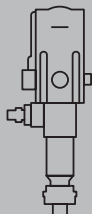
- to connect the compressed airline to a compressed air tool

Coiled air hose, 5 m

20 185



20 185



Construction Kit For Fresh Oil Supply

Article no.

5

AIR MANTENACE UNITS

20 218

Air maintenance unit

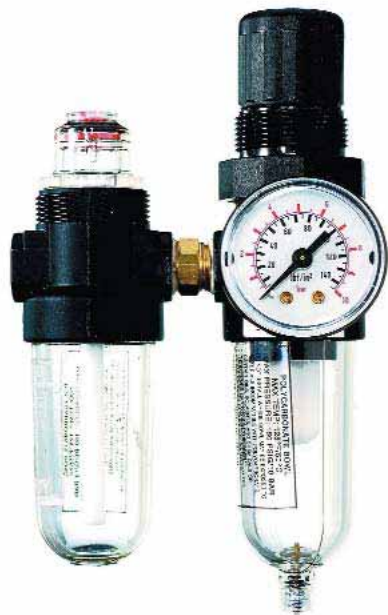
Technical data

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

Article no.

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

19 135

19 165

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

19 185

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

19 135 843

19 165 843

Specification

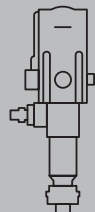
- suction tube, G 1" male



19 135



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

Specification

- 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:

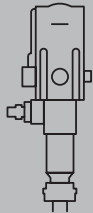
- waste oils, water
- water-based liquids, oils or slurries providing outstanding abrasion resistance (e. g. screen water, anti-freeze, various chemicals, light acids etc.)

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



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)

7

DISCHARGE HOSES FOR OIL

19 530



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)

19 512



19 512






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

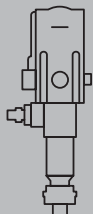
Technical data

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

Technical data 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		Discharge hoses for oil 1 m , G 3/4" female, G 3/4" male 3 m , G 3/4" female, G 3/4" male 4 m , G 3/4" female, G 3/4" male 5 m , G 3/4" female, G 3/4" male 8 m , G 3/4" female, G 3/4" male		Article no.	
Specification <ul style="list-style-type: none">• high delivery rate• acc. to DIN 20 022 (EN 853)				19 531	
				19 533	
				19 534	
				19 535	
				19 538	
					19 533
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		Discharge hose for oil 1,5 m , G 3/4" female, G 3/4" female		19 550	
Specification <ul style="list-style-type: none">• to connect pneumatic oil pumps with pipework• swivel nuts on both hose ends• acc. to DIN 20 022 (EN 853)					
					19 550
Technical data 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		Flexible metal hose 0,5 m, G 3/4" female, G 3/4" female		19 666	
Specification <ul style="list-style-type: none">• acc. to TRBF 231 T1 (German norm)• to connect oil pumps with pipework in non-visible areas• swivel nuts on both hose ends					
					19 666
Technical data dimension, LWH: 348 x 144 x 257 weight: 1,3 kg material: aluminium die casting		Hose storage rack large size		19 669	
		Specification <ul style="list-style-type: none">• for wall-mounting			
					19 669
Technical data dimension, LWH: 182 x 198 x 208 weight: 1,8 kg material: galvanized steel		Wall-mounting rack for diaphragm pumps		87 626	
Specification <ul style="list-style-type: none">• to suit diaphragm pumps (19 060 / 19 062)					
					87 626



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

Hose reel	Technical data
O, WB, 60 bar, DN 16, 8 m	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

Hose reel	Technical data
O, D, 60 bar, DN 16, 8 m	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
Technical data

dimension, LWH:	495 x 158 x 508
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

Hose reel

GDA, WB, 60 bar, DN 16, **8 m**

Article no.

29 371


29 371

ENCASED, FOR WALL-/FLOOR MOUNTING, INSIDE SWIVEL
Technical data

dimension, LWH:	495 x 170 x 508
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

Hose reel

GDI, WB, 60 bar, DN 16, **8 m**
29 361


29 361

ENCASED, FOR MOUNTING ON CEILINGS, OUTSIDE SWIVEL
Technical data

dimension, LWH:	495 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
operating pressure:	60 bar
weight:	25,5 kg

Hose reel

GDA, D, 60 bar, DN 16, **8 m**
29 391


29 391

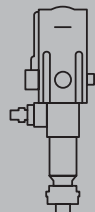
ENCASED, FOR MOUNTING ON CEILINGS, INSIDE SWIVEL
Technical data

dimension, LWH:	495 x 170 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
operating pressure:	60 bar
weight:	25,1 kg

Hose reel

GDI, D, 60 bar, DN 16, **8 m**
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

Specification

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

Inline meter, digital

turbine wheel, G 1"
female, G 1" female

Article no.

23 285



23 285

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

19 728



19 728

10 CONTROL VALVE

Technical data

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

Specification

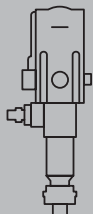
- manual shut-off valve
- swivel
- to suit 1:1 oil and diesel pumps and pneumatic diaphragm pumps
- recommended accessory (03 419)

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

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 areas
- 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: G 1/2" 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)

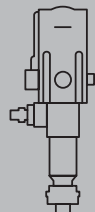
19 285 030

Specification

- acc. to German calibration law
- integral air eliminator
- overflow tube (copper) to prevent overpressures,
recommended as well for use in non visible areas
- 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

19 235 951

Pneumatic oil pump, 3:1,

SRL 860, to suit 200/220 l container

Technical data

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

19 265 951

SRL 1200 mm, for mounting on tanks

19 266 951

SRL 1500 mm, for mounting on tanks

Specification

- acc. to German calibration law
- integral air eliminating foot valve
- suction tube, G 3/4" male
- 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



19 285 951

19 285 951

Pneumatic oil pump, 3:1,
set, 860 mm suction tube,
for wall-mounting

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

- acc. to German calibration law
- integral air eliminating foot valve
- suction tube, 90° connecting angle, G 3/4" male
- suction hose, 2 m, G 3/4" female/male
- wall-mounting bracket
- 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

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

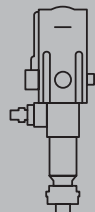
Article no.



19 235 600



19 285 600



Construction Kit For Fresh Oil Supply



19 305



19 385

Article no.

12 PNEUMATIC OIL PUMPS 5:1 - DOUBLE ACTING

PNEUMATIK OIL PUMPS

Pneumatic oil pump, 5:1,
double-acting

Technical data

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

19 305

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

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

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

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

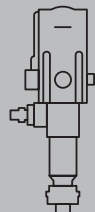
- double-acting pump, providing a continuous oil flow
- acc. to German calibration law
- integral air eliminating foot valve
- suction tube, G 3/4" male
- 2 m suction hose, G 3/4" female/male
- fluid outlet with integral back-flow valve
- wall-mounting bracket
- especially designed to dispense engine-, 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



19 335 951



19 385 951



Construction Kit For Fresh Oil Supply

Article no.

PNEUMATIC OIL PUMPS, COMPLETE INSTALLATION SETS



19 335 600

19 335 600

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

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

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

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, 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



19 335 601

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**

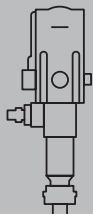
Article no.

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

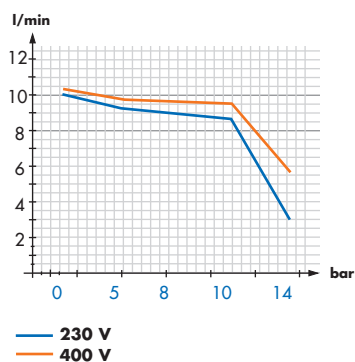


19 518

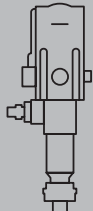
13 ELECTRIC OIL PUMPS

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	<div>Pump for mounting on container or tanks</div> <div>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.</div>				
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



23 337

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

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

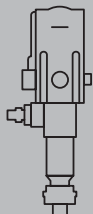
23 322



23 321



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

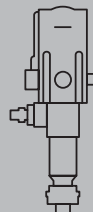
17 008 950



17 008 950

Specification

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



Construction Kit For Fresh Oil Supply

Article no.

15 ACCESSORIES FOR INSTALLATION OF FIXED OIL PIPE WORK

FLEXIBLE METAL HOSES

Flexible metal hose

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

Flexible connecting oil hose

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

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

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



19 666



19 580 001

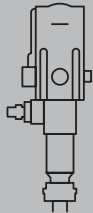


19 550



19 762

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	Article no. 19 763	
RETENTION ADAPTERS				
Technical data	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	Adapter R 1/2" male, G 1/2 " male	19 619	
Technical data	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	Adapter G 1/2" male, G 3/4" male	19 636	
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	
Technical data	connection 1: G 1" female connection 2: G 3/4" male inside diameter: 18 mm length: 56,3 mm material: galvanized cast steel	Retention nipple G 1" female, G 3/4" male	19 627	
Technical data	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	Retention nipple G 1 1/4" female, G 3/4" male	19 629	



Construction Kit For Fresh Oil Supply



19 760

Article no.

IN-LINE FILTERS

In-line filter

Technical data

sieve mesh size: 0,5 mm
operating pressure: 16 bar
material: brass
medium: oil

19 760

**G 1/2" female,
G 1/2" female,**
inside diameter: 12 mm

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**

Specification

- to connect oil pumps with pipework in non-visible areas
- acc. to German govt. specifications (TRBF 231 T1)
- retention adapter, G 1" female, G 3/4" male (19 627)
- lever ball valve, G 3/4" female, G 3/4" female (19 763)
- connecting nipple, G 3/4" male, G 3/4" male (19 637)
- flexible metal pipework connection, G 3/4" female, 0.5 m (19 666)
- adapter, G 3/4" male, with 60° sealing cone, G 1/2" female (87 965)

19 641

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

Specification

- to connect oil pumps with pipework in non-visible areas
- acc. to German govt. specifications (TRBF 231 T1)
- retention adapter, G 1 1/4" female, G 3/4" male (19 629)
- lever ball valve, G 3/4" female, G 3/4" female (19 763)
- connecting nipple, G 3/4" male, G 3/4" male (19 637)
- flexible metal pipework connection, G 3/4" female, 0.5 m (19 666)
- adapter, G 3/4" male, with 60° sealing cone, G 1/2" female (87 965)

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

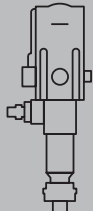
- for installation in conjunction with pipe work, G 1/2" female, on the delivery side of a pump
- prevents pressure built-up
- copper pipe, 2 m, for flow back of overpressurized liquid into the container

19 506

19 648



19 648



Construction Kit For Fresh Oil Supply

Article no.

16 DISCHARGE HOSES FOR OIL



19 561

- 19 561** 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

Discharge hoses for oil

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** 0,5 m, G 1/2" female,
G 1/2" female
- 19 580** 1,5 m, G 1/2" female,
G 1/2" female

Flexible connecting oil hose

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

Hose storage rack

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
length of	O, WB, 120 bar, DN 12, 10 m , (17,5 kg)
connection, hose:	1000 mm
connection,	
connecting hose:	G 1/2" female
inside diameter	O, WB, 120 bar, DN 12, 15 m , (19,5 kg)
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
length of	O, D, 120 bar, DN 12, 10 m , (21,1 kg)
connecting hose:	1000 mm
connection,	
connecting hose:	G 1/2" female
inside diameter	O, D, 120 bar, DN 12, 15 m , (23,1 kg)
of hose:	DN 12
operating pressure:	120 bar

Article no.

29 142

29 143



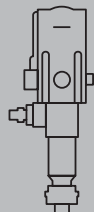
29 142

29 152

29 153



29 152



Construction Kit For Fresh Oil Supply



29 172



29 162



29 192



29 182

Article no.

HOSE REELS

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

Hose reel, oil, set	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

Hose reel, oil, set	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

Hose reel, oil, set	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

Hose reel, oil, set	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

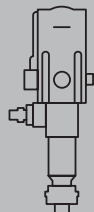
29 143 602

29 143 603

29 143 604



29 143 602



Construction Kit For Fresh Oil Supply



29 172 601

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

29 172 600

with oil control valve
(19 718)

29 172 601

with digital hose end meter
(item No.19 707 950)

29 172 602

with mechanical hose end meter
(19 723)

29 172 603

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

29 172 604

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



29 173 602

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

29 173 600

with oil control valve
(19 718)

29 173 601

with digital hose end meter
(item No.19 707 950)

29 173 602

with mechanical hose end meter
(19 723)

29 173 603






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

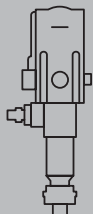
29 173 604

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

ACCESSORIES TO SUIT HOSE REELS			Article no.	
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		29 930	
Specification <ul style="list-style-type: none"> • wall-mounted swivel bracket to suit all types of hose reels 				29 930
Technical data colour : RAL 8001 brown material: Polyamide	Hose stop 1/2"		29 978	
Specification <ul style="list-style-type: none"> • for hoses of 18.5 mm outside diameter • suitable for oil hoses 				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		29 980	
Specification <ul style="list-style-type: none"> • drip tray with a drain screw and removable strainer • for wall-mounting 	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		29 940	
Specification <ul style="list-style-type: none"> • suits for lateral installation of a hose reel (e.g. in garage service pits) 				29 940



Construction Kit For Fresh Oil Supply

Article no.

18

CONTROL VALVES AND METERS

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



19 718

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



19 706

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

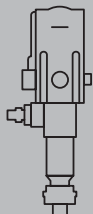
oval gears, BADGER, acc. to German calibration law

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
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

19 724

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

Specification

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

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 auto
matically 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.

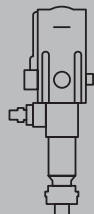
Digital in-line installation meter

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

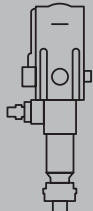


19 741

19 742

30° angled
90° angled

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

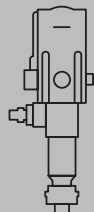
ADVANTAGES OF THE PRESSOL OIL MONITORING SYSTEM

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

TECHNICAL DATA

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

Network:	Two wires can bus network communication
Power Supply:	24 VDC voltage, power supply units included in the system (210 – 240 VAC, 50/60 Hz single phase)
System Storage:	Battery based RAM storage with max. capacity of 1900 transactions
Print of Reports:	Utilising an external standard printer with max. 80 characters/line Utilising an integral printer with max. 40 characters/line (36 402 only)
System Data of Standard Oil Monitoring System:	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
System Data of 36 402:	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



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

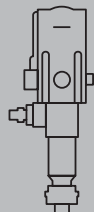
36 150

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

Technical data	Pulse transmitter, MDS 2000	Article no.	
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	G 1/2" female, G 1/2" female	36 160	
Specification	Remarks Other measurable media, as e.g. antifreeze or liquids for windscreen cleaning, upon request.	36 160	
• reed switch		36 170	
Specification	Printer, Epson LX 300	36 170	36 170
• serial interface • Epson emulation • to suit any MDS 2000 system			
MDS 2000, ACC. TO GERMAN CALIBRATION LAW			
Specification	Control unit, MDS 2000	36 200	
• acc. to German calibration law • connections for: 1 - 4 pulse transmitters (different oils), 4 double solenoid valves, 4 data entry keyboards	Design acc. to Austrian calibration law (36 200 135)	36 200	
Technical data	Data entry keyboard, MDS 2000	36 210	
power supply: 24 V	Design acc. to Austrian calibration law (36 210 135)	36 210	
Specification			
• acc. to German calibration law • membrane keyboard • serial printer connection • alphanumeric data entry system			
Technical data	Power supply unit	36 220	
input: 230 VAC output: 24 VDC	MDS 2000	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

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

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

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

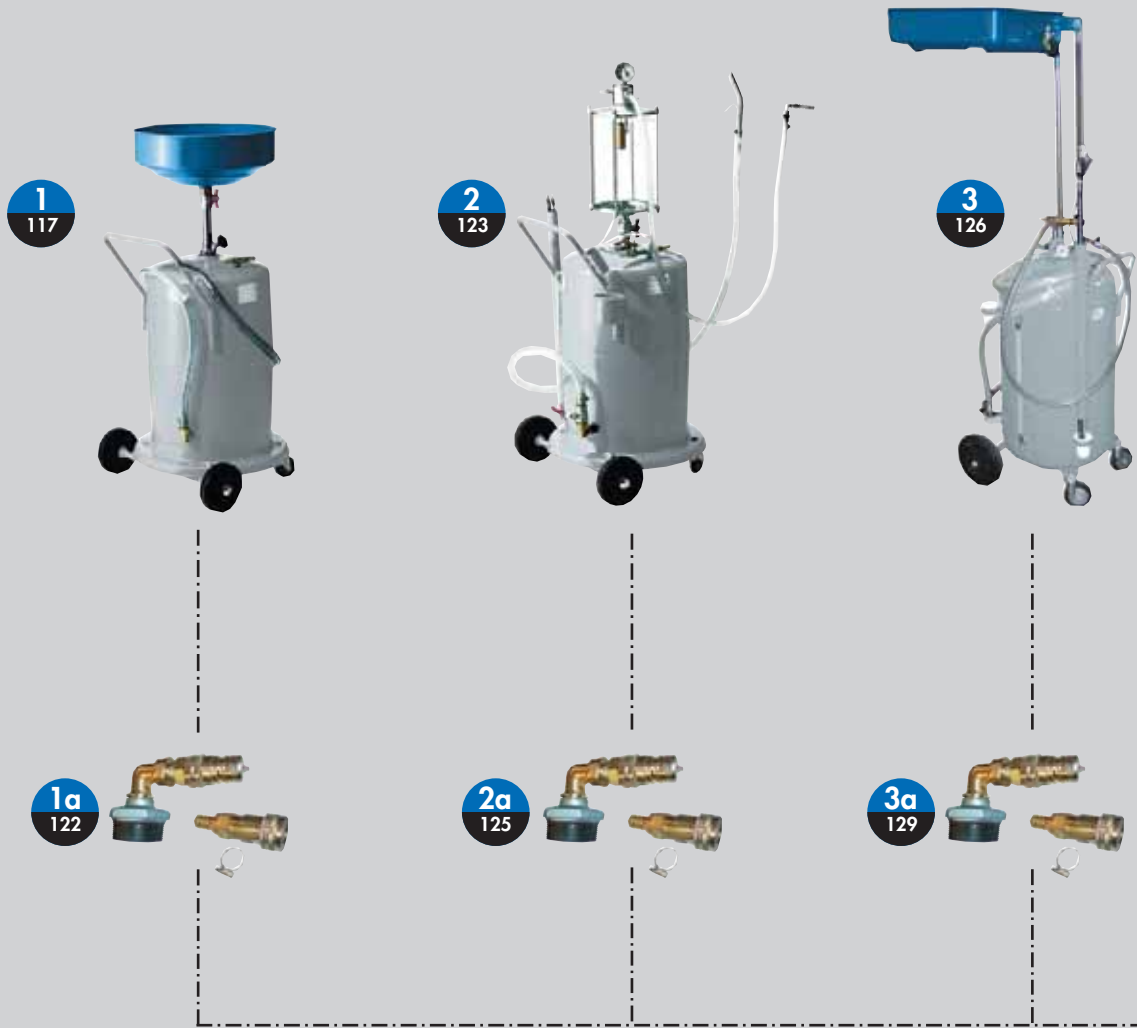
Waste Oil Disposal



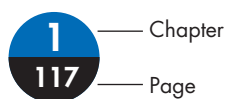
***Your Disposal Will Be
Quick, Clean
And Reliable ...***



Waste Oil Disposal



Explanation of Signs





4
130



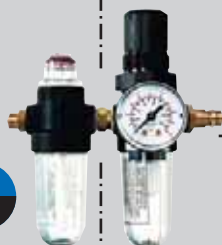
5
131



6
133



7
135



9
140



8
138



10
142

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

27 035

Mobile waste oil drainer,
with oil discharge connector

75 l

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

27 035 890

95 l

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

Technical data

p 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)
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.

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

Article no.

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 l

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

27 070 890

95 l

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

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

**Female quick release
connector**
size 4, G 3/4" female



19 770

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

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)



27 966

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
27 410	75 l (LWH: 600 x 580 x 1150) telescopic tube of drain bowl: 1180 mm – 1750 mm	NW: 7,2 mm discharge : utilizing a 1:1 pneumatic pump adapter, discharge: female hydraulic coupler, size 4, G 3/4"
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.

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

(LWH: 600 x 580 x 930)
telescopic tube of drain bowl:
1180 mm – 1750 mm

75 l, with visual inspection reservoir, 7 l

(LWH: 600 x 580 x 1360)
telescopic tube of drain bowl:
1180 mm – 1800 mm

95 l

(LWH: 600 x 580 x 1150)
telescopic tube of drain bowl:
1550 mm – 2120 mm

95 l, with visual inspection reservoir, 7 l

(LWH: 600 x 580 x 1520)
telescopic tube of drain bowl:
1550 mm – 2120 mm

Article no.

27 622 680

27 632 680

27 622 891

27 632 891



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

19 793 391

19 793 391



Venturi waste oil drainer and suction unit, mobile

80 l

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.

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

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

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



27 905



27 918



27 926



27 958



27 963



27 964



27 965

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

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

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)



27 967



Waste Oil Disposal

Article no.

4

PNEUMATIC DIAPHRAGM PUMPS

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)

19 060

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)

19 062

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

19 901



19 900



19 901



Waste Oil Disposal

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

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

Collecting tray for oil drops with discharge tap

Specification

- to suit waste oil pipe-works
- for wall-mounting
- discharge tap



19 800



19 902

19 903

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

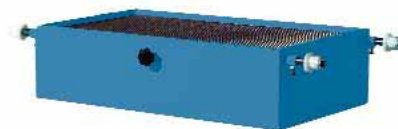
Drainage tray
40 l

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



19 000 335



19 000 435

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
7,2 mm

NW: connection,
pressure hose: G 1/2" female,
60° sealing cone,
90° angle

19 000 335

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

19 000 435

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 know
norigin, 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.

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



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 guide-
lines 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

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)



19 422

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



19 669

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)



87 626

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)



19 550

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

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

Flexible metal hose

0.5 m, G 3/4" female,
G 3/4" female

Article no.

19 666



19 666

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

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

Air maintenance unit

Article no.

20 218


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

* 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

Air maintenance unit, complete set
20 218 950


20 218 950



Waste Oil Disposal



45 010



45 014



45 100

Article no.

10 STORAGE TANKS

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)

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

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)

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

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

Article no.

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 ²
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



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



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



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

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

19 414

Tank filling spout, angled 90°

G 2" male, G 2" male

Technical data

connections: G 2" male
material: galvanized steel

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

19 426

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

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**

Specification

- lockable cover

02 568



02 568



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
Media	Petrol	Diesel, oil, anti-freeze, windscreen cleaners
Recommended Tools	<ul style="list-style-type: none"> • Drilling unit, • Flexible and electro conductive suction probes diam. 6/8 mm, length 1200 mm • hollow mandrel 	Diesel: Drilling unit, flexible and electro conductive suction probes (diam. 6/8 mm, length 1200 mm), hollow mandrel Oil: Oil collecting unit, drilling unit, pneumatic chiseling hammer Anti-freeze, windscreen cleaners: hollow mandrel
Capacity	20 l/min	Diesel/oil: approx. 18 l/min Anti-freeze and windscreen cleaners: approx. 20 l/min
Overflow Protection Valve	In A I Version	In A III Version
Suction Line	Electro conductive	Electro conductive
Hose Reel	6 m	6 m
Dimensions of the Module (W x D x H)	406 x 900 x 2100 mm	406 x 900 x 2100 mm
Oil Collecting Platform (W x D x H)	406 x 900 x 50 mm	406 x 900 x 50 mm



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.

Motor vehicle
drain dry system
Modul air pressure

Article no.

43 003

43 003



Modular Liquid Suction Probe Extraction System For Vehicles



43 001



43 002

Article no.

MODULES

**Motor vehicle
drain dry system**

43 001

Module 1, petrol version
overflow protection,
A I design
Media:
carburettor fuels, petrol

43 002

Module 2, A III
overflow protection,
A III design
Media:
diesel, cooling liquid,
anti-freeze, screen
water and waste oil

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

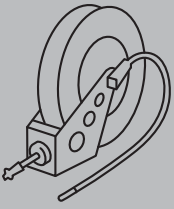
Specification

- 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 Ø 6 / 8 mm, L= 1200 mm, hollow, mandrel

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.

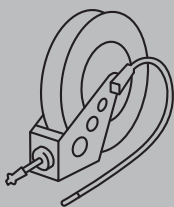
ACCESSORIES		Article no.	
Technical data airline connection: to suit Rectus coupler, type 26 NW: 7,2 mm	Motor vehicle drain dry system drilling unit	43 004	
Specification <ul style="list-style-type: none"> • to extract petrol, diesel and oil • pneumatic compressed air drill • drill unit • drill head with an emission preventing plunger • accessories box • adapter 			43 004
Specification <ul style="list-style-type: none"> • 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 <ul style="list-style-type: none"> • 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

Article no.

HOSE REELS FOR AIR/WATER

OPEN, FOR WALL-/FLOOR-MOUNTING

Hose reels for water/air	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: 20 bar

29 442

O, WB, 20 bar, DN 10, **10 m**, (17,2 kg)

29 443

O, WB, 20 bar, DN 10, **15 m**, (19,2 kg)

OPEN, FOR MOUNTING ON CEILINGS

Hose reels for water/air	Technical data
	dimension, LWH: 472 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: 20 bar

29 452

O, D, 20 bar, DN 10, **10 m**, (20,8 kg)

29 453

O, D, 20 bar, DN 10, **15 m**, (22,8 kg)



29 452

Article no.

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

Technical data		Hose reels for water/air
dimension, LWH:	495 x 158 x 508	
connection,		
discharge hose:	G 3/8" male	GDA, WB, 20 bar, 10 m ,
length of connecting hose:	1000 mm	(23,8 kg)
connection,		
connecting hose:	G 3/8" female	GDA, WB, 20 bar, 15 m ,
inside diameter of hose:	10 mm	(25,8 kg)
operating pressure:	20 bar	

29 472
29 473


29 472

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

Technical data		Hose reels for water/air
dimension, LWH:	495 x 170 x 508	
connection,		
discharge hose:	G 3/8" male	GDI, WB, 20 bar, 10 m ,
length of connecting hose:	1000 mm	(24,2 kg)
connection,		
connecting hose:	G 3/8" female	GDI, WB, 20 bar, 15 m ,
inside diameter of hose:	10 mm	(26,2 kg)
operating pressure:	20 bar	

29 462
29 463


29 462

ENCASED, FOR MOUNTING ON CEILINGS, OUTSIDE SWIVEL

Technical data		Hose reels for water/air
dimension, LWH:	495 x 158 x 520	
connection,		
discharge hose:	G 3/8" male	GDA, D, 20 bar, DN 10, 10 m ,
length of connecting hose:	1000 mm	(24 kg)
connection,		
connecting hose:	G 3/8" female	GDA, D, 20 bar, DN 10, 15 m ,
inside diameter of hose:	10 mm	(26 kg)
operating pressure:	20 bar	

29 492
29 493

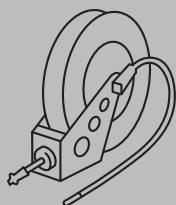

29 492

ENCASED, FOR MOUNTING ON CEILINGS, INSIDE SWIVEL

Technical data		Hose reels for water/air
dimension, LWH:	495 x 170 x 520	
connection,		
discharge hose:	G 3/8" male	GDI, D, 20 bar, DN 10, 10 m ,
length of connecting hose:	1000 mm	(23,8 kg)
connection,		
connecting hose:	G 3/8" female	GDI, D, 20 bar, DN 10, 15 m ,
inside diameter of hose:	10 mm	(25,6 kg)
operating pressure:	20 bar	

29 482
29 483


29 482



Air/Water Supply

Article no.

HOSE REELS FOR ANTI-FREEZE

OPEN, FOR WALL-/FLOOR-MOUNTING

29 542

Hose reels for anti-freeze

O, WB, 120 bar, DN 12, **10 m**,
(17,5 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

29 543

O, WB, 120 bar, DN 12, **15 m**,
(19,5 kg)

29 542



OPEN, FOR MOUNTING ON CEILINGS

29 552

Hose reels for anti-freeze

O, D, 120 bar, DN 12, **10 m**,
(21,1 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

29 553

O, D, 120 bar, DN 12, **15 m**,
(23,1 kg)

29 552



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

29 572

Hose reels for anti-freeze

GDA, WB, 120 bar, DN 12, **10 m**,
(24,1 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

29 573

GDA, WB, 120 bar, DN 12, **15 m**,
(26,1 kg)

29 572



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

29 562

Hose reels for anti-freeze

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

29 563

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

29 562



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)

29 592

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

29 593

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)

29 582

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

29 583

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)

29 742

O, WB, 200 bar, DN 10, **15 m**,
(19,2 kg)

29 743

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)

29 752

O, D, 200 bar, DN 10, **15 m**,
(22,8 kg)

29 753

Article no.



29 592



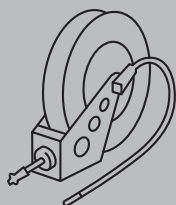
29 582



29 742



29 752



Air/Water Supply

Article no.

HOSE REELS FOR WATER/HOT WATER

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



29 772

29 772

Hose reels for hot water

GDA, WB, 200 bar, DN 10, **10 m**,
(23,8 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

29 773

GDA, WB, 200 bar, DN 10, **15 m**,
(25,5 kg)



29 762

29 762

Hose reels for hot water

GDI, WB, 200 bar, DN 10, **10 m**,
(24,2 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

29 763

GDI, WB, 200 bar, DN 10, **15 m**,
(26,2 kg)



29 792

29 792

Hose reels for hot water

GDA, D, 200 bar, DN 10, **10 m**,
(24 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

29 793

GDA, D, 200 bar, DN 10, **15 m**,
(26 kg)



29 782

29 782

ENCASED, FOR MOUNTING ON CEILINGS, INSIDE SWIVEL

Hose reels for hot water

GDI, D, 200 bar, DN 10, **10 m**,
(23,6 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

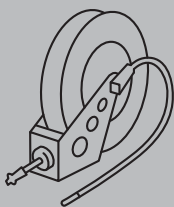
operating pressure: 200 bar water

temperature: up to 130 °C

29 783

GDI, D, 200 bar, DN 10, **15 m**,
(25,6 kg)

ACCESSORIES TO SUIT HOSE REELS			Article no.	
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	Wall-mounting 90° swivel bracket		29 930	 29 930
Technical data material: steel lacquering: Pantone 294c, blue satin	Angle bracket for installation		29 940	 29 940
Technical data material: Polyamide colour: RAL 6018, green (water use) RAL 7001, grey (air use)	Hose stop 3/8"		29 977	 29 977
HOSE REELS - SPECIAL VERSIONS				
ENCASED, FOR WALL-MOUNTING AND MOUNTING ON CEILINGS				
Technical data 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	Hose reel, compressed air outside swivel, for mounting on wall and ceilings, DN 8, 16 m		29 036	 29 036
Specification <ul style="list-style-type: none"> hose stop 				
Remarks The use of a quick connecting coupler (20 022) is recommended.				



Air/Water Supply

Article no.

HOSE REELS - SPECIAL VERSIONS

ENCASED, FOR WALL-MOUNTING AND MOUNTING ON CEILINGS

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



29 051

AIR BLOW GUNS

20 233

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



20 233

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

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

COMPRESSED AIR SPRAY NOZZLE

20 240

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



20 240

WATER GUN			Article no.
Technical data operating pressure: max. 40 bar operating temperature: 0 °C to 90 °C connection: G 3/8" female medium: water Specification <ul style="list-style-type: none"> spray jet manually controlled by using of a regulating wheel rubber handgrip suitable for hose reels 	Water gun with regulating wheel G 3/8" female	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 * at a 10 bar airline pressure, 6 bar operating pressure and $\Delta p=1$ bar Specification <ul style="list-style-type: none"> pressure regulator with gauge, moisture separating filter and lubricator 	Air maintenance unit	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 * at a 10 bar airline pressure, 6 bar operating pressure and $\Delta p=1$ bar Specification <ul style="list-style-type: none"> pressure regulator with gauge, moisture separating filter and lubricator male quick release coupler G 1/4" male/male adapter 	Air maintenance unit, complete set	20 218 950	



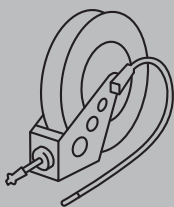
20 250



20 218



20 218 950



Air/Water Supply



20 913



20 022



20 032



20 043



20 052




Article no.

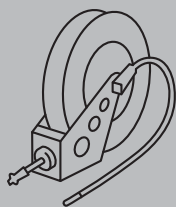
COMPRESSED AIR DISCHARGE HOSES

	Compressed air discharge hoses, acc. to DIN 20 021 (EN 854)	Technical data
20 913	operating pressure: 20 bar 5 m, G 3/8" female,	connection 1: G 3/8" female, 60 ° sealing cone
20 914	G 3/8" male	connection 2: G 3/8" male, 60 ° sealing cone
	8 m, G 3/8" female, G 3/8" male	hose inside diameter: 10 mm
	Compressed air discharge hoses, acc. to DIN 20 022 (EN 853)	
20 915	operating pressure: 180 bar 10 m, G 3/8" female, G 3/8" male	
20 917	15 m, G 3/8" female, G 3/8" male	

QUICK CONNECTING COUPLERS

	Quick connecting couplers, Rectus	Technical data
20 022	Typ 26, G 1/4" female, wrench width 22	connection : quick release connector, Rectus, type 26
20 024	Typ 26, G 3/8" female, wrench width 22	function: one-sided locking
20 026	Typ 26, G 1/2" female, wrench width 24	sealing: Perbunan
20 032	Typ 26, G 1/4" male, wrench width 22	NW: 7,2 mm
20 034	Typ 26, G 3/8" male, wrench width 22	temperature range: - 20 °C to +100 °C
20 036	Typ 26, G 1/2" male, wrench width 24	pressure range: 0 - 35 bar, as well as with low vacuum
	Quick connecting couplers, Rectus Typ 26,	Technical data
20 043	connection 6 mm, male, for hoses of DN 6, wrench width 24 mm	connection: quick release connector, Rectus, type 26
20 045	connection 9 mm, male, for hoses of DN 9, wrench width 21 mm	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	Technical data
20 052	G 1/4" female wrench width: 17 mm	connection: to suit Rectus coupler, type 26
20 054	G 3/8" female wrench width: 19 mm	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 20 064 20 066	 20 062
COILED AIR HOSE		Coiled air hose, 5 m	20 185	 20 185
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 <ul style="list-style-type: none"> to connect the compressed airline to a compressed air tool 		
AIRLINE CONNECTORS		Airline connectors, to suit Rectus coupler, type 26 6 mm male, for hoses of DN 6 9 mm male, for hoses of DN 9 13 mm male, for hoses of DN 13	20 073 20 075 20 077	 20 075



Air/Water Supply



20 112



20 133

Article no.

ADAPTERS

Adapter,
60° sealing cone

Technical data

pressure: - 0.95 to 15 bar
temperature range: - 10 °C to +70 °C
material: brass

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)

Specification

- with an inside cone,
acc. to DIN EN 560

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

20 132

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

HOSE CLIPS			Article no.
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	
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	
SLEEVES			
Technical data material: brass	Sleeve G 1/2" female, G 1/2" female G 3/4" female, G 3/4" female	 20 120 20 121	
PVC REINFORCED AIR HOSES			
Technical data pressure: 17 bar	PVC reinforced air hose		
Specification • transparent	I.D. 6 mm 12 mm male, 20 m	20 192	
	I.D. 9 mm 15 mm male, 20 m	20 194	
	I.D. 9 mm 15 mm male, piece goods	20 193	



20 154



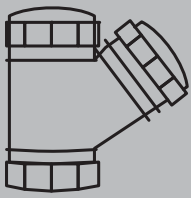
20 164



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

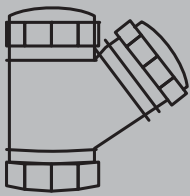
Tape, PTFE

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

19 760

Inline filters

G 1/2" female, G 1/2" female,
inside diameter: 12 mm

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

Technical data

sieve mesh size: 0,5 mm
operating pressure: 16 bar
material: brass
medium: oil

LEVER BALL VALVES

Lever ball valves

18 095

G 1/4" female, G 1/4" female,
NW: 6 mm

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

Technical data

operating pressure: 400 bar
material: steel
medium: grease

Technical data

connections: G 1/2" female
NW: 13 mm
operating pressure: 500 bar
material: steel
medium: grease

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

Lever ball valves

19 764

G 1/4" female, G 1/4" female
operating pressure: 50 bar

19 765

G 3/8" female, G 3/8" female
operating pressure: 60 bar

Technical data

design length: 54 mm
inside diameter: 10 mm
material: nickelized brass
medium: oils, air

19 762

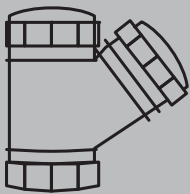
Lever ball valve

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

Technical data connections: G 3/4" female body length: 57 mm inside diameter: 20 mm operating pressure: 30 bar material: nickelized brass medium: oils, air	Lever ball valve G 3/4" female, G 3/4" female	Article no. 19 763	 19 763
Technical data connections: G 1" female body length: 85 mm inside diameter: 25 mm operating pressure: 50 bar material: nickelized brass medium: oils, air	Lever ball valve G 1" female, G 1" female	19 767	 19 767
Technical data connections: G 1 1/4" female design length: 100 mm inside diameter: 32 mm operating pressure: 45 bar material: nickelized brass medium: oils, air	Lever ball valves G 1 1/4" female, G 1 1/4" female	19 771	 19 771
Technical data operating pressure: 40 bar ball/casing material: nickelized brass sealing: 2 Viton O rings temperature range: - 20 °C to +170 °C medium: oils, air	Lever ball valves G 1 1/2" female, G 1 1/2" female inside diameter: 40 mm design length: 120 mm	19 772	
Specification • with a long thread	G 2" female, G 2" female inside diameter: 50 mm design length: 140 mm	19 773	 19 773
BACK FLOW VALVES			
Technical data working pressure: 16 bar material: brass medium: oils, water	Back flow valves G 3/4" female, G 3/4" female design length: 53 mm	19 891	
Specification • with long threads	G 1" female, G 1" female design length: 58,5 mm	19 892	 19 892
Technical data working pressure: 18 bar material: brass medium: oils, water	Back flow valves G 1 1/4" female, G 1 1/4" female design length: 80 mm G 1 1/2" female, G 1 1/2" female design length: 85,5 mm G 2" female, G 2" female design length: 94 mm	19 893 19 894 19 895	 19 895



Lever Ball Valves/Inline Filters/Adapters



19 897

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



18 016

18 016

18 017

Sleeves

M 10 x 1 female, M 10 x 1 female
G 1/8" female, G 1/8" female

Technical data

length: 24 mm
wrench width: 15 mm
material: galvanized steel



12 016

12 016

12 086

Retention adapters

G 1/8" female, M 10 x 1 male
R 1/8" male, M 10 x 1 female

Technical data

inside diameter: 5 mm
length: 23 mm
wrench width: 13 mm
material: galvanized steel



18 093

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



19 418

19 418

Retention adapter





G 3/4" female, G 2" male
acc. to DIN EN 10242-N4

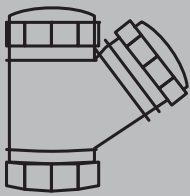
Technical data

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

Technical data connection 1: G 1/2" male connection 2: G 3/4" female inside diameter: 15 mm length: 30 mm material: brass	Retention adapter G 1/2" male, G 3/4" female	Article no. 19 626	 19 626
Technical data material: galvanized cast steel inside diameter: 17,5 mm	Retention sleeves DIN EN 10242-M 4 G 1" female, G 3/4" male design length: 56,3 mm G 1 1/4" female, G 3/4" male design length: 60,4 mm	19 627 19 629	 19 627
Technical data material: galvanized cast steel	Retention sleeves DIN EN 10242-M2 G 1" female, G 3/4" female design length: 56,3 mm G 1 1/4" female, G 3/4" female design length: 60,4 mm	19 628 19 630	 19 628
Technical data material: brass	Retention adapters G 1/4" female, G 3/8" male design length: 14 mm, wrench width 19 mm G 3/8" female, G 1/2" male design length: 18 mm, wrench width 24 mm G 1/2" female, G 3/4" male design length: 24,3 mm, wrench width 32 mm	20 122 20 124 20 126	 20 122
Technical data connection 1: G 1" male connection 2: G 3/4" female length: 21 mm wrench width: 36 mm material: brass	Adapter, short version G 1" male, G 3/4" female	03 419	 03 419
Technical data 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	Adapter G 1/2" male, R 3/4" male	18 085	 18 085



Lever Ball Valves/Inline Filters/Adapters



18 086



18 087



18 088



19 619



19 636



19 637



19 638

Article no.

RETENTION ADAPTERS/ADAPTERS

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

Specification

- for connecting of a mechanical meter with a control valve, G 1" male

Technical data
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

Technical data	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	Adapter	G 1/4" male, G 1/8" male	Article no. 20 111	
Technical data	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	Adapter	R 3/8" male, G 1/2" male	20 251	
RETENTION ADAPTERS					
Technical data	connections: G 2" male and M 64 x 4 male wrench width: 50 mm	Retention adapter	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	13 080 19 526 19 527 19 528	19 526
Specification	<ul style="list-style-type: none"> • two-step threads • locking screw • to suit metal containers with G 2" female connecting thread 				
Technical data	connection: M 60 x 5 female	Retention adapter	to suit Ø 35,5 mm pipes	19 529	
Specification	<ul style="list-style-type: none"> • locking screws • to suit plastic containers with male connecting thread 				19 529
Technical data	connection: M 62.5 x 4 female	Retention adapter	to suit Ø 35,5 mm pipes	19 519	
Specification	<ul style="list-style-type: none"> • locking screw • to suit plastic containers with male connecting thread 				19 519



Workshop Equipment



*We thought even
about the „small parts“*

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

Article no.

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"

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

Working bench with integral covered container storage unit to suit 200 l container

Article no.

19 040



19 040

Workshop Equipment

Article no.

WORKING BENCHES

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



19 034

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



19 044








Indicating Labels

ÖLLAGER
WGK
Unbefugten
verboten

*„An indication
saves
a lot of explanations ...”*






Indicating Labels

	Article no.	INDICATING LABELS AND ACCESSORIES	
	90 710	Plate, level switch error LW 100 x 50	Technical data material: 2-layer plastic, self-adhesive colour: white inscription: red Specification <ul style="list-style-type: none"> for fixed chute for waste disposal
	90 711	Plate, oil storage room, WGK II LW 210 x 150	Technical data material: 2-layer plastic, self-adhesive colour: white inscription: blue
	90 712	Plate, full waste oil tank LW 210 x 150	Technical data material: 2-layer plastic, self-adhesive colour: red inscription: white
	90 713	Plate, waste oil collecting tank LW 210 x 150	Technical data material: 2-layer plastic, self-adhesive colour: red inscription: white
	90 714	Plate, tank filling LW 210 x 150	Technical data material: 2-layer plastic, self-adhesive colour: white inscription: red

Specification <ul style="list-style-type: none"> universal holder with plastic covering, without planish wall, galvanized for pipe-work 	Universal holder LW 105 x 56 mm	Article no. 90 730	
Specification <ul style="list-style-type: none"> to suit universal holder for pipe-work fastening 	Tight tape 5 m reel	90 731	
Specification <ul style="list-style-type: none"> to suit universal holder (90 730) 	Plastic covering LW 105 x 56 mm	90 732	
Technical data colour: white material: plastic	Blank plate LW 100 x 50 mm	90 745	
Specification <ul style="list-style-type: none"> blank plate without inscription ledge 			
Specification <ul style="list-style-type: none"> to suit a blank plate (90 745) 	Blank ledge	90 746	
Technical data colour: white inscription: black character height: 7 mm	Lettering ledge partially synthetic oil full-synthetic oil motor oil gear oil hydraulics oil A III waste oil, of known origin	90 760 90 761 90 762 90 763 90 764 90 765	<div>Teilsynthetiköl</div> <div>Vollsynthetiköl</div> <div>Motorenöl</div> <div>Getriebeöl</div> <div>Hydrauliköl</div> <div>Altöl AIII bek. Herkunft</div>
Specification <ul style="list-style-type: none"> to suit a blank plate (90 745) 			

[illegible]

SPECIAL LEAFLETS		Article no.	
Brochure No. 90 980 932 A402	Hose Reels	90 980 932	
Brochure No. 90 998 932 A401	Pneumatic Pumps	90 998 932	
Brochure No. 90995 932 A402	PREMAxx / ROTAxx	90 995 932	

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	Ø 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) 222 x 222 x 222	222	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	Ø 20 x 745 mm	0,062	29 173 601	104	1	(LxWxH) 570 x 530 x 300 mm	28,700
27 906	133	1	Ø 20 x 745 mm	0,064	29 173 602	104	1	(LxWxH) 570 x 530 x 260 mm	28,600
27 908	133	1	Ø 20 x 745 mm	0,068	29 173 603	104	1	(LxWxH) 570 x 530 x 260 mm	28,700
27 915	133	1	Ø 20 x 745 mm	0,098	29 173 604	104	1	(LxWxH) 570 x 530 x 300 mm	28,700
27 916	133	1	Ø 20 x 745 mm	0,112	29 182	102	1	(LxWxH) 540 x 580 x 195 mm	25,800
27 918	133	1	Ø 20 x 745 mm	0,123	29 183	102	1	(LxWxH) 540 x 580 x 195 mm	27,600
27 926	133	1	Ø 20 x 1045 mm	0,075	29 192	102	1	(LxWxH) 540 x 580 x 160 mm	25,300
27 928	133	1	Ø 20 x 1045 mm	0,079	29 193	102	1	(LxWxH) 540 x 580 x 160 mm	27,400
27 948	133	1	Ø 20 x 1545 mm	0,108	29 242	30	1	(LxWxH) 540 x 580 x 160 mm	17,900
27 958	133	1	Ø 20 x 1545 mm	0,207	29 243	30	1	(LxWxH) 540 x 580 x 160 mm	19,900
27 963	133	1	Ø 18 x 57 mm	0,033	29 252	30	1	(LxWxH) 540 x 580 x 160 mm	21,500
27 964	133	1	Ø 18 x 54 mm	0,053	29 253	30	1	(LxWxH) 540 x 580 x 160 mm	23,500
27 965	133	1	Ø 20 x 40 mm	0,034	29 262	31	1	(LxWxH) 540 x 580 x 190 mm	25,300
27 966	126	1	Ø 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	Ø 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	Ø 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	Ø 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	Ø 55 x 55 mm	0,060	90 764	183	1	(LxWxH) 100 x 9 x 1 mm	0,001
29 977	161	1	Ø 55 x 55 mm	0,055	90 765	183	1	(LxWxH) 100 x 9 x 1 mm	0,001
29 978	105	1	Ø 55 x 55 mm	0,050	90 980 932	185	1	-	-

Article Numbers/Dimensions/Weights

[illegible]

Agencies Overseas

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