



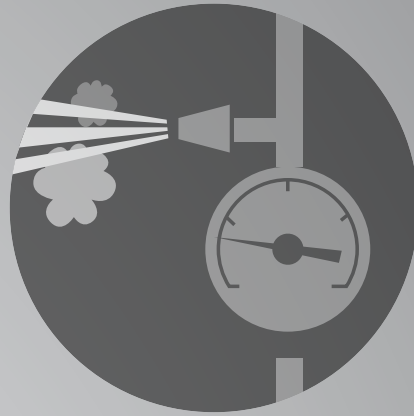
GREASE SUPPLY



FRESH OIL SUPPLY



WASTE OIL DISPOSAL



AIR / WATER SUPPLY



ASSEMBLY



DIESEL AND FUEL OIL

**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.*

Please find constantly updated product details on
www.pressol.com



Formerly ...



Experience

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.

- 1914** *Jakob Pressl sets the foundation-stone. As a ship's officer he develops a pump oiler registering it as a patent of the Austro-Hungarian Empire. Patent No. 61 713, dated September 1st, 1913.*
- 1920** *the first manufactory is founded as a single piece production.*
- 1949** *additional oiler types, funnels, measuring cans, supply cans and metal oil barrel pumps provide the base for a rapid growth.*
- 1975** *hand lever grease guns with world-wide patents and accessories are manufactured on a large scale. Meanwhile 1.3 million grease guns leave our line-production.*
- 1986** *starts the entrance into the workshop technology with the development of pneumatic oil and grease pumps. A continuing development process of waste oil disposal systems, hose reels, tanks and diesel supply systems completes the assortment.*



Today ...

... we are complete supplier for lubrication technology of all types. We manufacture in series-production. More than 85 % of our product range is manufactured in our own production plants. A wide product range reaches world-wide more than 15,000 customers in more than 100 countries. Our product program covers more than 2500 end products. Per year PRESSOL produces 83 million individual parts.

Quality

It is the base 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.

Innovation

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.

Delivery

We ship any standard order in between 48 hours after receipt of order.



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∅	diameter
1~AC	1-phase alternate current
3~AC	3-phase alternate current
a	male
AAS	Anti-drop nozzle, automatic shut-off
ABK	battery clips
AC	alternate current
AMS	Anti-drop nozzle, manual shut-off
AR	discharge spout
AS	discharge hose
B	size of the product
BD	operating pressure
BE	container/drum
°C	degree Celsius
D	mounting on ceilings
dB (A)	Dezibel, A-weighted noise level (referring to silent condition)
DC	Direct-current
DG	Rotary swivel
DH	double strokes
DIN	German Institute for Industrial Standards
DK	sealing cone
DL	air pressure
DMS	Diesel Management System
DN	inside diameter, in millimetres
DW	double acting
EAN-Code	European Item Numering System (barcode)
EBZD	digital in-line meter
EBZM	mechanical in-line meter
ED	operating time
EF	calibrate for public sales
EFA	calibratable acc. to Austrian govt. regulation
EFL	calibratable, air eliminator
EFS	calibratable, air eliminating foot-valve
EN	European Standard
EUS	Euro plug
EZP	electric gear pump
F	filter
FAV	with drum
FB	mobile
FS	discharge hose
FUV	foot valve
FV	filling valve
FZP	vane pump
G	Whitworth Pipe Thread, cylindrical ISO 228 (DIN 259)
GBDR	angled spout
GDA	encased, outside swivel
GDI	encased, inside swivel
GE	encased
GLN	Global Location Number
GMZ	visual inspection cylinder
GPM	For wall mounting
GRDR	straight spout
GS	tested security
GTIN	Global Trade Item Number
H	coupler for hydraulic grease nipples acc. DIN 71 412
HS	high pressure hose
HZ	flow meters
HZD	digital flow meter
HZM	mechanical flow meter
HZMV	Pre-set mechanical flow meter
i	female
ILN	international location number
IP	Internal Protection

IPG	pulse meter
kg	kilogram
KU	connector
KW	kilowatt-hour
LBH	length x width x height in millimetres
LW	width
M	metric thread, cylindrical DIN 13
m	meter
mm	millimeter
mPas	millipascal per second
my	10-6 meter
MO	mobile
MU	coupler
ND	nominal pressure
NEF	not calibrate for public sales
NLGI	viscosity class 000 to 6, as defined by National Lubricating Grease Institute, USA
NW	nominal width = inside diameter
O	Open, not encased
ÖLSYS	oil system
ÖMS	Oil management system
PN	nominal pressure or operating pressure
PNFP	pneumatic grease pump
PNÖP	pneumatic oil pump
PNP	pneumatic pump
PTB	Physical Technical Institute of Germany
PZ	high pressure hose
Q	heat transfer oil
R	Whitworth thread, tapered, similar to DIN 3858
RF	Radio-Frequency-System
RÖLSYS	rape oil system
1 SN	high pressure hose, DIN 20 022 (EN 853) Part 3 comp. To SAE 100 R1T with one braid enforcement
2 SN	high pressure hose, DIN 20 022 (EN 853) Part 4 comp. To SAE 100 R2T with two braids enforcement
SAR	hose reel
SCHN	quick connecting coupler
SD	diesel discharge hose
SKU	quick connecting
SR	stationary
SRL	suction pipe length, sizes always in mm
SW	wrench width
TA	storage tanks
TRBF	Technical Guideline for inflammable fluids
TW	tank truck
Ust-IdNr.	VAT number
V	volt
VA	volt-ampere
VÖR	connection oilpump/pipe work
VR SAR	connection pipe work/hose reel or flexible oil discharge hose
WA	trolley
WB	wall and floor mounting
WD	wall and ceiling mounting
WG	air maintenance unit
WHG	Water/Environmental Protecting Law (German)
WM	wall mounting
ZBH	accessories
ZVA	automatic nozzle for diesel
ZVAB	Automatic nozzle for diesel with German approval
ZVABD	Automatic nozzle for diesel with German approval with rotary swivel

ZVABP	Automatic nozzle valve for diesel with rotary swivel
ZVAD	Automatic nozzle for diesel with German approval with rotary swivel
ZVMAB	Manual nozzle for AD Blue
ZVPP	Manual nozzle for AD Blue in polypropylene

Material

Alu	Aluminium
CSM	Hypalon®
E-CTFE	Ethylen – Chlortrifluortyhlen (Halar®)
EPDM	Ethylen – Propylen
FEP	Tetrafluorethyle – Perfluorpropylen (Teflon® FEP)
FCKW	Fluorcarbon
FKM	Viton®
FPM	Fluor-Polymer (Viton®)
MDPE	Polyethylene MDPE
GG	Gray cast iron casting
HDPE	High Density Polyethylene
Hyrtel®	Hyrtel® is a registered trademark of the company Du Pont
LDPE	Low Density Polyethylene
LLDPE	Linear Low Density Polyethylene
Me	Brass
PE	Polyethylene
MoS2	Molybdenum Disulfide
NBR	Perbunan®
NEOP	Neoprene
PA	Polyamide
PC	Polycarbonate
PE	Polyethylene
PFA	Perfluoralkoxy Copolymer (Teflon® PFA)
PMP	Polymethylpentene (TPX®)
POM	Acetal Homopolymer
PP	Polypropylene
PPGF	Polypropylene, fibreglass reinforced
PS	Polystyrol
PSF	Polysulfone
PTFE	Polytetrafluorethylene (Teflon®)
PVC	Polyvinylchloride
PVDF	Polyvinylidene fluoride
RST	Special treatment for a high quality of steel
SAN	Styrol Acrylnitril
SI	Silicone rubber
St	Steel
VA	Stainless steel
VZ	Galvanized
VSTB	Galvanized sheet steel
ZDG	Zinc die-casting



Synopsis Pneumatic Pumps



*We guarantee 5 years of
best performance*

5 years
Guarantee

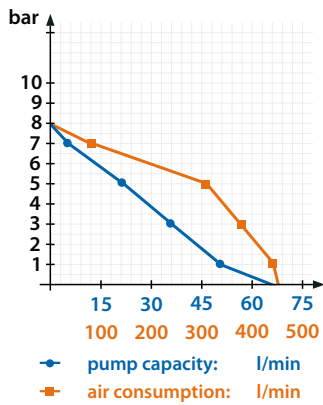
1:1

3:1



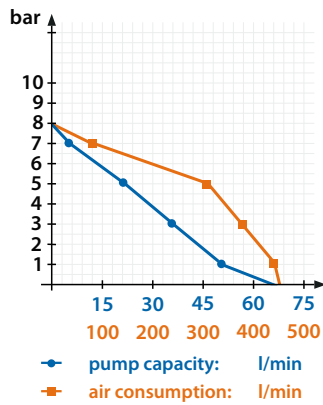
19 135

*Pneumatic pump 1:1
SRL 860-200/220 l container*



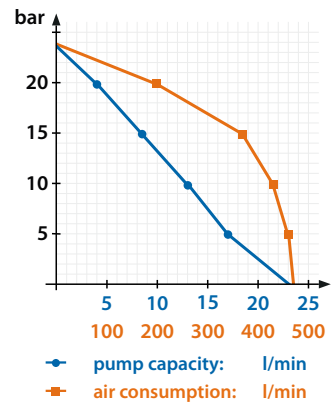
19 135 843

*Pneumatic pump 1:1-brass
SRL 860-200/220 l container*



19 235

*Pneumatic pump 3:1
SRL 860-200/220 l container*



5:1

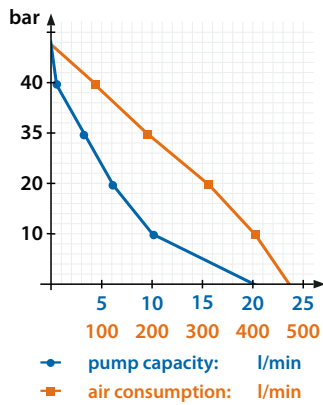
15:1

50:1



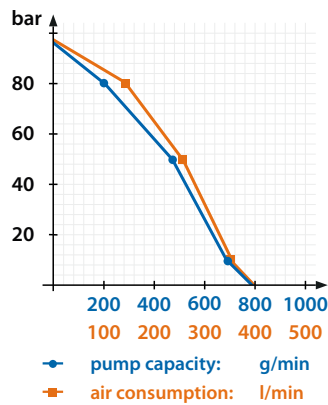
19 335

*Pneumatic pump 5:1-DW
SRL 860-200/220 l container*



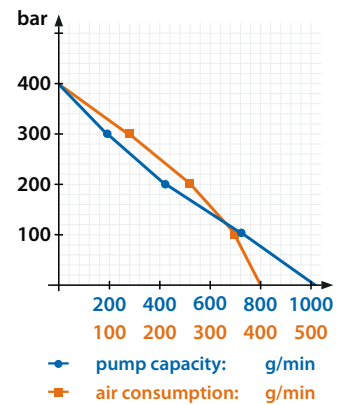
18 616 051

*Pneumatic grease pump 15:1
SRL 1000-200 kg-BE*



18 716 051

*Pneumatic grease pump 50:1
SRL 1000, 200 kg container*





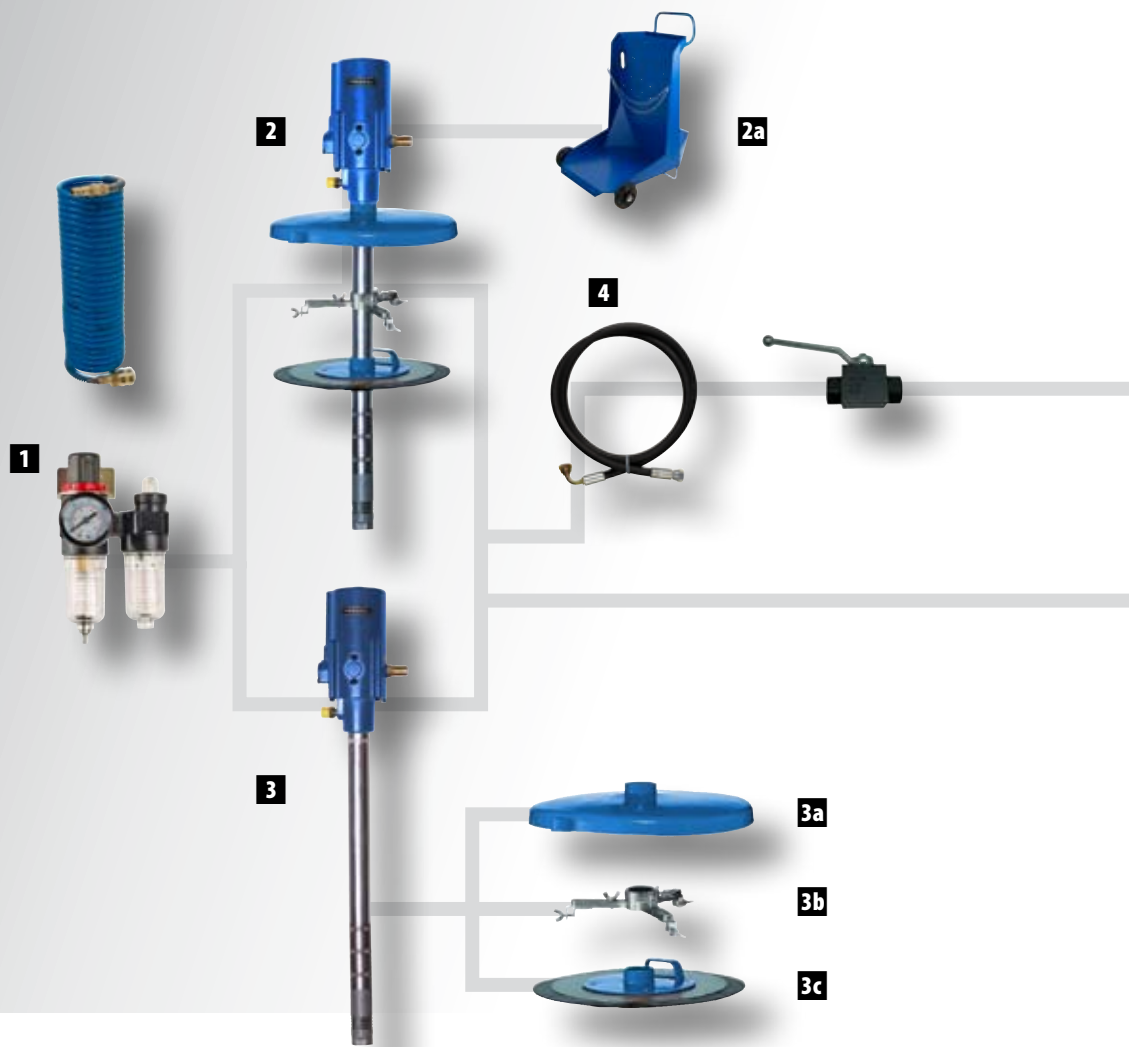
	Pneumatic pump 1:1	Pneumatic pump/brass 1:1
Art. No.	19 135	19 135 843
<i>External dimensions</i>		
<i>Length: motor/complete</i>	375 mm / 1215 mm	375 mm / 1215 mm
<i>Weight: motor/complete</i>	130 mm	130 mm
<i>Gewicht: Motor/komplett</i>	4,3 kg / 6,8 kg	4,3 kg / 9,2 kg
Technical Data		
<i>Pressure ratio</i>	1 : 1	1 : 1
<i>Suction pipe</i>	860 mm	860 mm
<i>Maximum pressure</i>	10 bar	10 bar
<i>Minimal pressure</i>	2 bar	2 bar
<i>Recommended air pressure</i>	8 bar	8 bar
<i>Cylinder capacity motor</i>	220 cm ³	220 cm ³
<i>Cylinder capacity pump</i>	220 cm ³	220 cm ³
<i>Quantity of strokes at 8 bar at a free-flow</i>	240 / min	240 / min
<i>Quantity of strokes at 8 bar at a free-flow</i>	66 l / min	66 l / min
<i>Pump pressure at 8 bar air pressure</i>	8 bar	8 bar
<i>Air consumption at 8 bar air pressure</i>	450 l / min	450 l / min
<i>Length of discharge pipe work</i>	Depends on size of installation.	Depends on size of installation.
<i>Max. suction heighth</i>	6-m-WS, G-1"drum adapter	6-m-WS, G-1"drum adapter
<i>Compressed air connection</i>	G 1/4" i	G 1/4" i
<i>Oil / grease connection suction side</i>	G 1" i	G 1" i
<i>Oil / grease connection pressure side</i>	G 3/4" a	G 3/4" a
<i>Connection container</i>	G 2" a, drum adapter	G 2" a, drum adapter
<i>Noise level on no load running acc. to ISO 9614-2 at a dist. of 2 m</i>	78 db (A)	78 db (A)
<i>Noise level under load acc. to ISO 9614-2 at a distance of 2 m</i>	77 db (A)	77 db (A)
<i>General application</i>	Pump designed for feeding liquid, non-viscous, self-lubricated media like Diesel, fuel oil, engine oil from delivery barrels or tanks.	Suitable for not diluted media as coolant, anti-freeze Cooling liquid, anti-freeze
<i>Current use</i>	As barrel pump (200 liter drum) with 900 mm suction pipe, 4 m supply hose and nozzle	As barrel pump (200 liter drum) with 900 mm suction pipe, 4 m supply hose and nozzle
<i>Viscosity of discharged liquid</i>	Öl bis ISO VG 15 SAE 5	Oils up to ISO VG 15 SAE 5
<i>Discharged liquid</i>	diesel and oil	Cooling liquid, anti-freeze
<i>Performance graph</i>	Pressure: 8 bar Test medium: Diesel Test medium temperature: 15 °C Suction pipework: 1 m / G 1" Delivery pipework: 0,2 m / G 3/4"	Pressure: 8 bar Test medium: Diesel Test medium temperature: 15 °C Suction pipework: 1 m / G 1" Delivery pipework: 0,2 m / G 3/4"
<i>Time duration for 1 complete container draining</i>	200 l diesel in 3 minutes	200 l diesel in 3 minutes
<i>Special notes</i>	–	PPump body in brass
<i>Sealing material</i>	See technical manuals 03 594 A407: Pos. 9: PU Rest: NBR Pos. 24.3:PU	See technical manuals 03 594 A407: Pos. 9: PU Pos. 29: PU Pos. 24.3: PU Pos. 30: FKH



Pneumatic pump 3:1		Pneumatic pump 5:1		Pneumatic pump 15:1		Pneumatic pump 50:1	
19 235		19 335		18 616 051		18 716 051	
360 mm / 1200 mm		360 mm / 1220 mm		225 mm / 1225 mm		225 mm / 1225 mm	
130 mm		130 mm		130 mm		130 mm	
3,8 kg / 5,2 kg		4 kg / 8,5 kg		3,4 kg / 11,3 kg		3,4 kg / 11,3 kg	
3 : 1		5 : 1		15 : 1		50 : 1	
860 mm		860 mm		1000 mm		1000 mm	
10 bar		10 bar		10 bar		10 bar	
2 bar		2 bar		2 bar		2 bar	
8 bar		8 bar		8 bar		8 bar	
220 cm ³		220 cm ³		220 cm ³		220 cm ³	
70 cm ³		70 cm ³		13 cm ³		8 cm ³	
260 / min		270 / min		220 / min		220 / min	
22 l / min		20 l / min		1700 g / min		1100 g / min	
24 bar		40 bar		120 bar		400 bar	
470 l / min		470 l / min		400 l / min		400 l / min	
Depends on size of installation.		Depends on size of installation.		Depends on size of installation.		Depends on size of installation.	
6-m-WS, G-3/4"-drum adapter		6-m-WS, G-3/4"-drum adapter		The pump ist constructed to be operated directly at the point of suction		The pump ist constructed to be operated directly at the point of suction	
G 1/4" i		G 1/4" i		G 1/4" i		G 1/4" i	
G 3/4" i		G 3/4" i		Ø 35		Ø 35	
G 1/2" a		G 1/2" a		G 1/4" a		G 1/4" a	
G 2" a, drum adapter		G 2" a, drum adapter		-		-	
78 db (A)		78 db (A)		78 db (A)		78 db (A)	
77 db (A)		77 db (A)		77 db (A)		77 db (A)	
Pump for feeding motor, gear and hydraulic oil, from original barrels or tanks		Double-acting pump for feeding motor, gear and hydraulic oil, from original barrels or tanks		Pump for feeding lubrication and multipurpose greases		Pump for feeding lubrication and multipurpose greases	
As pump for wall-mounting with suction set, suction pipe for 200 liter barrel, hose reel and digital oil meter		As pump for wall-mounting with suction set, suction pipe for 1000 liter tank, hose reel and digital oil meter		As pump for 200-kg-barrel, with 4 m discharge hose, Z swivel and grease gun, to be fitted on trolley		As pump for 200-kg-barrel, with 4 m discharge hose, Z swivel and grease gun, to be fitted on trolley	
Oils up to SAE 90		Oils up to SAE 140		From NLGI 0 up to NLGI 3		From NLGI 0 up to NLGI 2	
Motor, gear and hydraulic oil		Motor, gear and hydraulic oil		Lubrication and multipurpose greases		Lubrication and multipurpose greases	
Pressure:	8 bar	Pressure:	8 bar	Pressure:	8 bar	Pressure:	8 bar
Test medium:	SAE 15 W 40l	Test medium:	SAE 15 W 40l	Test medium:	AVILUB EP 3	Test medium:	Rinolit LZR2l
Test medium temperature:	15 °C	Test medium temperature:	15 °C	Test medium temperature:	15 °C	Test medium temperature:	15 °C
Suction pipework:	1 m / G 3/4"	Suction pipework:	1 m / G 3/4"	Delivery pipework:	0,2 m / G 1/4"	Delivery pipework:	0,2 m / G 1/4"
Delivery pipework:	0,2 m / G 1/2"	Delivery pipework:	0,2 m / G 1/2"				
200 l oil in 9 minutes		200 l oil in 14 minutes		50 kg grease in 35 minutes		50 kg grease in 50 minutes	
-		-		-		-	
See technical manuals 03 593 A407: Pos. 9 :PU Rest: 29 PU Pos. 24.3: PU Rest: NBR		See technical manuals 87 744 A403: Pos.: PU Rest: PU Pos.:PU Rest: NBR		See technical manuals 03 591 A410: Pos.: PU Rest: PU Pos.: PU Rest: NBR			

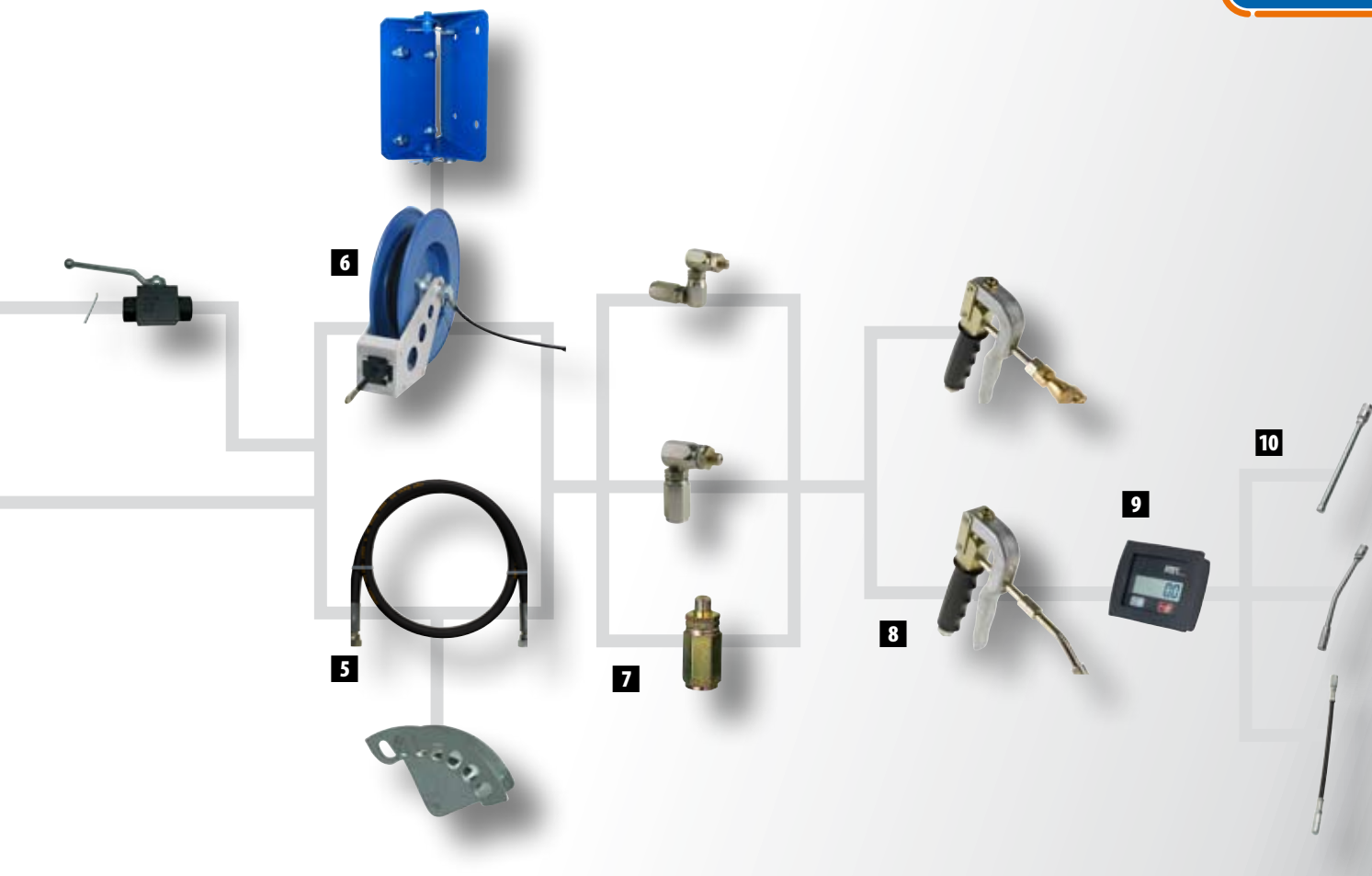
*Standard requirements
or individual solution -
we lubricate in any case ...*





CONSTRUCTION KIT FOR GREASE SUPPLY

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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
Pneumatic Grease Pumps 15:1	20-30 kg	-	600 mm	-	-	-	18 611 051
	50 kg	-	700 mm	-	-	-	18 613 051
	200 kg	-	1000 mm	-	-	-	18 616 051
Grease Supply Systems 50:1	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
	15kg	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
	200 kg	540 - 590 mm	1000 mm	17 401	17 201	17 200	18 780 051
Grease Supply Systems 15:1	20-30 kg	270 - 310 mm	600 mm	17 300	17 197	17 176	18 640 051
	50 kg	335 - 385 mm	700 mm	17 350	17 199	17198	18 660 051
	200 kg	540 - 590 mm	1000 mm	17 401	17 201	17 200	18 680 051
Grease Supply Systems, mobile 50:1	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 50:1	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
Grease Supply Systs., Mobile, to Re-charge Centralized Lubrication Systs.	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

Pneumatic grease pumps 15:1 and 50:1 and accessories



18 710 051
Pneumatic grease pump 50:1, SRL 468,
10-20 kg container

18 710 950
Pneumatic grease pump 50:1, SRL 400,
5-15 kg container

18 711 051
Pneumatic grease pump 50:1, SRL 600,
20-30 kg container

18 713 051
Pneumatic grease pump 50:1, SRL 700,
25-60 kg container

18 716 051
Pneumatic grease pump 50:1, SRL 1000,
200 kg container



18 700 051 Grease supply system 50:1,
SRL 400, with (17 195) + (17 197) +
(17 171), 5 kg container, Ø 180-210 mm

18 720 051 Grease supply system 50:1,
SRL 468, with (17 230) + (17 197) + (17
171), 10 kg container, Ø 210-240 mm

18 730 051 Grease supply system 50:1,
SRL 468, with (17 265) + (17 197) +
(17 172), 15 kg container, Ø 240-270 mm

18 750 051 Grease supply system 50:1,
SRL 600, with (17 320) + (17 199) +
(17 194), 25 kg container, Ø 310-335 mm

18 760 051 Grease supply system 50:1,
SRL 700, with (17 380) + (17 199) +
(17 198), 50 kg container, Ø 335-385 mm

18 780 051 Grease supply system 50:1,
SRL 1000, with (17 401) + (17 201) +
(17 200), 200 kg container, Ø 540-590 mm



18 611 051
Pneumatic grease pump 15:1,
SRL 600, 20-30 kg container

18 613 051
Pneumatic grease pump 15:1
SRL 700, 25-60 kg container

18 616 051
Pneumatic grease pump 15:1,
SRL 1000, 200 kg container



18 640 051 Grease supply system 15:1,
SRL 600, with (17 300) + (17 197) + (17
176), 20-30 kg container

18 660 051 Grease supply system 15:1,
SRL 700, with (17380) + (17199) +
(17198), 50 kg container, D 335-385 mm

18680 051 Grease supply system 15:1,
SRL 600, with (17 401) + (17 201) +
(17 200), 200 kg container



20 218
Air maintenance unit
G 1/4" f - G 1/4" f



20 218 950
Air maintenance unit, complete set
with 20 112 and 20 062



17 171 Dust cover, 5 - 10 kg container,
Ø 252 mm

17 172 Dust cover, 5 - 10 kg container,
Ø 282 mm

17 176 Dust cover, 15 - 20 kg
container, Ø 342 mm

17 194 Dust cover, 25 - 60 kg
container, Ø 385 mm

17 198 Dust cover, 50 - 60 kg
container, Ø 450 mm

17 200 Dust cover, 200 kg container,
Ø 600 mm

Pneumatic grease pumps 15:1 and 50:1 and accessories

**20 062**

Quick release adapter, G 1/4" a, for rectus coupling type 26

20 112

Adapter, G 1/4" a, G 1/4" a

**20 185**

Coiled air hose 5 m

**17 195**

Grease follow up plate, 5 kg container, Ø 180 - 210 mm

17 230

Grease follow up plate, 10 kg container, Ø 210 - 240 mm

17 265

Grease follow up plate, 15 kg container, Ø 240 - 270 mm

17 275

Grease follow up plate, 18 kg container, JOKEY GDE, Ø 240 - 290 mm

17 285

Grease follow up plate, 20 kg container, Ø 270 - 290 mm

17 300

Grease follow up plate, 20 kg container, Ø 270 - 310 mm

**17 184**

Dust cover, with fixing screws, 25 kg container, Ø 385 mm

**17 197**

Stabilising-fixing bracket for 5 - 20 kg, Ø 180 - 310 mm

17 199

Stabilising-fixing bracket for 25 - 60 kg, Ø 310 - 405 mm

17 201

Stabilising-fixing bracket for 200 kg, Ø 500 - 600 mm

**17 320**

Grease follow up plate, 25 kg container (cone-shaped), Ø 310 - 335 mm

17 325

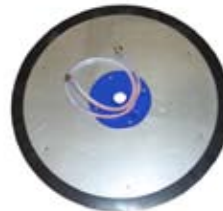
Grease follow up plate, 25 kg container, Ø 300 - 350 mm

17 380

Grease follow up plate, 50 kg container, Ø 335 - 385 mm

17 400

Grease follow up plate, 60 kg container, Ø 385 - 405 mm

**17 401**

Grease follow up plate, 200 kg container, Ø 540 - 590 mm, with hose, can be released by a burst of compressed air

Pneumatic grease pumps 15:1 and 50:1 – hoses and hose reels



18 021

Flexible grease hose, 1 m, G 1/4" i, G 1/4" a

18 022

Flexible grease hose, 2 m, G 1/4" i, G 1/4" a

18 023

Flexible grease hose, 3 m, G 1/4" i, G 1/4" a

18 024

Flexible grease hose, 4 m, G 1/4" i, G 1/4" a

18 025

Flexible grease hose, 5 m, G 1/4" i, G 1/4" a

18 026

Flexible grease hose, 6 m, G 1/4" i, G 1/4" a

18 028

Flexible grease hose, 8 m, G 1/4" i, G 1/4" a

18 030

Flexible grease hose, 10 m, G 1/4" i, G 1/4" a

18 035

Flexible grease hose, 15 m, G 1/4" i, G 1/4" a



18 050

Flexible grease hose, 1,5 m, G 1/4" i, G 1/4" i, for connection of pneumatic grease pump and pipework



18 103

Safety valve, 400 bar, for installation in fixed pipework



18 095

Lever ball valve, G 1/4" i, G 1/4" i



18 099

Lever ball valve with connecting set

Product features hose reels for pneumatic pumps 15:1 and 50:1 or grease

- 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



29 242

Hose reel for grease, open, for wall/floor mounting, 400 bar, DN 6, 10 m

29 243

Hose reel for grease, open, for wall/floor mounting, 400 bar, DN 6, 15 m



29 252

Hose reel for grease, open, for mounting on ceilings, 400 bar, DN 6, 10 m

29 253

Hose reel for grease, open, for mounting on ceilings, 400 bar, DN 6, 15 m

Pneumatic grease pumps 15:1 and 50:1 – hoses and hose reels

**29 262**

Hose reel for grease, encased, GDI, for wall/floor mounting, 400 bar, DN 6, 10 m

29 263

Hose reel for grease, encased, GDI, for wall/floor mounting, 400 bar, DN 6, 15 m

**29 282**

Hose reel for grease, encased, GDI, for mounting on ceilings, 400 bar, DN 6, 10 m

29 283

Hose reel for grease, encased, GDI, for mounting on ceilings, 400 bar, DN 6, 15 m

**29 272**

Hose reel for grease, encased, GDA, for wall/floor mounting, 400 bar, DN 6, 10 m

29 273

Hose reel for grease, encased, GDA, for wall/floor mounting, 400 bar, DN 6, 15 m

**29 292**

Hose reel for grease, encased, GDA, for mounting on ceilings, 400 bar, DN 6, 10 m

29 293

Hose reel for grease, encased, GDA, for mounting on ceilings, 400 bar, DN 6, 15 m

**29 930**

Wall bracket for hose reel, swivelable 90°

**29 980**

Control gun storage bracket for one gun only

**29 976**

Hose stop 1/4"

**29 981**

Control gun storage bracket for two guns

**29 940**

Angle bracket for hose reel installation

**19 669**

Hose storage rack large size

Pneumatic grease pumps 15:1 and 50:1 – Grease guns and accessories, greasemeters, trolleys



18 104
Grease gun, G 1/8" i, angled spout and hydraulic coupler (12 743), manual pressure increase 100 bar



18 102
Grease gun, G 1/8" i, digital greasemeter (18 115), angled spout and hydraulic coupler (12 743), manual pressure increase 100 bar



18 104 301
Grease gun, G 1/8" i, hose (12 755) and hydraulic coupler (12 743), manual pressure increase 100 bar



18 102 950
Grease gun, G 1/8" i, digitaler Fettzähler (18 115), Schlauch (12 755), hydraulic coupler (12 743), manual pressure increase 100 bar



18 105
Grease gun, G 1/8" i, for filling centralized lubrication systems, manual pressure increase 100 bar



18 102 952
Grease gun, G 1/8" i, for filling centralized lubrication systems, digital greasemeter, manual pressure increase 100 bar



18 082
Rotary Z-swivel joint 3 x 360°, G 1/8" a, G 1/4" i



18 115
Digital In-line meter for grease guns and pneumatically operated lubrication systems, G 1/8" i – for install in grease guns 18 104 and 18 105



18 083
Rotary swivel, 2 x 360°, G 1/8" a, G 1/4" i



17 004
Trolley for container, 5, 10, 15 kg

Pneumatic grease pumps 15:1 and 50:1 – Grease guns and accessories, grease meters, trolleys

**18 080**

Rotary swivel 1 x 360°, G 1/8" a, G 1/8" i

18 081

Rotary swivel 1 x 360°, G 1/8" a, G 1/4" i

18 084

Rotary swivel 1 x 360°, G 1/4" a, G 1/4" i

Quick release adapter**12 042**

With spout + coupler for K-nipples (12 435) + (12 002)

12 043

With spout + coupler for D-nipples (12 435) + (12 003)

12 044

With spout + coupler for M1-/T1-nipples (12 435) + (12 004)

12 054

With spout + coupler for M22-nipples (12 435) + (12 011)

12 055

With spout + coupler for M4-nipples (12 435) + (12 052)

12 056

With spout + coupler for H-nipples (12 635) + (12 631)

12 057

With spout + coupler for M22-nipples (12 635) + (12 011)

12 048

With 300 mm hose + coupler for H-nipples (12 655) + (12 631)

12 049

With 500 mm hose + coupler for H-nipples (12 655) + (12 631)

**17 008**

Trolley for container, 5, 10, 15, 25, 50 kg

17 000

Rubber retaining strap for trolley (17 008)

**17 009**

Trolley for container, 200 kg

**17 009 390**

Trolley for container, 200 kg – ECO version

**17 021**

Container mount, cross shaped, max. Ø 600 mm, for 60/200 l containers

Pneumatic grease supply systems – stationary or mobile



Grease supply system, stationary, with high pressure flexible grease hose 2 m

18 405 051

Grease supply system 50:1, stationary, 5 kg container, high pressure flexible grease hose 2 m Ø 180 - 210 mm

18 418 051

Grease supply system 50:1, stationary, 18 kg JOKEY container, high pressure flexible grease hose 2 m, Ø 240 - 290 mm

18 419 051

Grease supply system 50:1, stationary, 20 kg container, high pressure flexible grease hose 2 m Ø 270 - 310 mm

18 421 051

Grease supply system 50:1, stationary, 25 kg container, high pressure flexible grease hose 2 m Ø 310 - 335 mm

18 425 051

Grease supply system 50:1, mobile, 25 kg container, high pressure flexible grease hose 2 m Ø 310 - 335 mm



Grease supply system, mobile, with high pressure flexible grease hose 2 m

18 410 051

Grease supply system 50:1, mobile, 10 kg container, high pressure flexible grease hose 2 m Ø 210 - 240 mm, trolley 17 004

18 415 051

Grease supply system 50:1, mobile, 15 kg container, high pressure flexible grease hose 2 m Ø 240 - 270 mm, trolley 17 004

18 416 051

Grease supply system 50:1, mobile, 18 kg JOKEY container, high pressure flexible grease hose 2 m, Ø 240 - 290 mm, trolley 17 004

18 417 051

Grease supply system 50:1, mobile, 20 kg container, high pressure flexible grease hose 2 m Ø 270 - 310 mm, trolley 17 004

18 417 951

Grease supply system 50:1, mobile, 20 kg container, high pressure flexible grease hose 2 m Ø 270 - 310 mm, trolley 17 008



Grease supply system, stationary, with high pressure flexible grease hose 4 m

18 764 051

Grease supply system 50:1, stationary, 50 kg container, high pressure flexible grease hose 4 m Ø 335 - 385 mm

18 785 051

Grease supply system 50:1, stationary, 200 kg container, high pressure flexible grease hose 4 m Ø 540 - 590 mm



Grease supply system, mobile, with high pressure flexible grease hose 4 m

18 417 953

Grease supply system 50:1, mobile, 20 kg container, high pressure flexible grease hose 4 m Ø 270 - 310 mm, trolley 17 008

19 000 530

Grease supply system 50:1, mobile, 25 kg container, high pressure flexible grease hose 4 m Ø 310 - 335 mm, trolley 17 008

18 766 051

Grease supply system 50:1, mobile, 50 kg container, high pressure flexible grease hose 4 m Ø 335 - 385 mm, trolley 17 008



18 786 051

Grease supply system 50:1, mobile, 200 kg container, high pressure flexible grease hose 4 m Ø 540 - 590 mm, trolley 17 009

Pneumatic grease supply systems – stationary or mobile


Grease supply systeme, stationary, with high pressure flexible grease hose 6 m
18 421 056

Grease supply system 50:1, stationary, 25 kg container, high pressure flexible grease hose 6 m Ø 310 - 335 mm

18 764 056

Grease supply system 50:1, stationary, 50 kg container, high pressure flexible grease hose 6 m Ø 335 - 385 mm

18 785 056

Grease supply system 50:1, stationary, 200 kg container, high pressure flexible grease hose 6 m Ø 540 - 590 mm


Grease supply systeme, mobile, with high pressure flexible grease hose 6 m
19 000 533

Grease supply system 50:1, mobile, 25 kg container, high pressure flexible grease hose 6 m Ø 310 - 335 mm, trolley 17 008

18 766 950

Grease supply system 50:1, mobile, 50 kg container, high pressure flexible grease hose 6 m Ø 335 - 385 mm, trolley 17 008


18 786 056

Grease supply system 50:1, mobile, 200 kg container, high pressure flexible grease hose 6 m Ø 540 - 590 mm, trolley 17 009


Grease supply systeme, mobile, with 10 m hose reel
18 788 051

Grease supply system 50:1, mobile, 200 kg container, 10 m hose reel, GDA, Ø 540 - 590 mm, trolley 17 009


Grease supply systeme, mobile, with high pressure flexible grease hose 4 m, with air maintenance unit
18 766 956

Grease supply system 50:1, mobile, 50 kg container, high pressure flexible grease hose 4 m Ø 335 - 385 mm, trolley 17 008 with air maintenance unit (20 218 950)

Pneumatic grease supply systems – stationary or mobile



Grease supply system, mobile, for filling centralized lubrication systems ZSA, with high pressure flexible grease hose 4 m

19 000 518

Grease supply system 50:1 stationary, for filling centralized lubrication systems ZSA, 18 kg JOKEY GDE, high pressure flexible grease hose 4 m Ø 266 - 291 mm



Grease supply system 50:1, mobile with metal barrel cover, with high pressure flexible grease hose 4 m

27 846

Grease supply system 50:1, mobile with metal barrel cover, for 50/60 kg container, high pressure flexible grease hose 4 m Ø 335 - 385 mm



Grease supply system, mobile, for filling centralized lubrication systems ZSA, with high pressure flexible grease hose 4 m

19 000 532

Grease supply system 50:1, mobile, for filling centralized lubrication systems ZSA 50 kg container, high pressure flexible grease hose 4 m, Ø 335 - 385 mm, trolley 17 008



Grease supply system 50:1, mobile, with metal barrel cover, with high pressure flexible grease hose 6 m

27 846 056

Grease supply system 50:1, mobile, with metal barrel cover, for 50/60 kg container, high pressure flexible grease hose 6 m Ø 335 - 385 mm



Grease supply system, mobile, for filling centralized lubrication systems ZSA, with high pressure flexible grease hose 6 m

19 000 535

Grease supply system 50:1, mobile, for filling centralized lubrication systems ZSA 50 kg container, high pressure flexible grease hose 6 m Ø 335 - 385 mm, trolley 17 008



Grease supply system 50:1, mobile with container for direct refilling, with high pressure flexible grease hose 2 m

27 846 950

Grease supply system 50:1, mobile, with 20 kg container for direct refilling, high pressure flexible grease hose 2 m Ø 270 - 310 mm

Pneumatic grease supply systems – stationary or mobile

**Accessories for filling centralized lubrication systems ZSA****01 297**

Rectus coupling type 72, G 1/4" i

**17 044**

Quick release adapter, G 1/4" i, type 72

**17 044 950**


Quick release adapter, G 1/4" i, type 72 with adapter G 1/4" a - M 10 x 1 a and G 1/4" a - M 12 x 1,5 a

**17 045**

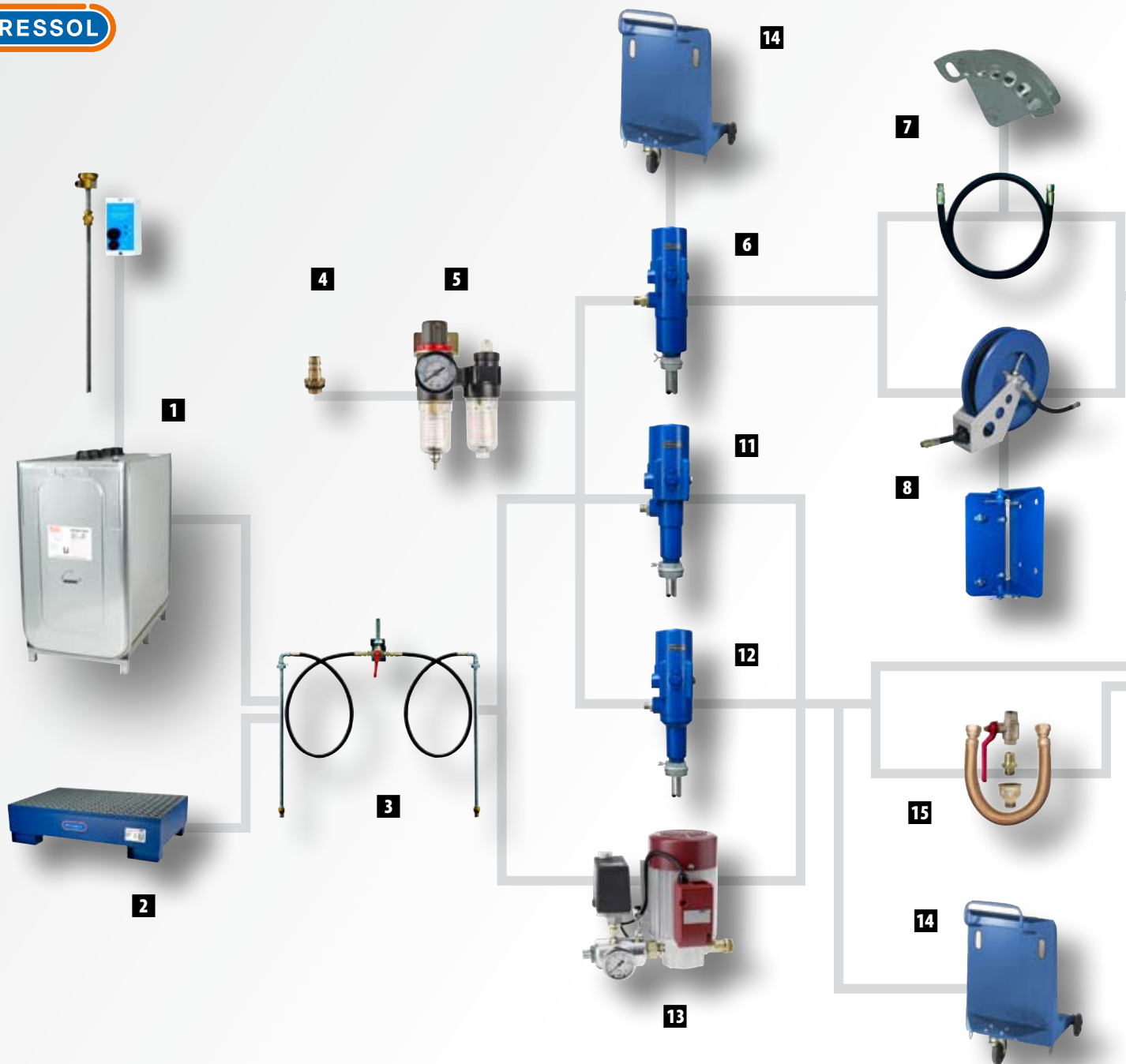
Steel discharge spout, quick release adapter rectus type 72

The logo consists of the word "PRESSOL" in a bold, blue, sans-serif font, enclosed within a white rounded rectangle with a blue border.

FRESH OIL SUPPLY SYSTEMS

The image displays a variety of industrial oil supply equipment. On the left, a blue reel-mounted hose system is shown with a red nozzle and a digital flow meter. In the center, a blue hand-held sprayer with a blue motor and a black hose is connected to a blue and white oil canister on wheels. On the right, a tall, vertical stainless steel pole is connected to a blue and white oil canister on wheels via a black hose and a blue nozzle. The background is a plain, light gray surface.

*Mobile or stationary
fresh oil supply ?
We offer the solution !*



CONSTRUCTION KIT FOR FRESH OIL SUPPLY

1 Storage tanks	44	11 Pneumatic oil pumps 3:1	35
2 Container storage units to suit 60/200 L containers	48	12 Pneumatic oil pumps 5:1 – double acting	40
3 Suction tubes and accessories	47	13 Electric oil pumps	41
4 Accessories for air supply	32	14 Trolleys to suit oil barrels and accessories	48
5 Air maintenance units	32	15 Accessories for installation of fixed oil pipe work	39, 49, 53, 90
6 Pneumatic oil and diesel pumps 1:1	32	16 Discharge hoses for oil	49
7 Discharge hoses for oil	33	17 hose reels	50
8 hose reels	33	18 Control valves and meters	52
9 Flow meters	34	19 Oil monitoring systems	54
10 Control valve	34	20 Oil bar	53



9



10



16



18



19



17



20



Pneumatic oil and diesel pumps 1:1 and accessories



19 135

Pneumatic oil and diesel pump 1:1, NEF, SRL 860, for 200/220 l container

19 165

Pneumatic oil and diesel pump 1:1, NEF, SRL 1200, for mounting on tanks

19 185

Pneumatic oil and diesel pump 1:1, NEF, for wall-mounting

19 135 600

Pneumatic oil and diesel pump 1:1, NEF, installation set, SRL 860, 200/220 l container

19 165 600

Pneumatic oil and diesel pump 1:1, NEF, installation set, SRL 1200, for mounting on tanks

19 135 954

Oil supply system 1:1, stationary, NEF, discharge hose 4 m, SRL 860, 200/220 l container, with (19 701)

19 060

Pneumatic diaphragm pump, 60 l / min, G 1/2" a

19 062

Pneumatic diaphragm pump, 159 l / min, G 1" a

20 218

Air maintenance unit
G 1/4" f - G 1/4" f

20 218 950

Air maintenance unit, complete set with 20 112 and 20 062



Suitable for not diluted media as coolant, anti-freeze

19 135 843

Pneumatic pump 1:1, brass, NEF, SRL 860, for 200/220 l container

19 165 843

Pneumatic pump 1:1, brass, NEF, SRL 1200, for mounting on tanks



Suitable for not diluted media as coolant, anti-freeze

19 185 843

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



19 185 600

Pneumatic-Pump 1:1, NEF, installation set, SRL 860, for wall-mounting



20 062

Male quick release adapter, G 1/4" a, for Rectus coupling, type 26

20 112

Adapter, G 1/4" a, G 1/4" a



20 185

Coiled air hose 5 m

Pneumatic oil and diesel pumps 1:1 and accessories

**19 530**

discharge hose for oil, 0,5 m,
G 3/4" i, G 3/4" i

19 512

discharge hose for oil, 2 m,
G 3/4" i, G 3/4" a

19 531

discharge hose for oil, 1 m,
G 3/4" i, G 3/4" a

19 533

discharge hose for oil, 3 m,
G 3/4" i, G 3/4" a

19 534

discharge hose for oil, 4 m,
G 3/4" i, G 3/4" a

19 535

discharge hose for oil, 5 m,
G 3/4" i, G 3/4" a

19 538

discharge hose for oil, 8 m,
G 3/4" i, G 3/4" a

**19 550**

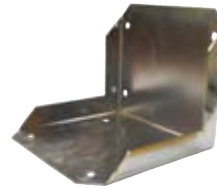
discharge hose for oil, 1,5 m, G 3/4" i,
G 3/4" i

**19 666**

Flexible metal hose, 0,5 m, G 3/4" i,
G 3/4" i

**19 669**

Hose storage rack, large size

**87 626**

Wall mounting rack for diaphragm
pumps

Product features hose reels to suit pumps 1:1

- 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 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

**29 341**

Hose reel, diesel, open, wall/floor
mounting, 60 bar, DN 16,
8 m

**29 351**

Hose reel, diesel, open, for mounting
on ceilings, 60 bar, DN 16,
8 m

Pneumatic oil and diesel pumps 1:1 and accessories



29 361

Hose reel, diesel, encased, GDI, wall/floor mounting, 60 bar, DN 16, 8 m



29 371

Hose reel, diesel, encased, GDA, wall/floor mounting, 60 bar, DN 16, 8 m



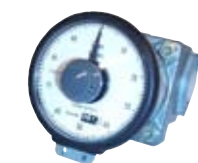
29 930

Wall bracket for hose reel, 90° swivelable



29 979

Hose stop 5/8"



19 728

Rotary piston flow meter, mech, built in meter, NEF, G 3/4" i



19 728 395

In-line meter for diesel, Rape-oil, fuel oil, digital, oval gears, NEF, max. 60 l/min, G 1" i,

19 728 396

In-line meter for diesel, Rape-oil, fuel oil, digital, oval gears, NEF, max. 100 l/min, G 1" i,



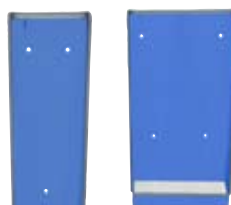
29 381

Hose reel, diesel, encased, GDI, for mounting on ceilings, 60 bar, DN 16, 8 m



29 391

Hose reel, diesel, encased, GDA, for mounting on ceilings, 60 bar, DN 16, 8 m



29 980

Control gun storage bracket for one gun only

29 981

Control gun storage bracket for two guns



29 940

Angle bracket for installation



19 701

Control valve for diesel/oil, G 1" i

03 419

Reducing nipple G 1" a, G 3/4" i

19 618

Swivel joint G 3/4" a, G 3/4" i



Pneumatic oil pumps 3:1



Does not correspond to German calibration law NEF

19 205

Pneumatic pump 3:1, NEF, SRL 570, for 60 l container

19 235

Pneumatic pump 3:1, NEF, SRL 860, for 200/220 l container

19 265

Pneumatic pump 3:1, NEF, SRL 1200, for mounting on tanks

19 264

Pneumatic pump 3:1, NEF, SRL 1270, for mounting on tanks

19 266

Pneumatic pump 3:1, NEF, SRL 1500, for mounting on tanks



acc. to German calibration law with integral air eliminating foot valve

19 205 951

Pneumatic-pump 3:1, EF with integral air eliminating foot valve SRL 570, for 60 l container

19 235 951

Pneumatic pump 3:1, EF with integral air eliminating foot valve, SRL 860, for 200/220 l container

19 265 951

Pneumatic pump 3:1, EF with integral air eliminating foot valve, SRL 1200, for mounting on tanks

19 264 951

Pneumatic pump 3:1, with integral air eliminating foot valve, SRL 1270, for mounting on tanks

19 266 951

Pneumatic pump 3:1, EF with integral air eliminating foot valve, SRL 1500, for mounting on tanks



acc. to German calibration law with integral air eliminator

19 235 030

Pneumatic pump 3:1, EF, acc. to German calibration law with integral air eliminator, SRL 860, for 200/220 l container

19 265 030

Pneumatic pump 3:1, EF, acc. to German calibration law with integral air eliminator, SRL 1200, for mounting on tanks

19 266 030

Pneumatik-Pumpe 3:1, EF, acc. to German calibration law with integral air eliminator, SRL 1500, for mounting on tanks



acc. to Austrian calibration law with integral air eliminator

19 235 135

Pneumatic pump 3:1, EF, acc. to Austrian calibration law with integral air eliminator, SRL 860, for 200/220 l container

19 265 135

Pneumatic pump 3:1, EF, acc. to Austrian calibration law with integral air eliminator, SRL 1200, for mounting on tanks

19 266 135

Pneumatic pump 3:1, acc. to Austrian calibration law with integral air eliminator, SRL 1500, for mounting on tanks



Does not correspond to German calibration law NEF

19 285

Pneumatic pump 3:1, NEF, for wall-mounting



acc. to German calibration law with integral air eliminating foot valve

19 285 951

Pneumatic pump 3:1, EF with integral air eliminating foot valve, for wall-mounting, with suction hose 2 m and suction tube SRL 980

Pneumatic oil pumps 3:1



acc. to German calibration law with integral air eliminator

19 285 030

Pneumatic pump 3:1, EF, acc. to German calibration law with integral air eliminator, for wall-mounting



acc. to Austrian calibration law with integral air eliminator

19 285 135

Pneumatic pump 3:1, EF acc. to Austrian calibration law with integral air eliminator, for wall-mounting

Pneumatic oil pumps 3:1 – systems (stationary /mobile)



Oil supply system 3:1, stationary, NEF does not correspond to German calibration law, discharge hose 4 m, SRL 570, for 60 l container

19 211

With filling valve (19 718)

19 212

With hose end meter, digital (19 698 950)

19 212 551

With hose end meter, digital (19 698)



Oil supply system 3:1, mobile, NEF does not correspond to German calibration law, discharge hose 4 m, SRL 570, for 60 l container

19 213

With filling valve (19 718) and trolley (17 008)

19 214

With hose end meter, digital (19 698 950) and trolley (17 009)

19 214 551

With hose end meter, digital (19 698) and trolley (17 009)

19 214 552

With hose end meter, digital (19 698 950) and trolley (17 009)



Oil supply system 3:1, stationary, NEF does not correspond to German calibration law, discharge hose 4 m, SRL 860, for 200/220 l container

19 241

With filling valve (19 718)

19 242

With hose end meter, digital (19 698)

19 242 551

With hose end meter, digital (19 698)



Oil supply system 3:1, mobile, NEF does not correspond to German calibration law, discharge hose 4 m, SRL 860, for 200/220 l container

19 243

With filling valve (19 718) and trolley (17 008)

19 244

With hose end meter, digital (19 698 950) and trolley (17 009)

19 244 551

With hose end meter, digital (19 698) and trolley (17 009)

Pneumatic oil pumps 3:1 – systems (stationary /mobile)



Garage set stationary oil system 3:1, NEF does not correspond to German calibration law, discharge hose 4 m, air maintenance unit (20 218 950) and coiled air hose (20 185)

19 235 888

SRL 860, for 200/220 l container, with hose end meter, digital (19 698)

19 266 888

SRL 1500, for mounting on tanks, with hose end meter, digital



Oil supply system 3:1 PREMIUM garage set mobile, NEF does not correspond to German calibration law, discharge hose 5 m, air maintenance unit (20 218 950) and coiled air hose 5 m (20 185)

19 000 960

SRL 860, for 200/220 l container, with hose end meter, digital (19 698) and trolley (17 009) – pre-assembled



Oil supply system 3:1, mobile, NEF does not correspond to German calibration law, 10 m hose reel GDA, with trolley (17 009) SRL 860, for 200/220 l container

19 246

With filling valve (19 718)

19 248

With hose end meter, digital (19 698 950)

19 248 551

with hose end meter, digital (19 698)



Oil supply system 3:1 PREMIUM garage set mobile, EF acc. to German calibration law with integral air eliminator, discharge hose 5 m, air maintenance unit (20 218 950) SRL 860, for 200/220 l container, with trolley (17 009) – pre-assembled

19 000 961

With hose end meter, digital (19 709) calibratable for Germany

19 011 135

With hose end meter, digital (19 709 135) calibratable for Austria



Oil supply system 3:1, mobile, NEF does not correspond to German calibration law, 10 m hose reel open, with trolley (17 009), SRL 860, for 200/220 l container

19 257

With hose end meter, digital (19 698 950)

19 257 551

With hose end meter, digital (19 698)



Oil supply system 3:1, mobile, EF acc. to German calibration law with integral air eliminating foot valve, 10 m hose reel open, with trolley (17 009), SRL 860, for 200/220 l container

19 000 950

With hose end meter, digital (19 709)



27 832

Oil dispensing unit, mobile, NEF does not correspond to German calibration law, 75 l container, manually operated

Pneumatic oil pumps 3:1 – sets and accessories (stationary /mobile)



27 859

Oil dispensing unit 3:1, mobile, NEF, with (19 698), 75 l container, pneumatic operated



27 859 951

Oil dispensing unit 3:1, mobile, EF acc. to German calibration law with integral air eliminating foot valve, with (19 709), 75 l container, pneumatic operated



19 768

Spray unit, mobile, 24 l, pneumatic delivery

19 789

Funnel tube for Spray unit (19 768)

Pneumatic oil pumps 3:1 - sets and accessories



Pneumatic pump 3:1 set, with air maintenance unit (20 218 950), Oil discharge hose 2 m, G 1/2" lever ball valve, compressed air hose 2 m,

19 235 600

NEF does not correspond to German calibration law, SRL 860, for 200/220 l container

19 265 600

NEF does not correspond to German calibration law, SRL 1200, for mounting on tanks



Pneumatic pump 3:1 set, with air maintenance unit (20 218 950), Oil discharge hose 2 m, G 1/2" lever ball valve, compressed air hose 2 m,

19 235 601

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

19 265 601

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



Pneumatic pump 3:1 set, with air maintenance unit (20 218 950), Oil discharge hose 2 m, G 1/2" lever ball valve, compressed air hose 2 m,

19 285 600

NEF does not correspond to German calibration law, SRL 1200, for wall-mounting



Pneumatic pump 3:1 set, with air maintenance unit (20 218 950), Oil discharge hose 2 m, G 1/2" lever ball valve, compressed air hose 2 m,

19 285 601

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

Pneumatic oil pumps 3:1 - sets and accessories



Oil supply system 3:1, for wall-mounting, NEF does not correspond to German calibration law, hose reel 10 m open, SRL 860/1600, for 200/220 l container and tanks

19 000 330

With hose end meter, digital (19 698 950)

19 000 955

With hose end meter, digital (19 698)



Oil supply system 3:1, for wall-mounting, EF acc. to German calibration law with integral air eliminator, hose reel 10m open, SRL 860/1600, for 200/220 l container and tanks

19 000 331

With hose end meter, digital (19 709) calibratable for Germany

19 012 135

With hose end meter, digital (19 709 135) calibratable for Austria

19 000 959

With hose end meter, digital (19 709) acc. to German calibration law with integral air eliminating foot valve



Oil supply system 3:1, for wall-mounting, NEF does not correspond to German calibration law, hose reel 10 m GDI, SRL 860/1600, for 200/220 l container and tanks

19 000 332

With hose end meter, digital (19 698 950)

19 000 957

With hose end meter, digital (19 698)



Oil supply system 3:1, for wall-mounting, EF acc. to German calibration law with integral air eliminator, hose reel 10m GDA, SRL 860/1600, for 200/220 l container and tanks

19 000 333

With hose end meter, digital (19 709) calibratable for Germany

19 013 135

With hose end meter, digital (19 709) calibratable for Austria



19 580 001

discharge hose for oil, 0,5 m, G 1/2" i, G 1/2" i for connection of pump / pipe work



19 642

Connecting set for connection of pipework / hose reel G 1" a

19 643

Connecting set for connection of pipework / hose reel G 1 1/4" a

Pneumatic oil pumps 5:1 double acting – systems and sets



Does not correspond to German calibration law NEF

19 305

Pneumatic pump 5:1, DW, NEF, SRL 860, for 200/220 l container

19 365

Pneumatic pump 5:1, DW, NEF, SRL 1200, for mounting on tanks

19 366

Pneumatic pump 5:1, DW, NEF, SRL 1500, for mounting on tanks



Acc. to German calibration law with integral air eliminating foot valve EF

19 335 951

Pneumatic pump 5:1, DW, EF acc. to German calibration law with integral air eliminating foot valve, SRL 860, for 200/220 l container

19 365 951

Pneumatic pump 5:1, DW, EF acc. to German calibration law with integral air eliminating foot valve, SRL 1200, for mounting on tanks

19 366 951

Pneumatic pump 5:1, DW, EF acc. to German calibration law with integral air eliminating foot valve, SRL 1500, for mounting on tanks



Does not correspond to German calibration law NEF

19 385

Pneumatic pump 5:1, DW, NEF, for wall-mounting



Acc. to German calibration law with integral air eliminating foot valve EF

19 385 951

Pneumatic pump 5:1, DW, EF acc. to German calibration law with integral air eliminating foot valve, for wall-mounting, with suction hose 2 m and suction tube SRL 980



Pneumatic-Pump 5:1 set, with air maintenance unit (20 218 950), Oil discharge hose 2 m, G 1/2"i lever ball valve, compressed air hose 2 m,

19 335 600

NEF does not correspond to German calibration law, SRL 860, for 200/220 l container

19 365 600

NEF does not correspond to German calibration law, SRL 1200, for mounting on tanks



Pneumatic pump 5:1 set, with air maintenance unit (20 218 950), Oil discharge hose 2 m, G 1/2"i lever ball valve, compressed air hose 2 m,

19 335 601

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

19 365 601

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



Pneumatic pump 5:1 set, with air maintenance unit (20 218 950), Oil discharge hose 2 m, G 1/2"i lever ball valve, compressed air hose 2 m,

19 385 600

NEF does not correspond to German calibration law, SRL 1200, for wall-mounting



Pneumatic pump 5:1 set, with air maintenance unit (20 218 950), Oil discharge hose 2 m, G 1/2"i lever ball valve, compressed air hose 2 m,

19 385 601

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



19 335 954

Oil supply system 5:1, stationary, NEF, discharge hose 4 m, SRL 860, for 200/220 l container, with filling valve (19 718)

Electric oil pumps

Our electric oil pumps are designed to dispense engine- or gear oil (max. viscosity SAE 90). You can choose between standard versions and versions designed acc. German calibration laws. You also easily can use different models of hose reels with our pumps.



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				.	.
Connection, suction side 3/4"	.	.	.	.	.
Connection, pressure side	.	.	.	.	.
General application	Pump for dispensing of engine- and hydraulic oils from original barrels or tanks.				
Classical application	Pump for mounting on container or tanks.	Pump for mounting on container or tanks. Pump is designed to be used in conjunction with distribution lines up to 70 m, or tanks depending on diameter of the tube used.			
Viscosity of medium	Oils up to SAE 90				
Classical medium	Engine- and gear oil				
Testing data	Testing medium:		SAE 15 W40		
	Temperature of the test medium:		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.				

Electric oil pumps 230V / 400V – systems and sets



NEF does not correspond to German calibration law

23 321

Oil pump, 230 V, 10 l/min, 10 bar, NEF, with diaphragm switch, 2 m cable with EU-plug



EF acc. to German calibration law with integral air eliminator

23 321 030

Oil pump, 230 V, 10 l/min, 10 bar, EF,, calibratable for Germany, diaphragm switch, 2 m cable with EU-plug



NEF does not correspond to German calibration law

23 322

Oil pump, 400 V, 10 l/min, 16 bar, NEF, with diaphragm switch, 2 m cable with Cekon plug with phase inverter



EF acc. to German calibration law with integral air eliminator

23 322 030

Oil pump, 400 V, 10 l/min, 16 bar, EF – calibratable for Germany, diaphragm switch, 2 m cable with Cekon plug with phase inverter



NEF does not correspond to German calibration law

23 337

Oil pump, 230 V, 10 l/min, 8 bar, NEF, diaphragm switch, with 2 m cable with EU-plug



NEF does not correspond to German calibration law, stationary

23 337 390

Oil supply system, 230 V, 10 l/min, 8 bar, stationary, NEF, with discharge hose 2 m and filling valve (19 718), SRL 1600/860, for 200/220 l container and tanks



NEF does not correspond to German calibration law, stationary

23 312 551

Oil supply system, 230 V, stationary, NEF, with discharge hose 4 m, hose end meter, digital (19 698) SRL 570, for 60 l container,



EF acc. to German calibration law with integral air eliminating foot valve, stationary

23 312 552

Oil supply system, 230 V, stationary, EF acc. to German calibration law with integral air eliminating foot valve, with discharge hose 4 m, hose end meter, digital (19 709) SRL 570, for 60 l container



NEF does not correspond to German calibration law, stationary

23 342 551

Oil supply system, 230 V, stationary, NEF, with discharge hose 4 m, hose end meter, digital (19 698) SRL 860/1600, for 200/220 l container and tanks



EF acc. to German calibration law with integral air eliminating foot valve, stationary

23 342 552

Oil-System, 230 V, stationary, EF acc. to German calibration law with integral air eliminating foot valve, with discharge hose 4 m, hose end meter, digital (19 709) SRL 860/1600, for 200/220 l container and tanks

Electric oil pumps 230V / 400V – systems and sets



NEF does not correspond to German calibration law, mobile

23 314 551

Oil supply system, 230 V, stationary, NEF, with discharge hose 4 m, hose end meter, digital (19 698), with trolley (17 008 950) SRL 570, for 60 l container,



EF acc. to German calibration law with integral air eliminating foot valve, mobile

23 314 552

Oil supply system, 230 V, stationary, EF acc. to German calibration law with integral air eliminating foot valve, with discharge hose 4 m, hose end meter, digital (19 709) with trolley (17 008 950) SRL 570, for 60 l container



NEF does not correspond to German calibration law, mobile

23 344 551

Oil supply system, 230 V, stationary, NEF, with discharge hose 4 m, hose end meter, digital (19 698) with trolley (17 009) SRL 860, for 200/220 l container



EF acc. to German calibration law with integral air eliminating foot valve, mobile

23 344 552

Oil supply system, 230 V, stationary, EF acc. to German calibration law with integral air eliminating foot valve, with discharge hose 4 m, hose end meter, digital (19 709) with trolley (17 009) SRL 860, for 200/220 l container



NEF does not correspond to German calibration law, mobile

23 001 960

Oil supply system, 230 V, mobile, PREMIUM garage set, NEF, discharge hose 5 m, hose end meter, digital (19 698 950), with trolley (17 009) – pre-assembled SRL 860, for 200/220 l container



EF acc. to German calibration law with integral air eliminator, mobile

23 001 961

Oil supply system, 230 V, fahrbar, PREMIUM garage set, EF calibratable for Germany, with discharge hose 5 m, hose end meter, digital (19 709) with trolley (17 009) – pre-assembled SRL 860, for 200/220 l container

23 001 135

Oil supply system, 230 V, mobile, PREMIUM garage set, EF calibratable for Austria, with discharge hose 5 m, hose end meter, digital (19 709 135) with trolley (17 009) – pre-assembled SRL 860, for 200/220 l container



NEF does not correspond to German calibration law, for wall-mounting

23 322 950

Oil supply system, 400 V, NEF, for wall-mounting, hose reel 10 m open, with hose end meter, digital (19 698 950), SRL 860/1600, for 200/220 l container and tanks



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

23 322 955

Oil supply system, 400 V, EF, wall-mounting, hose reel 10 m open, hose end meter, digital (19 709), SRL 860/1600, for 200/220 container and tanks

Oil supply tank stations – 750 l, 1000 l, 1500 l, with 3:1 pneumatic pump

double walled, steel galvanized



NEF does not correspond to German calibration law with pneumatic pump 3:1

With 750 l storage tank

19 000 250

Oil supply tank station, 750 l, NEF, PNP 3:1, discharge hose 8 m, hose end meter, digital (19 698 950)

19 000 251

Oil supply tank station, 750 l, NEF, PNP 3:1, hose reel 10 m open, hose end meter, digital (19 698 950)



EF acc. to German calibration law with integral air eliminating foot valve with pneumatic pump 3:1

With 750 l storage tank

19 000 255

Oil supply tank station, 750 l, EF, PNP 3:1, discharge hose 8 m, hose end meter, digital (19 709)

19 000 256

Oil supply tank station, 750 l, EF, PNP 3:1, hose reel 10 m open, hose end meter, digital (19 709)



With 1000 l storage tank

19 000 350

Oil supply tank station, 1000 l, NEF, PNP 3:1, discharge hose 8 m, hose end meter, digital (19 698 950)

19 000 351

Oil supply tank station, 1000 l, NEF, PNP 3:1, hose reel 10 m open, hose end meter, digital (19 698 950)



With 1000 l storage tank

19 000 355

Oil supply tank station, 1000 l, EF, PNP 3:1, discharge hose 8 m, hose end meter, digital (19 709)

19 000 356

Oil supply tank station, 1000 l, EF, PNP 3:1, hose reel 10 m open, hose end meter, digital (19 709)



With 1500 l storage tank

19 004 350

Oil supply tank station, 1500 l, NEF, PNP 3:1, discharge hose 8 m, hose end meter, digital (19 698 950)

19 004 351

Oil supply tank station, 1500 l, NEF, PNP 3:1, hose reel 10 m open, hose end meter, digital (19 698 950)



With 1500 l storage tank

19 004 355

Oil supply tank station, 1500 l, EF, PNP 3:1, discharge hose 8 m, hose end meter, digital (19 709)

19 004 356

Oil supply tank station, 1500 l, EF, PNP 3:1, hose reel 10 m open, hose end meter, digital (19 709)

EF acc. to Austrian calibration law with integral air eliminator with Pneumatic pump 3:1

Safety shut-off switch for use in conjunction with permanent operating oil supply stations

19 413 472

Operating time limiter for pneumatic fresh oil systems with magnetic shut-off valve for automatic stop of air supply



With 1000 l storage tank

19 014 135

Oil supply tank station, 1000 l, EF, PNP 3:1, discharge hose 8 m, hose end meter, digital (19 709 135)

19 015 135

Oil supply tank station, 1000 l, EF, PNP 3:1, hose reel 10 m open, hose end meter, digital (19 709 135)

Oil supply tank stations - 750 l, 1000 l, 1500 l, with 230 V electric diesel pumps

NEF does not correspond to German calibration law with 230 V Oil pump



With 750 l storage tank

23 005 250

Oil supply tank station, 750 l, NEF, 230 V, discharge hose 8 m, hose end meter, digital (19 698 950)

23 005 251

Oil supply tank station, 750 l, NEF, 230 V, hose reel 10 m open, hose end meter, digital (19 698 950)

EF acc. to German calibration law with integral air eliminating foot valve with 230 V Oil pump



With 750 l storage tank

23 005 255

Oil supply tank station, 750 l, EF, 230 V, discharge hose 8 m, hose end meter, digital (19 709)

23 005 256

Oil supply tank station, 750 l, EF, 230 V, hose reel 10 m open, hose end meter, digital (19 709)



With 1000 l storage tank

23 005 350

Oil supply tank station, 1000 l, NEF, 230 V, discharge hose 8 m, hose end meter, digital (19 698 950)

23 005 351

Oil supply tank station, 1000 l, NEF, 230 V, hose reel 10 m open, hose end meter, digital (19 698 950)



With 1000 l storage tank

23 005 355

Oil supply tank station, 1000 l, EF, 230 V, discharge hose 8 m, hose end meter, digital (19 709)

23 005 356

Oil supply tank station, 1000 l, EF, 230 V, hose reel 10 m open, hose end meter, digital (19 709)



With 1500 l storage tank

23 004 350

Oil supply tank station, 1500 l, NEF, 230 V, discharge hose 8 m, hose end meter, digital (19 698 950)

23 004 351

Oil supply tank station, 1500 l, NEF, 230 V, hose reel 15 m open, hose end meter, digital (19 698 950)



With 1500 l storage tank

23 004 355

Oil supply tank station, 1500 l, EF, 230 V, discharge hose 8 m, hose end meter, digital (19 709)

23 004 356

Oil supply tank station, 1500 l, EF, 230 V, hose reel 15 m open, hose end meter, digital (19 709)



Safety shut-off switch for use in conjunction with permanent operating oil supply stations

19 413 473

Operating time limiter for electric fresh oil systems with safety shut-off switch

EF acc. to Austrian calibration law with integral air eliminator With 230 V Elektropumpe



With 1000 l storage tank

23 000 135

Oil supply tank station, 1000 l, EF, 230 V, discharge hose 8 m, hose end meter, digital (19 709 135)

23 005 135

Oil supply tank station, 1000 l, EF, 230 V, hose reel 10 m open, hose end meter, digital (19 709 135)

Oil storage – tanks and accessories



Storage tank

45 400

Storage tank, 400 l, double-walled

45 101

Storage tank, 750 l, double-walled

45 100

Storage tank, 1000 l, double-walled

45 105

Storage tank, 1500 l, double-walled



Storage tanks to be utilized stationary and mobile, double-walled

45 090

MULTI-Tank, 400 l

45 091

MULTI-Tank, 750 l

45 093

MULTI-Tank, 1000 l

45 095

MULTI-Tank, 1500 l



Mounting plate for tanks for mounting pneumatic and electric oil pumps

88 130

Mounting plate for 750 l tanks

88 129

Mounting plate for 1000 l tanks

88 118

Mounting plate for 1500 l tanks



19 403

Fixing bracket for hose suspension bracket

19 669

Hose storage rack, large size



19 402

Nozzle gun mounting with drip tray



29 980

Control gun storage bracket for one gun only

29 981

Control gun storage bracket for two guns



19 407

Contin. operating signal horn for indoor use

19 408

Warning light and buzzer individ. control of each unit



19 406

Optical and acoustic oil/water leakage ind. system



19 421

Protection control with operating time limiter for pneumatic and electric Oil supply tank stations

19 423

Key operated switch with control lamp for electric contactor valve (19 421)

19 897

Solenoid valve, G 1/2"i, G 1/2"i, 2/2 air valve, (only for pneumatic stations)



19 412

Overflow protection acc. to German WHG regulation

19 418

Malleable cast iron reducer, G 3/4" i, G 2" a (for mounting 19 412)

Oil storage – accessories and suction accessories for tanks and containers

**19 410**

Tank ventilation cap G 2" i with strainer, Polyamide

19 411

Tank ventilation cap G 2" i, without strainer, brass

**19 414 950**

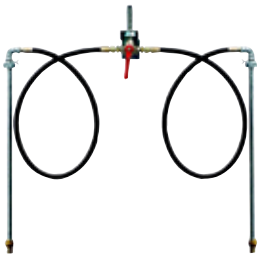
Filling valve, G 2" a, 45°, to suit tank truck-connectors

**19 416**

Tank filling coupler

19 417

Cap for tank filling coupler

**19 511**

Dual suction tube assembly, 2 m, SRL 860

19 522

Suction tube G 3/4" i, G 2" a, SRL 860, for 200/220 l container

19 523

Suction tube, G 3/4" i, G 2" a, with filling valve, SRL 860, for 200/220 l container

19 523 001

Suction tube, G 3/4" i, G 2" a, with filling valve, SRL 1600, for mounting on tanks

19 523 002

Suction set, G 3/4" i, G 2" a, with filling valve, SRL 1600, suction hose 2 m, for mounting on tanks,

19 523 952

Suction tube, G 3/4" i, G 2" a, with filling valve, SRL 1100, for 200/220 l container

19 523 954

Suction tube, G 3/4" i, G 2" a, with filling valve, SRL 2100, for mounting on tanks

**19 512**

Discharge hose for oil, 2 m, G 3/4" i, G 3/4" a

**19 519**

Barrel screw coupling for pipe Ø 35,5 mm connection M 62,5 x 4 i

19 529

Barrel screw coupling for pipe Ø 35,5 mm connection M 60 x 5 i

**19 414**

Tank filling spout, 90°, G 2" a, G 2" a

**19 424**

Set filling/tank ventilation tube, G 2" a

19 426

Installation set for the installation of an overflow protection valve (19 412) and of a tank ventilation tube

87 563

Tank vent tube G 2" a, 500 mm

**19 521**

Wall mounting bracket for pneumatic pumps

**19 513 950**

Conversion kit for calibration, SRL 860, for 200/220 l container

19 513 952

Conversion kit for calibration, SRL 1600, for mounting on tanks

19 513 954

Conversion kit for calibration, SRL 1600, for mounting on tanks with 90° connecting angle

**Barrel screw coupling connection G 2" a and M 64 x 4 a****13 080**

Barrel screw coupling for pipe Ø 32 mm

19 526

Barrel screw coupling for pipe Ø 35,5 mm

19 527

Barrel screw coupling for pipe Ø 40 mm

19 528

Barrel screw coupling for pipe Ø 27,5 mm

Oil storage – container storage units, trolleys



Container storage units, design approval conforms to WHG §19 (German Environmental Government Specifications - water protection regulation, LGA supervision)

19 802

Container storage unit, steel, for two 200 l - containers (LWH: 1340 x 850 x 340 mm)



19 804

Container storage unit, steel, for four 200 l - containers (LWH: 2680 x 850 x 236 mm)



19 808

Container storage unit, steel, for four 200 l - containers (LWH: 1200 x 1200 x 340 mm)



19 805

Container storage unit, steel, for one 1000 l IBC tank (LWH 1340 x 1260 x 900) without German design approval



19 815

Barrel storage rack , 3 x 60 l oder 2 x 200 l, Extensible to 2 storage levels by simply stacking two units together on top of each other (plug-in system)



19 816

Barrel lift



Trolley for 60 l or 200/220 l containers

17 008

Trolley for containers, 5, 10, 15, 25, 50 kg



17 000

Rubber retaining strap for trolley (17 008)



17 008 950

Trolley for plastic and metal containers, 10 - 60 kg



17 009

Trolley for containers, 200 kg – PREMIUM Version



17 009 390

Trolley for containers, 200 kg – ECO Version

Discharge hoses for 3:1 and 5:1

**Discharge hoses for oil****19 561**

Discharge hose for oil, 1 m, G 1/2" i,
G 1/2" a

19 562

Discharge hose for oil, 2 m, G 1/2" i,
G 1/2" a

19 563

Discharge hose for oil, 3 m, G 1/2" i,
G 1/2" a

19 564

Discharge hose for oil, 4 m, G 1/2" i,
G 1/2" a

19 565

Discharge hose for oil, 5 m, G 1/2" i,
G 1/2" a

19 568

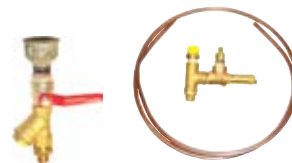
Discharge hose for oil, 8 m, G 1/2" i,
G 1/2" a

19 570

Discharge hose for oil, 10 m, G 1/2" i,
G 1/2" a

19 575

Discharge hose for oil, 15 m, G 1/2" i,
G 1/2" a

**Accessories for installation of fixed oil pipe work****19 666**

Flexible metal hose , 0,5 m, G 3/4" i,
G 3/4" i

19 668

Flexible metal hose , 0,5 m, G 1/2" i,
G 1/2" i

19 580

Discharge hose for oil, 1,5 m, G 1/2" i,
G 1/2" i

19 580 001

Discharge hose for oil, 0,5 m, G 1/2" i,
G 1/2" i

19 550

Discharge hose for oil, 1,5 m, G 3/4" i,
G 3/4" i, 90° tube bend

19 642

Connecting set G 1" a, for connection
of pipework / hose reel

19 643

Connecting set G 1 1/4" a, for connection
of pipework / hose reel

19 506

Overflow valve , 16 bar

19 648

Overflow valve , 20 bar

Product features hose reels to suit 3:1, 5:1

- 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 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 to suit pumps 3:1 and 5:1



29 142

Hose reel for oil and coolant, open, for wall/floor mounting, 120 bar, DN 12, 10 m

29 143

Hose reel for oil and coolant, open, for wall/floor mounting, 120 bar, DN 12, 15 m



29 152

Hose reel for oil and coolant, open, for mounting on ceilings, 120 bar, DN 12, 10 m

29 153

Hose reel for oil and coolant, open, for mounting on ceilings, 120 bar, DN 12, 15 m



29 162

Hose reel for oil and coolant, encased, GDI, for wall/floor mounting, 120 bar, DN 12, 10 m

29 163

Hose reel for oil and coolant, encased, GDI, for wall/floor mounting, 120 bar, DN 12, 15 m



29 182

Hose reel for oil and coolant, encased, GDI, for mounting on ceilings, 120 bar, DN 12, 10 m

29 183

Hose reel for oil and coolant, encased, GDI, for mounting on ceilings, 120 bar, DN 12, 15 m



29 172

Hose reel for oil and coolant, encased, GDA, for wall/floor mounting, 120 bar, DN 12, 10 m

29 173

Hose reel for oil and coolant, encased, GDA, for wall/floor mounting, 120 bar, DN 12, 15 m



29 192

Hose reel for oil and coolant, encased, GDA, for mounting on ceilings, 120 bar, DN 12, 10 m

29 193

Hose reel for oil and coolant, encased, GDA, for mounting on ceilings, 120 bar, DN 12, 15 m

Hose reels sets



Hose reel, oil, NEF, installation set, open, for wall/floor mounting, 120 bar, DN 12, 10 m

29 142 600

With filling valve (19 718)

29 142 601

With hose end meter, digital (19 698 950)

29 142 602

With mechanical hose end meter (19 723)

29 142 603

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



Hose reel, oil, NEF, installation set, open, for wall/floor mounting, 120 bar, DN 12, 15 m

29 143 600

With filling valve (19 718)

29 143 601

With hose end meter, digital (19 698 950)

29 143 602

With mechanical hose end meter (19 723)

29 143 603

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

Hose reels sets



Hose reel, oil, EF calibratable for Germany, installation set, open, for wall/floor mounting, 120 bar, DN 12, 10 m

29 142 604

With calibratable hose end meter, digital (19 709)



Hose reel, oil, EF calibratable for Germany, installation set, open, for wall/floor mounting, 120 bar, DN 12, 15 m

29 143 604

Hose reel, oil, installation set with (19 709), open, WB, 120 bar,



Hose reel, oil, NEF, installation set, encased, GDA, for wall/floor mounting, 120 bar, DN 12, 10 m

29 172 600

With filling valve (19 718)

29 172 601

With hose end meter, digital (19 698 950)

29 172 602

With mechanical hose end meter (19 723)

29 172 603

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



Hose reel, oil, NEF installation set, encased, GDA, for wall/floor mounting, 120 bar, DN 12, 15 m

29 173 600

With filling valve (19 718)

29 173 601

With hose end meter, digital (19 698 950)

29 173 602

With mechanical hose end meter (19 723)

29 173 603

With pre-set mechanical hose end meter, (19 724)



Hose reel, oil, EF calibratable for Germany, installation set, encased, GDA, for wall/floor mounting, 120 bar, DN 12, 10 m

29 172 604

With calibratable hose end meter, digital (19 709)



Hose reel, oil, EF calibratable for Germany, installation set, encased GDA, for wall/floor mounting, 120 bar, DN 12, 15 m

29 173 604

Hose reel, oil, installation set with (19 709), open, WB, 120 bar,



29 932

System brackets for mounting for max. 6 hose reels



29 930

Wall bracket, 90° swivelable, for hose reels



29 940

Angle bracket for installation of a hose reel



29 978

Hose stop 1/2"



29 980

Control gun storage bracket for one gun only

29 981

Control gun storage bracket for two guns

Filling valves and meters



19 718

Filling valve with swivel joint , G 1/2" i, with dispensing spout

19 718 954

Filling valve with swivel joint, G 1/2" i, with discharge hose



19 698

FMT hose end meter, digital, oval gears, NEF, with discharge hose

19 698 950

FMT hose end meter, digital, oval gears, NEF, with dispensing spout



19 709

Hose end meter, digital, oval gears, EF calibratable for Germany, with dispensing spout

19 709 135

Hose end meter, digital, EF calibratable for Austria, oval gears, EF, with dispensing spout



19 723

Hose end meter, mechanical, rotary piston, NEF, with dispensing spout

19 714

Hose end meter, mechanical, NEF, with discharge hose



19 697

hose end meter, digital, oval gears, NEF, with discharge hose - for anti-freeze



19 702

Built in meter, digital, oval gears, NEF

19 729

Built in meter, mechanical, rotary piston, NEF, G 1/2" i



19 706

Hose end meter, digital, oval gears, NEF, preadjustable



19 735

Hose end meter, mechanical, rotary piston, EF calibratable for Germany, Siemens



19 724

Hose end meter, mechanical, rotary piston, NEF, preadjustable with dispensing spout



19 730

Hose end meter, digital, for anti-freeze, oval gears, NEF, with angled discharge spout, preadjustable



19 709 952

Built in meter, digital, oval gears, EF calibratable for Germany

Filling valves and meters, accessories – oil bar

**19 616**

Swivel joint , G 1/2" i, G 1/2" a

**19 740**

Discharge pipe, straight, G 1/2" a, M 16 x 1 i

19 741

Discharge pipe, 30°, angled, G 1/2" a, M 16 x 1 i

19 742

Discharge pipe, 90°, angled, G 1/2" a, M 16 x 1 i

**19 743**

Discharge pipe, Ø 18 mm, 90°, angled, G 1/2" a, anti-drip nozzle

19 743 950

Gear oil spout, Ø 10 mm, 90°, angled, with swivel joint, G 1/2" a

**19 745**

Discharge hose, 270 mm, G 1/2" a, G 1/4" a

19 746

Discharge hose, Ø 10 mm, G 1/2" a, anti-drip nozzle

**19 747**

anti-drip nozzle, M 16 x 1 a, Ø 20 mm, automatic shut-off valve

19 748

anti-drip nozzle, G 1/4" i, manual shut-off

**19 709 954**

Visual inspection segment for (19 709) + (19 709 952), G 1/2" i, G 1/2" a

**19 715**

Wall-mounted drip tray, steel sheet

**19 810**

Oilbar, NEF, 1 dispensing tap, wall-mounting

**19 812**

Dispensing tap for oilbar

**19 580**

Discharge hose for oil, 1,5 m, G 1/2" i, G 1/2" i

19 668

Flexible metal hose , 0,5 m, G 1/2" i, G1/2" i

**19 721**

Rubber protection ring for (19 714), (19 723), (19 724)

**19 711**

Visual inspection glass for (19 735), G 1/2" i

Oil monitoring systems



36 100
Control unit MDS 2000, NEF

36 200
Control Unit MDS 2000, calibratable for Germany



36 110
Keyboard MDS 2000, NEF

36 210
Keyboard MDS 2000, EF calibratable for Germany



36 120
Power supply unit MDS 2000, NEF

36 220
Power supply unit MDS 2000, EF calibratable for Germany



36 130
LCD remote display MDS 2000, NEF

36 230
LCD remote display MDS 2000, EF calibratable for Germany



36 140
PC interface card MDS 2000, NEF

36 240
PC interface card MDS 2000, EF calibratable for Germany



36 150
Solenoid valve MDS 2000, NEF, G 1/2" i, G 1/2" i

36 250
Double block solenoid valve, EF calibratable for Germany, MDS 2000, G 3/4" i, G 3/4" i



36 160
Pulse meter MDS 2000, NEF, G 1/2" i, G 1/2" i

36 160 843
Pulse meter MDS 2000, for anti-freeze, NEF, G 1/2" i, G 1/2" i

36 260
Pulse meter MDS 2000, EF calibratable for Germany, G 1/2" i, G 1/2" i



36 501
RF oilmanagement Low End discharge terminal with printer, NEF



36 502
RF oilmanagement Masterterminal for data exchange to discharge terminal, NEF



36 503
RF oilmanagement High End discharge terminal without printer, NEF



36 504
RF oilmanagement High End discharge terminal with printer, NEF

36 511
RF oilmanagement preset meter, anti-drip nozzle, manual shut-off, NEF



36 512
RF oilmanagement pre-set meter, anti-drip nozzle, automatic shut-off, NEF

36 515
RF oilmanagement preset meter for anti-freeze, anti-drip nozzle, manual shut-off, NEF

36 516
RF oilmanagement pre-set meter for anti-freeze, anti-drip nozzle, automatic shut-off, NEF



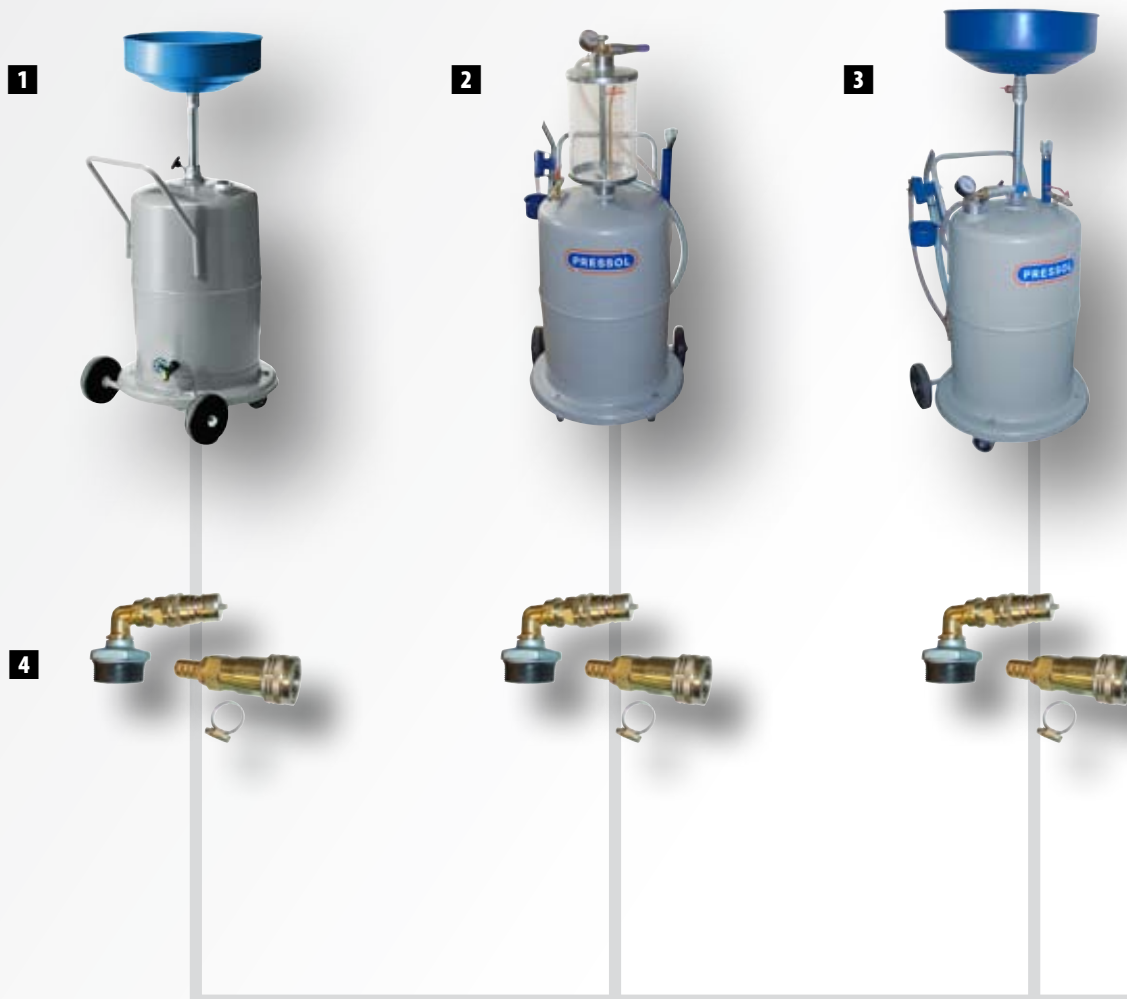
36 402
Oil monitoring system, 1-4 dispensing points-with printer



WASTE OIL DISPOSAL

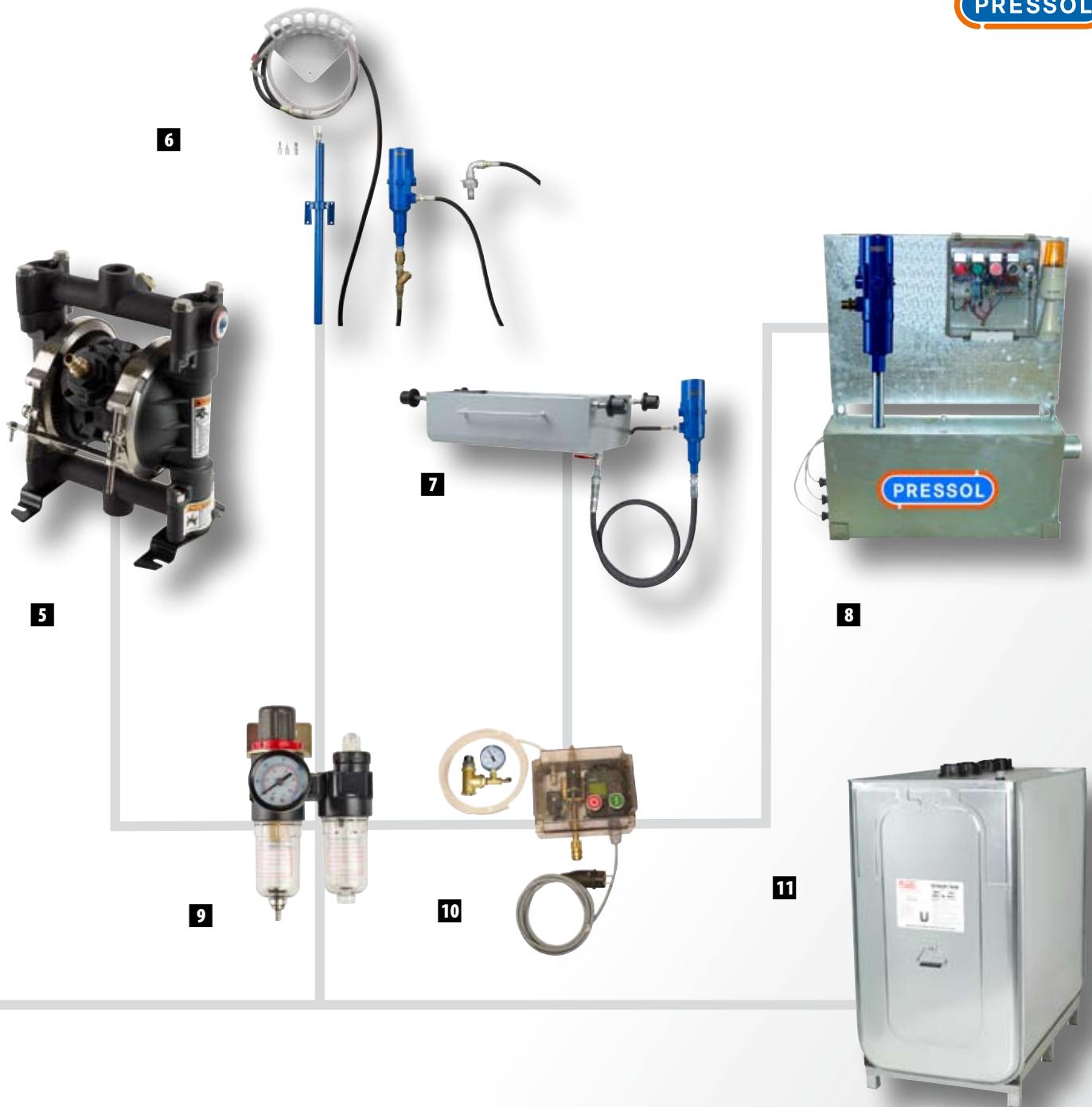
*Your disposal
will be quick, clean
and reliable ...*





CONSTRUCTION KIT WASTE OIL DISPOSAL

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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 flash-point 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.

Waste oil collecting and suction units



27 030
Waste oil drainer-75 l
mobile-with gravity discharge tap

27 030 890
Waste oil drainer-95 l
mobile-with gravity discharge tap



27 035
Waste oil drainer-75 l
mobile-with oil discharge connector

27 035 890
Waste oil drainer-95 l
mobile-with oil discharge connector



27 040
Waste oil drainer-75 l
mobile-pneumatic pump 1:1

27 040 890
Waste oil drainer-95 l
mobile-pneumatic pump 1:1



27 070
Waste oil drainer-75 l
mobile-air pressurized oil evacuation

27 070 890
Waste oil drainer-95 l
mobile-air pressurized oil evacuation



27 410
Waste oil drainer and suction unit-75 l
mobile-pneumatic pump 1:1

27 410 890
Waste oil drainer and suction unit-95 l
mobile-pneumatic pump 1:1



27420
Waste oil drainer and suction unit-75 l
mobile-pneumatic pump 3:1



27 622
Venturi-waste oil suction unit-75 l
mobile

27 622 890
Venturi-waste oil suction unit-95 l
mobile



27 632
Venturi-waste oil suction unit-75 l
mobile-with visual inspection reservoir

27 632 890
Venturi-waste oil suction unit-95 l
mobile-with visual inspection reservoir



27 622 680
Waste oil drainer and suction unit-75 l
Venturi-mobile

27 622 891
Waste oil drainer and suction unit-95 l
Venturi-mobile



27 632 680
Venturi-Waste oil drainer and suction
unit, 75 l
mobile, with visual inspection reservoir

27 632 891
Venturi-Waste oil drainer and suction
unit, 95 l
mobile, with visual inspection reservoir



19 782
Venturi oil suction unit-24 l, mobile,
with adapters for BMW, Mercedes, VW
and Audi



19 783
Electric oil suction unit-12 l, mobile, 4
suction probes, 2 pcs. each, Ø 5/8 mm

Stationary waste oil collecting and disposing system – Storage tanks and accessories



19 800

Waste oil suction system, stationary, pneumatic pump 5:1



19 000 335

Waste oil disposal system, PNP 5:1, with drainage tray (19 788), for garage service pits, 20 l/min



19 000 435

Waste oil disposal system, with drainage tray (19 788) and diaphragm pump, 60 l/min



19 900

Waste oil suction system, stationary, pneumatic pump 5:1, 5 m hose

27 700

Waste oil suction system, stationary, 230V pump, 5 m hose (not shown)



19 850

Drainage tray 40 l, G 3/4" a, LWH 750 x 465 x 155 mm

19 788

Drainage tray 60 l, G 3/4" a, LWH 750 x 465 x 200 mm

19 852

Drainage tray 100 l, G 1" a LWH 750 x 465 x 290 mm



19 901

Waste oil suction system, stationary, pneumatic pump 5:1, SAR, 8 m, O, WB



19 857

Level oil drainer, mobile, 95 l, LWH 1500 x 750 x 260 mm, gravity discharge tap and connecting plug



19 060

Pneumatic-diaphragm pump, 60 l / min, G 1/2" a

19 062

Pneumatic-diaphragm pump, 159 l / min, G 1" a



45 400

UNI-Tank, 400 l, banded storage tank, double-walled

45 101

UNI-Tank, 750 l, banded storage tank, double-walled

45 100

UNI-Tank, 1000 l, banded storage tank, double-walled



19 406

Visual and acoustic oil/water leakage indicator system



19 407

Continuously operating signal horns for dry rooms

19 408

Warning light and horn with separate control mechanism for each unit

Stationary waste oil collecting and disposing system – Storage tanks and accessories



19 412

Overflow protection valve A III acc. to German WHG

19 418

Galvanized cast steel retention adapter, G 3/4" i, G 2" a, for mounting of 19 412



19 410

Tank ventilation cap G 2" i, PA, strainer

19 411

Tank ventilation cap G 2" i, brass



19 419

Waste oil suction lance, G 2" a, 45°, TW screw connection



19 426

Installation set for the installation of an overflow protection valve (19 412) and of a tank ventilation tube



19 414

Tank filling spout, 90°, G 2" a, G 2" a



87 563

Tank ventilation tube G 2" a, 500 mm



27 987

Filling container, rectangular, for waste oil tanks, LWH: 650 x 350 x 100 mm, with cover



02 568

Funnel, polyethylene for waste oil Ø 250 mm, contents 3,2 l, G 2" a

02 569

Funnel, Polyethylene Ø 250 mm, contents 3,2 l, G 2" i



27 985

Angled tube with rotating swivel G 1" a-G 1" i



27988

Drain bowl with pipe for waste oil retention adapter-G 2" a

Accessories for waste oil collecting, suction and pneumatic suction units



Accessories for 27 035, 27 035 890, 27 040, 27 040 890, 27 410, 27 410 890, 27 420

19 770

Hydraulic coupling
size 4-G 3/4" female

19 774

Connecting plug
size 4-G 3/4" female



Accessories for 27 035, 27 035 890, 27 040, 27 040 890, 27 410, 27 410 890, 27 420

27 966

Assembly set for waste oil collecting
tank, plug B 4, G 3/4" i

27 967

Assembly set for oil drainer, on
discharge hose



27 905

Suction probe, 700 mm, Ø 5 mm, plastic

27 906

Suction probe, 700 mm, Ø 6 mm, plastic

27 908

Suction probe, 700 mm, Ø 8 mm, plastic



27 915

Suction probe, 700 mm, Ø 5 mm,
copper

27 916

Suction probe, 700 mm, Ø 6 mm,
copper

27 918

Suction probe, 700 mm, Ø 8 mm,
copper



27 926

Suction probe, 1000 mm, Ø 6 mm,
plastic

27 928

Suction probe, 1000 mm, Ø 8 mm,
plastic



27 948

Suction probe, 1500 mm, Ø 8 mm,
plastic

27 958

Suction probe, 1500 mm, Ø 8 mm,
copper



27 963

Adapter for dipstick tube for VW / Audi,
Ø 8 mm



27 964

Adapter for dipstick tube, for Mercedes,
Ø 16 mm



27 965

Adapter for dipstick tube for BMW, Ø
14 mm



27 968

Adapter for dipstick tube, for SMART, Ø
10 mm

Accessories for waste oil collecting, suction and pneumatic suction units



19 902

Installation set for waste oil, discharge pipe work G 3/4" a



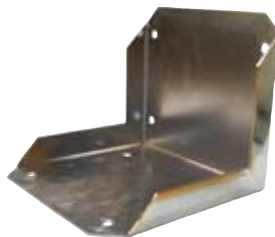
19 858

Drain bowl 3,6 l, swivelling, rectangular



19 903

Drip tray for oil drops, with discharge tap



87 626

Wall mounting rack for diaphragm pumps



Accessories for 19 900, 19 901

19 422

Vacuum switch-off unit automatic, starting key



19 550

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



19 666

Flexible metal hose, 0,5 m, G 3/4" i, G 3/4" i



19 637

Double nipple, R 3/4" a, G 3/4" a



19 763

Lever ball valve, G 3/4" i, G 3/4" i



DIESEL AND FUEL OIL





Materials used enable low weight and extreme durability.

Pump Housing cast from AISi 12:

This material is known for its resistance to seawater, the housing is therefore extremely corrosion resistant.

Stator (runner ring) made from grey cast iron: high resistance to wear

Vanes made from PEI: this material has the following benefits:

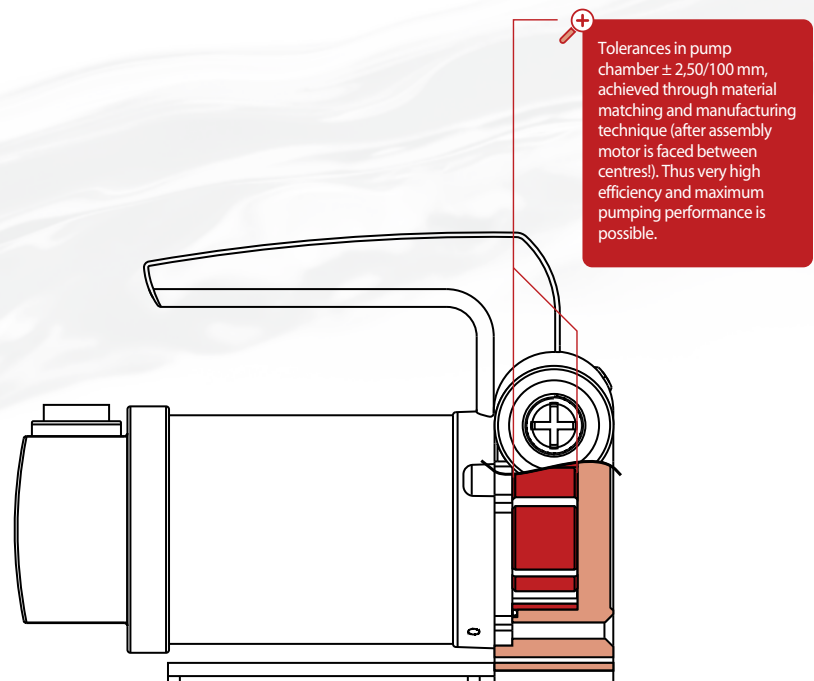
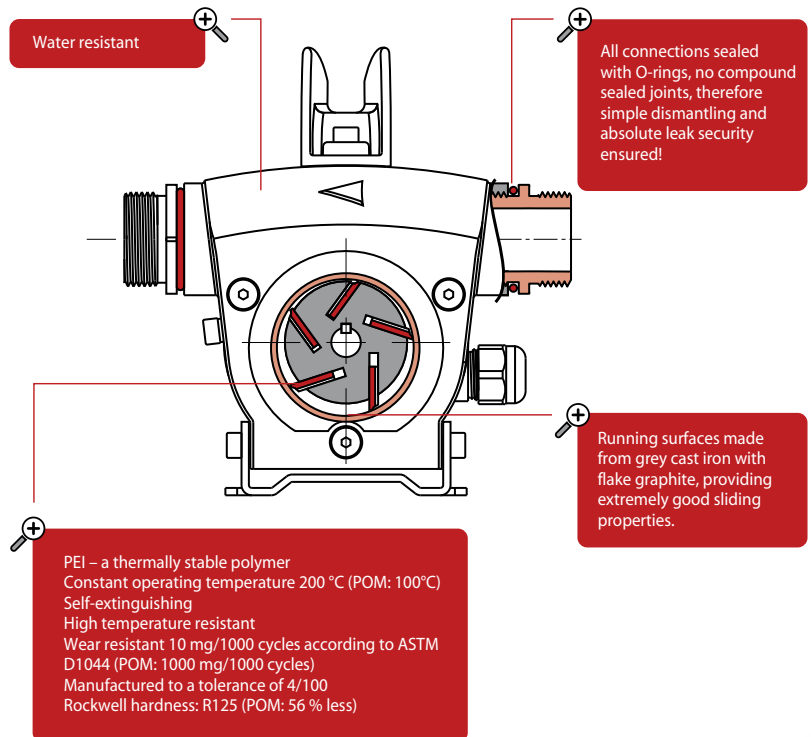
- High strength and rigidity
- High toughness also in cold conditions
- High form stability
- Self extinguishing

Extremely small tolerances between the vanes and the pump chamber enable high suction and delivery performance at maximum efficiency.

Powerful Motors

Housings of the DIESELfixx and DIESELMMaxx dispensing stations

are Duracryl coated. This hard and scratch resistant surface coating is also light-, heat-, weather- and solvent proof and has anti-graffiti properties.



Quality that leads

www.fmtag.ch **FMT** Swiss AG

Diesel pumps 12 V – 24 V – 110 V – 230 V



PREMAxx 12 V – 24 V

23 710

PREMAxx, 38 l/min, NEF, 12 V, DC, battery terminal clips

23 720

PREMAxx, 43 l/min, NEF, 24 V, DC, battery terminal clips



PREMAxx 230 V

23 730

PREMAxx, 52 l/min, NEF, 230 V, 1~AC, EU-plug

23 730 932

PREMAxx, 52 l/min, NEF, 230 V, 1~AC, GB-plug

23 730 939

PREMAxx, 52 l/min, NEF, 230 V, 1~AC, CH-plug



MOBIFlxx 12 V – 24 V

23 012

MOBIFlxx vane pump for diesel, 35 l/min, 12 V, DC, battery terminal clips

23 012 860

MOBIFlxx vane pump for diesel, 35 l/min, 12 V, DC, battery terminal clips, FKM seals – for BIO-diesel

23 012 824

MOBIFlxx vane pump for diesel, 35 l/min, 24 V, DC, battery terminal clips

23 012 862

MOBIFlxx vane pump for diesel, 35 l/min, 24 V, DC, battery terminal clips, FKM seals – for BIO-diesel



MOBIMAx 12 V – 24 V

23 008

MOBIMAx vane pump for diesel, 60 l/min, 12 V, DC, battery terminal clips

23 008 824

MOBIMAx vane pump for diesel, 60 l/min, 24 V, DC, battery terminal clips



Vane pump for diesel, 60 l/min, 50 Hz, 230 V

23 034

Vane pump for diesel, 60 l/min, 50 Hz, NEF, 230 V, 1~AC, EU-plug

23 034 860

Vane pump for diesel, 60 l/min, 50 Hz, NEF, 230 V, 1~AC, EU-plug, FKM seals – BIO-diesel

Vane pump for diesel, 60 l/min, 60 Hz, 230 V

23 032

vane pump for diesel, 60 l/min, 60 Hz, NEF, 230 V, 1~AC, EU-plug

Vane pump for diesel, 60 l/min, 50 Hz, 110 V

23 031

Vane pump for diesel, 60 l/min, 50 Hz, NEF, 110 V, 1~AC, EU-plug



Vane pump for diesel, 100 l/min, 50 Hz, 230 V

23 036

Vane pump for diesel, 100 l/min, 50 Hz, NEF, 230 V, 1~AC, EU-plug

23 036 952

vane pump for diesel, 100 l/min, 60 Hz, NEF, 230 V, 1~AC, EU-plug

Vane pump for diesel, 100 l/min, 50 Hz, 110 V

23 030

Vane pump for diesel, 100 l/min, 50 Hz, NEF, 110 V, 1~AC, EU-plug

PREMAxx diesel sets

**PREMAxx set 12 V - 24 V**

Polypropylene nozzle valve (23161), discharge hose 4 m, suction hose 1,6 m, battery terminal clips

23 711

PREMAxx, 38 l/min, set, 12 V, DC

23 721

PREMAxx, 43 l/min, set, 24 V, DC

**PREMAxx set 230 V**

Polypropylene nozzle valve (23 161), discharge hose 4 m, suction hose 1,6 m

23 731

PREMAxx, 52 l/min, set, NEF, 230 V, 1~AC, EU-plug

23 731 932

PREMAxx, 52 l/min, set, NEF, 230 V, 1~AC, GB-plug

23 731 939

PREMAxx, 52 l/min, set, NEF, 230 V, 1~AC, CH-plug

23 751

PREMAxx, 52 l/min, set, NEF, 110 V, 1~AC

**PREMAxx set 12 V - 24 V**

Automatic nozzle valve with German design approval, discharge hose 4 m, suction hose 1,6 m, battery terminal clips

23 714

PREMAxx, 38 l/min, set, automatic nozzle valve ZVADB with German design approval, 12 V, DC

23 724

PREMAxx, 43 l/min, set, automatic nozzle valve ZVADB with German design approval, 24 V, DC

**PREMAxx set 230 V**

Automatic nozzle valve with German design approval, discharge hose 4 m, suction hose 1,6 m

23 734

PREMAxx, 52 l/min, set, NEF, automatic nozzle valve ZVADB with German design approval, 230 V, 1~AC, EU-plug

**PREMAxx set 12 V - 24 V**

Automatic nozzle valve, discharge hose 4 m, suction hose 1,6 m, battery terminal clips

23 717

PREMAxx, 38 l/min, set, 12 V, DC

23 727

PREMAxx, 43 l/min, set, 24 V, DC

**PREMAxx 230 V**

Automatic nozzle valve, discharge hose 4 m, suction hose 1,6 m

23 737

23 737
PREMAxx, 52 l/min, set, NEF, 230 V, 1~AC, EU-plug

23 737 932

PREMAxx, 52 l/min, set, NEF, 230 V, 1~AC, GB-plug

23 737 939

PREMAxx, 52 l/min, set, NEF, 230 V, 1~AC, CH-plug

ROTAxx diesel sets



**ROTAxx set 12 V – 24 V
Polypropylene nozzle valve manual,
discharge hose 4 m, suction hose
1,6 m, battery terminal clips**

23 911
ROTAxx, 38 l/min, set, 12 V, DC

23 921
ROTAxx, 40 l/min, set, 24 V, DC



23 912
ROTAxx, 38 l/min, set, 12 V, DC, with
in-line meter

23 922
ROTAxx, 40 l/min, set, 24 V, DC, with
in-line meter



**ROTAxx set 12 V – 24 V
Automatic nozzle valve ZVADB with
German design approval, discharge
hose 4 m, suction hose 1,6 m,
battery terminal clips**

23 914
ROTAxx, 38 l/min, set, automatic nozzle
valve ZVADB with German design
approval, 12 V, DC

23 924
ROTAxx, 40 l/min, set, automatic nozzle
valve ZVADB with German design
approval, 24 V, DC

23 915
ROTAxx, 38 l/min, set, automatic nozzle
valve ZVADB with German design
approval, 12 V, DC, with in-line meter

23 925
ROTAxx, 40 l/min, set, automatic nozzle
valve ZVADB with German design
approval, 24 V, DC, with in-line meter



**ROTAxx set 12 V – 24 V
Automatic nozzle valve, discharge
hose 4 m, suction hose 1,6 m,
battery terminal clips**

23 914
ROTAxx 38 l/min, set, 12 V-DC

23 917
ROTAxx, 38 l/min, set, 12 V, DC

23 927
ROTAxx, 40 l/min, set, 24 V, DC

23 918
OTAxx, 38 l/min, set, 12 V, DC,
with in-line meter

23 928
ROTAxx, 40 l/min, set, 24 V, DC,
with in-line meter



**ROTAxx set 230 V
Polypropylene nozzle valve manual,
discharge hose 4 m,
suction hose 1,6 m**

23 931
ROTAxx, 50 l/min, set, NEF, 230 V, 1~AC,
EU-plug

23 931 932
ROTAxx, 50 l/min, set, NEF, 230 V, 1~AC,
GB-plug

23 932
ROTAxx, 50 l/min, set, NEF, 230 V, 1~AC,
EU-plug, with in-line meter

23 932 932
ROTAxx, 50 l/min, set, NEF, 230 V, 1~AC,
GB-plug, with in-line meter



**ROTAxx set 230 V
Automatic nozzle valve, discharge
hose 4 m, suction hose 1,6 m**

23 934
ROTAxx, 50 l/min, set, NEF, automatic
nozzle valve ZVADB with German
design approval, 230 V, 1~AC, EU-plug

23 935
ROTAxx, 50 l/min, set, NEF, automatic
nozzle valve ZVADB with German
design approval, 230 V, 1~AC, EU-plug,
with in-line meter



**ROTAxx set 230 V
Automatic nozzle valve, discharge
hose 4 m, suction hose 1,6 m**

23 937
ROTAxx, 50 l/min, set, NEF, 230 V, 1~AC,
EU-plug

23 937 932
ROTAxx, 50 l/min, set, NEF, 230 V, 1~AC,
GB-plug

23 938
ROTAxx, 50 l/min, set, NEF, 230 V, 1~AC,
EU-plug, with in-line meter

23 938 932
ROTAxx, 50 l/min, set, NEF, 230 V, 1~AC,
GB-plug, with in-line meter



FMT diesel sets 230 V

**FMT 60 vane pump for diesel set 230 V**

Automatic nozzle valve ZVADB with German design approval, discharge hose 4 m, suction hose 1,6 m, 230 V, 1~AC, EU-plug

23 082

FMT vane pump for diesel set, 60 l/min.

23 082 860

FMT BIO-vane pump for diesel set, 60 l/min.

**FMT 100 vane pump for diesel set 230 V**

Automatic nozzle valve ZVADB with German design approval, discharge hose 4 m, suction hose 1,6 m, 230 V, 1~AC, EU-plug

23 084

FMT vane pump for diesel set, 100 l/min.

23 084 860

FMT BIO-vane pump for diesel set, 100 l/min.

**FMT 60 vane pump for diesel set 230 V**

Automatic nozzle valve ZVADB with German design approval, discharge hose 4 m, suction hose 1,6 m, 230 V, 1~AC, EU-plug

23 083

FMT vane pump for diesel set, 60 l/min., with mechanical hose end meter

23 083 860

FMT BIO-vane pump for diesel set, 60 l/min., with mechanical hose end meter

**FMT 100 vane pump for diesel set 230 V**

Automatic nozzle valve ZVADB with German design approval, discharge hose 4 m, suction hose 1,6 m, 230 V, 1~AC, EU-plug

23 085

FMT vane pump for diesel set, 100 l/min., with mechanical hose end meter

23 085 861

FMT BIO-vane pump for diesel set, 100 l/min., with mechanical hose end meter

**Nozzle valve storage bracket****23 174**

for all diesel pumps for barrells, tanks or wall-mounting

MOBIFlxx – MOBIMAxX diesel pump sets 12 V – 24 V



**MOBIFlxx set 12 V – 24 V
Aluminium nozzle valve manual (23171), discharge hose 4 m, suction hose 1,6 m, battery terminal clips, mobile**

23 015 MOBIFlxx vane pump for diesel set, 35 l/min, 12 V, DC

23 015 824 MOBIFlxx vane pump for diesel set, 35 l/min, 24 V, DC

23 015 861 MOBIFlxx vane pump for BIO-diesel set, Polypropylene nozzle valve manual (23171 860), 35 l/min, 24 V, DC



**MOBIFlxx set 12 V – 24 V
Automatic nozzle valve (23 168) with German design approval, discharge hose 4 m, suction hose 1,6 m, battery terminal clips, mobile**

23 006 MOBIFlxx vane pump for diesel set, automatic nozzle valve (23 168) with German design approval, 35 l/min, 12 V, DC

23 006 824 MOBIFlxx vane pump for diesel set, automatic nozzle valve (23 168) with German design approval, 35 l/min, 24 V, DC

23 006 861 MOBIFlxx vane pump for BIO-diesel set, automatic nozzle valve (23168 860) with German design approval, 35 l/min, 24 V, DC



**MOBIFlxx set 12 V – 24 V
Automatic nozzle valve (23 176), discharge hose 4 m, suction hose 1,6 m, battery terminal clips, for barrels or tanks**

23 090 MOBIFlxx vane pump for diesel set, 35 l/min, 12 V, DC

23 086 MOBIFlxx vane pump for diesel set, 35 l/min, 24 V, DC



**MOBIFlxx set 12 V – 24 V
Automatic nozzle valve (23 176), discharge hose 4 m, suction hose 1,6 m, battery terminal clips, for barrels or tanks**

23 091 MOBIFlxx vane pump for diesel set, 35 l/min, 12 V, DC, with in-line meter NUMERlxx³

23 087 MOBIFlxx vane pump for diesel set, 35 l/min, 24 V, DC, with in-line meter NUMERlxx³



**MOBIMAxX set 12 V – 24 V
Aluminium nozzle valve manual (23171), discharge hose 4 m, suction hose 1,6 m, battery terminal clips, mobile**

23 009

MOBIMAxX vane pump for diesel set, 60 l/min, 12 V, DC

23 009 824

MOBIMAxX vane pump for diesel set, 60 l/min, 24 V, DC



**MOBIMAxX set 12 V – 24 V
Automatic nozzle valve (23 168) with German design approval, discharge hose 4 m, suction hose 1,6 m, battery terminal clips, mobile**

23 007

MOBIMAxX vane pump for diesel set, 60 l/min, 12 V, DC,

23 007 824

MOBIMAxX vane pump for diesel set, 60 l/min, 24 V, DC,



**MOBIMAxX set 12 V – 24 V
Automatic nozzle valve (23 176) with German design approval, discharge hose 4 m, suction hose 1,6 m, battery terminal clips, for barrels or tanks**

23 092

MOBIMAxX vane pump for diesel set, 60 l/min, 12 V, DC

23 088

MOBIMAxX vane pump for diesel set, 60 l/min, 24 V, DC



**MOBIMAxX set 12 V – 24 V
Automatic nozzle valve (23 176) with German design approval, discharge hose 4 m, suction hose 1,6 m, battery terminal clips, for barrels or tanks**

23 093

MOBIMAxX vane pump for diesel set, 60 l/min, 12 V, DC, with in-line meter NUMERlxx³

23 089

MOBIMAxX vane pump for diesel set, 60 l/min, 24 V, DC, with in-line meter NUMERlxx³

FMT diesel sets 230 V for wall-mounting

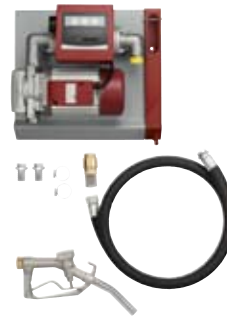

FMT vane pump for diesel set 230V for wall-mounting or tanks, EU-plug, in-line meter NUMERlxx³

23 014 60 l/min, Polypropylene nozzle valve manual (23171), discharge hose 4 m

23 014 398 60 l/min, Polypropylene nozzle valve manual (23171), discharge hose 6 m

23 014 860 60 l/min, BIO-diesel, Polypropylene nozzle valve manual (23171 860), discharge hose 4 m

23 014 330 60 l/min, BIO-diesel, Polypropylene nozzle valve manual (23171 860), discharge hose 6 m


FMT vane pump for diesel set 230V, Polypropylene nozzle valve manual (23 171), for wall-mounting or tanks, in-line meter NUMERlxx³

23 017

100 l/min, 230 V, EU-plug, discharge hose 4 m

23 017 398

100 l/min, 230 V, EU-plug, discharge hose 6 m


FMT vane pump for diesel set 230V standard for wall-mounting or tanks, Polypropylene nozzle valve manual (23 171), in-line meter NUMERlxx³, Hydrosorbfilter (23 209)

23 014 955 60 l/min, 230 V, EU-plug, discharge hose 4 m

23 014 396 60 l/min, 230 V, EU-plug, discharge hose 6 m


FMT vane pump for diesel set 230V Polypropylene nozzle valve manual (23 171), for wall-mounting or tanks, in-line meter NUMERlxx³, Hydrosorbfilter (23 209)

23 017 955 100 l/min, 230 V, EU-plug, discharge hose 4 m

23 017 392 100 l/min, 230 V, EU-plug, discharge hose 6 m


FMT vane pump for diesel set 230V for wall-mounting or tanks, in-line meter NUMERlxx³

23 014 951 60 l/min, 230 V, EU-plug, automatic nozzle valve (23 168), discharge hose 4 m

23 014 390 60 l/min, 230 V, EU-plug, automatic nozzle valve (23 168), discharge hose 6 m

23 014 851 60 l/min, BIO-diesel, 230 V, EU-plug, automatic nozzle valve (23 168 860), discharge hose 4 m

23 014 331 60 l/min, BIO-diesel, 230 V, EU-plug, automatic nozzle valve (23 168 860), discharge hose 6 m


FMT vane pump for diesel set 230V automatic for wall-mounting or tanks, in-line meter NUMERlxx³

23 017 953

100 l/min, 230 V, EU-plug, automatic nozzle valve (23 160) with German design approval, discharge hose 4 m

23 017 390

100 l/min, 230 V, EU-plug, automatic nozzle valve (23 160), discharge hose 6 m


FMT vane pump for diesel set 230V, automatic nozzle valve, for wall-mounting or tanks, in-line meter NUMERlxx³, Hydrosorbfilter (23 209)

23 014 957

60 l/min, 230 V, EU-plug, automatic nozzle valve (23 168), discharge hose 4 m

23 014 397

60 l/min, 230 V, EU-plug, automatic nozzle valve (23 176), discharge hose 6 m


FMT vane pump for diesel set 230V automatic for wall-mounting or tanks, in-line meter NUMERlxx³, Hydrosorbfilter (23 209)

23 014 959

100 l/min, 230 V, EU-plug, automatic nozzle valve (23 160) with German design approval, discharge hose 4 m

23 017 393

100 l/min, 230 V, EU-plug, automatic nozzle valve (23 178), discharge hose 6 m

DIESELfixx – DIESELMAxx



DIESELfixx vane pump for diesel set with stable metal housing

for wall-mounting or tanks, in-line meter NUMERlxx³

23 080

DIESELfixx 60 l/min, 230 V, 1~AC, 50 Hz, EU-plug, discharge hose 6 m, in-line meter (mechanical)

23 460

DIESELfixx 60 l/min, 230 V, 1~AC, 50 Hz, EU-plug, discharge hose 4 m, automatic nozzle valve ZVADB with German design approval, in-line meter (mechanical)



DIESELMAxx vane pump for diesel set with stable metal housing

for wall-mounting or tanks, in-line meter NUMERlxx³

23 470

DIESELMAxx 100 l/min, 230 V, 1~AC, 50 Hz, EU-plug, discharge hose 6 m, automatic nozzle valve, in-line meter (mechanical)

23 480

DIESELMAxx 100 l/min, 230 V, 1~AC, 50 Hz, EU-plug, discharge hose 4 m, automatic nozzle valve ZVADB with German design approval, in-line meter (mechanical)



DIESELfixx vane pump for diesel set with stable metal housing

for wall-mounting or tanks, in-line meter NUMERlxx³, Hydrosorb filter (23209)

23 452

DIESELfixx 60 l/min, 230 V, 1~AC, 50 Hz, EU-plug, discharge hose 6 m, automatic nozzle valve, in-line meter (mechanical), water filter

23 462

DIESELfixx 60 l/min, 230 V, 1~AC, 50 Hz, EU-plug, discharge hose 4 m, automatic nozzle valve ZVADB with German design approval, in-line meter (mechanical), Hydrosorb filter (23209)



DIESELMAxx vane pump for diesel set with stable metal housing

for wall-mounting or tanks, in-line meter NUMERlxx³, Hydrosorb filter (23209)

23 472

DIESELMAxx 100 l/min, 230 V, 1~AC, 50 Hz, EU-plug, discharge hose 6 m, automatic nozzle valve, in-line meter (mechanical), Hydrosorb filter (23209)

23 482

DIESELMAxx 100 l/min, 230 V, 1~AC, 50 Hz, EU-plug, discharge hose 4 m, automatic nozzle valve ZVADB with German design approval, in-line meter (mechanical), Hydrosorb filter (23209)



23 070 001

Pedestal for DIESELfixx/DIESELMAxx

Oil supply tank stations - 750 l, 1000 l, 1500 l, with 230 V electric diesel pumps

double walled, steel galvanized



23 000 734

PREMAxx diesel supply station 1000 l, automatic nozzle valve ZVADB with German design approval, NEF, 230 V, 52 l/min, discharge hose 4 m

23 000 735

PREMAxx diesel supply station 1000 l, automatic nozzle valve ZVADB with German design approval, NEF, 230 V, 52 l/min, discharge hose 4 m, in-line meter (digital)



23 000 736

ROTAxx diesel supply station 1000 l, automatic nozzle valve ZVADB with German design approval, NEF, 230 V, 50 l/min, discharge hose 4 m

23 000 737

ROTAxx diesel supply station 1000 l, automatic nozzle valve ZVADB with German design approval, NEF, 230 V, 50 l/min, discharge hose 4 m, in-line meter (mechanical)



23 062

diesel supply station, 1000 l, automatic nozzle valve ZVADB with German design approval, 230 V, 60 l/min, discharge hose 4 m

23 060

diesel supply station, 1000 l, automatic nozzle valve ZVADB with German design approval, 230 V, 60 l/min, discharge hose 4 m, in-line meter (mechanical)



23 063

diesel supply station, 750 l, automatic nozzle valve ZVADB with German design approval, 230 V, 60 l/min, discharge hose 4 m

23 061

diesel supply station, 750 l, automatic nozzle valve ZVADB with German design approval, 230 V, 60 l/min, discharge hose 4 m, in-line meter (mechanical)



23 003 397

diesel supply station, 1000 l, automatic nozzle valve, 230 V, 60 l/min, discharge hose 6 m, with integral water filter – completely assembled on a mounting plate



23 003 400

diesel supply station, 1500 l, automatic nozzle valve, 230 V, 60 l/min, discharge hose 6 m, with integral water filter – completely assembled in a stable pump housing



23 004 397

DIESELFlxx supply station, 1000 l, automatic nozzle valve, 230 V, 60 l/min, discharge hose 6 m, with integral water filter – completely assembled on a mounting plate



23 004 400

DIESELFlxx supply station, 1500 l, automatic nozzle valve, 230 V, 60 l/min, discharge hose 6 m, with integral water filter – completely assembled in a stable pump housing

Quality that leads

**Absolute safe re-filling.
With UN/ADR approval!**



mobifITT



mobIMASTER[®]



Mobile refuelling tank *mobIMASTER* with ADR and TÜV certificate



mobIMASTER 450 acc. to German govt. regulation, with automatic shut-off control valve

26 420 *mobIMASTER* 450 l, mobile polyethylene tank with accessories, 35 l, 12 V

26 421 *mobIMASTER* 450 l, mobile polyethylene tank with accessories, 35 l, 24 V

26 422 *mobIMASTER* 450 l, mobile polyethylene tank with accessories, 60 l, 12 V

26 423 *mobIMASTER* 450 l, mobile polyethylene tank with accessories, 60 l, 24 V

26 424 *mobIMASTER* 450 l, mobile polyethylene tank with accessories, 60 l, 230 V



mobIMASTER 450 with automatic shut-off control valve

26 400 *mobIMASTER* 450 l, mobile polyethylene tank with accessories, 35 l, 12 V, automatic shut-off control valve

26 401 *mobIMASTER* 450 l, mobile polyethylene tank with accessories, 35 l, 24 V, automatic shut-off control valve

26 402 *mobIMASTER* 450 l, mobile polyethylene tank with accessories, 60 l, 12 V, automatic shut-off control valve

26 403 *mobIMASTER* 450 l, mobile polyethylene tank with accessories, 60 l, 24 V, automatic shut-off control valve

26 404 *mobIMASTER* 450 l, mobile polyethylene tank with accessories, 60 l, 230 V, automatic shut-off control valve



mobIMASTER 450 with automatic shut-off control valve acc. to German govt. regulation and digital in-line meter

26 430 *mobIMASTER* 450 l, mobile polyethylene tank with accessories, 35 l, 12 V

26 431 *mobIMASTER* 450 l, mobile polyethylene tank with accessories, 35 l, 24 V

26 432 *mobIMASTER* 450 l, mobile polyethylene tank with accessories, 60 l, 12 V

26 433 *mobIMASTER* 450 l, mobile polyethylene tank with accessories, 60 l, 24 V

26 434 *mobIMASTER* 450 l, mobile polyethylene tank with accessories, 60 l, 230 V



mobIMASTER 450 with automatic shut-off control valve, with digital in-line meter

26 410

mobIMASTER 450 l, mobile polyethylene tank with accessories, 35 l, 12 V

26 411

mobIMASTER 450 l, mobile polyethylene tank with accessories, 35 l, 24 V

26 412

mobIMASTER 450 l, mobile polyethylene tank with accessories, 60 l, 12 V,

26 413

mobIMASTER 450 l, mobile polyethylene tank with accessories, 60 l, 24 V

26 414

mobIMASTER 450 l, mobile polyethylene tank with accessories, 60 l, 230 V



mobIMASTER 450

45 314

mobIMASTER 450 l, Mobile tank

84 343

Cover for *mobIMASTER*, red

45 489

Cover for *mobIFITT*

89 837

Filling valve for *mobIMASTER/mobIFITT*



04 402

04 402
Spiral level indicator for *mobIMASTER*

45 140

Vent for *mobIMASTER/mobIFITT*

89 823

Shackle for *mobIMASTER/mobIFITT*

89 836

Lock for *mobIMASTER/mobIFITT*

Mobile refuelling tanks – *mobifITT* with ADR and TÜV certificate



***mobifITT* 125**
with automatic nozzle valve ZVADB,
automatic control valve (German
approval), discharge hose 4 m

26 450 *mobifITT* 125 l, mobile
polyethylene tank with accessories ,
35 l, 12 V



26 451 *mobifITT* 125 l, mobile
polyethylene tank with accessories ,
35 l, 24 V,

26 455 *mobifITT* 125 l, mobile
polyethylene tank with accessories ,
35 l, 12 V, hose end meter, digital

26 456 *mobifITT* 125 l, mobile
polyethylene tank with accessories ,
35 l, 24 V, hose end meter, digital



***mobifITT* 125**
automatic nozzle valve ZVADB,
discharge hose 4 m

26 440 *mobifITT* 125 l, mobile
polyethylene tank with accessories ,
35 l, 12 V,



26 441 *mobifITT* 125 l, mobile
polyethylene tank with accessories ,
35 l, 24 V

26 445 *mobifITT* 125 l, mobile
polyethylene tank with accessories ,
35 l, 12 V, hose end meter, digital

26 446 *mobifITT* 125 l, mobile
polyethylene tank with accessories ,
35 l, 24 V, hose end meter, digital



***mobifITT* 200**
with automatic nozzle valve ZVADB,
automatic control valve (German
approval), discharge hose 4 m

26 470 *mobifITT* 200 l, mobile
polyethylene tank with accessories ,
35 l, 12 V,



26 471 *mobifITT* 200 l, mobile
polyethylene tank with accessories ,
35 l, 24 V

26 475 *mobifITT* 200 l, mobile
polyethylene tank with accessories ,
35 l, 12 V, hose end meter, digital

26 476 *mobifITT* 200 l, mobile
polyethylene tank with accessories ,
35 l, 24 V, hose end meter, digital



***mobifITT* 200**
with automatic nozzle valve ZVADB,
discharge hose 4 m

26 460 *mobifITT* 200 l, mobile
polyethylene tank with accessories ,
35 l, 12 V

26 461 *mobifITT* 200 l, mobile
polyethylene tank with accessories ,
35 l, 24 V



26 465 *mobifITT* 200 l, mobile
polyethylene tank with accessories ,
35 l, 12 V, hose end meter, digital

26 466 *mobifITT* 200 l, mobile
polyethylene tank with accessories ,
35 l, 24 V, hose end meter, digital



***mobifITT* 300**
with automatic nozzle valve ZVADB,
automatic control valve (German
approval), discharge hose 4 m

26 490 *mobifITT* 300 l, mobile
polyethylene tank with accessories ,
35 l, 12 V,



26 491 *mobifITT* 300 l, mobile
polyethylene tank with accessories ,
35 l, 24 V

26 495 *mobifITT* 300 l, mobile
polyethylene tank with accessories ,
35 l, 12 V, hose end meter, digital

26 496 *mobifITT* 300 l, mobile
polyethylene tank with accessories ,
35 l, 24 V, hose end meter, digital



***mobifITT* 300**
with automatic nozzle valve ZVADB,
discharge hose 4 m

26 480 *mobifITT* 300 l, mobile
polyethylene tank with accessories ,
35 l, 12 V,

26 481 *mobifITT* 300 l, mobile
polyethylene tank with accessories ,
35 l, 24 V



26 485 *mobifITT* 300 l, mobile
polyethylene tank with accessories ,
35 l, 12 V, hose end meter, digital

26 486 *mobifITT* 300 l, mobile
polyethylene tank with accessories ,
35 l, 24 V, hose end meter, digital

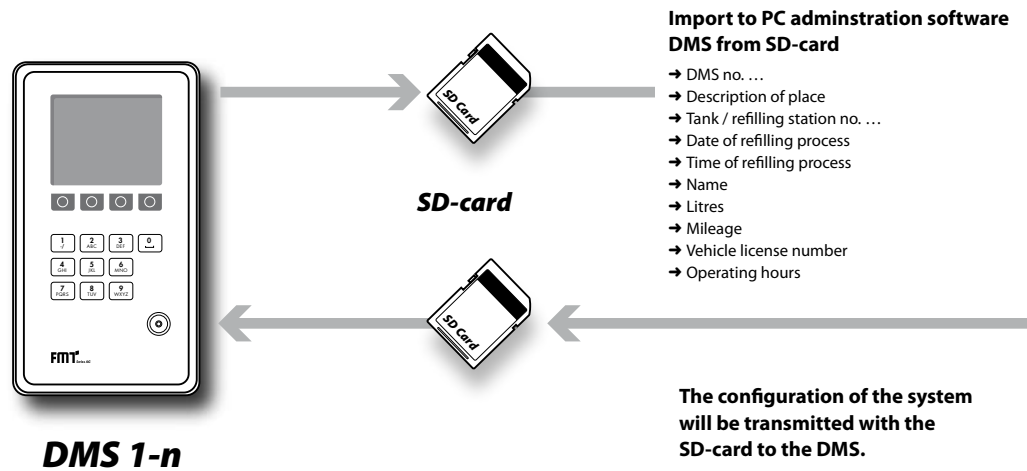
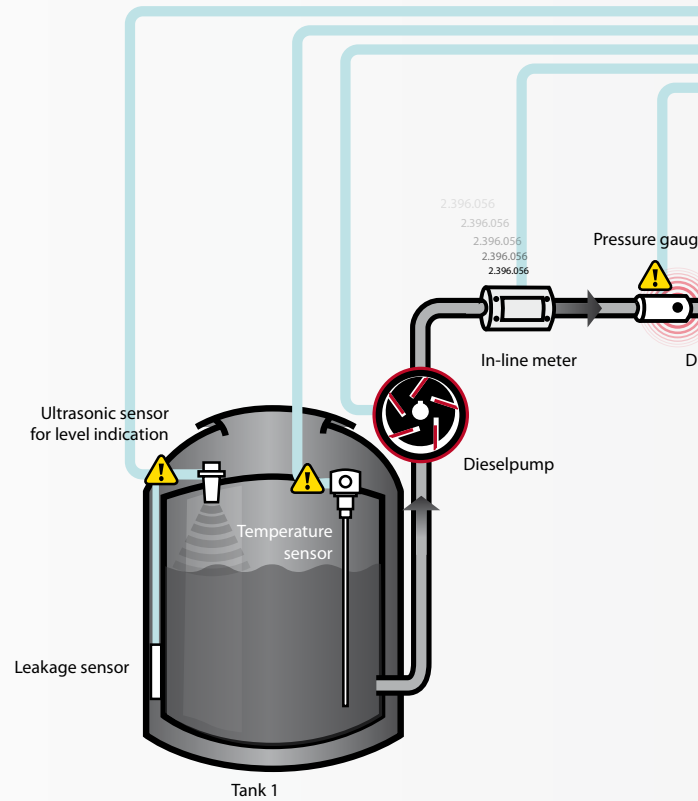
DMS *DieselManagementSystem*



FMT [■] Swiss AG

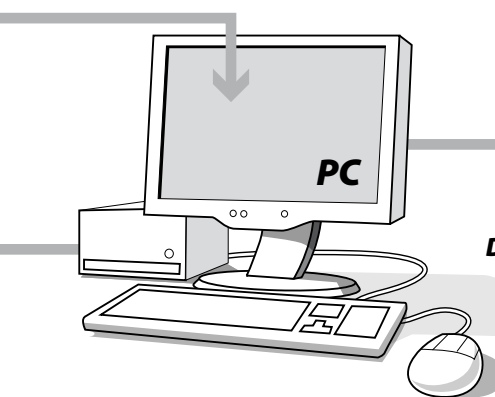
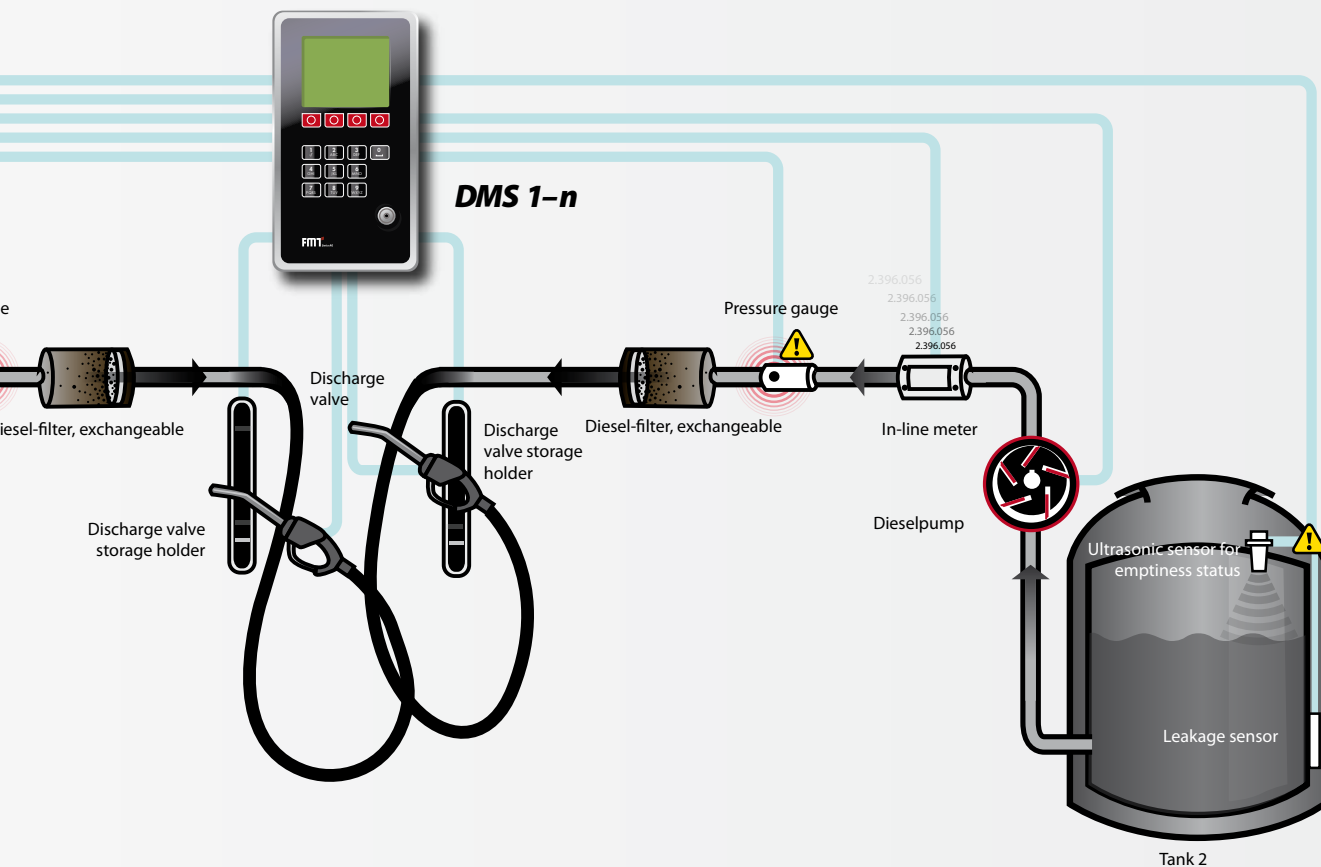
General survey DMS

DieselManagementSystem



Data-flow DMS

DieselManagementSystem



Printer

Data storage

Reporting

- Choice 1
- Choice 2
- Choice 3
- Choice 4
- Choice 5
- Result indication 1
- Result indication 2
- Result indication 3
- Result indication 4
- Result indication 5
- Result indication 6
- Result indication 7
- Result indication 8
- Result indication 9
- Result indication 10
- Result indication 11
- Result indication 12
- Result indication 13

- specific time period
- name of refuelling person
- vehicle license number
- DMS 1 ... n
- tank / refilling station
- date
- time
- DMS no.
- tank
- description of Tank (optional)
- fuel type (optional)
- mileage (optional)
- operating hours (optional)
- name
- vehicle license number
- vehicle description (optional)
- litres
- fuel price (optional)

The configuration of the system will be generated on a PC and stored on the SD-card

- Names of users
- Configuration of i-button ident
- Assignment of the i-button ident to a user
- Correlation of the i-button to a vehicle
- Correlation of a fueltype to a price
- Number of permitted input failures (PIN)
- Time-out after permitted input failures (min)
- Time between refuelling and non-operative time (sec)
- Configuration of user pass-words
- Type of user, user oriented
- Classification of vehicles, user oriented
- Description of vehicles
- Classification of refilling station = tank, user oriented
- Description of refilling station = tank
- Minimum refilling level for empty tank 1
- Volume calibration = tank 1
- Volume adjustments
- Language
- Charakter set
- Mileage input yes/no, user oriented
- Input of operating hours yes/no user oriented
- Max. refuelling volume, all users
- Pressure = refilling station 1: yes/no
- Pressure = refilling station 1 = DMS 1: maximum pressure
- Pressure = refilling station 1 = DMS 1: minimum pressure
- Pressure = refilling station 1 = DMS 1: pressure threshold
- Liquid level tank 1: yes/no = DMS 1

- Integral leakage sensor: yes/no = DMS 1 = tank 1
- Leakage: yes/no = DMS 1 = tank 1
- Pressure = refilling station 2 = DMS 1: pressure threshold
- Tank empty = tank 2 = DMS 1
- Tank leakage = tank 2 = DMS 1
- Temperature of tank 1: yes/no = DMS 1
- Temperature of tank 1: min = DMS 1
- Temperature of tank 1: max = DMS 1
- Temperature of tank 1: threshold = DMS 1
- DMS heating switch-on at (°C)
- DMS heating switch-off at (°C)
- Background illumination (min)
- Time delay of pump operation (sec)
- Liquid-flow check time (sec)

- optional
- optional
- optional
- optional
- optional
- optional
- optional

- meterered
- optional
- optional
- optional
- optional
- optional

DMS Dieselmanagement systems: DMS for wall and tank mounting



23 505

DMS diesel management system (hardware and software)



DMS diesel management system for wall-mounting or tanks

23 446

vane pump for diesel set for wall-mounting, 100 l/min, with DMS electronic diesel management system, 230 V, EU-plug, discharge hose 6 m, automatic

23 448

vane pump for diesel set for wall-mounting, 100 l/min, with DMS electronic diesel management system, 230 V, EU-plug, discharge hose 4 m, automatic nozzle valve ZVADB with German design approval



DMS diesel management system for wall-mounting or tanks

23 441

vane pump for diesel set for wall-mounting, 60 l/min, with DMS electronic diesel management system, 230 V, EU-plug, discharge hose 6 m, automatic

23 443

vane pump for diesel set for wall-mounting, 60 l/min, with DMS electronic diesel management system, 230 V, EU-plug, discharge hose 4 m, automatic nozzle valve ZVADB with German design approval



DMS diesel management system for wall-mounting or tanks, Hydrosorbfilter (23 209)

23 447

vane pump for diesel set for wall-mounting, 100 l/min, with DMS electronic diesel management system, 230 V, EU-plug, discharge hose 6 m, automatic nozzle valve, filter

23 449

vane pump for diesel set for wall-mounting, 100 l/min, with DMS electronic diesel management system, 230 V, EU-plug, discharge hose 4 m, automatic nozzle valve ZVADB with German design approval, filter



DMS diesel management system for wall-mounting or tanks, Hydrosorb water filter

23 442

vane pump for diesel set for wall-mounting, 60 l/min, with DMS electronic diesel management system, 230 V, EU-plug, discharge hose 6 m, automatic nozzle valve, filter

23 444

vane pump for diesel set for wall-mounting, 60 l/min, with DMS electronic diesel management system, 230 V, EU-plug, discharge hose 4 m, automatic nozzle valve ZVADB with German design approval, filter

DMS Dieselmanagement Systems: DMS DIESELFlxx – DIESELMAxx

**23 505**

DMS diesel management system
(hardware and software)

**DMS diesel management system****DIESELMAxx****23 474**

DIESELMAxx for wall-mounting,
100 l/min, with DMS electronic diesel
management system, 230 V, EU-plug,
discharge hose 6 m, automatic

23 484

DIESELMAxx for wall-mounting, 100
l/min, with DMS electronic diesel
management system, 230 V, EU-plug,
discharge hose 4 m, with automatic
control valve (German approval)

**DMS diesel management system****DIESELFlxx****23 454**

DIESELFlxx for wall-mounting, 60 l/
min, with DMS electronic diesel
management system, 230 V, EU-plug,
discharge hose 6 m, automatic

23 464

DIESELFlxx for wall-mounting, 60 l/
min, with DMS electronic diesel
management system, 230 V, EU-plug,
discharge hose 4 m, with automatic
control valve (German approval)

**DMS diesel management system****DIESELMAxx, Hydrosorb filter
(23 209)****23 476**

DIESELMAxx for wall-mounting, 100
l/min, with DMS electronic diesel
management system, 230 V, EU-plug,
discharge hose 6 m, automatic nozzle
valve, filter

23 486

DIESELMAxx for wall-mounting, 100
l/min, with DMS electronic diesel
management system, 230 V, EU-plug,
discharge hose 4 m, with automatic
control valve (German approval), filter

**DMS diesel management system****DIESELFlxx, Hydrosorb filter
(23 209)****23 456**

DIESELFlxx for wall-mounting, 60 l/
min, with DMS electronic diesel
management system, 230 V, EU-plug,
discharge hose 6 m, automatic nozzle
valve, filter

23 466

DIESELFlxx for wall-mounting, 60 l/
min, with DMS electronic diesel
management system, 230 V, EU-plug,
discharge hose 4 m, with automatic
control valve (German approval), filter

**FMT Oval gear meters for DMS
diesel management system****23 067**

FMT Oval gear meter for low-viscosity
liquids, digital, ALU, G 1" i, max. 60 l/
min

23 058

FMT Oval gear meter for low-viscosity
liquids, digital, ALU, G 1" i, max. 100 l/
min

23 059

FMT Oval gear meter for low-viscosity
liquids, digital, ALU, G 1½" i, max. 150
l/min

Accessories for DMS Dieselmanagement Systems



23 069

iButton for user – black
Set for 10 user



23 066

Nozzle support DMS
With on-off witch



83 410

iButton reader



23 070 001

Pedestal for DIESELfixx/DIESELMAXx



23 065

Level indicator DMS



23 068

Level indicator and bund alert for DMS



83 411

Connection cable, 2 x 0,75mm, 3m

Accessories for diesel pumps

**PREMAxx discharge hoses**

23 144 PREMAxx discharge hose for diesel, 4 m, G 1" a, G 1" i, DN 19

23 145 PREMAxx discharge hose for diesel, 6 m, G 1" a, G 1" i, DN 19

23 146 PREMAxx discharge hose for diesel, 10 m, G 1" a, G 1" i, DN 19

**FMT discharge hoses for diesel**

23 155 957 discharge hose for diesel, 4 m, G 1" a, G 1" i, DN 19

23 155 958 discharge hose for diesel, 6 m, G 1" a, G 1" i, DN 19

23 157 957 discharge hose for diesel, 10 m, G 1" a, G 1" i, DN 19

23 155 950 discharge hose for diesel, 4 m, G 1" a, G 1" i, DN 25

23 155 956 discharge hose for diesel, 6 m, G 1" a, G 1" i, DN 25

23 157 950 discharge hose for diesel, 10 m, G 1" a, G 1" i, DN 25

**FMT discharge hoses for diesel**

23 156 discharge hose for diesel, G 1" a, G 1" i, l = 1,6 m, DN 25

23 158 959 discharge hose for diesel, G 1" a, G 1" i, l = 2 m, DN 25

23 158 950 discharge hose for diesel, G 1" a, l = 2 m, DN 25, with filter and foot valve

**Suction tubes for diesel and rape-oil pumps**

23 177 Suction tube for diesel and rape-oil pumps, G 1" i, G 2" a, SRL860, for 200 l container

23 177 953 Suction tube for diesel and rape-oil pumps, G 1" i, G 2" a, SRL 1250, for tanks

23 177 950 Suction tube for diesel and rape-oil pumps, G 1" i, G 2" a, SRL 1600, for tanks

23 177 955 Suction tube for diesel and rape-oil pumps, G 1" i, G 2" a, SRL 1650, for tanks

23 177 952 Suction tube for diesel and rape-oil pumps, G 1" i, G 2" a, SRL 2100, for tanks

23 177 954 Suction set for diesel and rape-oil pumps, G 1" i, G 2" a, for tanks, suction tube SRL 1600/ suction hose 1,6 m, 2,0 m

**ROTAxx discharge hoses**

23 147 ROTAxx discharge hose for diesel, 4 m, G 1" a, G 3/4" a, DN 20

23 148 ROTAxx discharge hose for diesel, 6 m, G 1" a, G 3/4" a, DN 20

23 149 ROTAxx discharge hose for diesel, 10 m, G 1" a, G 3/4" a, DN 20

**FMT BIO discharge hoses for diesel****23 155 857**

discharge hose for BIO-diesel, 4 m, G 1" a, G 1" i, DN 19

23 155 858

discharge hose for BIO-diesel, 6 m, G 1" a, G 1" i, DN 19

23 155 850

discharge hose for BIO-diesel, 4 m, G 1" a, G 1" i, DN 25

23 155 856

discharge hose for BIO-diesel, 6 m, G 1" a, G 1" i, DN 25

**FMT BIO discharge hoses for diesel****23 156 860**

BIO-discharge hose for diesel, G 1" a, G 1" i, l = 1,6 m, DN 25

23 158 859

BIO-discharge hose for diesel, G 1" a, G 1" i, l = 2 m, DN 25

Suction accessoires**23 180**

Suction strainer, G 1" a

23 200

foot valve with filter G 1" i

23 198

Plastic in-line filter, G 1" i

**19 890**

two-piece assembly kit for vane pump for diesel, two-piece assembly kit, foot valve (19 892) and strainer (23 180) for (23 158 959)

19 892

foot valve G 1" i, G 1" i

Accessories for diesel pumps



23 287

PREMAxx in-line meter, digital, NEF, vane, G 1" i, G 1" a



23 193

NUMERlxx³ G 1" i, in-line meter, mechanical, three digits, for diesel

23 193 860

NUMERlxx³ G 1" i, in-line meter, mechanical,



19 692

FMT diesel in-line meter, digital, ALU, G 1" i, max. 60 l/min

19 693

FMT diesel in-line meter, digital, ALU, G 1" i, max. 100 l/min

19 694

FMT diesel in-line meter, digital, ALU, G 1½" i, max. 150 l/min



19 623

swivel joint, G 3/4" a, G 1" i – for vane pump for diesel

19 623 860

swivel joint, G 3/4" a, G 1" i – for vane pump for BIO-diesel

19 624

swivel joint, G 1" a, G 1" i – for vane pump for diesel

19 624 860

swivel joint, G 1" a, G 1" i – for vane pump for BIO-diesel



19 514

Drum adapter G 2" a to G 1" a for Art. Nr. (23 082), (23 083), (23 084), (23 085), (23 088), (23 089), (23 092), (23 093)



23 183

plastic adapter, G 3/4" a, Ø 20 mm a

23 185

plastic adapter, G 3/4" a, Ø 25 mm a

23 187

plastic adapter, G 1" a, Ø 20 mm a

23 189

plastic adapter, G 1" a, Ø 25 mm a



23 161

nozzle valve for diesel G 1" i, 80 l/min, polypropylen



23 171

nozzle valve for diesel G 1" i, 100 l/min, aluminium

23 171 860

nozzle valve for BIO-diesel G 1" i, 100 l/min, aluminium



23 176

automatic nozzle valve, for diesel, G 1" i, 60 l/min, aluminium

23 176 860

automatic nozzle valve, for BIO-diesel, G 1" i, 60 l/min, aluminium



23 168

automatic shut-off control valve, diesel, 60 l/min, aluminium, acc. to German govt. regulation

23 168 860

automatic shut-off control valve, BIO-diesel, 60 l/min, aluminium, acc. to German govt. regulation



23 178

automatic nozzle valve, for diesel, G 1" i, 120 l/min, aluminium

23 160

automatic shut-off control valve, diesel, 120 l/min, aluminium, acc. to German govt. regulation



23 161 878

stainless steel nozzle valve for AdBlue, G 1" i, 80 l/min, Polypropylen

23 171 960

automatic nozzle valve, for AdBlue, G 1" i, 60 l/min, Edelstahl



23 290

Diesel in-line filter, 10 µm, 60 l/min, G 1" (12 UNF) i

23 209

Diesel in-line filter, 330 µm-100 l/min, G 1 1/2" (12 UNF) i



Product features hose reels for air / water

- 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 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 reel accessories, blow guns, compressed air accessories



29 442 Hose reel, water/air, open, for wall/floor mounting, 20 bar, DN 10, 10 m

29 443 Hose reel, water/air, open, for wall/floor mounting, 20 bar, DN 10, 15 m

29 542 Hose reel, cooling liquid, open, for wall/floor mounting, 120 bar, DN 12, 10 m

29 543 Hose reel, cooling liquid, open, for wall/floor mounting, 120 bar, DN 12, 15 m



29 452 Hose reel, water/air, open, for mounting on ceilings, 20 bar, DN 10, 10 m

29 453 Hose reel, water/air, open, for mounting on ceilings, 20 bar, DN 10, 15 m

29 552 Hose reel, cooling liquid, open, for mounting on ceilings, 120 bar, DN 12, 10 m

29 553 Hose reel, cooling liquid, open, for mounting on ceilings, 120 bar, DN 12, 15 m



29 462 Hose reel, water/air, encased, GDI, for wall/floor mounting, 20 bar, DN 10, 10 m

29 463 Hose reel, water/air, encased, GDI, for wall/floor mounting, 20 bar, DN 10, 15 m

29 562 Hose reel, cooling liquid, encased, GDI, for wall/floor mounting, 120 bar, DN 12, 10 m

29 563 Hose reel, cooling liquid, encased, GDI, for wall/floor mounting, 120 bar, DN 12, 15 m



29 482 Hose reel, water/air, encased, GDI, for mounting on ceilings, 20 bar, DN 10, 10 m

29 483 Hose reel, water/air, encased, GDI, for mounting on ceilings, 20 bar, DN 10, 15 m

29 582 Hose reel, cooling liquid, encased, GDI, for mounting on ceilings, 120 bar, DN 12, 10 m

29 583 Hose reel, cooling liquid, encased, GDI, for mounting on ceilings, 120 bar, DN 12, 15 m



29 472 Hose reel, water/air, encased, GDA, for wall/floor mounting, 20 bar, DN 10, 10 m

29 473 Hose reel, water/air, encased, GDA, for wall/floor mounting, 20 bar, DN 10, 15 m

29 572 Hose reel, cooling liquid, encased, GDA, for wall/floor mounting, 120 bar, DN 12, 10 m

29 573 Hose reel, cooling liquid, encased, GDA, WB, 120 bar, DN 12, 15 m



29 492 Hose reel, water/air, encased, GDA, for mounting on ceilings, 20 bar, DN 10, 10 m

29 493 Hose reel, water/air, encased, GDA, for mounting on ceilings, 20 bar, DN 10, 15 m

29 592 Hose reel, cooling liquid, encased, GDA, for mounting on ceilings, 120 bar, DN 12, 10 m

29 593 Hose reel, cooling liquid, encased, GDA, for mounting on ceilings, 120 bar, DN 12, 15 m

Hose reel accessories, blow guns, compressed air accessories

**29 036**

29 036
Hose reel, air pressure, encased, GDA,
WD, 15 bar, DN 8, 16 m

**29 940**

Angle mounting bracket for hose reel
instalation

**29 930**

Wall-mounting swivel bracket for hose
reels, rotating swivel, 90°

**20 233**

Blow gun, Aluminium, short nozzle

**20 235**

Blow gun, plastic, pipe, length = 105
mm, with male release adapter

235 950

Blow gun, plastic, pipe, length = 105
mm, G 1/4" i

**20 218**

Air maintenance unit
G 1/4" f - G 1/4" f

20 062

Male quick connecting adapter,
G 1/4" a, for Rectus coupling type 26

20 112

Double nipple, G 1/4" a, G 1/4" a

**29 977**

Hose stop 3/8"

**29 980**

Control gun and meter storage rack, for
one control gun

29 981

Control gun and meter storage rack, for
two control guns

**20 240**

Compressed air spray nozzle, 1 l
container

**20 250**

Water gun with regulating wheel,
G 3/8" i

20 251

Adapter, SW 24, for (20 250) R 3/8" a,
G 1/2" a

**20 218 950**

Air maintenance unit, complete set

Hose reel accessories, blow guns, compressed air accessories



20 913

Compressed air discharge hose, 5 m, G 3/8" i, G 3/8" a

20 914

Compressed air discharge hose, 8 m, G 3/8" i, G 3/8" a

20 915

Compressed air discharge hose, 10 m, G 3/8" i, G 3/8" a

20 917

Compressed air discharge hose, 15 m, G 3/8" i, G 3/8" a



20 185

Coiled hose 5, with connections Rectus type 26



20 022

Connecting coupler Rectus, type 26, G 1/4" i, SW 22

20 024

Connecting coupler Rectus, type 26, G 3/8" i, SW 22

20 026

Connecting coupler Rectus, type 26, G 1/2" i, SW 24



20 073

Male air line connector 6 mm a, for Rectus coupling type 26

20 075

Male air line connector 9 mm a, for Rectus coupling type 26

20 077

Male air line connector 13 mm a, for Rectus coupling type 26



20 032

Connecting coupler Rectus, type 26, G 1/4" a, SW 22

20 034

Connecting coupler Rectus, type 26, G 3/8" a, SW 22

20 036

Connecting coupler Rectus, type 26, G 1/2" a, SW 24



20 062

Male quick connecting adapter, G 1/4" a, for Rectus coupling type 26

20 064

Male quick connecting adapter, G 3/8" a, for Rectus coupling type 26

20 066

Male quick connecting adapter, G 1/2" a, for Rectus coupling type 26



20 043

Connecting coupler Rectus, type 26, connection 6 mm a

20 045

Connecting coupler Rectus, type 26, connection 9 mm a



20 052

Male quick connecting adapter, G 1/4" i, SW 17 mm, for Rectus coupling type 26

20 054

Male quick connecting adapter, G 3/8" i, SW 19 mm, for Rectus coupling type 26



Lever ball valves, strainers, adapters, barrel screw couplings



18 095

Lever ball valve G 1/4"/G 1/4" i

18 096

Lever ball valve G 3/8"/G 3/8" i

18 097

Lever ball valve G 1/2"/G 1/2" i



19 764

Lever ball valve, G 1/4" i, G 1/4" i

19 765

Lever ball valve, G 3/8" i, G 3/8" i

19 762

Lever ball valve, G 1/2" i, G 1/2" i

19 763

Lever ball valve, G 3/4" i, G 3/4" i

19 764

Lever ball valve, G 1/4" i, G 1/4" i

19 765

Lever ball valve, G 3/8" i, G 3/8" i

19 767

Lever ball valve, G 1" i, G 1" i

19 771

Lever ball valve, G 1 1/4" i, G 1 1/4" i

19 772

Lever ball valve, G 1 1/2" i, G 1 1/2" i

19 773

Lever ball valve, G 2" i, G 2" i



19 778

Lever ball valve, G 3/4" i, G 3/4" a



87 056

Lever ball valve, G 1/4" i, G 1/4" i



19 760

Inline filter, strainer, G 1/2" i, G 1/2" i

19 761

Inline filter, strainer, G 3/4" i, G 3/4" i

19 769

Inline filter, strainer, G 1" i, G 1" i



19 892

Foot valve, G 1" i, G 1" i



19 897

Solenoid valve, G 1/2"i, G 1/2"i, 2/2-air valve



20 132

Hose nozzle, SW 17 mm, 6 mm, G 1/4" a

20 133

Hose nozzle, SW 17 mm, 9 mm, G 1/4" a

20 134

Hose nozzle, SW 19 mm, 6 mm, G 3/8" a

20 135

Hose nozzle, SW 19 mm, 9 mm, G 3/8" a



20 136

Hose nozzle, SW 24 mm, 12 mm, G 1/2" a

02 803

Hose nozzle, SW 32 mm, 19 mm, G 3/4" a



20 152

Hose O-clip, adjustable 10 - 16 mm

20 154

Hose O-clip, adjustable 12 - 20 mm

20 156

Hose O-clip, adjustable 16 - 25 mm



20 162

Double hose clip, adjustable 11 - 13 mm

20 164

Double hose clip, adjustable 13 - 15 mm

20 166

Double hose clip, adjustable 15 - 18 mm

Lever ball valves, strainers, adapters, barrel screw couplings

**20 192**

PVC reinforced air hose, DN 6, 12 mm a, 17 bar, 20 m

20 194

PVC reinforced air hose, DN 9, 15 mm a, 17 bar, 20 m

20 193

PVC reinforced air hose, DN 9, 15 mm a, 17 bar, Meterware

**20 120**

Sleeve G 1/2" i, G 1/2" i, brass

20 121

Sleeve G 3/4" i, G 3/4" i, brass

**Retention adapters, adapters a / a****20 111**

G 1/4" a, G 1/8" a

18 086

G 1/4" a, R 1/2" a

18 087

G 3/8" a, R 1/2" a

20 251

R 3/8" a, G 1/2" a

19 636

G 1/2" a, G 3/4" a

19 638

G 3/4" a, R 1" a,

**Retention adapters, adapters i / a**

12 016 G 1/8" i, M 10 x 1 a

12 086 M 10 x 1 i, G 1/8" a

18 093 G 1/8" i, G 1/4" a,

20 122 G 1/4" i, G 3/8" a

20 124 G 3/8" i, G 1/2" a

20 126 G 1/2" i, G 3/4" a

19 626 G 3/4" i, G 1/2" a

03 419 G 3/4" i, G 1" a

19 418 G 3/4" i, G 2" a

19 627 G 1" i, G 3/4" a

19 629 G 1 1/4" i, G 3/4" a

**18 016**

Sleeve, M 10 x 1 i, M 10 x 1 i

18 017

Sleeve, G 1/8" i, G 1/8" i

**20 112**

G 1/4" a, G 1/4" a, brass

20 114

G 3/8" a, G 3/8" a, brass

18 088

G 3/8" a, G 3/8" a, Stahl

20 116

G 1/2" a, G 1/2" a, brass

19 619

R 1/2" a, G 1/2" a, Stahl

18 085

G 1/4" a, R 1/4" a, Stahl

19 637

R 3/4" a, G 3/4" a, Stahl

20 118

G 1" a, G 1" a, brass

**Retention adapters, adapters i/i****19 628**

G 1" i, G 3/4" i

19 630

G 1 1/4" i, G 3/4" i

Lever ball valves, strainers, adapters, barrel screw couplings



Barrel screw coupling connection G 2" a und M 64 x 4 a

13 080

Barrel screw coupling for pipe Ø 32 mm

19 526

Barrel screw coupling for pipe Ø 35,5 mm

19 527

Barrel screw coupling for pipe Ø 40 mm

19 528

Barrel screw coupling for pipe Ø 27,5 mm



Barrel screw coupling with female thread

19 519

Barrel screw coupling for pipe Ø 35,5 mm connection M 62,5 x 4 i

19 529

Barrel screw coupling for pipe Ø 35,5 mm connection M 60 x 5 i



13 080 390

Barrel screw coupling, polyamide, 2"GF

13083

Barrel screw coupling G2" i, 200 l plastic containers, polyamide

Equipment for workshop – small part cleaner, brake bleeding, mounting brackets for hose reel



23 137

Small part cleanser



23 139

Small part cleanser, air operated, with 65 l container



19 776

Brake bleeding equipment

General Terms of Business

1. Scope of application

- 1.1 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.
- 1.2 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

- 2.1 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.
- 2.2 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

- 3.1 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.
- 3.2 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.
- 3.3 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.
- 3.4 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

- 4.1 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.
- 4.2 Value added tax at the rate applicable on the day of delivery shall be added to the agreed price.
- 4.3 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.
- 4.4 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.

- 4.5 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.
- 4.6 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 sudraw from the contract.
- 4.7 Turnover: The calculation of turnover includes net sales (excluding VAT) with the optional deduction of discounts, bad debts, freight costs, packaging costs and insurance costs.
Allowance: The calculation of allowance includes net sales (excluding VAT) of paid bills contingent on cash discounts, bad debts, freight costs, packaging costs and insurance costs.
Debits: Payments may only be made on the basis of our credits, unwarranted deductions will remain as open positions with us and are pursued by collection procedure until payment is made.

5 Passing of risks

- 5.1 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.
- 5.2 The choice of the transport route and means of transport is made at our discretion, with no guarantee that they are the cheapest.
- 5.3 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.

6 Reservation of title

- 6.1 We shall retain the ownership of the products until all claims arising from the business relationship have been fully met.
- 6.2 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.
- 6.3 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.
- 6.4 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.
- 6.5 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.
- 6.6 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.

7 Defects

- 7.1 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.
- 7.2 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.
- 7.3 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.
- 7.4 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.
- 7.5 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.
- 7.6 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.
- 7.7 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

- 8.1 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.
- 8.2 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.
- 8.3 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 Freiburg. 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 No.	Pages	PU	Dimensions	Weight	Article No.	Pages	PU	Dimensions	Weight
01 297	27	1	ØxL 29 x 58 mm	0,149 kg	18 030	20	1	LxWxH 350 x 350 x 70 mm	3,800 kg
02 568	60	1	LxWxH 330 x 265 x 215 mm	0,834 kg	18 035	20	1	LxWxH 390 x 330 x 90 mm	4,600 kg
02 803	90	1	ØxL 27 x 48 mm	0,055 kg	18 050	20	1	LxWxH 1500 x 35 x 20 mm	0,520 kg
03 419	34,91	1	LxWxH 40 x 35 x 21 mm	0,070 kg	18 081	23	1	LxWxH 210 x 150 x 19 mm	0,152 kg
12 016	91	1	LxWxH 24 x 15 x 24 mm	0,016 kg	18 082	22	1	LxWxH 150 x 60 x 23 mm	0,244 kg
12 042	23	1	LxWxH 183 x 18 x 18 mm	0,072 kg	18 083	22	1	LxWxH 150 x 60 x 23 mm	0,157 kg
12 043	23	1	LxWxH 185 x 18 x 18 mm	0,076 kg	18 084	23	1	LxWxH 210 x 150 x 20 mm	0,050 kg
12 044	23	1	LxWxH 200 x 22 x 20 mm	0,110 kg	18 085	91	1	LxWxH 35 x 12 x 15 mm	0,032 kg
12 048	23	1	LxWxH 360 x 18 x 18 mm	0,134 kg	18 086	91	1	LxWxH 40 x 20 x 125 mm	0,065 kg
12 049	23	1	LxWxH 555 x 18 x 18 mm	0,150 kg	18 087	91	1	ØxL 27 x 44 mm	0,140 kg
12 054	23	1	LxWxH 203 x 35 x 30 mm	0,226 kg	18 088	91	1	ØxL 25 x 32 mm	0,052 kg
12 055	23	1	LxWxH 205 x 50 x 20 mm	0,098 kg	18 093	91	1	LxWxH 25 x 22 x 19 mm	0,035 kg
12 056	23	1	LxWxH 205 x 20 x 27 mm	0,120 kg	18 095	20,90	1	LxWxH 140 x 25 x 75 mm	0,350 kg
12 057	23	1	LxWxH 210 x 30 x 60 mm	0,226 kg	18 096	90	1	LxWxH 145 x 32 x 80 mm	0,535 kg
12 086	91	1	LxWxH 23 x 15 x 23 mm	0,013 kg	18 097	90	1	LxWxH 150 x 35 x 80 mm	0,660 kg
13 080	47,92	1	LxWxH 80 x 70 x 38 mm	0,164 kg	18 099	20	1	LxWxH 165 x 35 x 68 mm	0,860 kg
13 083	92	1	LxWxH 70 x 70 x 45 mm	0,054 kg	18 102	22	1	LxWxH 270 x 165 x 120 mm	1,4 kg
17 000	48,23	1	LxWxH 800 x 35 x 35 mm	0,166 kg	18 102 950	22	1	LxWxH 270 x 165 x 120 mm	1,4 kg
17 004	22	1	LxWxH 200 x 350 x 1004 mm	3,940 kg	18 102 952	22	1	LxWxH 270 x 165 x 120 mm	1,5 kg
17 008	48,23	1	LxWxH 490 x 470 x 1020 mm	8,840 kg	18 103	20	1	LxWxH Innen-Ø 20 mm	0,690 kg
17 008 950	48	1	LxWxH 570 x 530 x 200 mm	7,800 kg	18 104	22	1	LxWxH 220 x 220 x 35 mm	0,897 kg
17 009	48,23	1	LxWxH 870 x 610 x 1000 mm	35,5 kg	18 104 301	22	1	LxWxH 300 x 220 x 35 mm	0,690 kg
17 009 390	48,23	1	LxWxH 650 x 770 x 1115 mm	15,0 kg	18 105	22	1	LxWxH 220 x 210 x 35 mm	1,050 kg
17 021	23	1	LxWxH 530 x 570 x 190 mm	6,200 kg	18 115	22	1	LxWxH 155 x 140 x 110 mm	0,51 kg
17 044	27	1	LxWxH 40 x 22 x 40 mm	0,041 kg	18 405 051	24	1	LxWxH 790 x 480 x 105 mm	10,850 kg
17 044 950	27	1	LxWxH 45 x 40 x 20 mm	0,086 kg	18 410 051	24	1	LxWxH 1010 x 480 x 270 mm	14,640 kg
17 045	27	1	LxWxH 210 x 85 x 22 mm	0,125 kg	18 415 051	24	1	LxWxH 1010 x 480 x 270 mm	13,450 kg
17 171	18	1	LxWxH 275 x 255 x 55 mm	0,850 kg	18 416 051	24	1	LxWxH 1010 x 480 x 270 mm	13,450 kg
17 172	18	1	ØxH 310 x 55 mm	1,250 kg	18 417 051	24	1	LxWxH 790 x 480 x 105 mm	16,500 kg
17 176	18	1	ØxL 365 x 65 mm	1,430 kg	18 417 951	24	1	LxWxH 1010 x 480 x 270 mm	11,300 kg
17 184	19	1	ØxH 430 x 88 mm	1,380 kg	18 417 953	24	1	LxWxH 1010 x 480 x 270 mm	12,859 kg
17 194	18	1	ØxH 415 x 80	1,210 kg	18 418 051	24	1	LxWxH 1010 x 480 x 270 mm	13,450 kg
17 195	19	1	LxWxH 215 x 215 x 35 mm	0,0650 kg	18 419 051	24	1	LxWxH 1010 x 480 x 105 mm	10,980 kg
17 197	19	1	LxWxH 250 x 210 x 55 mm	0,550 kg	18 421 051	24	1	LxWxH 1010 x 480 x 105 mm	10,200 kg
17 198	18	1	ØxH 480 x 80 mm	1,663 kg	18 421 056	25	1	LxWxH 1010 x 480 x 105 mm	10,800 kg
17 199	19	1	LxWxH 350 x 300 x 55 mm	0,580 kg	18 425 051	24	1	LxWxH 1060 x 480 x 550 mm	21,30 kg
17 200	18	1	LxWxH 615 x 615 x 35 mm	2,500 kg	18 611 051	18	1	LxWxH 1000 x 170 x 170 mm	9,1 kg
17 201	19	1	LxWxH 380 x 200 x 40 mm	0,680 kg	18 613 051	18	1		
17 230	19	1	LxWxH 245 x 245 x 35 mm	0,750 kg	18 616 051	18	1	LxWxH 1290 x 170 x 170 mm	11,3 kg
17 265	19	1	LxWxH 275 x 275 x 35 mm	0,990 kg	18 640 051	18	1	LxWxH 790 x 480 x 105 mm	9,5 kg
17 275	19	1	LxWxH 295 x 295 x 35 mm	1,040 kg	18 660 051	18	1		
17 285	19	1	LxWxH 295 x 295 x 35 mm	1,340 kg	18 680 051	18	1	LxWxH 1260 x 650 x 130 mm	21,3 kg
17 300	19	1	LxWxH 320 x 320 x 35 mm	1,220 kg	18 700 051	18	1	LxWxH 770 x 190 x 180 mm	5,900 kg
17 320	19	1	LxWxH 340 x 340 x 35 mm	1,640 kg	18 710 051	18	1	LxWxH 750 x 170 x 170 mm	7,900 kg
17 325	19	1	ØxL 365 x 30 mm	1,360 kg	18 710 950	18	1	LxWxH 750 x 170 x 170 mm	7,700 kg
17 380	19	1	LxWxH 390 x 390 x 35 mm	2,000 kg	18 711 051	18	1	LxWxH 1000 x 170 x 170 mm	9,100 kg
17 400	19	1	LxWxH 415 x 415 x 35 mm	0,203 kg	18 713 051	18	1	LxWxH 1000 x 180 x 180 mm	9,400 kg
17 401	19	1	ØxL 600 x 30 mm	5,56 kg	18 716 051	18	1	LxWxH 1290 x 170 x 170 mm	11,300 kg
18 016	91	1	LxWxH 17 x 15 x 25 mm	0,023 kg	18 720 051	18	1	LxWxH 480 x 785 x 105 mm	8,500 kg
18 017	91	1	LxWxH 17 x 15 x 25 mm	0,023 kg	18 730 051	18	1	LxWxH 480 x 785 x 105 mm	9,000 kg
18 021	20	1	LxWxH 300 x 300 x 22 mm	0,490 kg	18 750 051	18	1	LxWxH 1010 x 480 x 105 mm	12,100 kg
18 022	20	1	LxWxH 300 x 300 x 35 mm	0,815 kg	18 760 051	18	1	LxWxH 1000 x 180 x 180 mm	9,400 kg
18 023	20	1	LxWxH 300 x 300 x 50 mm	1,160 kg	18 764 051	24	1	LxWxH 1010 x 480 x 105 mm	16,000 kg
18 024	20	1	LxWxH 320 x 300 x 55 mm	1,540 kg	18 764 056	25	1	LxWxH 1010 x 480 x 105 mm	16,600 kg
18 025	20	1	LxWxH 300 x 300 x 60 mm	1,840 kg	18 766 051	24	1	LxWxH 1010 x 480 x 550 mm	23 kg
18 026	20	1	LxWxH 330 x 330 x 60 mm	3,500 kg	18 766 950	25	1	LxWxH 1060 x 480 x 500 mm	25,000 kg
18 028	20	1	LxWxH 350 x 350 x 50 mm	3,320 kg	18 780 051	18	1	LxWxH 1250 x 640 x 110 mm	21,300 kg

Article No.	Pages	PU	Dimensions	Weight
18 785 051	24	1	LxWxH 1260 x 650 x 130 mm	24,300 kg
18 785 056	25	1	LxWxH 1310 x 650 x 130 mm	24,900 kg
18 786 056	25	1	LxWxH 870 x 760 x 1420 mm	53,100 kg
18 788 051	25	1	LxWxH 870 x 760 x 1420 mm	65,900 kg
19 000 250	44	1	LxWxH 1150 x 770 x 1720 mm	93,600 kg
19 000 251	44	1	LxWxH 1150 x 770 x 1920 mm	105,000 kg
19 000 255	44	1	LxWxH 1150 x 770 x 1720 mm	95,000 kg
19 000 256	44	1	LxWxH 1150 x 770 x 1920 mm	106,700 kg
19 000 330	39	1	LxWxH 615 x 510 x 420 mm	35,000 kg
19 000 331	39	1	LxWxH 615 x 510 x 420 mm	44,500 kg
19 000 332	39	1	LxWxH 615 x 510 x 420 mm	34,000 kg
19 000 333	39	1	LxWxH 615 x 510 x 420 mm	45,500 kg
19 000 335	59	1	LxWxH 960 x 570 x 340 mm	25,800 kg
19 000 350	44	1	LxWxH 1450 x 770 x 1720 mm	111,000 kg
19 000 351	44	1	LxWxH 1450 x 770 x 1920 mm	122,000 kg
19 000 355	44	1	LxWxH 1450 x 770 x 1720 mm	116,000 kg
19 000 356	44	1	LxWxH 1450 x 770 x 1920 mm	124,000 kg
19 000 435	59	1	LxWxH 960 x 570 x 340 mm	25,860 kg
19 000 518	26	1	LxWxH 1010 x 480 x 270 mm	24,900 kg
19 000 530	24	1	LxWxH 1060 x 480 x 500 mm	23,700 kg
19 000 532	26	1	LxWxH 1060 x 480 x 500 mm	24,900 kg
19 000 533	25	1	LxWxH 1060 x 480 x 500 mm	24,400 kg
19 000 535	26	1	LxWxH 1060 x 480 x 500 mm	24,500 kg
19 000 950	37	1	LxWxH 1040 x 760 x 870 mm	69,200 kg
19 000 955	39	1	LxWxH 615 x 510 x 420 mm	35,200 kg
19 000 957	39	1	LxWxH 615 x 510 x 420 mm	38,200 kg
19 000 959	39	1	LxWxH 615 x 510 x 420 mm	27,800 kg
19 000 960	37	1	LxWxH 1040 x 760 x 870 mm	49,323 kg
19 000 961	37	1	LxWxH 1040 x 760 x 870 mm	57,000 kg
19 004 350	44	1	LxWxH 1630 x 770 x 1950 mm	151 kg
19 004 351	44	1	LxWxH 1630 x 770 x 1950 mm	151 kg
19 004 355	44	1	LxWxH 1630 x 770 x 1950 mm	151 kg
19 004 356	44	1	LxWxH 1630 x 770 x 1950 mm	151 kg
19 011 135	37	1	LxWxH 830 x 600 x 1120 mm	57,000 kg
19 014 135	44	1	LxWxH 1450 x 770 x 1720 mm	116,000 kg
19 015 135	44	1	LxWxH 1335 x 810 x 1290 mm	156,0 kg
19 060	32,59	1	LxWxH 265 x 205 x 300 mm	5,062 kg
19 062	32,59	1	LxWxH 410 x 225 x 405 mm	10,183 kg
19 135	32	1	LxWxH 1310 x 190 x 195 mm	6,850 kg
19 135 600	32	1	LxWxH 1310 x 190 x 195 mm	11,000 kg
19 135 843	32	1	LxWxH 1310 x 190 x 195 mm	9,200 kg
19 135 954	32	1	LxWxH 1310 x 190 x 195 mm	9,780 kg
19 165	32	1	LxWxH 1635 x 190 x 195 mm	7,610 kg
19 165 600	32	1	LxWxH 1635 x 190 x 195 mm	12,300 kg
19 165 843	32	1	LxWxH 1635 x 190 x 195 mm	7,600 kg
19 185	32	1	LxWxH 400 x 360 x 150 mm	6,010 kg
19 185 600	32	1	LxWxH 1000 x 190 x 195 mm	10,400 kg
19 185 843	32	1	LxWxH 400 x 360 x 150 mm	6,364 kg
19 205	35	1	LxWxH 1000 x 190 x 195 mm	6,680 kg
19 205 951	35	1	auf Anfrage	
19 211	36	1	LxWxH 1000 x 190 x 195 mm	9,600 kg
19 212	36	1	LxWxH 1000 x 190 x 195 mm	10,600 kg
19 212 551	36	1	LxWxH 1000 x 190 x 195 mm	10,900 kg
19 213	36	1	LxWxH 500 x 500 x 1000 mm	19,000 kg
19 214	36	1	LxWxH 1000 x 190 x 195 mm	20,100 kg
19 214 551	36	1	LxWxH 1000 x 190 x 195 mm	10,000 kg
19 214 552	36	1	auf Anfrage	

Article No.	Pages	PU	Dimensions	Weight
19 235	35	1	LxWxH 1310 x 190 x 195 mm	8,200 kg
19 235 030	35	1	LxWxH 1310 x 190 x 195 mm	14,000 kg
19 235 135	35	1	LxWxH 660 x 620 x 195 mm	14,000 kg
19 235 600	38	1	LxWxH 1310 x 190 x 195 mm	9,4 kg
19 235 601	38	1	LxWxH 1310 x 190 x 195 mm	9,6 kg
19 235 888	37	1	auf Anfrage	
19 235 951	35	1	LxWxH 1310 x 190 x 195 mm	7,5 kg
19 241	36	1	LxWxH 1310 x 190 x 195 mm	10,300 kg
19 242	36	1	LxWxH 1310 x 190 x 195 mm	11,300 kg
19 242 551	36	1	LxWxH 1000 x 190 x 195 mm	11,600 kg
19 243	36	1	LxWxH 870 x 760 x 1400 mm	36,200 kg
19 244	36	1	LxWxH 870 x 760 x 1400 mm	36,900 kg
19 244 551	36	1	LxWxH 870 x 760 x 1400 mm	40,200 kg
19 246	37	1	LxWxH 870 x 760 x 1400 mm	53,500 kg
19 248	37	1	LxWxH 870 x 760 x 1400 mm	53,700 kg
19 248 551	37	1	LxWxH 870 x 760 x 1400 mm	53,400 kg
19 257	37	1	LxWxH 870 x 760 x 1400 mm	51,400 kg
19 257 551	37	1	LxWxH 870 x 760 x 1400 mm	51,400 kg
19 264	35	1	LxWxH 1635 x 190 x 195 mm	8,400 kg
19 264 951	35	1	LxWxH 1310 x 190 x 195 mm	8,000 kg
19 265	35	1	LxWxH 1635 x 190 x 195 mm	8,400 kg
19 265 030	35	1	LxWxH 1635 x 190 x 195 mm	15,600 kg
19 265 135	35	1	LxWxH 660 x 620 x 195 mm	15,600 kg
19 265 600	38	1	LxWxH 1635 x 190 x 195 mm	11,000 kg
19 265 601	38	1	LxWxH 1635 x 190 x 195 mm	11,000 kg
19 265 951	35	1	LxWxH 1635 x 190 x 195 mm	8,000 kg
19 266	35	1	LxWxH 1310 x 190 x 195 mm	8,000 kg
19 266 030	35	1	LxWxH 1310 x 190 x 195 mm	15,800 kg
19 266 135	35	1	LxWxH 1310 x 190 x 195 mm	24 kg
19 266 888	37	1	auf Anfrage	
19 266 951	35	1	LxWxH 1310 x 190 x 195 mm	9,200 kg
19 285	35	1	LxWxH 400 x 360 x 150 mm	5,500 kg
19 285 030	36	1	LxWxH 610 x 415 x 415 mm	13,000 kg
19 285 135	36	1	LxWxH 610 x 415 x 415 mm	13,000 kg
19 285 600	38	1	LxWxH 1310 x 190 x 195 mm	10,000 kg
19 285 601	38	1	LxWxH 1310 x 190 x 195 mm	10,300 kg
19 285 951	35	1	LxWxH 1100 x 315 x 400 mm	9,500 kg
19 305	40	1	LxWxH 1100 x 190 x 195 mm	7,200 kg
19 335	40	1	LxWxH 1310 x 190 x 195 mm	8,500 kg
19 335 600	40	1	LxWxH 1310 x 190 x 195 mm	10,500 kg
19 335 601	40	1	LxWxH 1310 x 190 x 195 mm	10,500 kg
19 335 951	40	1	LxWxH 1310 x 190 x 195 mm	8,500 kg
19 335 954	40	1	LxWxH 1310 x 190 x 195 mm	8,500 kg
19 365	40	1	LxWxH 1635 x 190 x 195 mm	8,600 kg
19 365 600	40	1	LxWxH 1635 x 190 x 195 mm	11,000 kg
19 365 601	40	1	LxWxH 1635 x 190 x 195 mm	11,000 kg
19 365 951	40	1	LxWxH 1635 x 190 x 195 mm	11,200 kg
19 366	40	1	LxWxH 1310 x 190 x 195 mm	8,600 kg
19 366 951	40	1	LxWxH 1310 x 190 x 195 mm	10,100 kg
19 385	40	1	LxWxH 1100 x 190 x 195 mm	5,760 kg
19 385 600	40	1	LxWxH 1310 x 190 x 195 mm	10,000 kg
19 385 601	40	1	LxWxH 1310 x 190 x 195 mm	10,100 kg
19 385 951	40	1	LxWxH 1100 x 315 x 400 mm	9,700 kg
19 402	46	1	LxWxH 703 x 90 x 150 mm	1,570 kg
19 403	46	1	LxWxH 350 x 330 x 2 mm	1,4 kg
19 406	46,59	1	LxWxH 320 x 175 x 155 mm	1,4 kg
19 407	46,59	1	LxWxH 180 x 84 x 72 mm	0,214 kg

Article No.	Pages	PU	Dimensions	Weight	Article No.	Pages	PU	Dimensions	Weight
19 408	46,59	1	LxWxH 230 x 80 x 77 mm	0,278 kg	19 624	84	1	LxWxH 71 x 47 x 47 mm	0,313 kg
19 410	47,60	1	ØxL 90 x 40 mm	0,04 kg	19 624 860	84	1	LxWxH 71 x 47 x 47 mm	0,313 kg
19 411	47,60	1	ØxL 102 x 45 mm	0,562 kg	19 626	91	1	ØxL 32 x 29 mm	0,032 kg
19 412	46,60	1	LxWxH 645 x 175 x 155 mm	1,600 kg	19 627	91	1	ØxL 44 x 57 mm	0,170 kg
19 413 472	44	1	LxWxH 200 x 260 x 200 mm	2,300 kg	19 628	91	1	LxWxH 42 x 42 x 45 mm	0,136 kg
19 413 473	45	1	LxWxH 200 x 260 x 200 mm	2,500 kg	19 629	91	1	LxWxH 52 x 52 x 60 mm	0,200 kg
19 414	47,60	1	LxWxH 160 x 160 x 60 mm	1,335 kg	19 630	91	1	LxWxH 52 x 52 x 56 mm	0,190 kg
19 414 950	47	1	LxWxH 250 x 150 x 105 mm	1,750 kg	19 636	91	1	ØxL 32 x 46 mm	0,974 kg
19 416	47	1	ØxL 80 x 40 mm	0,334 kg	19 637	91,62	1	LxWxH 35 x 30 x 50 mm	0,142 kg
19 417	47	1	ØxL 110 x 45 mm	0,162 kg	19 638	91	1	ØxL 40 x 58 mm	0,240 kg
19 418	46,91,60	1	ØxL 80 x 60 mm	0,373 kg	19 642	39,49	1	LxWxH 400 x 75 x 137 mm	1,300 kg
19 419	60	1	LxWxH 1650 x 90 x 150 mm	7,000 kg	19 643	39,49	1	LxWxH 400 x 75 x 137 mm	1,400 kg
19 421	46	1	LxWxH 250 x 220 x 130 mm	1,306 kg	19 648	49	1	LxWxH 155 x 155 x 50 mm	0,7 kg
19 422	62	1	LxWxH 350 x 345 x 255 mm	4,200 kg	19 666	33,49,62	1	LxWxH 515 x 35 x 32 mm	0,502 kg
19 423	46	1	LxWxH 120 x 70 x 95 mm	0,310 kg	19 668	49,53	1	LxWxH 515 x 31 x 27 mm	0,314 kg
19 424	47	1	LxWxH 520 x 150 x 90 mm	3,853 kg	19 669	33,46,21	1	LxWxH 348 x 144 x 257 mm	1,300 kg
19 426	47,60	1	LxWxH 245 x 255 x 75 mm	2,900 kg	19 692	34,84	1	LxWxH 185 x 165 x 150 mm	1,810 kg
19 506	49	1	LxWxH 400 x 140 x 75 mm	0,7 kg	19 693	34,84	1	LxWxH 185 x 165 x 150 mm	2,050 kg
19 511	47	1	LxWxH 1310 x 190 x 195 mm	11,000 kg	19 693 690	80	1	LxWxH 185 x 165 x 150 mm	2,4 kg
19 512	33,47	1	Ø 80 x 450 mm	1,509 kg	19 694	84	1	LxWxH 185 x 165 x 150 mm	2,290 kg
19 513 950	47	1	LxWxH 1110 x 85 x 85 mm	1,770 kg	19 694 690	80	1	LxWxH 185 x 165 x 150 mm	
19 513 952	47	1	LxWxH 1110 x 85 x 85 mm	2,890 kg	19 697	52	1	LxWxH 630 x 160 x 130 mm	1,800 kg
19 513 954	47	1	LxWxH 1110 x 85 x 85 mm	3,710 kg	19 698	52	1	LxWxH 590 x 120 x 155 mm	1,874 kg
19 514	84	1	LxWxH 100 x 100 x 60 mm	0,56 kg	19 698 950	52	1	LxWxH 590 x 120 x 155 mm	1,556 kg
19 519	47,92	1	LxWxH 85 x 70 x 40 mm	0,212 kg	19 698 956	52	1	LxWxH 160 x 180 x 160 mm	0,705 kg
19 521	47	1	LxWxH 155 x 48 x 127 mm	1,115 kg	19 701	34	1	LxWxH 430 x 175 x 45 mm	0,870 kg
19 522	47	1	LxWxH 960 x 80 x 65 mm	1,670 kg	19 706	52	1	LxWxH 285 x 160 x 145 mm	2,001 kg
19 523	47	1	LxWxH 1110 x 85 x 85 mm	1,930 kg	19 709	52	1	LxWxH 385 x 145 x 165 mm	2,051 kg
19 523 001	47	1	LxWxH 1110 x 85 x 85 mm	3,300 kg	19 709 135	52	1	LxWxH 385 x 145 x 165 mm	2,051 kg
19 523 002	47	1	LxWxH 1000 x 80 x 80 mm	5 kg	19 709 952	52	1	LxWxH 250 x 190 x 190 mm	0,897 kg
19 523 952	47	1	LxWxH 1110 x 85 x 85 mm	3,000 kg	19 709 954	53	1	LxWxH 25 x 25 x 80 mm	0,068 kg
19 523 954	47	1	LxWxH 1110 x 85 x 85 mm	3,800 kg	19 711	53	1	LxWxH 75 x 55 x 35 mm	0,032 kg
19 526	47,92	1	LxWxH 80 x 65 x 36 mm	0,162 kg	19 714	52	1	LxWxH 268 x 173 x 98 mm	1,868 kg
19 527	47,92	1	LxWxH 80 x 65 x 35 mm	0,150 kg	19 715	53	1	LxWxH 270 x 130 x 50 mm	1,036 kg
19 528	47,92	1	LxWxH 80 x 65 x 37 mm	0,175 kg	19 718	52	1	LxWxH 300 x 120 x 30 mm	0,752 kg
19 529	47,92	1	LxWxH 100 x 100 x 40 mm	0,232 kg	19 718 954	52	1	LxWxH 300 x 120 x 30 mm	0,875 kg
19 530	33	1	LxWxH 570 x 35 x 32 mm	0,742 kg	19 721	53	1	LxWxH 127 x 127 x 55 mm	0,226 kg
19 531	33	1	LxWxH 1090 x 35 x 32 mm	1,020 kg	19 723	52	1	LxWxH 268 x 173 x 98 mm	1,816 kg
19 533	33	1	LxWxH 400 x 380 x 80 mm	1,910 kg	19 724	52	1	LxWxH 268 x 173 x 98 mm	1,925 kg
19 534	33	1	Ø 80 x 450 mm	2,850 kg	19 728	34	1	LxWxH 120 x 120 x 170 mm	1,653 kg
19 535	33	1	LxWxH 480 x 480 x 55 mm	3,020 kg	19 729	52	1	LxWxH 220 x 110 x 130 mm	1,500 kg
19 538	33	1	LxWxH 520 x 530 x 38 mm	5,520 kg	19 730	52	1	LxWxH 340 x 160 x 160 mm	1,500 kg
19 550	33,49,62	1	LxWxH 1150 x 33 x 85 mm	5,530 kg	19 735	52	1	LxWxH 350 x 110 x 215 mm	3,024 kg
19 561	49	1	LxWxH 400 x 320 x 32 mm	0,570 kg	19 740	53	1	LxWxH 21 x 21 x 120 mm	0,176 kg
19 562	49	1	Ø 60 x 300 mm	1,082 kg	19 741	53	1	LxWxH 120 x 50 x 21 mm	0,152 kg
19 563	49	1	LxWxH 400 x 350 x 40 mm	1,200 kg	19 742	53	1	LxWxH 120 x 120 x 21 mm	0,247 kg
19 564	49	1	Ø 70 x 330 mm	1,978 kg	19 743	53	1	LxWxH 217 x 100 x 27 mm	0,234 kg
19 565	49	1	Ø 60 x 350 mm	2,405 kg	19 743 950	53	1	LxWxH 227 x 81 x 24 mm	0,145 kg
19 568	49	1	LxWxH 400 x 400 x 85 mm	3,045 kg	19 745	53	1	LxWxH 280 x 25 x 22 mm	0,232 kg
19 570	49	1	LxWxH 100 x 100 x 40 mm	5,563 kg	19 746	53	1	LxWxH 300 x 115 x 25 mm	0,302 kg
19 575	49	1	LxWxH 305 x 305 x 165 mm	5,236 kg	19 747	53	1	ØxL 18 x 28 mm	0,025 kg
19 580	49,53	1	LxWxH 430 x 320 x 50 mm	0,810 kg	19 748	53	1	LxWxH 57 x 12 x 15 mm	0,046 kg
19 580 1	39,49	1	auf Anfrage		19 760	90	1	LxWxH 57 x 50 x 27 mm	0,152 kg
19 616	53	1	LxWxH 30 x 30 x 52 mm	0,128 kg	19 761	90	1	LxWxH 72 x 65 x 35 mm	0,208 kg
19 619	91	1	ØxL 30 x 46 mm	0,090 kg	19 762	90	1	LxWxH 104 x 50 x 24 mm	0,120 kg
19 623	84	1	LxWxH 71 x 47 x 47 mm	0,27 kg	19 763	90,62	1	LxWxH 106 x 55 x 30 mm	0,178 kg
19 623 860	84	1	LxWxH 71 x 47 x 47 mm	0,27 kg	19 764	90,90	1	LxWxH 102 x 49 x 24 mm	0,142 kg

Article No.	Pages	PU	Dimensions	Weight
19 765	90,90	1	LxWxH 142 x 36 x 72 mm	0,290 kg
19 767	90	1	LxWxH 142 x 80 x 42 mm	0,422 kg
19 768	38	1	LxWxH 950 x 400 x 400 mm	15,600 kg
19 769	90	1	LxWxH 90 x 75 x 45 mm	0,178 kg
19 770	61	1	ØxL 45 x 85 mm	0,707 kg
19 771	90	1	LxWxH 215 x 57 x 100 mm	0,990 kg
19 772	90	1	LxWxH 230 x 72 x 110 mm	1,210 kg
19 773	90	1	LxWxH 237 x 87 x 127 mm	1,970 kg
19 774	61	1	LxWxH 34 x 38 x 63 mm	0,180 kg
19 776	92	1	LxWxH 350 x 270 x 710 mm	10,500 kg
19 778	90	1	LxWxH 153 x 36 x 70 mm	0,320 kg
19 782	58	1	LxWxH 380 x 360 x 950 mm	11,800 kg
19 783	58	1	LxWxH 630 x 300 x 325 mm	22,100 kg
19 788	59	1	LxWxH 960 x 570 x 340 mm	15,000 kg
19 800	59	1	LxWxH 400 x 360 x 150 mm	10,500 kg
19 802	48	1	LxWxH 1340 x 850 x 340 mm	72,000 kg
19 804	48	1	LxWxH 2680 x 850 x 236 mm	112,000 kg
19 805	48	1	LxWxH 1340 x 1260 x 900 mm	180 kg
19 808	48	1	LxWxH 1200 x 1200 x 340 mm	93 kg
19 810	53	1	LxWxH 700 x 560 x 300 mm	16,600 kg
19 812	53	1	LxWxH 165 x 165 x 41 mm	1,000 kg
19 815	48	1	LxWxH 650 x 900 x 1470 mm	60,400 kg
19 816	48	1	LxWxH 1110 x 483 x 345 mm	82 kg
19 850	59	1	LxWxH 960 x 570 x 340 mm	13,000 kg
19 852	59	1	LxWxH 960 x 570 x 360 mm	18,000 kg
19 857	59	1	LxWxH 1435 x 640 x 270 mm	48,25 kg
19 858	62	1	LxWxH 570 x 160 x 230 mm	3,080 kg
19 890	83	1	LxWxH 185 x 165 x 150 mm	0,3 kg
19 892	83,90	1	LxWxH 46 x 46 x 59 mm	0,232 kg
19 897	46,90	1	LxWxH 88 x 72 x 33 mm	0,255 kg
19 900	59	1	LxWxH 610 x 400 x 205 mm	12,700 kg
19 901	59	1	LxWxH 610 x 580 x 365 mm	32,050 kg
19 902	62	1	LxWxH 400 x 140 x 75 mm	0,862 kg
19 903	62	1	LxWxH 200 x 200 x 232 mm	1,960 kg
20 022	88	1	LxWxH 25 x 24 x 41 mm	0,091 kg
20 024	88	1	LxWxH 25 x 25 x 41 mm	0,078 kg
20 026	88	1	LxWxH 25 x 25 x 44 mm	0,093 kg
20 032	88	1	LxWxH 25 x 25 x 42 mm	0,075 kg
20 034	88	1	LxWxH 25 x 25 x 42 mm	0,077 kg
20 036	88	1	LxWxH 25 x 25 x 45 mm	0,090 kg
20 043	88	1	LxWxH 25 x 25 x 59 mm	0,075 kg
20 045	88	1	LxWxH 25 x 25 x 55 mm	0,066 kg
20 052	88	1	LxWxH 19 x 12 x 33 mm	0,027 kg
20 054	88	1	LxWxH 21 x 19 x 33 mm	0,027 kg
20 062	87,88,32,19	1	LxWxH 14 x 12 x 33 mm	0,023 kg
20 064	88	1	LxWxH 21 x 19 x 33 mm	0,028 kg
20 066	88	1	LxWxH 26 x 24 x 38 mm	0,054 kg
20 073	88	1	LxWxH 12 x 12 x 48 mm	0,017 kg
20 075	88	1	LxWxH 12 x 12 x 48 mm	0,019 kg
20 077	88	1	LxWxH 14 x 14 x 48 mm	0,024 kg
20 111	91	1	LxWxH 18 x 16 x 21 mm	0,019 kg
20 112	87,32,19,91	1	ØxL 19 x 25 mm	0,020 kg
20 114	91	1	LxWxH 20 x 18 x 26 mm	0,031 kg
20 116	91	1	ØxL 28 x 30 mm	0,053 kg
20 118	91	1	LxWxH 36 x 34 x 36 mm	0,106 kg
20 120	91	1	LxWxH 28 x 28 x 30 mm	0,061 kg
20 121	91	1	LxWxH 35 x 35 x 34 mm	0,088 kg

Article No.	Pages	PU	Dimensions	Weight
20 122	91	1	LxWxH 21 x 19 x 14 mm	0,015 kg
20 124	91	1	LxWxH 26 x 24 x 23 mm	0,027 kg
20 126	91	1	LxWxH 36 x 32 x 20 mm	0,058 kg
20 132	90	1	LxWxH 11 x 13 x 36 mm	0,019 kg
20 133	90	1	LxWxH 18 x 17 x 35 mm	0,020 kg
20 134	90	1	LxWxH 18 x 17 x 36 mm	0,027 kg
20 135	90	1	ØxL 22 x 36 mm	0,025 kg
20 136	90	1	ØxL 27 x 46 mm	0,049 kg
20 152	90	1	LxWxH 27 x 24 x 12 mm	0,014 kg
20 154	90	1	LxWxH 35 x 29 x 12 mm	0,015 kg
20 156	90	1	LxWxH 40 x 34 x 12 mm	0,018 kg
20 162	90	1	LxWxH 19 x 15 x 7 mm	0,005 kg
20 164	90	1	LxWxH 21 x 18 x 7 mm	0,006 kg
20 166	90	1	LxWxH 25 x 22 x 7 mm	0,007 kg
20 185	88,32,19	1	LxWxH 300 x 90 x 90 mm	0,247 kg
20 192	91	1	ØxL 400 x 70 mm	1,9 kg
20 193	91	1	LxWxH 300 x 300 x 30 mm	0,260 kg
20 194	91	1	ØxL 280 x 160 mm	0,145 kg
20 218	87,32,18	1	LxWxH 190 x 95 x 55 mm	0,445 kg
20 218 950	87,32,18	1	LxWxH 190 x 95 x 55 mm	0,484 kg
20 233	87	1	LxWxH 165 x 85 x 12 mm	0,250 kg
20 235	87	1	LxWxH 280 x 100 x 20 mm	0,110 kg
20 235 950	87	1	auf Anfrage	
20 240	87	1	LxWxH 395 x 200 x 100 mm	0,540 kg
20 250	87	1	LxWxH 185 x 90 x 90 mm	0,951 kg
20 251	87,91	1	ØxL 21 x 43 mm	0,078 kg
20 913	88	1	LxWxH 460 x 460 x 45 mm	1,720 kg
20 914	88	1	ØxL 370 x 615 mm	1,521 kg
20 915	88	1	ØxL 450 x 60 mm	3,500 kg
20 917	88	1	LxWxH 360 x 360 x 90 mm	5,320 kg
23 000 135	45	1	LxWxH 1280 x 770 x 1420 mm	123,500 kg
23 001 960	43	1	LxWxH 840 x 750 x 1030 mm	53,000 kg
23 001 961	43	1	LxWxH 840 x 750 x 1030 mm	61,000 kg
23 004 350	45	1	LxWxH 1630 x 770 x 1950 mm	135,000 kg
23 004 351	45	1	LxWxH 1630 x 770 x 1950 mm	135,000 kg
23 004 355	45	1	LxWxH 1630 x 770 x 1950 mm	135,000 kg
23 004 356	45	1	LxWxH 1630 x 770 x 1950 mm	135,000 kg
23 005 250	45	1	LxWxH 980 x 770 x 1420 mm	102,000 kg
23 005 251	45	1	LxWxH 980 x 770 x 1420 mm	113,000 kg
23 005 255	45	1	LxWxH 980 x 770 x 1420 mm	102,500 kg
23 005 256	45	1	LxWxH 960 x 750 x 1900 mm	134,0 kg
23 005 350	45	1	LxWxH 1280 x 770 x 1420 mm	123,000 kg
23 005 351	45	1	LxWxH 1280 x 770 x 1420 mm	134,0 kg
23 005 355	45	1	LxWxH 1280 x 770 x 1420 mm	123,500 kg
23 005 356	45	1	LxWxH 1280 x 770 x 1420 mm	135,000 kg
23 006	70	1	LxWxH 400 x 400 x 220 mm	8,3 kg
23 006 824	70	1	LxWxH 400 x 400 x 220 mm	8,8 kg
23 006 861	70	1	LxWxH 400 x 400 x 180 mm	3,8 kg
23 007	70	1	LxWxH 400 x 400 x 180 mm	8,8 kg
23 007 824	70	1	LxWxH 400 x 400 x 180 mm	8,8 kg
23 008	66	1	LxWxH 350x170x220 mm	6,5 kg
23 008 824	66	1	LxWxH 350x170x220 mm	5,7 kg
23 009	70	1	LxWxH 400 x 400 x 180 mm	8,5 kg
23 009 824	70	1	LxWxH 400 x 400 x 180 mm	8,5 kg
23 012	66	1	LxWxH 300 x 170 x 160 mm	3,75 kg
23 012 824	66	1	LxWxH 300 x 170 x 160 mm	3,82 kg
23 012 860	66	1	LxWxH 220 x 170 x 170 mm	4,0 kg

Article No.	Pages	PU	Dimensions	Weight	Article No.	Pages	PU	Dimensions	Weight
23 012 862	66	1	LxWxH 220 x 170 x 170 mm	4,0 kg	23 155 958	83	1	LxWxH 420 x 420 x 70 mm	2,6 kg
23 014	71	1	LxWxH 500 x 400 x 320 mm	19 kg	23 156	83	1	LxWxH 440 x 440 x 70 mm	1,5 kg
23 014 330	71	1	LxWxH 420 x 420 x 320 mm	19,3 kg	23 156 860	83	1	LxWxH 440 x 440 x 50 mm	1,5 kg
23 014 331	71	1	LxWxH 420 x 420 x 320 mm	19,3 kg	23 157 950	83	1	LxWxH 650 x 550 x 150 mm	8,2 kg
23 014 390	71	1	LxWxH 370 x 225 x 200 mm	19,8 kg	23 157 957	83	1	LxWxH 450 x 450 x 130 mm	3,9 kg
23 014 396	71	1	LxWxH 510 x 410 x 300 mm	21,8 kg	23 158 859	83	1	auf Anfrage	1,8 kg
23 014 397	71	1	LxWxH 579 x 540 x 415 mm	20,8 kg	23 158 959	83	1	auf Anfrage	1,8 kg
23 014 398	71	1	LxWxH 500 x 400 x 320 mm	19,3 kg	23 160	84	1	LxWxH 420 x 200 x 65 mm	1,7 kg
23 014 851	71	1	LxWxH 420 x 420 x 320 mm	18,3 kg	23 161	84	1	LxWxH 280 x 120 x 40 mm	2,5 kg
23 014 860	71	1	LxWxH 420 x 420 x 320 mm	18,3 kg	23 161 878	84	1	LxWxH 310 x 180 x 55 mm	0,200 kg
23 014 951	71	1	LxWxH 370 x 225 x 200 mm	18,3 kg	23 168	84	1	LxWxH 420 x 200 x 60 mm	1,964 kg
23 014 955	71	1	LxWxH 510 x 410 x 300 mm	20,8 kg	23 168 860	84	1	auf Anfrage	
23 014 957	71	1	LxWxH 579 x 540 x 415 mm	20,8 kg	23 171	84	1	LxWxH 400 x 175 x 60 mm	0,765 kg
23 015	70	1	LxWxH 400 x 400 x 220 mm	8,0 kg	23 171 860	84	1	auf Anfrage	1,7 kg
23 015 824	70	1	LxWxH 400 x 400 x 220 mm	8,2 kg	23 174	69	1	LxWxH 400 x 120 x 50 mm	1,2 kg
23 015 861	70	1	LxWxH 400 x 400 x 180 mm	8,5 kg	23 176	84	1	LxWxH 400 x 175 x 60 mm	1,500 kg
23 017	71	1	LxWxH 500 x 400 x 330 mm	24,3 kg	23 176 860	84	1	auf Anfrage	1,930 kg
23 017 390	71	1	LxWxH 420 x 420 x 320 mm	25,8 kg	23 177	83	1	LxWxH 1110 x 85 x 85 mm	3,5 kg
23 017 392	71	1	LxWxH 510 x 410 x 300 mm	27,8 kg	23 177 950	83	1	LxWxH 111 x 85 x 85 mm	3,77 kg
23 017 393	71	1	LxWxH 579 x 540 x 415 mm	27,8 kg	23 177 952	83	1	auf Anfrage	kg kg
23 017 398	71	1	LxWxH 500 x 400 x 330 mm	25,3 kg	23 177 953	83	1	auf Anfrage	kg kg
23 017 953	71	1	LxWxH 420 x 420 x 320 mm	24,6 kg	23 177 954	83	1	LxWxH 1110 x 85 x 85 mm	3,77 kg
23 017 955	71	1	LxWxH 510 x 410 x 300 mm	26,8 kg	23 177 955	83	1	auf Anfrage	kg kg
23 017 959	71	1	LxWxH 579 x 540 x 415 mm	26,8 kg	23 178	84	1	LxWxH 440 x 190 x 60 mm	1,88 kg
23 030	66	1	LxWxH 360 x 175 x 225 mm	11,3 kg	23 180	83	1	auf Anfrage	0,014 kg
23 031	66	1	LxWxH 370 x 225 x 200 mm	6,72 kg	23 193	84	1	LxWxH 185 x 165 x 160 mm	2,14 kg
23 034	66	1	LxWxH 350 x 170 x 220 mm	6,8 kg	23 198	83	1	LxWxH 120 x 100 x 50 mm	0,18 kg
23 034 860	66	1	LxWxH 370 x 225 x 200 mm	6,8 kg	23 209	84	1	LxWxH 95 x 95 x 130 mm	0,54 kg
23 036	66	1	LxWxH 370 x 225 x 200 mm	11,85 kg	23 287	84	1	LxWxH 220 x 160 x 75 mm	0,505 kg
23 058	81	1	auf Anfrage		23 290	84	1	LxWxH 95 x 95 x 130 mm	0,6 kg
23 059	81	1	auf Anfrage		23 312 551	42	1	LxWxH 610 x 415 x 310 mm	23,000 kg
23 067	81	1	LxWxH 180 x 160 x 150 mm	2,1 kg	23 312 552	42	1	LxWxH 610 x 415 x 310 mm	23,677 kg
23 070 1	72,82	1	auf Anfrage		23 314 551	43	1	LxWxH 700 x 460 x 570 mm	37,000 kg
23 080	72	1	LxWxH 579 x 540 x 415 mm	22,0 kg	23 314 552	43	1	LxWxH 700 x 460 x 570 mm	37,677 kg
23 082	69	1	LxWxH 420 x 420 x 320 mm	13,0 kg	23 321	42	1	LxWxH 380 x 360 x 250 mm	15 kg
23 082 860	69	1	LxWxH 420 x 420 x 320 mm	13,0 kg	23 321 030	42	1	LxWxH 380 x 360 x 250 mm	16,5 kg
23 083	69	1	LxWxH 420 x 420 x 320 mm	15,3 kg	23 322	42	1	LxWxH 380 x 360 x 250 mm	15 kg
23 083 860	69	1	LxWxH 420 x 420 x 320 mm	15,3 kg	23 322 030	42	1	LxWxH 380 x 360 x 250 mm	15,5 kg
23 084	69	1	LxWxH 420 x 420 x 320 mm	19,5 kg	23 322 135	42	1	LxWxH 610 x 415 x 310 mm	20,5 kg
23 085	69	1	LxWxH 420 x 420 x 320 mm	21,5 kg	23 322 950	43	1	LxWxH 615 x 510 x 420 mm	43,620 kg
23 086	70	1	LxWxH 520 x 410 x 330 mm	12,5 kg	23 322 955	43	1	LxWxH 1010 x 480 x 105 mm	41,233 kg
23 087	70	1	LxWxH 520 x 410 x 330 mm	14,5 kg	23 337	42	1	LxWxH 370x220x200 mm	12,0 kg
23 088	70	1	LxWxH 520 x 410 x 330 mm	9,8 kg	23 337 390	42	1	LxWxH 510 x 410 x 330 mm	18,700 kg
23 089	70	1	LxWxH 520 x 410 x 330 mm	11,8 kg	23 342 551	42	1	LxWxH 1020 x 550 x 220 mm	27,000 kg
23 090	70	1	LxWxH 520x410x330 mm	11,8 kg	23 342 552	42	1	LxWxH 1020 x 550 x 220 mm	27,677 kg
23 091	70	1	LxWxH 520x410x330 mm	13,8 kg	23 344 551	43	1	LxWxH 900 x 750 x 1120 mm	62,000 kg
23 092	70	1	LxWxH 520x410x330 mm	12,5 kg	23 344 552	43	1	LxWxH 900 x 750 x 1120 mm	62,677 kg
23 093	70	1	LxWxH 520x410x330 mm	14,5 kg	23 441	80	1	auf Anfrage	
23 137	92	1	LxWxH 970 x 590 x 180 mm	24,5 kg	23 442	80	1	auf Anfrage	
23 139	92	1	LxWxH 680 x 650 x 1085 mm	43,000 kg	23 443	80	1	auf Anfrage	
23 155 850	83	1	auf Anfrage	3,4 kg	23 444	80	1	auf Anfrage	
23 155 856	83	1	LxWxH 570 x 570 x 80 mm	5 kg	23 446	80	1	auf Anfrage	
23 155 857	83	1	LxWxH 400 x 400 x 90 mm	2,6 kg	23 447	80	1	LxWxH 800x510x620 mm	34 kg
23 155 858	83	1	auf Anfrage	3,8 kg	23 448	80	1	LxWxH 590 x 560 x 430 mm	auf Anfrage
23 155 950	83	1	LxWxH 550 x 550 x 150 mm	3,1 kg	23 449	80	1	LxWxH 590 x 560 x 430 mm	auf Anfrage
23 155 956	83	1	auf Anfrage	5 kg	23 452	72	1	LxWxH 579 x 540 x 415 mm	33 kg
23 155 957	83	1	LxWxH 410 x 410 x 100 mm	1,6 kg	23 454	81	1	LxWxH 447 x 420 x 600 mm	auf Anfrage

Article No.	Pages	PU	Dimensions	Weight
23 456	81	1	auf Anfrage	
23 460	72	1	LxWxH 579 x 540 x 415 mm	auf Anfrage
23 462	72	1	LxWxH 579 x 540 x 415 mm	auf Anfrage
23 464	81	1	LxWxH 447 x 420 x 600 mm	auf Anfrage
23 466	81	1	auf Anfrage	
23 470	72	1	LxWxH 447 x 420 x 600 mm	auf Anfrage
23 472	72	1	LxWxH 447 x 420 x 600 mm	39 kg
23 474	81	1	LxWxH 447 x 420 x 600 mm	auf Anfrage
23 476	81	1	LxWxH 447 x 420 x 600 mm	auf Anfrage
23 480	72	1	LxWxH 447 x 420 x 600 mm	auf Anfrage
23 482	72	1	LxWxH 447 x 420 x 600 mm	auf Anfrage
23 484	81	1	LxWxH 447 x 420 x 600 mm	auf Anfrage
23 486	81	1	LxWxH 447 x 420 x 600 mm	auf Anfrage
23 505	80,81	1	LxWxH 338 x 200 x 196 mm	2,9 kg
23 710	66	1	LxWxH 400 x 400 x 220 mm	4,5 kg
23 711	67	1	LxWxH 400 x 400 x 220 mm	5,31 kg
23 714	67	1	LxWxH 400 x 400 x 220 mm	5,4 kg
23 717	67	1	LxWxH 400 x 400 x 220 mm	5,4 kg
23 720	66	1	LxWxH 400 x 400 x 220 mm	4,4 kg
23 721	67	1	LxWxH 400 x 400 x 220 mm	5,2 kg
23 724	67	1	LxWxH 400 x 400 x 220 mm	5,4 kg
23 727	67	1	LxWxH 400 x 400 x 220 mm	5,4 kg
23 730	66	1	LxWxH 400 x 400 x 220 mm	4,5 kg
23 730 932	66	1	LxWxH 400 x 400 x 220 mm	4,5 kg
23 730 939	66	1	LxWxH 400 x 400 x 220 mm	4,5 kg
23 731	67	1	LxWxH 400 x 400 x 220 mm	5,0 kg
23 731 932	67	1	LxWxH 400 x 400 x 220 mm	5,040 kg
23 731 939	67	1	LxWxH 400 x 400 x 220 mm	4,5 kg
23 734	67	1	LxWxH 400 x 400 x 220 mm	5,4 kg
23 737	67	1	LxWxH 400 x 400 x 220 mm	4,5 kg
23 737 932	67	1	LxWxH 400 x 400 x 220 mm	5,675 kg
23 737 939	67	1	LxWxH 400 x 400 x 220 mm	5,4 kg
23 751	67	1	LxWxH 400 x 400 x 220 mm	4,5 kg
23 911	68	1	LxWxH 350 x 350 x 300 mm	12 kg
23 912	68	1	LxWxH 350 x 350 x 300 mm	14 kg
23 914	68	1	LxWxH 350 x 350 x 300 mm	13 kg
23 915	68	1	LxWxH 350 x 350 x 300 mm	13 kg
23 917	68	1	LxWxH 350 x 350 x 300 mm	13 kg
23 918	68	1	LxWxH 350 x 350 x 300 mm	13 kg
23 921	68	1	LxWxH 350 x 350 x 300 mm	9 kg
23 922	68	1	LxWxH 350 x 350 x 300 mm	11 kg
23 924	68	1	LxWxH 350 x 350 x 300 mm	11 kg
23 925	68	1	LxWxH 350 x 350 x 300 mm	13 kg
23 927	68	1	LxWxH 350 x 350 x 300 mm	10 kg
23 928	68	1	LxWxH 350 x 350 x 300 mm	11 kg
23 931	68	1	LxWxH 350 x 350 x 300 mm	13 kg
23 932	68	1	LxWxH 350 x 350 x 300 mm	14,9 kg
23 934	68	1	LxWxH 350 x 350 x 300 mm	14 kg
23 935	68	1	LxWxH 350 x 350 x 300 mm	15,9 kg
23 937	68	1	LxWxH 350 x 350 x 300 mm	13,7 kg
23 938	68	1	LxWxH 350 x 350 x 300 mm	15,6 kg
27 030	58	1	LxWxH 780 x 580 x 630 mm	31,200 kg
27 030 890	58	1	LxWxH 630 x 580 x 1000 mm	34,700 kg
27 035	58	1	LxWxH 780 x 580 x 630 mm	31,300 kg
27 035 890	58	1	LxWxH 630 x 580 x 1000 mm	34,825 kg
27 040	58	1	LxWxH 780 x 580 x 630 mm	40,000 kg
27 040 890	58	1	LxWxH 630 x 580 x 1000 mm	43,000 kg

Article No.	Pages	PU	Dimensions	Weight
27 070	58	1	LxWxH 780 x 580 x 630 mm	31,800 kg
27 070 890	58	1	LxWxH 630 x 580 x 1000 mm	34,800 kg
27 410	58	1	LxWxH 780 x 580 x 630 mm	43,000 kg
27 410 890	58	1	LxWxH 630 x 580 x 1000 mm	46,000 kg
27 420	58	1	LxWxH 780 x 580 x 630 mm	43,000 kg
27 622	58	1	LxWxH 780 x 580 x 630 mm	28,000 kg
27 622 680	58	1	LxWxH 780 x 580 x 630 mm	33,000 kg
27 622 890	58	1	LxWxH 630 x 580 x 1000 mm	39,250 kg
27 622 891	58	1	LxWxH 780 x 580 x 630 mm	38,380 kg
27 632	58	1	LxWxH 780 x 580 x 630 mm	32,600 kg
27 632 680	58	1	LxWxH 780 x 580 x 630 mm	43,500 kg
27 632 890	58	1	LxWxH 630 x 580 x 1000 mm	47,680 kg
27 632 891	58	1	LxWxH 780 x 580 x 630 mm	45,255 kg
27 700	59	1	LxWxH 600 x 500 x 400 mm	12,700 kg
27 832	37	1	LxWxH 780 x 580 x 630 mm	30,900 kg
27 846	26	1	LxWxH 1080 x 620 x 700 mm	39,700 kg
27 846 056	26	1	LxWxH 680 x 630 x 1090 mm	40,400 kg
27 846 950	26	1	LxWxH 1080 x 620 x 700 mm	23,900 kg
27 859	38	1	LxWxH 580 x 800 x 1300 mm	40,600 kg
27 859 951	38	1	LxWxH 580 x 800 x 1300 mm	40,900 kg
27 905	61	1	ØxL 20 x 745 mm	0,062 kg
27 906	61	1	ØxL 20 x 745 mm	0,064 kg
27 908	61	1	ØxL 20 x 745 mm	0,068 kg
27 915	61	1	ØxL 20 x 745 mm	0,098 kg
27 916	61	1	ØxL 20 x 745 mm	0,112 kg
27 918	61	1	ØxL 20 x 745 mm	0,123 kg
27 926	61	1	ØxL 20 x 1045 mm	0,075 kg
27 928	61	1	ØxL 20 x 1045 mm	0,079 kg
27 948	61	1	ØxL 20 x 1545 mm	0,108 kg
27 958	61	1	ØxL 20 x 1545 mm	0,207 kg
27 963	61	1	LxWxH 18 x 18 x 52 mm	0,036 kg
27 964	61	1	LxWxH 18 x 18 x 54 mm	0,054 kg
27 965	61	1	LxWxH 19 x 15 x 41 mm	0,033 kg
27 966	61	1	LxWxH 160 x 100 x 65 mm	0,649 kg
27 967	61	1	LxWxH 160 x 100 x 65 mm	0,900 kg
27 968	61	1	LxWxH 18 x 18 x 55 mm	0,046 kg
27 985	60	1	LxWxH 230 x 150 x 40 mm	0,802 kg
27 987	60	1	LxWxH 510 x 300 x 490 mm	9,427 kg
27 988	60	1	LxWxH 1110 x 510 x 260 mm	5,950 kg
29 036	87	1	LxWxH 390 x 370 x 240 mm	8,200 kg
29 142	50	1	LxWxH 540 x 580 x 160 mm	18,100 kg
29 142 600	50	1	LxWxH 570 x 530 x 230 mm	18,687 kg
29 142 601	50	1	LxWxH 570 x 530 x 300 mm	19,656 kg
29 142 602	50	1	LxWxH 570 x 530 x 260 mm	20,160 kg
29 142 603	50	1	LxWxH 570 x 530 x 260 mm	20,025 kg
29 142 604	51	1	LxWxH 570 x 530 x 300 mm	20,160 kg
29 143	50	1	LxWxH 540 x 580 x 160 mm	21,500 kg
29 143 600	50	1	LxWxH 570 x 530 x 230 mm	20,290 kg
29 143 601	50	1	LxWxH 570 x 530 x 300 mm	21,250 kg
29 143 602	50	1	LxWxH 570 x 530 x 260 mm	21,520 kg
29 143 603	50	1	LxWxH 570 x 530 x 260 mm	21,630 kg
29 143 604	51	1	LxWxH 570 x 530 x 300 mm	21,760 kg
29 152	50	1	LxWxH 540 x 580 x 160 mm	22,200 kg
29 153	50	1	LxWxH 540 x 580 x 160 mm	24,200 kg
29 162	50	1	LxWxH 540 x 580 x 195 mm	25,400 kg
29 163	50	1	LxWxH 540 x 580 x 195 mm	27,800 kg
29 172	50	1	LxWxH 540 x 580 x 160 mm	25,100 kg

Article No.	Pages	PU	Dimensions	Weight	Article No.	Pages	PU	Dimensions	Weight
29 172 600	51	1	LxWxH 570 x 530 x 230 mm	27,300 kg	29 573	86	1	LxWxH 540 x 580 x 160 mm	26,900 kg
29 172 601	51	1	LxWxH 570 x 530 x 300 mm	27,800 kg	29 582	86	1	LxWxH 540 x 580 x 195 mm	25,800 kg
29 172 602	51	1	LxWxH 570 x 530 x 260 mm	27,900 kg	29 583	86	1	LxWxH 540 x 580 x 195 mm	27,600 kg
29 172 603	51	1	LxWxH 570 x 530 x 260 mm	27,900 kg	29 592	86	1	LxWxH 540 x 580 x 160 mm	25,300 kg
29 172 604	51	1	LxWxH 570 x 530 x 300 mm	27,900 kg	29 593	86	1	LxWxH 540 x 580 x 160 mm	27,400 kg
29 173	50	1	LxWxH 540 x 580 x 160 mm	26,900 kg	29 930	87,34,51,21	1	LxWxH 270 x 210 x 135 mm	2,300 kg
29 173 600	51	1	LxWxH 570 x 530 x 230 mm	28,500 kg	29 932	51	1	LxWxH 1200 x 800 x 1650 mm	225,000 kg
29 173 601	51	1	LxWxH 570 x 530 x 300 mm	28,700 kg	29 940	87,34,51,21	1	LxWxH 300 x 250 x 540 mm	7,800 kg
29 173 602	51	1	LxWxH 570 x 530 x 260 mm	28,600 kg	29 976	21	1	ØxL 55 x 55 mm	0,065 kg
29 173 603	51	1	LxWxH 570 x 530 x 260 mm	28,700 kg	29 977	87	1	ØxL 55 x 55 mm	0,064 kg
29 173 604	51	1	LxWxH 570 x 530 x 300 mm	28,700 kg	29 978	51	1	ØxL 55 x 55 mm	0,062 kg
29 182	50	1	LxWxH 540 x 580 x 195 mm	25,800 kg	29 979	34	1	ØxL 55 x 55 mm	0,060 kg
29 183	50	1	LxWxH 540 x 580 x 195 mm	27,600 kg	29 980	87,34,46,51,21	1	LxWxH x 175 x 170 x 660 mm	3,632 kg
29 192	50	1	LxWxH 540 x 580 x 160 mm	25,300 kg	29 981	87,34,46,51,21	1	LxWxH 345 x 170 x 652 mm	5,470 kg
29 193	50	1	LxWxH 540 x 580 x 160 mm	27,400 kg	36 100	54	1	LxWxH 360 x 250 x 80 mm	3,100 kg
29 242	20	1	LxWxH 540 x 580 x 160 mm	17,900 kg	36 110	54	1	LxWxH 200 x 150 x 60 mm	1,200 kg
29 243	20	1	LxWxH 540 x 580 x 160 mm	19,900 kg	36 120	54	1	LxWxH 250 x 140 x 130 mm	5,800 kg
29 252	20	1	LxWxH 540 x 580 x 160 mm	21,500 kg	36 130	54	1	LxWxH 230 x 155 x 50 mm	1,300 kg
29 253	20	1	LxWxH 540 x 580 x 160 mm	23,500 kg	36 150	54	1	LxWxH 100 x 70 x 70 mm	0,608 kg
29 262	21	1	LxWxH 540 x 580 x 190 mm	25,300 kg	36 160	54	1	LxWxH 120 x 120 x 75 mm	0,642 kg
29 263	21	1	LxWxH 540 x 580 x 190 mm	27,100 kg	36 200	54	1	LxWxH 410 x 310 x 135 mm	7,100 kg
29 272	21	1	LxWxH 540 x 580 x 160 mm	24,400 kg	36 210	54	1	LxWxH 200 x 150 x 60 mm	1,200 kg
29 273	21	1	LxWxH 540 x 580 x 160 mm	26,200 kg	36 220	54	1	LxWxH 255 x 150 x 125 mm	6,120 kg
29 282	21	1	LxWxH 540 x 580 x 190 mm	25,100 kg	36 230	54	1	LxWxH 230 x 155 x 50 mm	1,300 kg
29 283	21	1	LxWxH 540 x 580 x 190 mm	26,900 kg	36 240	54	1	LxWxH 150 x 120 x 60 mm	0,150 kg
29 292	21	1	LxWxH 540 x 580 x 160 mm	24,600 kg	36 250	54	1	LxWxH 115 x 95 x 185 mm	3,940 kg
29 293	21	1	LxWxH 540 x 580 x 160 mm	26,700 kg	36 260	54	1	LxWxH 120 x 120 x 75 mm	0,739 kg
29 341	33	1	LxWxH 540 x 580 x 160 mm	19,350 kg	36 402	54	1	LxWxH 445 x 300 x 255 mm	6,300 kg
29 351	33	1	LxWxH 540 x 580 x 195 mm	23,450 kg	36 501	54	1	LxWxH 380 x 320 x 200 mm	2,800 kg
29 361	34	1	LxWxH 540 x 580 x 195 mm	26,650 kg	36 502	54	1	auf Anfrage	
29 371	34	1	LxWxH 540 x 580 x 160 mm	26,350 kg	36 503	54	1	auf Anfrage	
29 381	34	1	LxWxH 540 x 580 x 195 mm	27,100 kg	36 504	54	1	LxWxH 380 x 320 x 200 mm	2,800 kg
29 391	34	1	LxWxH 540 x 580 x 160 mm	28,650 kg	36 511	54	1	LxWxH 380 x 320 x 200 mm	2,800 kg
29 442	86	1	LxWxH 540 x 580 x 160 mm	17,000 kg	36 512	54	1	LxWxH 380 x 320 x 200 mm	2,800 kg
29 443	86	1	LxWxH 540 x 580 x 160 mm	22,000 kg	36 515	54	1	LxWxH 380 x 320 x 200 mm	2,800 kg
29 452	86	1	LxWxH 540 x 580 x 160 mm	21,100 kg	36 516	54	1	LxWxH 380 x 320 x 200 mm	2,800 kg
29 453	86	1	LxWxH 540 x 580 x 160 mm	23,200 kg	45 090	46	1	LxWxH 730 x 700 x 1180 mm	55,000 kg
29 462	86	1	LxWxH 540 x 580 x 190 mm	24,400 kg	45 091	46	1	LxWxH 980 x 760 x 1370 mm	82 kg
29 463	86	1	LxWxH 540 x 580 x 190 mm	26,800 kg	45 093	46	1	LxWxH 1280 x 760 x 1370 mm	110,000 kg
29 472	86	1	LxWxH 540 x 580 x 160 mm	24,100 kg	45 095	46	1	LxWxH 1630 x 755 x 1870 mm	165,000 kg
29 473	86	1	LxWxH 540 x 580 x 160 mm	25,500 kg	45 100	46,59	1	LxWxH 1280 x 760 x 1420 mm	94,000 kg
29 482	86	1	LxWxH 540 x 580 x 190 mm	24,800 kg	45 101	46,59	1	LxWxH 980 x 760 x 1420 mm	72,000 kg
29 483	86	1	LxWxH 540 x 580 x 190 mm	26,600 kg	45 105	46	1	LxWxH 1630 x 755 x 1870 mm	165,000 kg
29 492	86	1	LxWxH 540 x 580 x 160 mm	24,300 kg	45 140	75	1	LxWxH 75 x 70 x 65 mm	0,03 kg
29 493	86	1	LxWxH 540 x 580 x 160 mm	26,400 kg	45 314	75	1	LxWxH 1200 x 800 x 900 mm	45,0 kg
29 542	86	1	LxWxH 540 x 580 x 160 mm	18,100 kg	45 400	46,59	1	LxWxH 730 x 700 x 1180 mm	50,000 kg
29 543	86	1	LxWxH 540 x 580 x 160 mm	21,500 kg	87 056	90	1	auf Anfrage	
29 552	86	1	LxWxH 540 x 580 x 160 mm	22,200 kg	87 563	47,60	1	ØxL 56 x 530 mm	2,184 kg
29 553	86	1	LxWxH 540 x 580 x 160 mm	24,200 kg	87 626	33,62	1	LxWxH 205 x 200 x 180 mm	2,221 kg
29 562	86	1	LxWxH 540 x 580 x 195 mm	25,400 kg	88 118	46	1	LxWxH 725 x 635 x 90 mm	8,500 kg
29 563	86	1	LxWxH 540 x 580 x 195 mm	27,800 kg	88 129	46	1	LxWxH 735 x 565 x 75 mm	7,500 kg
29 572	86	1	LxWxH 540 x 580 x 160 mm	25,100 kg	88 130	46	1	LxWxH 735 x 475 x 75 mm	6,500 kg

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