

Product catalogue

valid from 01. April 2024



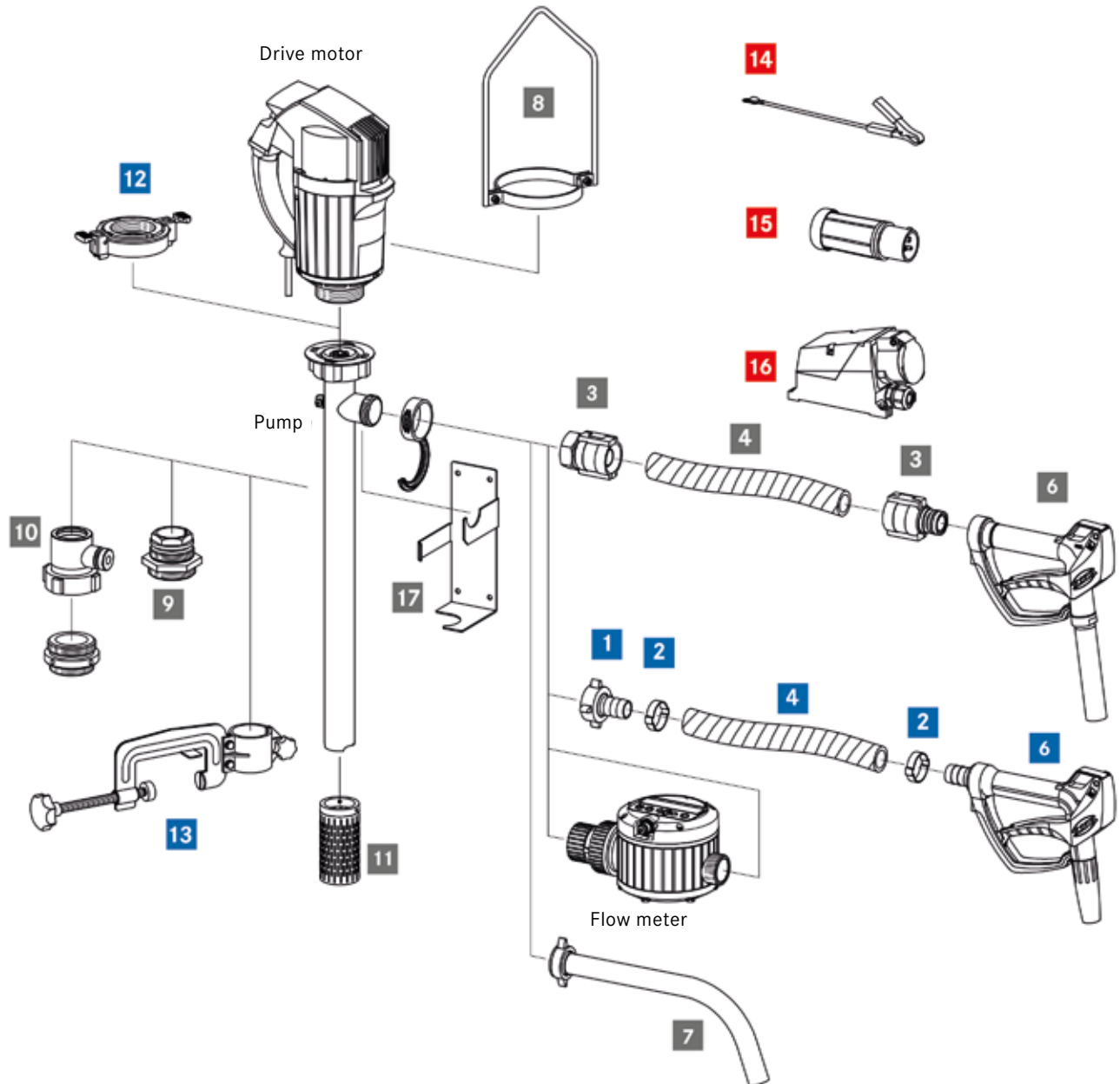
More than just pumps



Accessories

of drum and progressive cavity pumps

- for use in hazardous areas
- for use in non hazardous areas
- for use in hazardous and non hazardous areas



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Pump kits

F 300

F 400

F 500

VISCOFLUX

Flow
meter

Mixer

F 600
F 700

RFM
FDM





Errors and changes excepted.

Certificates and conformities

Certificates and Conformities

The right solution for every industry

Certified safety for the most widest range of industries and countries: FLUX products have been developed and certified for use around the world; they comply with the highest demands and safety standards. With FLUX you are always on the safe side everywhere.

<p>All FLUX products conform to pertinent fundamental health & safety regulations of the EC Machinery Directive 2006/42/EC and are therefore CE certified. They also have the UKCA approval for the British market.</p>	
<p>Dependent on version, FLUX motors are available with VDE GS, UL or also CSA test certification.</p>	
<p>For usage in pharmaceutical, food and cosmetics industries there are the following products available:</p> <ul style="list-style-type: none"> • pumps with 3A certification • FLUX FOOD pumps conform to EC 1935/2004, suitable for contact with food • products conform to FDA CFR 21 	
<p>For usage in hazardous areas there are FLUX products available with explosion protection, built and certified according to ATEX Directive 2014/34/EU.</p>	

To learn more about our product range contact your local sales partner or go to www.flux-pumps.com



Pump kits

Pump kit "JUNIORFLUX" for low volumes

Pump with fixed motor

drum pump in polypropylene, sealless, with hastelloy C shaft, **commutator motor F 310**, 230 V, 50-60 Hz, 230 watt (with integral motor) and hand nozzle PP

- JUNIORFLUX **F 314 PP-25/19** PVC hose DN 13, 1,5 m long

	immersion length	part no.	
for canister emptying	700 mm	10-31443007	●
for drum emptying	1.000 mm	10-31443010	●

- JUNIORFLUX **F 314 PP-32/25** PVC hose DN 19, 1,5 m long

	immersion length	part no.	
for drum emptying	1.000 mm	10-31444010	●



Pump kit "JUNIORFLUX AdBlue®" * for low volumes

drum pump JUNIORFLUX **F 314 PP/S-32/25** in polypropylene, with stainless steel shaft, sealless, **commutator motor F 310**, 230 V, 50 Hz, 230 watt (with integral motor), PVC hose DN 19, 2 m with hand nozzle PP AdBlue® * version with small outlet Ø 19 mm

	immersion length	part no.	
for drum emptying	1.000 mm	10-31444ZV2	●



Pump kit "COMBIFLUX" for low volumes

with removable battery motor

drum pump in polypropylene, sealless, hastelloy C shaft, brushless DC, **battery motor FBM-B 3100**, includes 18 V Li-Ion battery, charger 220-240 V, 50-60 Hz, with hand nozzle PP

- COMBIFLUX **FP 314 PP-25/19**, PVC hose DN 13, 1,5 m long

	immersion length	part no.	
for canister emptying	700 mm	10-31448807	●
for drum emptying	1.000 mm	10-31448810	●

- COMBIFLUX **FP 314 PP-32/25**, PVC hose DN 19, 1,5 m long

	immersion length	part no.	
for drum emptying	1.000 mm	10-31449910	●



Pump kit „COMBIFLUX AdBlue®" * for low volumes

with removable battery motor

drum pump COMBIFLUX **FP 314 PP/S-32/25** in polypropylene with stainless steel shaft, sealless, brushless DC **battery motor FBM-B 3100**, includes 18 V Li-Ion battery, charger 220-240 V, 50-60 Hz, PVC hose DN 19, 2 m long with hand nozzle PP AdBlue® * version with small outlet Ø 19 mm

	immersion length	part no.	
for drum emptying	1.000 mm	10-31449ZV2	●



* AdBlue® is a registered trademark of: Verband der Automobilindustrie e. V. (VDA)

Pump kits about series F 400

Pump kit "acids and alkalis"

drum pump in polypropylene with hastelloy C shaft, **commutator motor FEM 4070**, 230 V, 50 Hz, 500 watt with speed control and no-volt-release, PVC hose DN 19, 2 m long with hand nozzle in PP and compression gland PP (G 2" male)

- drum pump **F 430 PP-40/33** with mechanical seal, seal material FKM

	immersion length	part no.	
for drum emptying	1.000 mm	10-40740010	●
for IBC emptying	1.200 mm	10-40740012	●

- drum pump **F 424 PP-41/36** sealless

	immersion length	part no.	
for drum emptying	1.000 mm	10-40744010	●
for IBC emptying	1.200 mm	10-40744012	●

Pump kit "concentrated acids"

drum pump **F 430 PVDF-40/33** in polyvinylidene fluoride with hastelloy C shaft, mechanical seal, seal material FKM, **commutator motor F 458**, 230 V, 50 Hz, 460 watt with no-volt-release, chemical hose DN 19, 2 m long with hand nozzle in PVDF, compression gland PP (G 2" male)

	immersion length	part no.	
for drum emptying	1.000 mm	10-45860010	●
for IBC emptying	1.200 mm	10-45860012	●

Pump kit "FES 800" for the transfer of cleaning and disinfecting agents

drum pump **F 424 PP-41/36** in polypropylene with hastelloy C shaft, sealless, with FLUX fume gland (FES), **commutator motor FEM 4070**, 230 V, 50 Hz, 500 watt, with speed control and no-volt-release, PVC hose DN 19, 2 m long and hand nozzle PP

	immersion length	part no.	
for 60 litre containers	800 mm	10-40744208	●

Pump kit "AdBlue®" * for IBC emptying

container pump **F 424 PP/S-41/35 Z** in polypropylene with stainless steel shaft, sealless, **commutator motor FEM 4070**, 230 V, 50 Hz, 500 watt, with speed control and no-volt-release

- with PVC hose DN 19, 3 m long, with hand nozzle in PP and compression gland PP (G 2" male)

	immersion length	part no.	
for IBC emptying	1.200 mm	10-40744112	●

- with special hose DN 16, 6 m long, with **hand nozzle with auto-stop function** in AL and compression gland PP (G 2" male)

	immersion length	part no.	
for IBC emptying	1.200 mm	10-40741ZV6	●

* AdBlue® is a registered trademark of: Verband der Automobilindustrie e. V. (VDA)



Pump kits

Pump kit “petroleum products”

drum pump **F 430 AL-41/38** in aluminium with stainless steel shaft, mechanical seal, seal material NBR, petroleum hose DN 25, 2 m long, hand nozzle AL and compression gland PP (G 2" male)

- with **commutator motor FEM 4070**, 230 V, 50 Hz, 500 watt with speed control and no-volt-release

	immersion length	part no.	
for drum emptying	1.000 mm	10-40710010	●
for IBC emptying	1.200 mm	10-40710012	●

- with **commutator motor F 457**, 230 V, 50 Hz, 800 watt, with no-volt-release

	immersion length	part no.	
for drum emptying	1.000 mm	10-45710010	●
for IBC emptying	1.200 mm	10-45710012	●



Pump kit “highly flammable liquids”

drum pump **FP 424 Ex S-43/38** for applications in Zone 0, Ex-marking II 1/2 G Ex h IIB T4...T3 Ga/Gb, in stainless steel with stainless steel shaft, sealless, 2 m earth wire, universal hose DN 21, 2 m long, electrically conductive with brass hose fittings and hand nozzle in brass, compression gland PP electrically conductive (G 2" male)

- with **commutator motor F 460 Ex**, 230 V, 50 Hz, 460 watt, with no-volt-release for applications in Zone 0, Ex-marking II 2 G Ex db eb IIC T6 or T5 Gb

	immersion length	part no.	
for drum emptying	1.000 mm	10-46024010	●
for IBC emptying	1.200 mm	10-46024012	●

- with **commutator motor F 460 Ex EL**, 230 V, 50 Hz, 460 Watt, with no-volt-release, with electronic speed adjustment for use in zone 1, Ex marking II 2 G Ex db eb IIC T6 resp. T5 Gb

	immersion length	part no.	
for drum emptying	1.000 mm	10-46024110	●
for IBC emptying	1.200 mm	10-46024112	●

- with **compressed-air motor F 416 Ex**, 470 watt at 6 bar for applications in Zone 0, Ex-marking II 2G Ex h IIC T6 Gb

	immersion length	part no.	
for drum emptying	1.000 mm	10-41624010	●
for IBC emptying	1.200 mm	10-41624012	●



Pump kit “99,98 % drum emptying”

drum pump **FP 425 Ex S-41/34** for applications in Zone 0, Ex-marking III 1/2 G Ex h IIB T4...T3 Ga/Gb, in stainless steel with stainless steel shaft, mechanical seal (FKM), 2 m earth wire, universal hose DN 21, 2 m long electrically conductive with stainless steel hose fittings and hand nozzle, compression gland PP electrically conductive (G 2" male)

- with **commutator motor F 460 Ex**, 230 V, 50 Hz, 460 watt with no-volt-release for applications in Zone 1, Ex-marking II 2 G Ex db eb IIC T6 or T5 Gb

	immersion length	part no.	
for drum emptying	1.000 mm	10-46025010	●
for IBC emptying	1.200 mm	10-46025012	●



Pump kit “universal applications”

drum pump **F 430 S-41/38** in stainless steel, for applications in Zone 0, Ex-marking II 2G Ex h IIB T4 Gb X with stainless steel shaft, mechanical seal (FKM), 2 m earth wire, universal hose DN 21, 2 m long electrically conductive with stainless steel hose fittings and hand nozzle, compression gland PP electrically conductive (G 2" male)

- with **commutator motor F 460 Ex**, 230 V, 50 Hz, 460 watt with no-volt-release for applications in Zone 1, Ex-marking II 2 G Ex db eb IIC T6 or T5 Gb

	immersion length	part no.	
for drum emptying	1.000 mm	10-46020010	●
for IBC emptying	1.200 mm	10-46020012	●

- with **compressed-air motor F 416 Ex**, 470 watt at 6 bar for applications in Zone 1, Ex-marking II 2G Ex h IIC T6 Gb

	immersion length	part no.	
for drum emptying	1.000 mm	10-41620010	●
for IBC emptying	1.200 mm	10-41620012	●

Pump kit MINIFLUX

drum pump **MINIFLUX S-41/38-136** in stainless steel with stainless steel shaft, mechanical seal FKM, PVC hose DN 19, 2 m long, hand nozzle PP

- with **commutator motor FEM 4070**, 230 V, 50 Hz, 500 watt with speed control and no-volt-release

	part no.	
for IBC emptying	10-40729000	●

Pump kit “fire brigade”

drum pump **F 430 PP-40/33** in polypropylene with hastelloy C shaft, mechanical seal, seal material FKM

- with **commutator motor F 458**, 24 V DC, 410 watt, PVC hose DN 19, 2 m with hand nozzle PP

	immersion length	part no.	
for drum emptying	1.000 mm	10-45840610	●

Pump kit “fire brigade” for industrial applications up to 25.000 mPas

Progressive cavity pump VISCOPOWER **F 570 1200 FKM_o FKM SP TS R52 PTFE G16** F 570 planetary gear, with ratio 1:16 torsion shaft, in stainless steel, with open mechanical seal, seal made of FKM, outer Ø 53 mm, connection Clamp 2“, food and chemical hose DN 32, 2,5 m long, discharge spout in stainless steel

- with **commutator motor F458-1**, 230 V, 700 Watt, IP 55, with no-volt release

	immersion length	part no.	
or drum emptying	1.200 mm	10-45890004	●



Pump kits

Pump kit for food and pharmaceuticals

FP 427 S-43/38 FOOD drum pump in stainless for contact with food in accordance with (EC) 1935/2004 and FDA CFR 21

Sealless, materials in contact with medium in stainless steel, PTFE, FKM, outer tube diameter 43 mm, 1 1/2" clamp connection, food hose DN 25, 2 m long, with hose fittings and hand nozzle in stainless steel, compression gland PP (G 2)

- with **commutator motor F 458**, 230 Volt, 50 Hz, 460 Watt, IP 55 with no-volt release, with special sealing for extreme usage conditions

	immersion length	part no..	
for drum emptying	1.000 mm	10-45827610	●
for IBC emptying	1.200 mm	10-45827612	●



Pump kit for food and pharmaceuticals in Ex version

FP 430 Ex FOOD S-41/38 drum pump in stainless for contact with food in accordance with (EC) 1935/2004 and FDA CFR 21

Ex marking II 2G Ex h IIB T4 Gb X, for use in zone 0

With mechanical seal in oxide ceramics, PTFE/carbon, seals in FKM, shaft and rotor in stainless steel 316 Ti, outer diameter 41 mm, 1 1/2" clamp connection food hose DN 19, 2 m long, with hose fittings and hand nozzle in stainless steel, compression gland PP (G 2)

- with **commutator motor F 460 Ex**, 230 Volt, 50 Hz, 460 Watt, Ex marking II 2 G Ex db eb IIC T6 Gb with no-volt release

	immersion length	part no..	
for drum emptying	1.000 mm	10-46020510	●
for IBC emptying	1.200 mm	10-46020512	●



Pump kit for food and pharmaceuticals up to 25.000 mPas

Progressive cavity pump VISCOPOWER

F 570 FOOD FKMc FKM SP TS R33 PTFE G16

for contact with food in accordance with (EC) 1935/2004 and FDA CFR 21 F 570 planetary gear, ratio 1:16, torsion shaft, in stainless steel, with closed mechanical seal, seals made of FKM, outer Ø 53 mm, connection Clamp 2", stator material PTFE, food hose DN 25, 2.5 m long, with hose fittings and discharge spout in stainless steel, compression gland PP (G 2)

- with **commutator motor F 458-1**, 230 Volt, 50 Hz, 700 Watt, IP 55, with no-volt release, connection cable 5 m

	immersion length	part no..	
for drum emptying	1.000 mm	10-45890002	●
for IBC emptying	1.200 mm	10-45890003	●



Pump kit for industrial applications up to 30.000 mPas

Progressive cavity pump VISCOPOWER

F 570 FKM0 FKM SP TS R33 PTFE G16

F 570 planetary gear, ratio 1:16, torsion shaft, in stainless steel, with closed mechanical seal, seals made of FKM, outer Ø 53 mm, connection Clamp 2" with adapter on G 1 1/2" external thread, stator material PTFE, food hose DN 32, 2.5 m long, with hose fittings and discharge spout in stainless steel, compression gland PP (G 2)

- with **commutator motor F 457**, 230 Volt, 50 Hz, 800 Watt, with splash water protection IP 24, with no-volt release, 5 m connection cable

	immersion length	part no..	
for drum emptying	1.000 mm	10-45790002	●
for IBC emptying	1.200 mm	10-45790003	●



JUNIORFLUX/COMBIFLUX (series 300)

for low volumes



JUNIORFLUX (series 300)

with integral motor

F 300

JUNIORFLUX F 310 with mechanical seal, in polypropylene with hastelloy C shaft

seal in FKM, G 1" male discharge connection with **commutator motor F 310**, 230 V, 50 Hz, 230 watt, splash-proof to IP 24. Without hose connections. PP-25 suitable for narrow openings < 32 mm.

- **F 310 PP-25/19**

immersion length	part no.	
500 mm	10-31041005	●
700 mm	10-31041007	●
1.000 mm	10-31041010	●

- **F 310 PP-32/25**

immersion length	part no.	
500 mm	10-31042005	●
700 mm	10-31042007	●
1.000 mm	10-31042010	●

JUNIORFLUX F 314 sealless, with hastelloy C shaft

G 1" male discharge connection with **commutator motor F 310**, 230 V, 50 Hz, 230 watt, splash-proof to IP 24. Without hose connections. PP-25 and PVDF-25 models suitable for narrow openings < 32 mm. Not recommended for small solids, abrasive or crystallising liquids.

- **F 314 PP-25/19** in polypropylene

immersion length	part no.	
500 mm	10-31441005	●
700 mm	10-31441007	●
1.000 mm	10-31441010	●

- **F 314 PP-32/25** in polypropylene

immersion length	part no.	
500 mm	10-31442005	●
700 mm	10-31442007	●
1.000 mm	10-31442010	●

- **F 314 PVDF-25/19** in polyvinylidene fluoride

immersion length	part no.	
500 mm	10-31461005	●
700 mm	10-31461007	●
1.000 mm	10-31461010	●

JUNIORFLUX F 314, sealless, in stainless steel, with stainless steel shaft

G 3/4" male discharge connection with **commutator motor F 310**, 230 V, 50 Hz, 230 watt, splash-proof to IP 24, without hose connections. Not recommended for abrasive or crystallising liquids.

- **F 314 S-28/25**

immersion length	part no.	
500 mm	10-31421005	●
700 mm	10-31421007	●
1.000 mm	10-31421010	●



Hose connection see page 14

COMBIFLUX (series 300)

with separate motor



Drum pump FP 314, sealless, combined with commutator motor (FEM 3070) or battery motor (FBM-B 3100). Not recommended for small solids, abrasive or crystallising liquids.

COMBIFLUX FP 314, sealless pump

- **FP 314 PP-25/19** in polypropylene with **hastelloy C shaft**, G 1" male discharge connection. Without hose connections

immersion length	part no.	
500 mm	10-31445905	●
700 mm	10-31445907	●
1.000 mm	10-31445910	●

- **FP 314 PP-32/25** in polypropylene with **hastelloy C shaft**, G 1" male discharge connection. Without hose connections

immersion length	part no.	
500 mm	10-31446905	●
700 mm	10-31446907	●
1.000 mm	10-31446910	●
1.200 mm	10-31446912	●

- **FP 314 PVDF-25/19** in polyvinylidene fluoride with **hastelloy C shaft**, G 1" male discharge connection. Without hose connections

immersion length	part no.	
500 mm	10-31465905	●
700 mm	10-31465907	●
1.000 mm	10-31465910	●

- **FP 314 S-28/25** in stainless steel with **stainless steel shaft**, G 3/4" male discharge connection. Without hose connections

immersion length	part no.	
500 mm	10-31426905	●
700 mm	10-31426907	●
1.000 mm	10-31426910	●
1.200 mm	10-31426912	●



F 300

Drive motors suitable for COMBIFLUX FP 314

- **commutator motor FEM 3070**, 230 watt, splash-proof to IP 24 with 5 m cable and plug

	part no.	
230 V, 50-60 Hz	10-30701000	●
240 V, 50 Hz	10-30701001	●
120 V, 60 Hz	10-30701002	●
110 V, 50-60 Hz	10-30701003	●
100 V, 50-60 Hz	10-30701004	● ●



- **brushless DC battery motor FBM-B 3100**, with electronic temperature control, splash-proof to IP 44, includes Li-Ion 18 V, 2.5 Ah battery

	part no.	
with charger 220-240 V, 50-60 Hz	10-30101000	●
with charger 100-120 V, 50-60 Hz	10-30101003	●
without charger	10-30101001	●



Accessories for battery motor FBM-B 3100

- **battery without charger**, type Li-ion, 18 V, 2,5 Ah

	part no.	
B25-3100	10-30102002	●

- **charger without battery**, BCH-3100, 50-60 Hz

	part no.	
220-240 V	10-30102003	●
100-120 V	10-30102004	●



Hose connection see page 14

Accessories

JUNIORFLUX/COMBIFLUX (series 300)

F 300

Hose connections consisting of hose connector and union nut for JUNIORFLUX F 310/F 314 and COMBIFLUX FP 314

material	nominal Ø	part no.	
PP	DN 13/DN 19	10-95904135	●
PVDF	DN 13	10-95904071	●
PVDF	DN 19	10-95904072	●
S	DN 13	10-95904133	●
S	DN 19	10-95904147	●



PVC hoses

	operating pressure max.	part no.	
DN 13 outer Ø 20 mm (with fabric lining)	10 bar	10-00110008	●
DN 19 outer Ø 27 mm (with steel wire-helix)	5 bar	10-00110040	●



Stepless 1-ear hose clips for PVC hoses

	part no.	
DN 13	10-95913237	●
DN 19	10-95913241	●



Hand nozzles

material	nominal Ø	outlet-Ø	part no.	
PP	DN 13	11 mm	10-00113034	●
PP	DN 19	11 mm	10-00113039	●
PP	DN 19	22 mm	10-00112500	●
PVDF	DN 19	22 mm	10-00112501	●
S	DN 19	28 mm	10-00112541	●
S	G 3/4	28 mm	10-00112555	●



Hose kit for JUNIORFLUX/COMBIFLUX

PVC hose 1,5 m long with hand nozzle in PP (spout Ø 11 mm), hose connection and hose clip

connection	part no.	
DN 13	10-00110825	●
DN 19	10-00110846	●



Discharge spout for JUNIORFLUX/COMBIFLUX

Material: PP

connection	part no.	
union nut G 1	10-95907008	●



Flow meter FMT 120 PP with interlocked wheel impeller in the measuring chamber

in conjunction with our JUNIORFLUX/COMBIFLUX pumps. Construction in PP with fibreglass, not ex-proof, outlet connection G 1" male, O-ring PTFE

inlet connection female	part no.	
G 1	10-A0500101	●
G 1 ¼	10-A0500102	●



Drum adaptor for safety attachment of the JUNIORFLUX/COMBIFLUX pumps in canisters or plastic drums

	material	pump-Ø	part no.	
canister bunghole 40 - 70 mm	PVC	32 mm	10-00114081	●
canister bunghole 40 - 70 mm	PP/PVC	28 mm	10-00114079	●
canister bunghole 40 - 70 mm	PP/PVC	25 mm	10-00114080	●
canister bunghole 40 - 70 mm	PVDF/PVC	28 mm	10-00114082	●
canister bunghole 40 - 70 mm	PVDF/PVC	25 mm	10-00114083	●



Drum and container pumps

series 400



Drive motors

for drum and container pumps, series 400
and progressive cavity pumps VISCOPOWER F 570



commutator motor
FEM 4070



commutator motor
F 457
F 457 EL



commutator motor
F 458
F 458 EL
F 458-1



commutator motor
F 460 Ex
F 460-1 Ex
F 460 Ex EL



brushless motor
FBM 4000 Ex

Type	capacity (watt)	speed control	protection class	cable	plug	with no-volt-release	without no-volt-release
						part no.	part no.

motors with 230 volt, 50 Hz

FEM 4070	500	yes	IP 24	5 m	CEE 7/17	10-40701000	●	10-40701001	●
				5 m	-	10-40701004	●	10-40701005	●
F 457	800	no	IP 24	5 m	CEE 7/17	10-45701005	●	10-45701002	●
				5 m	-	10-45701039	●	10-45701038	●
F 457 EL	800	yes	IP 24	5 m	CEE 7/17	10-45701003	●	10-45701041	●
				5 m	-	10-45701040	●	-	
F 458	460	no	IP 55	5 m	CEE 7/7	10-45800034	●	10-45800031	●
F 458 EL	460	yes	IP 55	5 m	CEE 7/7	10-45800047	●	-	
F 458-1	700	no	IP 55	5 m	CEE 7/7	10-45801026	●	10-45801025	●
F 460 Ex	460	no	IP 55	5 m	CEE 7/7	10-46000047	●	10-46000044	●
				5 m	-	10-46000059	●	10-46000058	●
				5 m	Ex-CEE type CEAG	12-46030017	●	12-46030035	●
				5 m	Ex-CEE type Stahl	12-46030006	●	12-46030044	●
F 460 Ex EL	460	yes	IP 55	5 m	CEE 7/7	10-46000067	●	-	
				5 m	-	10-46000069	●	-	
				5 m	Ex-CEE type CEAG	12-46030052	●	-	
				5 m	Ex-CEE type Stahl	12-46030042	●	-	
F 460-1 Ex	700	no	IP 55	5 m	CEE 7/7	10-46001028	●	10-46001027	●
				5 m	-	10-46001038	●	10-46001037	●
				5 m	Ex-CEE type CEAG	12-46030032	●	12-46030014	●
				5 m	Ex-CEE type Stahl	12-46030033	●	12-46030043	●

motors with 230 Volt, 50-60 Hz

FEM 4070	500	yes	IP 24	5 m	CEE 7/17	10-40701023	●	10-40701025	●
F 457	800	no	IP 24	5 m	CEE 7/17	-		10-45701037	●
F 458	460	no	IP 55	5 m	CEE 7/7	-		10-45800043	●
F 460 Ex	460	no	IP 55	5 m	CEE 7/7	-		10-46000060	●
F 460-1 Ex	700	no	IP 55	5 m	CEE 7/7	-		10-46001039	●
FBM 4000 Ex	600	yes	IP 55	5 m	CEE 7/7	10-40001000*	●	-	
				5 m	-	10-40001001*	●	-	
				5 m	Ex-CEE type CEAG	12-40000007*	●	-	
				5 m	Ex-CEE type Stahl	12-40000008*	●	-	

motors with 230-240 Volt, 50-60 Hz for ambient temperature to 60 °C in Ex area

F 460 Ex HT	420-470	no	IP 55	5 m	-	10-46000064	●	10-46000063	●
F 460 Ex HT	420-470	no	IP 55	-	Ex-CEE type CEAG	12-46030062	●	12-46030045	●

* Motors without anti-rotation device



commutator motor
FEM 4070



commutator motor
F 457
F 457 EL



commutator motor
F 458
F 458 EL
F 458-1



commutator motor
F 460 Ex
F 460 Ex UL

Type	capacity (watt)	speed control	protection class	cable	plug	with no-volt-release	without no-volt-release
						part no.	part no.

motors with 240 Volt, 50 Hz

FEM 4070	500	ja	IP 24	5 m	CEE 7 / 17	10-40701008	●	10-40701009	●
				5 m	-	10-40701010	●	10-40701011	●
F 457	800	nein	IP 24	5 m	CEE 7 / 17	10-45701006	●	10-45701007	●
				5 m	-	10-45701013	●	10-45701012	●
F 457 EL	800	ja	IP 24	5 m	CEE 7 / 17	10-45701008	●	-	
				5 m	-	10-45701016	●	-	
F 458	460	nein	IP 55	5 m	-	12-45830004	●	12-45830003	●
F 458-1	700	nein	IP 55	5 m	-	12-45830008	●	12-45830009	●
F 460 Ex	460	nein	IP 55	5 m	CEE 7 / 7	12-46030008	●	-	
				5 m	-	-	●	12-46030016	●
F 460-1 Ex	700	nein	IP 55	5 m	-	12-46030021	●	12-46030022	●

motors with 120 Volt, 60 Hz

FEM 4070	500	yes	COF ENC 2	5 m	NEMA 1-15P	10-40701012	●	10-40701013	●
			IP 24	5 m	NEMA 1-15P	10-40701014	●	10-40701015	●
F 457	800	no	IP 24	5 m	NEMA 1-15P	10-45701004	●	10-45701000	●
F 457 EL	800	yes	IP 24	5 m	NEMA 1-15P	10-45701001	●	-	
F 458	460	no	COF CSA ENC 3 TP	5 m	NEMA 5-15P	-		10-45800044	●
F 458-1	700	no	COF CSA ENC 3 TP	5 m	NEMA 5-15P	-		10-45801034	●
F 460-1 Ex UL	700	no	-	5 m	-	-		10-46001040	●
F 460 Ex UL	460	no	-	5 m	-	-		10-46000062	●

motors with 100 Volt, 50-60 Hz

FEM 4070	450	yes	IP 24	5 m	JIS C8303	10-40701020	●	10-40701021	●
F 460 Ex	460	no	IP 55	5 m	-	-		12-46030024	●

* Motors without anti-rotation device

Ex-marking: II 2 G Ex db eb IIC T6 bzw. T5 Gb

Drive motors

for drum and container pumps, series 400
and progressive cavity pumps VISCOPOWER F 570



commutator motor
FEM 4070



commutator motor
F 457
F 457 EL



commutator motor
F 458
F 458-1



commutator motor
F 460 Ex
F 460-1 Ex



Ex-marking:
II 2 G Ex
db eb IIC T6
resp. T5 Gb

F 400

Type	capacity (watt)	speed control	protection class	cable	plug	with no-volt-release	without no-volt-release
						part no.	part no.

motors with 110 Volt, 50 Hz

FEM 4070	500	ja	IP 24	5 m	CEE 7/17	10-40701016	●	10-40701017	●
				5 m	-	10-40701018	●	10-40701019	●
F 457	800	nein	IP 24	5 m	CEE 7/17	10-45701009	●	10-45701010	●
				5 m	-	10-45701015	●	10-45701014	●
F 457 EL	800	ja	IP 24	5 m	CEE 7/17	10-45701011	●	-	-
				5 m	-	10-45701017	●	-	-
F 458	460	nein	IP 55	5 m	-	12-45830005	●	-	-
F 458-1	700	nein	IP 55	5 m	CEE 7/7	12-45830006	●	-	-
				5 m	-	12-45830007	●	-	-
F 460 Ex	460	nein	IP 55	5 m	-	12-46030009	●	-	-
F 460-1 Ex	700	nein	IP 55	5 m	CEE 7/7	12-46030011	●	-	-
				5 m	-	12-46030012	●	-	-

motors with 110 Volt, 50-60 Hz

F 458	460	nein	IP 55	5 m	-	-	-	12-45830002	●
F 458-1	700	nein	IP 55	5 m	-	-	-	10-45801033	●
F 460 Ex	460	nein	IP 55	5 m	-	-	-	12-46030019	●
F 460-1 Ex	700	nein	IP 55	5 m	-	-	-	12-46030020	●

motors with 24 Volt, DC

F 458	410	no	IP 55	5 m	-	-	-	10-45800032	●
F 460 Ex	410	no	IP 55	5 m	-	-	-	10-46000045	●

motors with 12 Volt, DC

F 458	230	no	IP 55	5 m	-	-	-	10-45800033	●
F 460 Ex	230	no	IP 55	5 m	-	-	-	10-46000046	●

Accessories for motors

for drum and container pumps, series 400



Accessories for motors F 457, F 458, F 460 Ex and FBM 4000 Ex

- **CEE plug**, for applications in Zone 1, 3-poles, 200-250 V

System	part no.
CEAG, Ex-marking: II 2 G Ex db eb IIC/IIB+H2 T6	10-93701030 ●
Stahl, Ex-marking II 2G Ex eb IIC T6...T5 Gb	10-93701047 ●

- **CEE socket**, for applications in Zone 1, 3-poles, 200-250 V

System	part no.
CEAG, Ex-marking: II 2 G Ex eb IIC T6	10-93750041 ●
Stahl, Ex-marking II 2G Ex eb IIC T6...T5 Gb	10-93750067 ●

- **earth wire with crocodile clip**

	cable cross-section	length	clamp	part no.
spiral cable (yellow)	3 mm ²	4 m	stainless steel	10-93190023 ●
cable (green/yellow)	4 mm ²	2 m	steel	10-93190015 ●

- **carrying handle**, Rilsan-coated

	part no.
F 457	10-00110533 ●
F 458, F 458-1	10-00110500 ●

- **carrying handle**, cpl. with earth wire

	part no.
F 460 Ex, FBM 4000 Ex	10-00110596 ●

- **inertia hoist**, rope length 2 m

	part no.
carrying force 9 – 14 kg	10-00121000 ●
carrying force 16 – 21 kg	10-00121002 ●

Three-phase gear motors for drum and container pumps

- **F 414**, 230/400 V, 50 Hz, jet-proof to IP 55, **with motor protection switch**

	part no.
0,55 kW energy efficiency class IE2	10-41401145 ●
0,75 kW energy efficiency class IE3	10-41401147 ●
1,1 kW energy efficiency class IE3	10-41401149 ●

- **F 414**, 230/400 V, 50 Hz, jet-proof to IP 55, **with cable terminal box**

	part no.
0,55 kW energy efficiency class IE2	10-41401144 ●
0,75 kW energy efficiency class IE3	10-41401146 ●
1,1 kW energy efficiency class IE3	10-41401148 ●

Accessories for three-phase gear motors F 414

- **carrying handle**

	part no.
stainless steel	10-00110582 ●

- **power supply cable**

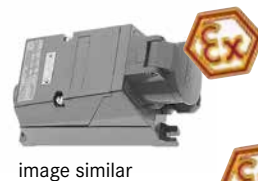
	part no.
pre-assembled with sleeve and Cekon plug, 5 m long	10-93408020 ●
pre-assembled with sleeve without plug, 5 m long	10-93408025 ●
per meter	10-93408901 ●
electrical mounting commutator motor	10-Z0500MKS ●
electrical mounting three-phase motor	10-Z0500DKS ●

- **cekon plug**

	part no.
5-poles	10-93701014 ●
5-poles with commutator	10-93701035 ●

- **motor protection switch**, jet-proof to IP 55, with 2 cable entry ports

	part no.
1,30 – 2,00 A	10-93606168 ●
1,80 – 3,00 A	10-93606169 ●
2,80 – 4,60 A	10-93606170 ●



F 400

Drive motors

for drum and container pumps, series 400

Compressed-air motors F 416 Ex for drum and container pumps

470 watt at 6 bar, 14 liter/sec. air consumption, with anti-rotation device, for applications in Zone 1, Ex-marking II 2G Ex h IIC T6 Gb.

Require dry, clean, lubricated air.

- **F 416 Ex**

	part no.	
with operating valve (adjustable and lockable)	10-41600131	●
- **F 416-1 Ex**

	part no.	
no valve, for automatic control	10-41600132	●
- **F 416-2 Ex**

	part no.	
with ball valve, to regulate speed	10-41600133	●



Accessories for compressed-air motors F 416 Ex

- **filter-regulator-lubricator unit G 1/4" female connection**

	part no.	
for non hazardous areas	10-00110130	●
explosion-proof	10-00110140	●
- **compressed-air hose**

	part no.	
DN 10, electrically conductive, EPDM, black, outer Ø 17.5 mm	10-00110913	●
DN 10, PVC, outer Ø 17 mm	10-00110071	●
- **hose coupling with hose connection in brass**

	part no.	
DN 10	10-95913066	●
- **coupling in brass**

	part no.	
DN 7,2 - G 1/4" male	10-95913210	●
- **threaded nipple in brass for hose coupling**

	part no.	
DN 10, G 1/4" male	10-95913065	●
- **hose nozzle (brass)**

	part no.	
DN 10, G 1/4" male	10-95905022	●
- **plug-in sleeve in brass**

	part no.	
DN 10	10-95913209	●
- **1-ear hose clip**

	part no.	
Ø 14,8; clamping range 8-18 mm	10-95913237	●
- **earth wire with crocodile clip**

	cable cross-section	length	clamp	part no.	
spiral cable (yellow)	3 mm ²	4 m	stainless steel	10-93190023	●
cable (green/yellow)	4 mm ²	2 m	steel	10-93190015	●
- **fine filter sound absorber with oil separator**

	part no.	
complete with mounting bracket	10-94715005	●
- **exhaust air hose kit for compressed-air motors F 416**
PVC hose DN13, 5 m long

	part no.	
connections G 1/2 - G 1/2 A (both male threads) for compressed-air motors F 416 with additional fine filter silencer with oil separator	10-00110886	●



Drum pump FP 424, sealless, not recommended for small solids, abrasive or crystallising liquids. 50 mm diameter options for high flow applications. G 1¼" male discharge connection, with FLUX-Clip, without hose connection.

in stainless steel (S)

for applications in Zone 0, Ex-marking II 1/2 G Ex h IIB T4...T3 Ga/Gb, with zone separation

- **FP 424 Ex S-43/38, FKM seal**, stainless steel shaft
- **FP 424 Ex S-43/38, FEP seal**, stainless steel shaft

immersion length	part no.	
700 mm	10-42422007	●
1.000 mm	10-42422010	●
1.200 mm	10-42422012	●

immersion length	part no.	
700 mm	10-42429307	●
1.000 mm	10-42429310	●
1.200 mm	10-42429312	●

- **FP 424 Ex S-43/38, EPDM seal**, stainless steel shaft

immersion length	part no.	
1.000 mm	10-42428010	●
1.200 mm	10-42428012	●

- **FP 424 Ex S-43/37 Z, FKM seal**, stainless steel shaft **(for increased pumping head)**

immersion length	part no.	
700 mm	10-42422107	●
1.000 mm	10-42422110	●
1.200 mm	10-42422112	●

- **FP 424 Ex S-43/37 Z, FEP seal**, stainless steel shaft **(for increased pumping head)**

immersion length	part no.	
700 mm	10-42429407	●
1.000 mm	10-42429410	●
1.200 mm	10-42429412	●

- **FP 424 Ex S-50/45 Z, FKM seal**, stainless steel shaft **(for increased pumping head)**

immersion length	part no.	
700 mm	10-42422207	●
1.000 mm	10-42422210	●
1.200 mm	10-42422212	●

- **FP 424 Ex S-50/45 Z, FEP seal**, stainless steel shaft **(for increased pumping head)**

immersion length	part no.	
700 mm	10-42429507	●
1.000 mm	10-42429510	●
1.200 mm	10-42429512	●

in stainless steel (S), HT version

for application in Zone 0, for ambient temperature to +60 °C, Ex-marking II 1/2 G Ex h IIB T4...T3 Ga/Gb, with zone separation

- **FP 424 Ex (HT) S-43/38 FKM seal**, stainless steel shaft

immersion length	part no.	
1.000 mm	10-42422310	●
1.200 mm	10-42422312	●

- **FP 424 Ex (HT) S-43/37 Z FKM seal**, stainless steel shaft **(for increased pumping head)**

immersion length	part no.	
1.000 mm	10-42422410	●
1.200 mm	10-42422412	●

- **FP 424 Ex (HT) S-50/45 Z FKM seal**, stainless steel shaft **(for increased pumping head)**

immersion length	part no.	
1.000 mm	10-42422510	●
1.200 mm	10-42422512	●

in polypropylene (PP)

- **F 424 PP-41/36, FKM seal, hastelloy C shaft**

immersion length	part no.	
700 mm	10-42440007	●
1.000 mm	10-42440010	●
1.200 mm	10-42440012	●

- **F 424 PP-41/36, FKM seal, titanium shaft**

immersion length	part no.	
700 mm	10-42440707	●
1.000 mm	10-42440710	●
1.200 mm	10-42440712	●

- **F 424 PP-41/36, EPDM seal, hastelloy C shaft**

immersion length	part no.	
700 mm	10-42448007	●
1.000 mm	10-42448010	●
1.200 mm	10-42448012	●



F 400

FP 424 Ex S

Other seal materials available on request

* AdBlue® is a registered trademark of: Verband der Automobilindustrie e. V. (VDA)

illustration with hose connection (not included)

Drum and container pumps, series 400

in polypropylene (PP)

- **F 424 PP-41/35 Z, FKM seal, hastelloy C shaft (for increased pumping head)**

immersion length	part no.	
700 mm	10-42440107	●
1.000 mm	10-42440110	●
1.200 mm	10-42440112	●

- **F 424 PP-50/38 , FKM seal, hastelloy C shaft**

immersion length	part no.	
700 mm	10-42440207	●
1.000 mm	10-42440210	●
1.200 mm	10-42440212	●

in polyvinylidene fluoride (PVDF)

- **F 424 PVDF-41/36, FKM seal, hastelloy C shaft**

immersion length	part no.	
700 mm	10-42460007	●
1.000 mm	10-42460010	●
1.200 mm	10-42460012	●

- **F 424 PVDF-41/35Z, FKM seal, hastelloy C shaft (for increased pumping head)**

immersion length	part no.	
700 mm	10-42460107	●
1.000 mm	10-42460110	●
1.200 mm	10-42460112	●

- **F 424 PP/S-41/35 Z, FKM seal, stainless steel shaft, AdBlue® version*, free from non-ferrous materials**

immersion length	part no.	
1.000 mm	10-42440510	●
1.200 mm	10-42440512	●

- **F 424 PP-50/43 Z, FKM seal, hastelloy C shaft (for increased pumping head)**

immersion length	part no.	
700 mm	10-42440307	●
1.000 mm	10-42440310	●
1.200 mm	10-42440312	●

- **F 424 PVDF-41/36 FFKM seal, hastelloy C shaft**

immersion length	part no.	
700 mm	10-42469007	●
1.000 mm	10-42469010	●
1.200 mm	10-42469012	●

- **F 424 PVDF-50/38, FKM seal, hastelloy C shaft**

immersion length	part no.	
700 mm	10-42460207	●
1.000 mm	10-42460210	●
1.200 mm	10-42460212	●



Drum pump F 425 for 99,98 % drum emptying

with mechanical seal, G 1¼" male discharge connection, with FLUX-Clip, without hose connection, stainless steel and hastelloy C version: for applications in Zone 0, Ex-marking stainless steel version: II 1/2 G Ex h IIB T4...T3 Ga/Gb Ex-marking hastelloy C version: II 2G Ex h IIB T4 Gb X

- **FP 425 Ex S-41/34 in stainless steel, stainless steel shaft and FKM seal (with zone separation)**

immersion length	part no.	
700 mm	10-42522008	●
1.000 mm	10-42522011	●
1.200 mm	10-42522013	●

- **FP 425 Ex S-41/34 in stainless steel, stainless steel shaft, EPDM seal (with zone separation)**

immersion length	part no.	
1.000 mm	10-42528011	●
1.200 mm	10-42528013	●

- **F 425 PP-50/34 in polypropylene, Hastelloy C shaft, EPDM seal**

immersion length	part no.	
1.200 mm	10-42548051	●
1.500 mm	10-42548053	●

- **F 425 HC-40/34 in hastelloy C, hastelloy C shaft and FFKM seal**

immersion length	part no.	
1.200 mm	10-42530007	●
1.500 mm	10-42530008	●

- **FP 425 Ex S-41/34 in stainless steel, stainless steel shaft and FFKM seal (with zone separation)**

immersion length	part no.	
1.000 mm	10-42529111	●
1.200 mm	10-42529113	●

- **FP 425 Ex S-41/34Z in stainless steel, stainless steel shaft and FKM seal (for increased pumping head) (with zone separation)**

immersion length	part no.	
1.000 mm	10-42522031	●
1.200 mm	10-42522033	●

- **F 425 PP-50/34 in polypropylene, hastelloy C shaft and FKM seal**

immersion length	part no.	
700 mm	10-42540048	●
1.000 mm	10-42540051	●
1.200 mm	10-42540053	●



Other seal materials available on request
Additional cost for silicone-free version on request (only for stainless steel pumps available)

illustration with hose connection (not included)

Drum pump F 426 for mixing and pumping

with mechanical seal, G 1¼" male discharge connection, with FLUX-Clip, without hose connection
stainless steel version: for applications in Zone 0, Ex-marking II 2G Ex h IIB T4 Gb X

- **F 426 S-41/38 in stainless steel, stainless steel shaft and FKM seal**

immersion length	part no.	
1.000 mm	10-42620010	●
1.200 mm	10-42620012	●

- **F 426 S-41/38 in stainless steel, stainless steel shaft and FFKM seal**

immersion length	part no.	
1.000 mm	10-42629010	●
1.200 mm	10-42629012	●

- **Accessories for F 426 S**

sealing washer for closing the hose connector during mixing

	part no.	
sealing washer, S 316 Ti	10-92569011	●
union nut, S	10-90790002	●
flat seal, PE	10-92564002	●

- **F 426 PP-50/33 in polypropylene, hastelloy C shaft and FKM seal**

immersion length	part no.	
1.000 mm	10-42640001	●
1.200 mm	10-42640002	●

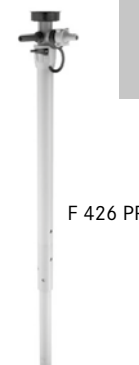
- **Accessories for F 426 PP**

sealing washer for closing the hose connector during mixing

	part no.	
sealing washer, PP	10-92569000	●
union nut, PP	10-90790024	●
flat seal, PTFE	10-92564003	●



F 426 S



F 426 PP

F 400

Drum pump F 427, can be taken apart completely

sealless, easy to strip for sterile applications, stainless steel shaft, with FLUX-Clip, without hose connection

in stainless steel

- **F 427 S3-43/38, G 1¼" male discharge connection**

immersion length	part no.	
700 mm	10-42720307	●
1.000 mm	10-42720310	●
1.200 mm	10-42720312	●

- **hose connection with G 1¼" female union nut**

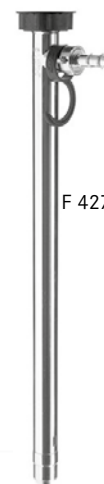
	part no.	
DN 25	10-95904063	●

- **F 427 S4-43/38, Rd 58 x 1/6 thread connection**

immersion length	part no.	
700 mm	10-42720407	●
1.000 mm	10-42720410	●
1.200 mm	10-42720412	●

- **hose connection with Rd 58 x 1/6 union nut**

	part no.	
DN 25	10-95904115	●

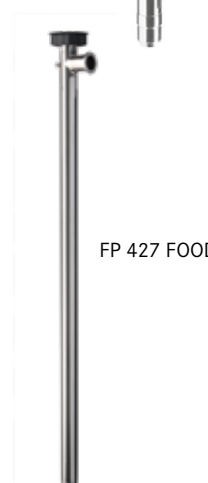


F 427

in stainless steel, FOOD version

- suitable for food contact according to Regulation (EC) 1935/2004 and FDA CFR 21
FP 427 S-43/38 FOOD in stainless steel, 1½" clamp connection (other connections on request)

immersion length	part no.	
700 mm	10-42720607	●
1.000 mm	10-42720610	●
1.200 mm	10-42720612	●



FP 427 FOOD

Accessories for FOOD version see page 40

in stainless steel, 3A version



- **F 427 S3A-43/38 with 1½" clamp connection**

immersion length	part no.	
700 mm	10-42720207	●
1.000 mm	10-42720210	●
1.200 mm	10-42720212	●

- **hose connection with clamp connection 1½"**

	part no.	
DN 19	10-95904138	●

Drive motors see page 16–20, other hose connections see page 27

illustration with hose connection (not included)

Drum and container pumps, series 400

Drum pump F 430

with mechanical seal, G 1¼" male discharge connection, with FLUX-Clip, without hose connection.
Suitable for pumping liquids containing small solids or crystallising liquids.

in aluminium, stainless steel shaft and NBR seal

- **F 430 AL-41/38**

immersion length	part no.	
700 mm	10-43010107	●
1.000 mm	10-43010110	●
1.200 mm	10-43010112	●

- **F 430 AL-50/38**

immersion length	part no.	
700 mm	10-43010307	●
1.000 mm	10-43010310	●
1.200 mm	10-43010312	●

- **F 430 AL-41/37 Z (for increased pumping head)**

immersion length	part no.	
700 mm	10-43010407	●
1.000 mm	10-43010410	●
1.200 mm	10-43010412	●



in stainless steel, stainless steel shaft

for applications in Zone 0, Ex-marking II 2G Ex h IIB T4 Gb X

- **F 430 S-41/38, FKM seal**

immersion length	part no.	
700 mm	10-43020107	●
1.000 mm	10-43020110	●
1.200 mm	10-43020112	●

- **F 430 S-41/38, EPDM seal**

immersion length	part no.	
1.000 mm	10-43028110	●
1.200 mm	10-43028112	●

- **F 430 S-50/38, FKM seal**

immersion length	part no.	
1.000 mm	10-43020310	●

- **F 430 S-41/38, FFKM seal**

immersion length	part no.	
1.000 mm	10-43029110	●
1.200 mm	10-43029112	●

- **F 430 S-41/37 Z, FKM seal (for increased pumping head)**

immersion length	part no.	
700 mm	10-43020407	●
1.000 mm	10-43020410	●
1.200 mm	10-43020412	●

- **F 430 S-50/45 Z, FKM seal (for increased pumping head)**

immersion length	part no.	
700 mm	10-43020207	●
1.000 mm	10-43020210	●
1.200 mm	10-43020212	●



in stainless steel, FOOD version, stainless steel shaft

for applications in Zone 0, Ex-marking II 2G Ex h IIB T4 Gb X
suitable for food contact according to Regulation (EC) 1935/2004 and FDA CFR 21



- **FP 430 Ex S-41/38 FOOD** in stainless steel, FKM seal, 1½" clamp connection (other connections on request)

immersion length	part no.	
700 mm	10-43020507	●
1.000 mm	10-43020510	●
1.200 mm	10-43020512	●

- **FP 430 Ex S-41/38 FOOD** in stainless steel, FFKM seal, 1½" clamp connection (other connections on request)

immersion length	part no.	
700 mm	10-43029607	●
1.000 mm	10-43029610	●
1.200 mm	10-43029612	●

FFKM O-rings on request

Accessories for FOOD version see page 40

in hastelloy C, hastelloy C shaft and FFKM seal

for applications in Zone 0, Ex-marking II 2G Ex h IIB T4 Gb X

- **F 430 HC-40/38**

immersion length	part no.	
700 mm	10-43030107	●
1.000 mm	10-43030110	●
1.200 mm	10-43030112	●

Other seal materials available on request. Additional cost for silicone-free version on request.

Drive motors see page 16–20, hose connections see page 27, mixing tubes see page 39



illustration with hose connection (not included)

Drum pump F 430

with mechanical seal, hastelloy C shaft, G 1 1/4" male discharge connection, with FLUX-Clip, without hose connection.

Suitable for pumping liquids containing small solids or crystallising liquids. 50 mm diameter options for high flow applications.

in polypropylene (PP)

- **F 430 PP-40/33, FKM seal**

immersion length	part no.	
700 mm	10-43040107	●
1.000 mm	10-43040110	●
1.200 mm	10-43040112	●

- **F 430 PP-40/33, EPDM seal**

immersion length	part no.	
1.000 mm	10-43048110	●
1.200 mm	10-43048112	●

- **F 430 PP-40/33 Z, FKM seal (for increased pumping head)**

immersion length	part no.	
700 mm	10-43040407	●
1.000 mm	10-43040410	●
1.200 mm	10-43040412	●

- **F 430 PP-50/38, FKM seal**

immersion length	part no.	
700 mm	10-43040307	●
1.000 mm	10-43040310	●
1.200 mm	10-43040312	●

- **F 430 PP-50/43 Z, FKM seal (for increased pumping head)**

immersion length	part no.	
700 mm	10-43040207	●
1.000 mm	10-43040210	●
1.200 mm	10-43040212	●



F 430 PP

F 400

in polyvinylidene fluoride (PVDF)

- **F 430 PVDF-40/33, FKM seal**

immersion length	part no.	
700 mm	10-43060107	●
1.000 mm	10-43060110	●
1.200 mm	10-43060112	●

- **F 430 PVDF-40/33, FFKM seal**

immersion length	part no.	
1.000 mm	10-43069110	●
1.200 mm	10-43069112	●

- **F 430 PVDF-40/33 Z, FKM seal (for increased pumping head)**

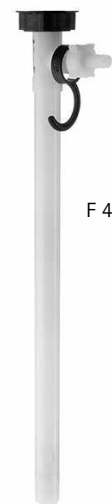
immersion length	part no.	
700 mm	10-43060407	●
1.000 mm	10-43060410	●
1.200 mm	10-43060412	●

- **F 430 PVDF-50/43 Z, FKM seal (for increased pumping head)**

immersion length	part no.	
700 mm	10-43060207	●
1.000 mm	10-43060210	●
1.200 mm	10-43060212	●

- **F 430 PVDF-50/38, FKM seal**

immersion length	part no.	
700 mm	10-43060307	●
1.000 mm	10-43060310	●
1.200 mm	10-43060312	●



F 430 PVDF

Other seal material on request

Drive motors see page 16–20, hose connections see page 27, mixing tubes see page 39

illustration with hose connection (not included)

Drum and container pumps, series 400

Container pump F 430 in polypropylene with hastelloy C shaft

with mechanical seal, seal material FKM, G 1 1/4" male discharge connection, with FLUX-Clip, without hose connection

- F 430 PP-100/50**

immersion length	part no.	
1.000 mm	10-43040510	●
1.200 mm	10-43040512	●
1.500 mm	10-43040515	●

- screw top**

to secure the pump in the container in connection with a compression gland or a fume gland (part numbers see page 36)

nominal Ø	part no.	
DN 150	10-00114063	●
DN 225	10-00114064	●



Centrifugal pumps for horizontal and vertical installation (dry installation – outside of drum/container)

- F 430 S-41/38 TR**, stainless steel, with stainless steel shaft, Ex-marking: II 2 G c IIB TX, without hose connection

connection	seal	part no.	
inlet: G 2" male parallel outlet: G 1 1/4" male	FKM	10-43020002	●
inlet: clamp 2" outlet: clamp 1 1/2"	FEP/FFKM	10-43029012	●



- F 430 PP-40/33 TR** in polypropylene with hastelloy C shaft

connection	seal	part no.	
inlet: G 2" male outlet: G 1 1/4" male	FKM	10-43040002	●

- hose connections** complete for suction side for F 430 TR

	nominal Ø	part no.	
in stainless steel, with nickel-plated brass G 2" female union nut	DN 32	10-95904059	●
in polypropylene, with PVC G 2" female union nut	DN 32	10-95904010	●
	DN 38	10-95904011	●



- MINIFLUX IBC pump**, in stainless steel, with stainless steel shaft, Ex-marking: II 2G c IIB TX

connection	seal	part no.	
inlet: union nut S 60 x 6, PP	FKM, NBR	10-43020003	●
discharge connection: G 1 1/4" male	FFKM, NBR	10-43029003	●



- Accessories for **MINIFLUX**

	part no.	
fixation MINIFLUX, wire cable in stainless steel, length 3 m, hook in brass, nickel-plated	10-00110430	●
union nut Rd 60x6, in stainless steel, connection drum pump/IBC	10-90790083	●
union nut Rd 65x1/6, in stainless steel, connection drum pump/motor	10-90790011	●
O-ring FFKM, FDA	10-92575063	●
connecting piece S to FMC 100 / FMO 104 / FMO 110	10-43021043	●



Drive motors see page 16–20, hose connections see page 27

illustration with hose connection (are not included)

Accessories

for drum and container pumps, series 400



Hose connections

- **stainless steel**, with nickel-plated **brass** G 1 1/4" female union nut

	part no.	
DN 19	10-95904061	●
DN 25	10-95904041	●
DN 32	10-95904042	●

- **aluminium**, with nickel-plated **brass** G 1 1/4" female union nut

	part no.	
DN 19	10-95904050	●
DN 25	10-95904039	●
DN 32	10-95904040	●



- **stainless steel**, with **stainless steel** G 1 1/4" female union nut

	part no.	
DN 19	10-95904062	●
DN 25	10-95904063	●
DN 32	10-95904064	●

- **hastelloy C**, with **stainless steel** G 1 1/4" female union nut

	part no.	
DN 25	10-95904043	●



- **polypropylene**, with G 1 1/4" female union nut

	part no.	
DN 13	10-95904081	●
DN 19	10-95904053	●
DN 25	10-95904052	●
DN 32	10-95904054	●

- **polyvinylidene fluoride**, with G 1 1/4" female union nut

	part no.	
DN 13	10-95904082	●
DN 19	10-95904101	●
DN 25	10-95904102	●
DN 32	10-95904103	●



Hose couplings and safety binding

quick hose couplings

consisting of 3 components: female part (hose side), male part and drum pump connector (please order all components at the same time)

- **polypropylene**, with FKM seal

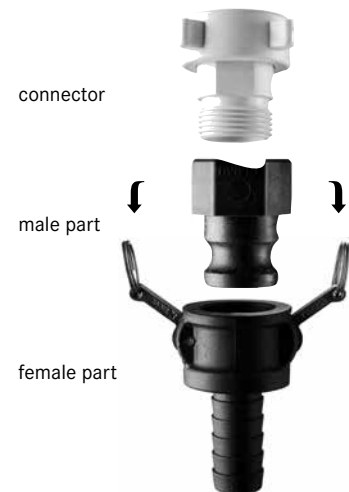
	part no.	
connector: G 1" male - G 1 1/4" female	10-95906179	●
male part: G 1" female	10-95913213	●
female part with DN 25 hose connection	10-95913220	●

- **bronze**, with FKM seal

	part no.	
connector: G 1" male - G 1 1/4" female	10-95906019	●
male part: G 1" female	10-95913211	●
female part with DN 25 hose connection	10-95913219	●

- **stainless steel**, with FKM seal

	part no.	
connector: G 1" male - G 1 1/4" female	10-95906144	●
male part: G 1" female	10-95913215	●
female part with DN 25 hose connection	10-95913221	●



bracket clamp

pressed aluminium jaws for female part (bronze or stainless steel) of quick hose couplings

	for hoses	part no.	
yesws, aluminium	DN 25	10-95913218	●
yesws, stainless steel	DN 38	10-95913365	●
hose connector, S for clamp connection 1 1/2"	DN 38	10-95905174	●



F 400

Accessories

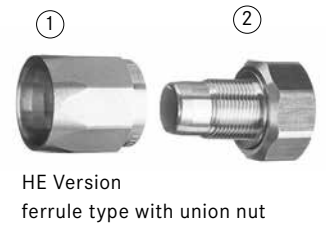
for drum and container pumps, series 400

Swaged hose fittings for the connection of pump and hose – recommended for use with lined hoses

(consisting of hose connection ① and bracket clamp or ferrule type with union nut ②)

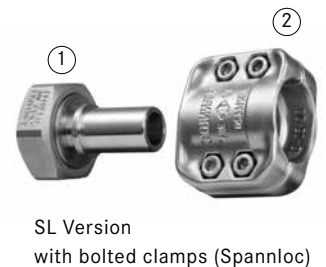
- with hose connection brass (for use in hazardous areas)

seal	bracket clamp	nominal Ø	version	outer Ø hose	part no.
PUR	-	DN 13 - G 1/2" female	HE	22 mm	10-95913130 ●
PUR	-	DN 19 - G 1" female	HE	27 mm	10-95913116 ●
-	-	DN 19 - G 1" male	HE	27 mm	10-95913118 ●
PUR	-	DN 19 - G 1 1/4" female	HE	27 mm	10-95913192 ●
PUR	AL nickel-plated	DN 19 - G 1" female	SL	30 - 33 mm	10-95913157 ●
PUR	AL nickel-plated	DN 19 - G 1 1/4" female	SL	30 - 33 mm	10-95913180 ●
PUR	AL nickel-plated	DN 21 - G 1 1/4" female	SL	30 - 33 mm	10-95913230 ●
PUR	-	DN 25 - G 1" female	HE	34 mm	10-95913097 ●
-	-	DN 25 - G 1" male	HE	34 mm	10-95913099 ●
PUR	-	DN 25 - G 1 1/4" female	HE	34 mm	10-95913098 ●
PUR	AL nickel-plated	DN 25 - G 1" female	SF	36 - 38 mm	10-95913158 ●
PUR	AL nickel-plated	DN 25 - G 1" male	SF	36 - 38 mm	10-95913159 ●
PUR	AL nickel-plated	DN 25 - G 1 1/4" female	SF	36 - 38 mm	10-95913140 ●
-	AL nickel-plated	DN 25 - G 1 1/4" male	SF	36 - 38 mm	10-95913188 ●
PUR	AL nickel-plated	DN 32 - G 1 1/4" female	SF	43 - 45 mm	10-95913014 ●
PUR	AL nickel-plated	DN 32 - G 1 1/2" female	SF	43 - 45 mm	10-95913015 ●
PUR	AL nickel-plated	DN 38 - G 1 1/2" female	SF	50 - 52 mm	10-95913143 ●
PUR	brass	G 1 1/4" female - G 1" male	reducer		10-95906019 ●
PUR	brass	G 1 1/2" female - G 1 1/4" male	reducer		10-95906002 ●



- with hose connection stainless steel (for use in hazardous areas)

seal	bracket clamp	nominal Ø	version	outer Ø hose	part no.
PTFE	AL nickel-plated	DN 13 - G 1/2" female	SL	22 - 24 mm	10-95913178 ●
PTFE	AL nickel-plated	DN 19 - G 1" female	SL	30 - 33 mm	10-95913160 ●
PTFE	AL nickel-plated	DN 19 - G 1 1/4" female	SL	30 - 33 mm	10-95913181 ●
PTFE	AL nickel-plated	DN 21 - G 1" female	SL	30 - 33 mm	10-95913233 ●
PTFE	AL nickel-plated	DN 21 - G 1 1/4" female	SL	30 - 33 mm	10-95913231 ●
PTFE	AL nickel-plated	DN 25 - G 1" female	SF	36 - 38 mm	10-95913161 ●
-	AL nickel-plated	DN 25 - G 1" male	SF	36 - 38 mm	10-95913162 ●
PTFE	AL nickel-plated	DN 25 - G 1 1/4" female	SF	36 - 38 mm	10-95913144 ●
PTFE	AL nickel-plated	DN 32 - G 1 1/4" female	SF	43 - 45 mm	10-95913145 ●
PTFE	AL nickel-plated	DN 32 - G 1 1/2" female	SF	43 - 45 mm	10-95913146 ●
PTFE	AL nickel-plated	DN 38 - G 1 1/2" female	SF	50 - 52 mm	10-95913147 ●
PTFE	S	G 1 1/2" female - G 1 1/4" male	reducer		10-95906005 ●



- with hose connection stainless steel, PFA coated (for use in hazardous areas)

bracket clamp	nominal Ø	version	outer Ø hose	part no.
AL nickel-plated	DN 25 - G 1 1/4" female	SF	36 - 38 mm	10-95913234 ●
AL nickel-plated	DN 25 - G 1" female	SL	36 - 39 mm	10-95913386 ●
AL nickel-plated	DN 25 - G 1" male	SL	36 - 39 mm	10-95913387 ●

- with hose connection polypropylene

seal	bracket clamp	nominal Ø	version	outer Ø hose	part no.
PE	S	DN 13 - G 1" female	SL	22 - 24 mm	10-95913317 ●
PE	S	DN 13 - G 1 1/4" female	SL	22 - 24 mm	10-95913321 ●
PE	S	DN 19 - G 1" female	SL	30 - 33 mm	10-95913319 ●
PE	S	DN 19 - G 1 1/4" female	SL	30 - 33 mm	10-95913323 ●
PE	S	DN 21 - G 1 1/4" female	SL	30 - 33 mm	10-95913325 ●
PE	S	DN 25 - G 1 1/4" female	SL	36 - 39 mm	10-95913327 ●



- with hose connection polyvinylidene fluoride

seal	bracket clamp	nominal Ø	version	outer Ø hose	part no.
PTFE	S	DN 13 - G 1" female	SL	22 - 24 mm	10-95913318 ●
PTFE	S	DN 19 - G 1" female	SL	30 - 33 mm	10-95913320 ●
PTFE	S	DN 19 - G 1 1/4" female	SL	30 - 33 mm	10-95913324 ●
PTFE	S	DN 21 - G 1 1/4" female	SL	30 - 33 mm	10-95913326 ●
PTFE	S	DN 25 - G 1 1/4" female	SL	36 - 39 mm	10-95913328 ●



Swaged hose fittings for the connection of hose and FLUX hand nozzle

- for hand nozzle **PP/FKM** part no. 10-001 12 556 with connection Ø 28 mm

hose connection	seal	bracket clamp	nominal Ø	version	outer Ø hose	part no.
PP	FKM	AL nickel-plated	DN 25	SF	36 – 38 mm	10-95913309 ●
PP	FKM	S	DN 19	SL	30 – 33 mm	10-95913330 ●
PP	FKM	S	DN 21	SL	30 – 33 mm	10-95913335 ●
PP	FKM	S	DN 25	SF	36 – 38 mm	10-95913340 ●

- for hand nozzle **PP/EPDM** part no. 10-001 12 557 with connection Ø 28 mm

hose connection	seal	bracket clamp	nominal Ø	version	outer Ø hose	part no.
PP	EPDM	AL nickel-plated	DN 21	SL	30 – 33 mm	10-95913305 ●
PP	EPDM	AL nickel-plated	DN 25	SF	36 – 38 mm	10-95913310 ●
PP	EPDM	S	DN 19	SL	30 – 33 mm	10-95913331 ●
PP	EPDM	S	DN 21	SL	30 – 33 mm	10-95913336 ●
PP	FKM	S	DN 25	SL	36 – 39 mm	10-95913341 ●

- for hand nozzle **PVDF/FKM** part no. 10-001 12 558 with connection Ø 28 mm

hose connection	seal	bracket clamp	nominal Ø	version	outer Ø hose	part no.
PVDF	FKM	AL nickel-plated	DN 13	SL	22 – 24 mm	10-95913298 ●
PVDF	FKM	AL nickel-plated	DN 19	SL	30 – 33 mm	10-95913301 ●
PVDF	FKM	S	DN 13	SL	22 – 24 mm	10-95913329 ●
PVDF	FKM	S	DN 19	SL	30 – 33 mm	10-95913332 ●
PVDF	FKM	S	DN 21	SL	30 – 33 mm	10-95913337 ●
PVDF	FKM	S	DN 25	SL	36 – 39 mm	10-95913342 ●

- for hand nozzle **PVDF/EPDM** part no. 10-001 12 559 with connection Ø 28 mm

hose connection	seal	bracket clamp	nominal Ø	version	outer Ø hose	part no.
PVDF	EPDM	S	DN 19	SL	30 – 33 mm	10-95913333 ●
PVDF	EPDM	S	DN 25	SL	36 – 39 mm	10-95913343 ●

- for hand nozzle **PVDF/FFKM** part no. 10-001 12 560 with connection Ø 28 mm

hose connection	seal	bracket clamp	nominal Ø	version	outer Ø hose	part no.
PVDF	FFKM	S	DN 19	SL	30 – 33 mm	10-95913334 ●
PVDF	FFKM	S	DN 21	SL	30 – 33 mm	10-95913339 ●
PVDF	FFKM	S	DN 25	SL	36 – 39 mm	10-95913344 ●



hand nozzle PP
(see page 33)

F 400



hand nozzle PVDF
(see page 33)

Bracket clamp with corrosion protection

in stainless steel ECTFE coated with screws and nuts in HC for hose connection PP or PVDF

version	part no.
DN 25	10-95913347 ●



Swaged hose fittings for the connection of hose and hand nozzle

- for hand nozzle **MS** part no. 10-001 12 340 with connection Ø 32 mm

hose connector	seal	bracket clamp	nominal Ø	version	outer Ø hose	part no.
brass	FEP	-	DN 19	HE	27 mm	10-95913134 ●
brass	FEP	AL nickel-plated	DN 19	SL	31 mm	10-95913191 ●
brass	FEP	AL nickel-plated	DN 21	SL	31 mm	10-95913229 ●
brass	FEP	-	DN 25	HE	34 mm	10-95913137 ●
brass	FEP	AL nickel-plated	DN 25	SF	37 mm	10-95913152 ●



hand nozzle MS
(see page 34)

HE = version ferrule type with union nut

SF = version with pinned safety clamps (Spannfix)

SL = version with bolted clamps (Spannloc)

Accessories

for drum and container pumps, series 400

Swaged hose fittings for the connection of hose and hand nozzle

- for hand nozzle S part no. 10-001 12 549 with connection Ø 28 mm

hose connector	seal	bracket clamp	nominal Ø	version	outer Ø hose	part no.
S	FEP	AL nickel-plated	DN 19	SL	31 mm	10-95913258 ●
S	FEP	AL nickel-plated	DN 21	SL	31 mm	10-95913259 ●
S	FEP	AL nickel-plated	DN 25	SF	37 mm	10-95913260 ●

- for hand nozzle S part no. 10-001 12 550 with connection Ø 28 mm and FLUX discharge unit with spring valve FAEplus S part no. 10-001 12 576

hose connector	seal	bracket clamp	nominal Ø	version	outer Ø hose	part no.
S	FEP	AL nickel-plated	DN 19	SL	31 mm	10-95913276 ●
S	FEP	AL nickel-plated	DN 21	SL	31 mm	10-95913277 ●
S	FEP	AL nickel-plated	DN 25	SF	37 mm	10-95913278 ●



hand nozzle S
(see page 34)

Bonding work

of the chosen hose fittings and hose

bonding work on both sides	part no.
including testing for electrical conductivity	10-00000100 ●
without testing for electrical conductivity (with PP/PVDF hose connector)	10-00000102 ●
bonding work on one side, without testing for electrical conductivity	
swaged hose fittings with MS/S hose connector	10-00000103 ●
swaged hose fittings with PP/PVDF hose connector	10-00000104 ●

Hose kits with G 1¼" female drum pump connectors

and connection to **brass hand nozzle** part no. 10-001 12 340 with connection Ø 32 mm, electrically conductive with swaged hose fitting in aluminium nickel-plated

- petroleum hose kit

	length	part no.
DN 19	2 m long	10-00110091 ●
	3 m long	10-00110092 ●
DN 25	2 m long	10-00110081 ●
	3 m long	10-00110082 ●

- universal hose kit

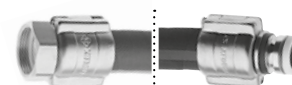
	length	part no.
DN 21	2 m long	10-00110839 ●
	3 m long	10-00110840 ●

- hose kit for food and chemistry

	length	part no.
DN 19	2 m long	10-00110089 ●
	3 m long	10-00110090 ●
DN 25	2 m long	10-00110811 ●
	3 m long	10-00110812 ●



hand nozzle MS
(see page 34)



hose kit

Hose kits with G 1¼" female drum pump connectors

and connection to **stainless steel hand nozzle** part no. 10-001 12 549 with connection Ø 28 mm, electrically conductive with swaged hose fitting in aluminium nickel-plated

- universal hose kit

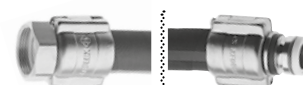
	length	part no.
DN 21	2 m long	10-00110870 ●
	3 m long	10-00110871 ●

- hose kit for food and chemistry

	length	part no.
DN 19	2 m long	10-00110873 ●
	3 m long	10-00110874 ●
DN 25	2 m long	10-00110868 ●
	3 m long	10-00110869 ●



hand nozzle S
(see page 34)



hose kit

Hose lines with hand nozzle with G 1 1/4" female connection to drum pump

- with **hand nozzle PP** (part no. 10-001 12 500 with FKM seal, 10-001 12 506 with EPDM seal), PVC- hose DN 19, 2 m, hose connection PP

seal	part no.
FKM	10-00110813 ●
EPDM	10-00110847 ●

- with **hand nozzle AL** (part no. 10-001 12 172), petroleum hose DN 25, 2 m, hose connector aluminum, union nut brass

seal	part no.
NBR	10-00110815 ●

- with **hand nozzle MS** (part no. 10-001 12 340), universal hose DN 21, 2 m, hose connector brass, bracket clamp AL nickel-plated, electrically conductive integrated

seal	part no.
PTFE	10-00110845 ●

Hose lines with hand nozzle FOOD with 1 1/2" Clamp connection

- with **hand nozzle S** (part no. 10-001 12 568), food hose DN 25, 2 m, hose connector S

seal	part no.
FKM	10-00110898 ●

Hoses without inliner

for use with hose connections or swaged hose fittings

- PVC hose** with fabric lining also suitable for food contact according to Regulation (EC) 1935/2004

	operating pressure max.	part no.
DN 13 outer Ø 20 mm	10 bar	10-00110008 ●

- PVC hose with steel wire-helix** also suitable for food contact according to Regulation (EC) 1935/2004

	operating pressure max.	part no.
DN 19 outer Ø 27 mm	5 bar	10-00110040 ●
DN 25 outer Ø 33 mm	5 bar	10-00110041 ●
DN 32 outer Ø 41 mm	4,5 bar	10-00110042 ●
DN 38 outer Ø 47 mm	4 bar	10-00110043 ●
DN 50 outer Ø 60 mm	3 bar	10-00110044 ●

- petroleum hose** electrically conductive Ω to EN 12115:2011 material inside: NBR black

	operating pressure max.	part no.
DN 13 outer Ø 21 mm	10 bar	10-00110076 ●
DN 19 outer Ø 27 mm	10 bar	10-00110065 ●
DN 25 outer Ø 34 mm	10 bar	10-00110002 ●

electrically conductive Ω/T to EN 12115:2011 material inside: NBR black

	operating pressure max.	part no.
DN 32 outer Ø 44 mm	25 bar	10-00110003 ●
DN 38 outer Ø 51 mm	25 bar	10-00110004 ●

- with **hand nozzle PVDF** (part no. 10-001 12 558), hose for food and chemistry DN 19, 2 m, hose connector PVDF, bracket clamp AL nickel-plated

seal	part no.
FKM	10-00110814 ●

- with **hand nozzle S** (part no 10-001 12 549), universal hose DN 21, 2 m, hose connector S, bracket clamp AL nickel-plated, electrically conductive integrated

seal	part no.
PTFE/FEP	10-00110872 ●



- with **hand nozzle S** (part no. 10-001 12 568), hose for food and chemistry DN 19, 2 m, hose connector S, electrically conductive integrated

seal	part no.
FKM	10-00110899 ●



Accessories

for drum and container pumps, series 400

- **special food-grade hose**

suitable for food contact according to Regulation (EC) 1935/2004 and FDA CFR 21 material inside: NBR white

	operating pressure max.	part no.	
DN 25 outer Ø 37 mm	16 bar	10-00110118	●
DN 38 outer Ø 51 mm	16 bar	10-00110119	●



Hoses with inliner

for use with swaged hose fittings

- **universal hose**, electrically conductive Ω to EN 12115:2011 material inside: fluoropolymer THV seamless

	operating pressure max.	part no.	
DN 21 outer Ø 31 mm	16 bar	10-00110838	●



- **hose for food and chemistry**, electrically conductive Ω /T to EN 12115:2011 suitable for food contact according to Regulation (EC) 1935/2004 and FDA CFR 21 material inside: ultra-high molecular PE transparent

	operating pressure max.	part no.	
DN 13 outer Ø 22 mm	16 bar	10-00110085	●
DN 19 outer Ø 31 mm	16 bar	10-00110037	●
DN 25 outer Ø 37 mm	16 bar	10-00110030	●
DN 32 outer Ø 43 mm	16 bar	10-00110036	●
DN 38 outer Ø 51 mm	16 bar	10-00110086	●



- **PTFE hose**, electrically conductive Ω /T-type acc. to EN 12115 suitable for food contact according to Regulation (EC) 1935/2004 and 10/2001 and FDA material inside: PTFE

	operating pressure max.	part no.	
DN 19 outer Ø 31 mm	16 bar	10-00110892	●
DN 25 outer Ø 37 mm	16 bar	10-00110893	●



Stepless 1-ear hose clip

in stainless steel 316 Ti for use with hose connection

- for **PVC hose**

	outer Ø	part no.	
DN 13	18 mm	10-95913237	●
DN 19	27 mm	10-95913241	●
DN 25	34 mm	10-95913243	●
DN 32	41 mm	10-95913248	●
DN 38	47 mm	10-95913251	●
DN 50	60 mm	10-95913255	●



- for **petroleum hose**

	outer Ø	part no.	
DN 13	21 mm	10-95913239	●
DN 19	27 mm	10-95913371	●
DN 25	34 mm	10-95913243	●
DN 32	43 mm	10-95913249	●
DN 38	51 mm	10-95913252	●



- for **special food-grade hose**

	outer Ø	part no.	
DN 25	37 mm	10-95913246	●
DN 38	51 mm	10-95913254	●

Forceps to attach the 1-ear hose clip

	part no.	
	10-96140811	●



Non explosion-proof hand nozzles

Hand nozzles with hose connection for use with hoses without inliner (see page 31)

- **hand nozzle PP** (polypropylene) **with small outlet**

nominal Ø	seal	outlet Ø	part no.	
DN 13	FKM	6 mm	10-00113001	●
DN 13	FKM	11 mm	10-00113034	●
DN 19	FKM	11 mm	10-00113039	●
DN 19	FKM	20 mm	10-00113000	●
DN 25	FKM	20 mm	10-00113035	●

- **hand nozzle PP** (polypropylene) **with swivel inlet**, outlet Ø 25 mm

nominal Ø	seal	part no.	
DN 19	FKM	10-00112500	●
DN 25	FKM	10-00112504	●
DN 19	EPDM	10-00112506	●
DN 25	EPDM	10-00112510	●

- **hand nozzle PP** (polypropylene) **AdBlue®** version* with swivel inlet, outlet Ø 19 mm

nominal Ø	seal	part no.	
DN 19	FKM	10-00112518	●

- **hand nozzle PVDF** (polyvinylidene fluoride) **with swivel inlet**, outlet Ø 25 mm

nominal Ø	seal	part no.	
DN 13	FKM	10-00112515	●
DN 19	FKM	10-00112501	●
DN 25	FKM	10-00112505	●
DN 19	EPDM	10-00112507	●
DN 25	EPDM	10-00112511	●
DN 19	FFKM	10-00112512	●
DN 25	FFKM	10-00112514	●

- **hand nozzle AL** (aluminium) **with swivel inlet**, outlet Ø 25 mm

nominal Ø	seal	part no.	
DN 19	NBR	10-00112397	●
DN 25	NBR	10-00112172	●

Hand nozzles without hose connection for use with hoses with inliner (see page 32)

swaged hose fittings see page 29

- **hand nozzle PP** (polypropylene) **with swivel inlet**, outlet Ø 25 mm

nominal Ø	seal	part no.	
28 mm	FKM	10-00112556	●
28 mm	EPDM	10-00112557	●

- **hand nozzle PVDF** (polyvinylidene fluoride) **with swivel inlet**, outlet Ø 25 mm

nominal Ø	seal	part no.	
28 mm	FKM	10-00112558	●
28 mm	FFKM	10-00112560	●

- **hand nozzle AL** (aluminium) with swivel inlet, outlet Ø 25 mm

nominal Ø	seal	part no.	
G 1" female	NBR	10-00112171	●



F 400

* AdBlue® is a registered trademark of: Verband der Automobilindustrie e. V. (VDA)

Accessories

for drum and container pumps, series 400

Explosion-proof hand nozzles

for applications in Zone 1

Hand nozzles with hose connection for use with hoses without inliner (see page 31)

- **hand nozzle S** (stainless steel), outlet Ø 28 mm

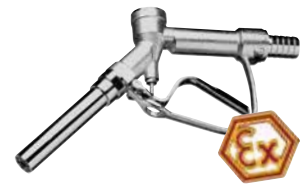
nominal Ø	seal	part no.	
DN 19	PTFE/FEP	10-00112541	●
DN 25	PTFE/FEP	10-00112542	●
G ¾" female	PTFE/FEP	10-00112555	●

- **hand nozzle S** (stainless steel) fluorine-free version, outlet Ø 28 mm

nominal Ø	seal	part no.	
G 1" male	EPDM	10-00112545	●

- **hand nozzle MS** (brass nickel-plated), outlet Ø 25 mm

nominal Ø	seal	part no.	
DN 19	PTFE	10-00112396	●
DN 25	PTFE	10-00112337	●
DN 32	PTFE	10-00112338	●



Hand nozzles without hose connection for use with hoses with inliner (see page 32)

for direct mounting onto FLUX hose kits page 30
or swaged hose fittings page 28-29

- **hand nozzle S** (stainless steel), outlet Ø 28 mm

nominal Ø	seal	part no.	
Ø 28	PTFE/FEP	10-00112549	●
G 1" male	PTFE/FEP	10-00112543	●
G 1 ¼" male	PTFE/FEP	10-00112544	●

- **hand nozzle MS** (brass nickel-plated), outlet Ø 25 mm

nominal Ø	seal	part no.	
Ø 32	PTFE	10-00112340	●
G 1" male	PTFE	10-00112389	●
G 1" female	PTFE	10-00112339	●



Hand nozzles with auto-stop function

- **hand nozzle AL 20** (aluminium), outlet Ø 24 mm

nominal Ø	version	seal	part no.	
G 1" male	with rigid inlet	PTFE	10-00112109	●
G 1" male	with swivel inlet	NBR	10-00112347	●

- **hand nozzle AL 20 R** (aluminium unleaded), outlet Ø 21 mm

nominal Ø	version	seal	part no.	
G 1" male	with swivel inlet	NBR	10-00112097	●

- **hand nozzle AL** (aluminium) for „AdBlue®“, outlet Ø 19 mm

nominal Ø	version	seal	part no.	
G 1" male	AdBlue® *	NBR	10-00112417	●

- **suitable for hand nozzle AL** for „AdBlue®“ *

	part no.	
magnetic adapter	10-00112453	●



* AdBlue® is a registered trademark of: Verband der Automobilindustrie e. V. (VDA)

Accessories for hand nozzles

longer outlet tube for mounting on hand nozzle

material	part no.	
polypropylene, 220 mm long, Ø 20 mm	10-00112228	●
stainless steel, 220 mm long, Ø 20 mm	10-00112285	●



stop valve in polypropylene for hand nozzles (is inserted in outlet) or for outlet tube PP Ø 20

	seal	spring	part no.	
for outlet tube PP Ø 20	FKM	S	10-95914019	●
	FFKM	HC	10-95914026	●
for hand nozzle S with outlet Ø 28 (not permitted for use in hazardous areas)	FKM	S	10-95914064	●
	FFKM	HC	10-95914066	●



F 400

FLUX discharge units with spring valve (FAEplus) for media up to 300 cP without solids content

wired version with start/stop button, with drip valve, without control cable (page 75), without mounting the control cable

- FLUX discharge units with spring valve **with hose connection**, outlet Ø 32 mm

	material	seal	part no.	
FAEplus PP	PP	FKM	10-00112571	●
FAEplus PP	PP	EPDM	10-00112572	●
FAEplus PVDF	PVDF	FKM	10-00112573	●
FAEplus PVDF	PVDF	FFKM	10-00112574	●
FAEplus PVDF	PVDF	EPDM	10-00112575	●
FAEplus S	S	FKM	10-00112576	●
FAEplus S	S	FFKM	10-00112577	●
FAEplus S	S	EPDM	10-00112578	●



- accessory for discharge unit**

spiral tape for fixation of the cable on the hose

	part no.	
Ø 20 - 100 mm	10-00110072	●

5-core control cable for the connection of the discharge unit with the switching amplifier

	part no.	
5 m long	10-93408038	●
10 m long	10-93408040	●
15 m long	10-93408041	●

drip valve IG M 29x1,5, seal EPDM

material	part no.	
PP	10-95914077	●
PVDF	10-95914078	●
S	10-95914079	●

FLUX flow meters see from page 59

Hose fittings and hoses see page 29 and 30

Accessories

for drum and container pumps, series 400

FES fume glands and accessories control emission of dangerous vapours from drums and IBC

Consisting of valve part and threaded ring

(please order both parts for a complete unit)

- **valve part PP** (polypropylene), with FKM O-ring, with G 1/4" female connection for hose nozzle

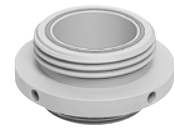
pump Ø	part no.	
25 mm	10-00114309	●
32 mm	10-00114313	●
40 mm	10-00114181	●
41 mm	10-00114182	●
50 mm	10-00114243	●



valve part with ball valve

- **threaded ring PP** (polypropylene) with FKM flat seal

pump Ø	thread connection	part no.	
25/32/40/41 mm	G 2" B male (G2" / BSP 2")	10-00114218	●
25/32/40/41 mm	CCS 57 x 4 male thread	10-00114224	●
25/32/40/41 mm	CCS 60 x 6 female thread (S60x6 / DIN 61)	10-00114228	●
25/32/40/41 mm	CCS 70 x 6 female thread (S70x6 / DIN 71)	10-00114226	●
25/32/40/41 mm	CCS 70 x 6 male thread (S70x6 / DIN 71)	10-00114232	●
25/32/40/41 mm	BCS 70 x 6 (with O-ring) male thread (2" Mauser / TriSure S70x6)	10-00114236	●
50 mm	G 2" B male (G2" / BSP 2")	10-00114238	●
50 mm	CCS 70 x 6 male thread (S70x6 / DIN 71)	10-00114267	●
40/41 mm	CCS 64 x 5 male thread	10-00114230	●



- **valve part S** (stainless steel), with FEP O-ring with G 3/8" female connection - for use in ATEX areas

pump Ø	part no.	
28 mm (FKM O-ring)	10-00114319	●
41 mm	10-00114192	●
41 mm with gas compensation connector DN 10	10-00114194	●
50 mm	10-00114253	●
50 mm with gas compensation connector DN 10	10-00114245	●



valve part with 3/8" BSPPF gas compensation connector

- **threaded ring S** (stainless steel), with PE flat seal - for use in ATEX areas

pump Ø	nominal Ø	part no.	
28/41 mm	G 2" male (G2" / BSP 2")	10-00114325	●
28/41 mm	CCS 57 x 4 male thread	10-00114329	●
50 mm	G 2" male (G2" / BSP 2")	10-00114331	●

- **threaded ring MS** (brass), with PE flat seal - for use in ATEX areas

pump Ø	nominal Ø	part no.	
41 mm	G 2" male (G2" / BSP 2")	10-00114327	●



Accessories for additional use of a gas compensation connector

- **hose nozzle** (PP) for valve part PP, DN 10 - G 1/4" male

part no.	
10-95913128	●



- **PE corrugated hose** for gas compensation

part no.	
10-00110061	●

- **EPDM compressed air hose** for gas compensation

part no.	
10-00110913	●



- **fume cone** (polypropylene, electrically conductive) for hand nozzle with outlet DN 10

part no.	
10-00114285	●
10-00114296	●



Compression gland – secure pump into drum or IBC

material	pump Ø	connection	part no.	
polyethylene	41 mm	57 x 4 male thread	10-00114067	●
polyethylene	41 mm	70 x 6 male thread	10-00114065	●
polyethylene	50 mm	70 x 6 male thread	10-00114066	●
polypropylene	40/41 mm	R 2 male, electrically conductive	10-00114054	●
polypropylene	50 mm	R 2 male, electrically conductive	10-00114062	●
steel/zinc-plated	40 mm	M 64 x 4 / G 2" male thread	10-00114061	●
steel/zinc-plated	41 mm	M 64 x 4 / G 2" male thread	10-00114000	●
steel/zinc-plated	50 mm	G 2" male thread	10-00114003	●
steel/zinc-plated	50 mm	M 64 x 4 male thread	10-00114002	●



Screw top for IBC – use with G2" male compression gland

connection	part no.	
DN 150	10-00114063	●
DN 225	10-00114064	●



Pump inlet suction strainers – for liquids containing solid particles

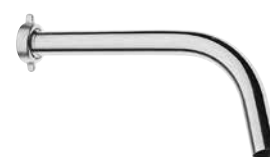
material	pump Ø	outer Ø	part no.	
polypropylene	40/41 mm	53 mm	10-00110200	●
polypropylene	50 mm	60 mm	10-00110205	●
polyvinylidene fluoride	40/41 mm	53 mm	10-00110245	●
polyvinylidene fluoride	50 mm	60 mm	10-00110267	●
stainless steel	41 mm	53 mm	10-00110209	●
stainless steel	43 mm (for FP 424 S-43/38 and -43/37Z)	53 mm	10-00110294	●
stainless steel	50 mm	59 mm	10-00110212	●



Discharge spout

with union nut G 1¼" female – to suit drum pump outlet

material	nominal Ø	part no.	
stainless steel (S)	DN 25	10-95907007	●
polypropylene (PP)	DN 19	10-95907009	●



Quick action coupling SSK 400

use where quick or frequent disassembly of pump and motor is required

	part no.	
complete	10-00110802	●
threaded ring (motor)	10-00110800	●
clamping element (pump)	10-00110804	●



Accessories

for drum and container pumps, series 400

Attachment clamps

- **wall brackets** in stainless steel 1.4301, with screws for fixing

	part no.	
for drum and container pumps	10-00110426	●

- **attachment clamp**, material: steel zinc-plated, polypropylene

for pump Ø	part no.	
40/41 mm	10-00110601	●
50 mm	10-00110603	●

- **container clip**, stainless steel 1.4301, rilsan-coated

for pump Ø	part no.	
40/41 mm	10-00115005	●
50 mm	10-00115006	●



Tools

	part no.	
jointed hood-wrench for fume glands , 60-90 mm, for capstan nuts DIN 1816, stud Ø 5mm	10-96142500	●
key for coupling star	10-96140889	●

Mixing tubes

for drum pumps instead of the outer tube for dedicated mixing applications in drums or IBCs

- for F 430 AL-4 1/38

immersion length	part no.	
700 mm	10-43011192	●
1.000 mm	10-43011193	●
1.200 mm	10-43011194	●

- for F 430 S-41/38 (not allowed in hazardous areas)

immersion length	part no.	
700 mm	10-43021192	●
1.000 mm	10-43021193	●
1.200 mm	10-43021194	●

- for F 430 PP-40/33

immersion length	part no.	
700 mm	10-43041192	●
1.000 mm	10-43041193	●
1.200 mm	10-43041194	●



F 400

Non-return valves

- stainless steel, seal FKM for mounting onto pump discharge

for pumps	part no.	
FP 424 - F 430 G 1 1/4 - G 1 1/4 A	10-95914024	●
3/4" on both sides	10-95914022	●

- stainless steel, seal PTFE

connection	part no.	
G 1 1/4 - G 1 1/4 A	10-95914048	●
G 1 on both sides	10-95914047	●

- polypropylene, FKM seal, for mounting onto pump foot

for pumps	part no.	
F 430 PP-40/33	10-95914029	●
F 430 PP-40/33Z	10-95914030	●

- polyvinylidene fluoride, FKM seal, for mounting onto pump foot

for pumps	part no.	
F 430 PVDF-40/33	10-95914038	●
F 430 PVDF-40/33Z	10-95914039	●



Accessories

for drum and container pumps (series 400) in FOOD version

Accessories for drum and container pumps in FOOD version

suitable for food contact according to Regulation (EC) 1935/2004 and FDA CFR 21



- hose connections**

material: stainless steel 316 Ti, pump connection clamp 1½"

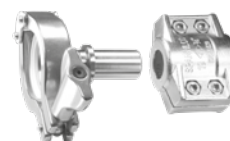
nominal Ø	seal	part no.	
DN 19	FKM	10-95904171	●
DN 19	NBR	10-95904172	●
DN 25	FKM	10-95904169	●
DN 25	NBR	10-95904170	●



- swaged hose fittings for the connection of pump and hose**

for use with hose or special hose for food and chemistry, screwed version, stainless steel 316 Ti, connection pump clamp 1½", DN 40

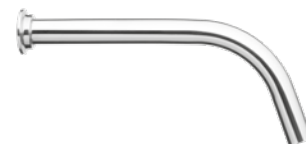
nominal Ø	seal	part no.	
DN 19	FKM	10-95913354	●
DN 19	NBR	10-95913355	●
DN 25	FKM	10-95913356	●
DN 25	NBR	10-95913357	●



- discharge spout**

material: stainless steel

nominal Ø	seal	part no.	
1 ½" clamp (Ø 28)	FKM	10-95907030	●
1 ½" clamp (Ø 28)	NBR	10-95907033	●



- outlet tube for hand nozzle S**

stainless steel 316 Ti, G ¾ male connection, 100 mm long, Ø 10 mm

seal	part no.	
PTFE, FDA	10-00112658	●

- flap valve**

material: stainless steel, connection pump clamp 1½", DN 40

seal	part no.	
FKM	10-95919010	●
NBR	10-95919012	●



- joint clamp for flap valve DN 40**

material	connection	part no.	
stainless steel	clamp 1 ½"	10-43021019	●



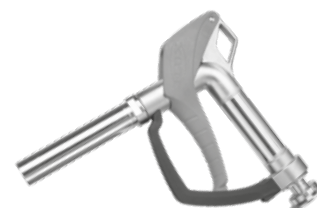
- seals for flap valve DN 40**

material	part no.	
EPDM, FDA/FOOD	10-92569017	●
NBR, FDA/FOOD	10-92569015	●
FKM, FDA/FOOD	10-92569014	●
PTFE, FDA/FOOD	10-92569016	●

- hand nozzle**

for use with FLUX drum pump FP 430 S FOOD (for alcohols) outlet Ø 28 mm

material	nominal Ø	seal	part no.	
stainless steel	clamp 1 ½"	PTFE/FKM	10-00112658	●



Hoses see page 31

Progressive cavity pumps

VISCOPOWER F 570 and F 580



Progressive cavity pumps

VISCOPOWER F 570 with double stage gearbox $i=16$

VISCOPOWER Pumps F 570 - with double stage gearbox $i=16$

open mechanical seal, FKM seal, stator material PTFE, torsion shaft

immersion depth [mm]	rotor geometry	part no.	
700 mm	R33	12-57000001	●
700 mm	R52	12-57000004	●
1.000 mm	R17	12-57000007	●
1.000 mm	R33	12-57000002	●
1.000 mm	R52	12-57000005	●
1.200 mm	R17	12-57000008	●
1.200 mm	R33	12-57000003	●
1.200 mm	R52	12-57000006	●



open mechanical seal, NBR seal, stator material NBR white, torsion shaft

immersion depth [mm]	rotor geometry	part no.	
1.000 mm	R33	12-57000011	●
1.000 mm	R52	12-57000013	●
1.200 mm	R33	12-57000012	●
1.200 mm	R52	12-57000014	●

open mechanical seal, FKM seal, stator material PTFE ATEX, torsion shaft, with Ex approval, ex-marking II 1/2 G Ex h IIB T4...T3 Ga/Gb



immersion depth [mm]	rotor geometry	part no.	
1.000 mm	R33	12-57000021	●
1.200 mm	R33	12-57000022	●

closed mechanical seal, FKM seal, stator material PTFE, torsion shaft, for food contact according to regulation (EC) 1935/2004 and FDA CFR 21



immersion depth [mm]	rotor geometry	part no.	
1.000 mm	R33	12-57000015	●
1.000 mm	R52	12-57000017	●
1.200 mm	R33	12-57000016	●
1.200 mm	R52	12-57000018	●

closed mechanical seal, FKM seal, stator material PTFE, torsion shaft, with 3-A approval, for food contact according to regulation (EC) 1935/2004 and FDA CFR 21



immersion depth [mm]	rotor geometry	part no.	
1.000 mm	R33	12-57000019	●
1.000 mm	R52	12-57000020	●

outlet adapter see page 47

hose connections see page 47

drive motors for gear version see page 16-18

F 570
 $i=16$

Accessories for motors F 457, F 458, F 460 Ex and FBM 4000 Ex

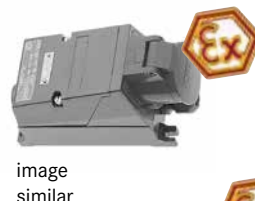
- **CEE plug**, for applications in Zone 1, 3-poles, 200-250 V

System	part no.	
CEAG, Ex-marking: II 2 G Ex db eb IIC/IIB+H2 T6	10-93701030	●
Stahl, Ex-marking II 2G Ex eb IIC T6...T5 Gb	10-93701047	●



- **CEE socket**, for applications in Zone 1, 3-poles, 200-250 V

System	part no.	
CEAG, Ex-marking: II 2 G Ex eb IIC T6	10-93750041	●
Stahl, Ex-marking II 2G Ex eb IIC T6...T5 Gb	10-93750067	●



- **earth wire with crocodile clip**

	cable cross-section	depth	clamp	part no.	
spiral cable (yellow)	3 mm ²	4 m	stainless steel	10-93190023	●
cable (green/yellow)	4 mm ²	2 m	steel	10-93190015	●



- **carrying handle, Rilsan-coated**

	part no.	
F 457	10-00110533	●
F 458, F 458-1	10-00110500	●



- **carrying handle, cpl. with earth wire**

	part no.	
F 460 Ex, FBM 4000 Ex	10-00110596	●



- **inertia hoist, rope depth 2 m**

	part no.	
carrying force 9 - 14 kg	10-00121000	●
carrying force 16 - 21 kg	10-00121002	●



F 570
i=16

Drive motors and accessories

Compressed-air motors F 416 Ex for drum and container pumps

470 watt at 6 bar, 14 liter/sec. air consumption, for applications in Zone 1, Ex-marking II 2G Ex h IIC T6 Gb. Require dry, clean, lubricated air.

- **F 416 Ex**

	part no.	
with operating valve (adjustable and lockable)	10-41600131	●

- **F 416-1 Ex**

	part no.	
no valve, for automatic control	10-41600132	●

- **F 416-2 Ex**

	part no.	
with ball valve, to regulate speed	10-41600133	●



Accessories for compressed-air motors F 416 Ex

- **filter-regulator-lubricator unit G 1/4" female connection**

	part no.	
for non hazardous areas	10-00110130	●
explosion-proof	10-00110140	●

- **compressed-air hose**

	part no.	
DN 10, electrically conductive, EPDM, blue, outer Ø 17 mm	10-00110913	●

- **hose coupling with hose connection in brass**

	part no.	
DN 10	10-95913066	●

- **coupling in brass**

	part no.	
DN 7,2 - G 1/4" male	10-95913210	●

- **threaded nipple in brass for hose coupling**

	part no.	
DN 10, G 1/4" male	10-95913065	●

- **hose nozzle (brass)**

	part no.	
DN 10, G 1/4" male	10-95905022	●

- **plug-in sleeve in brass**

	part no.	
DN 10	10-95913209	●

- **1-ear hose clip**

	part no.	
Ø 14,8; clamping range 8-18 mm	10-95913237	●

- **earth wire with crocodile clip**

	cable cross-section	depth	clamp	part no.	
spiral cable (yellow)	3 mm ²	4 m	stainless steel	10-93190023	●
cable (green/yellow)	4 mm ²	2 m	steel	10-93190015	●

- **fine filter sound absorber with oil separator**

	part no.	
complete with mounting bracket	10-94715005	●

- **exhaust air hose kit for compressed-air motors F 416**
PVC hose DN13, 5 m long

	part no.	
connections G 1/2 - G 1/2 A (both male threads) for compressed-air motors F 416 with additional fine filter silencer with oil separator	10-00110886	●



further accessories for drive motors can be found in our detailed FLUX Accessories brochure.

Progressive cavity pumps

VISCOPOWER F 570 with single-stage gear i=7



VISCOPOWER pumps F 570 with single-stage gear i=7

- open mechanical seal, FKM seal, torsion shaft

immersion depth [mm]	rotor geometry	stator material	part no.	
1.000 mm	R33	PTFE	12-57000024	●
1.000 mm	R52	PTFE	12-57000023	●



Appropriate motors F 403

- **single phase AC motor**, 230 V, 50 Hz, IP 55, with motor protection switch, 5 m cable and plug

	part no.	
F 403/2, 0,50 kW, 3.000 rpm	10-4030 1023	●
F 403/4, 0,55 kW, 1.500 rpm	10-4030 1024	●

- **three-phase motor**, 230/400 V, 50 Hz, IP 55, with motor protection switch, without cable

	part no.	
F 403/4, 0,55 kW, 1.500 rpm	10-4030 1025	●
F 403/2, 0,75 kW, 3.000 rpm	10-4030 1026	●
F 403/4 Ex, 0,55 kW, 1.500 rpm	10-4030 1030 ¹	●



¹ Ex II 2G Ex eb IIC T3 Gb



image similar

F 570
i=7

outlet adapter see page 47
hose connections see page 47

Progressive cavity pumps

VISCOPOWER F 580 with motor flange

VISCOPOWER pumps F 580 with motor flange

- **open mechanical seal, FKM seal, stator material PTFE**

immersion depth [mm]	rotor geometry	shaft	part no.	
700 mm	R33	cardan	12-58000001	●
700 mm	R52	cardan	12-58000004	●
1.000 mm	R33	torsion	12-58000002	●
1.000 mm	R52	torsion	12-58000005	●
1.200 mm	R33	torsion	12-58000003	●
1.200 mm	R52	torsion	12-58000006	●

- **open mechanical seal, NBR seal, stator material NBR white, torsion shaft**

immersion depth [mm]	rotor geometry	part no.	
1.000 mm	R17	12-58000009	●
1.000 mm	R33	12-58000011	●
1.200 mm	R17	12-58000010	●
1.200 mm	R33	12-58000012	●

- **open mechanical seal, FKM seal, stator material PTFE ATEX, torsion shaft, ex-protected, ex-marking II 1/2 G Ex h IIB T4...T3 Ga/Gb**

immersion depth [mm]	rotor geometry	part no.	
1.000 mm	R33	12-58000017	●
1.200 mm	R33	12-58000018	●

- **closed mechanical seal, FKM seal, stator material PTFE, torsion shaft, for food contact according to regulation (EC) 1935/2004 and FDA CFR 21**

immersion depth [mm]	rotor geometry	part no.	
1.000 mm	R52	12-58000013	●
1.200 mm	R52	12-58000014	●



- **closed mechanical seal, FKM seal, stator material PTFE, torsion shaft, with 3-A approval, for food contact according to regulation (EC) 1935/2004 and FDA CFR 21**

immersion depth [mm]	rotor geometry	part no.	
1.000 mm	R33	12-58000015	●
1.000 mm	R52	12-58000016	●



- **adapter flange kit for VISCOPOWER pumps F 580**
anodized aluminum, with coupling half size 24 and 4 screws

suitable for	part no.	
IEC standard motors size 90 design B14	10-00110915	●
IEC standard motors size 100/112 design B14	10-00110920	●

- **sensor cable for VISCOPOWER with pulser**

	part no.	
5 m long, for connection of sensor and evaluation unit FLUXTRONIC®	11-00000192	●



outlet adapter see page 47

hose connections see page 47

drive motors for motor flange version see page 50

• stators

rotor geometry	material	regulation	part no.	
R17	NBR white	FDA conform, (EC) No. 1935/2004	11-00000031	●
	FKM		11-00000032	●
	PTFE	FDA conform, (EC) No. 1935/2004	11-00000033	●
	PTFE ATEX	FDA conform, (EC) No. 1935/2004	11-00000034	●
R33	NBR white	FDA conform, (EC) No. 1935/2004	11-00000035	●
	FKM		11-00000036	●
	PTFE	FDA conform, (EC) No. 1935/2004	11-00000037	●
	PTFE ATEX	FDA conform, (EC) No. 1935/2004	11-00000038	●
R52	NBR white	FDA conform, (EC) No. 1935/2004	11-00000039	●
	FKM		11-00000040	●
	PTFE	FDA conform, (EC) No. 1935/2004	11-00000041	●
	PTFE ATEX	FDA conform, (EC) No. 1935/2004	11-00000042	●
R83	EDPM white	FDA conform, (EC) No. 1935/2004	11-000000386	●
	NBR white	FDA conform, (EC) No. 1935/2004	11-00000043	●
	FKM		11-00000044	●



• stator housing

	part no.	
with suction protection	11-00000145	●
with clamping socket 2"	11-00000392	●
with inliner suction protection	11-00000147	●
with suction protection 3-A	11-00000146	●
with inliner suction protection 3-A	11-00000148	●



• outlet adapter in stainless steel, FKM seal and hinged clamp

	part no.	
Clamp 2" on G 1/2" AG	11-00000159	●
Clamp 2" on G 1" AG	11-00000160	●
Clamp 2" on G1 1/2" AG	11-00000161	●
Clamp 2" on RD 58x1/6" AG	11-00000162	●
Clamp 2" on RD 65x1/6" AG	11-00000163	●
Clamp 2" on G 2" AG	11-00000231	●



• tools

	part no.	
jaws	10-96142504	●
staking tool	11-00000194	●



• hose connections in stainless steel

connection	seal	part no.	
DN 25, G 1 1/2, with union nut	PE	10-95904002	●
DN 32, G 1 1/2, with union nut	PE	10-95904003	●
DN 38, G 1 1/2, with union nut	PE	10-95904004	●
DN 25, Rd 58 x 1/6, with union nut	-	10-95904115	●
DN 32, Rd 58 x 1/6, with union nut	-	10-95904134	●
DN 38, Rd 58 x 1/6, with union nut	-	10-95904130	●
DN 32, Clamp 2", with hinged clamp	FKM	10-95904173	●
DN 38, Clamp 2", with hinged clamp	FKM	10-95904175	●



Accessories for progressive cavity pumps

F 570 and F 580

- **by-pass valve**, connection G 1½ – G 1½ A

	part no.	
brass, PTFE seal, with flow-back tube 300 mm long	10-00118026	●
brass, PTFE seal, with hose connection DN 19	10-00118028	●
stainless steel, FKM seal, with hose connection DN 19	10-00118029	●
stainless steel, PTFE seal, with hose connection DN 19	10-00118046	●
brass, PTFE seal, with hose connection DN 25	10-00118056	●
stainless steel, FKM seal, with hose connection DN 25	10-00118057	●
stainless steel, PTFE seal with hose connection DN 25	10-00118058	●



- **attachment clamp**, material: steel zinc-plated, PP

for pump Ø	part no.	
53 mm	11-00000209	●



- **container clip**, stainless steel 1.4301

for pump Ø	part no.	
53 mm	10-00115006	●



- **compression gland** (for pump Ø 53 mm)

	part no.	
G 2" male, with hinged clamp, stainless steel	11-00000548	●
M 64 x 4, with hinged clamp, stainless steel	11-00000549	●
external thread R 2, electrically conductive, PP	10-00114091	●



- **suction strainer S** (stainless steel)

for pump Ø 53 mm	part no.	
	11-00000186	●



- **discharge spout**, material stainless steel 316 Ti

connection	part no.	
G 1½" male	10-95907043	●



FES fume glands for VISCOPOWER

consisting of valve part and threaded ring (please order both parts for a complete unit)

- **valve part S** (stainless steel) for pump Ø 53 mm, with FEP O-ring with G ¾" female connection

	part no.	
with ball valve made of ETFE	10-00114340	●
with gas compensation connector DN 10	10-00114341	●



valve part with ¾" BSPFF gas compensation connector

- **threaded ring S** (stainless steel), with PE flat seal

pump Ø	nominal Ø	part no.	
53 mm	G 2" male	10-00114346	●



Accessories for progressive cavity pumps in FOOD version

suitable for food contact according to Regulation (EC) 1935/2004 and FDA CFR 21



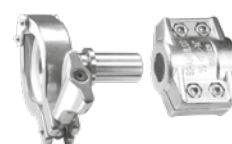
- **hose connections** in stainless steel 316 Ti, 2" clamp connection

nominal Ø	seal	part no.	
DN 32	FKM	10-95904173	●
DN 32	NBR	10-95904174	●
DN 32	PTFE	10-95904180	●
DN 38	FKM	10-95904175	●
DN 38	NBR	10-95904176	●
DN 38	PTFE	10-95904181	●



- **swaged hose fittings** for use with hose or special hose for food and chemistry, screwed version, stainless steel 316 Ti, connection pump clamp 2"

nominal Ø	seal	part no.	
DN 25	FKM	10-95913358	●
DN 25	NBR	10-95913359	●
DN 32	FKM	10-95913360	●
DN 32	NBR	10-95913361	●
DN 38	FKM	10-95913362	●
DN 38	NBR	10-95913363	●
DN 25	PTFE	10-95913388	●
DN 32	PTFE	10-95913389	●
DN 38	PTFE	10-95913390	●



- **discharge spout** in stainless steel 316 Ti

nominal Ø	part no.	
Clamp 2" (Ø 42)	10-95907036	●



- **accessories for discharge spout** in stainless steel 316 Ti

	part no.	
holder for spout	10-00122440	●
cardan clip for clamp 2"	10-55024376	●
seal for 2" clamp, EPDM (with FDA/FOOD approval)	10-92589059	●
seal for 2" clamp, FKM (with FDA/FOOD approval)	10-92589023	●
sealing ring Clamp 2", PTFE	10-92589008	●
seal for 2" clamp, NBR (with FDA/FOOD approval)	10-92589025	●



- **flap valve** in stainless steel 1.4404, 2" clamp connection 2", DN 50

seal	part no.	
FKM	10-95919011	●
NBR	10-95919013	●



- **hinged clamp** for discharge spout with and without flap valve with 2" clamp

material	connection	part no.	
stainless steel	for clamp 2"	10-55024376	●
seal for 2" clamp, FKM (with FDA/FOOD approval)		10-92589023	●
seal for 2" clamp, NBR (with FDA/FOOD approval)		10-92589025	●

Drive motors for progressive cavity pumps

F 580 - motor flange version

Drive motors for progressive cavity pump F 580 in motor flange version

- **three-phase motor 400 V, 50 Hz, IP 55, IE3, with motor protection switch**

	part no.	
1,5 kW, 1.000 rpm	10-00103447	●
2,2 kW, 1.000 rpm	10-00103472	●
1,1 kW, 750 rpm	10-00101591	●
1,5 kW, 750 rpm	10-00103475	●

- **three-phase motor 230/400 V, 50 Hz, IP 55, IE3, with cable terminal box**

	part no.	
1,5 kW, 1.000 rpm	10-00103446	●
2,2 kW, 1.000 rpm	10-00103471	●
1,1 kW, 750 rpm	10-00101589	●
1,5 kW, 750 rpm	10-00103474	●

- **three-phase motor 230/400 V, 50 Hz, with cable terminal box**
Ex marking Ex II 2G Ex eb IIC T3 Gb

	part no.	
0,75 kW, 1.000 rpm	10-00101122	●
1,0 kW, 1.000 rpm	10-00101123	●
1,5 kW, 1.000 rpm	10-00101125	●
0,95 kW, 750 rpm	10-00101592	●
1,3 kW, 750 rpm	10-00101593	●

- **spur wheel back-geared motor with frequency regulation**
voltage 380 - 500 V, 50/60 Hz, IP 54, IE3, without foot flange

	A	part no.	
0,55 kW, 47 - 472 rpm	1,6	10-00102178	●

- **start / stop switch for spur wheel back-geared motor**
with frequency regulation and attached set point adjuster

	part no.	
switching voltage 24 V DC, IP 66, with 1 m spiral cable with Hirschmann plug	10-93600040	●

- **compressed-air motor, explosion-proof, with silencer**

	part no.	
FPM 4 Ex, 0,6 kW at 1.000 rpm	10-00104000	●
FPM 6 Ex, 1,2 kW at 1.000 rpm	10-00104014	●
FPM 8 Ex, 2,0 kW at 1.000 rpm	10-00104002	●

Accessories for compressed-air motor FPM 4 Ex - FPM 8 Ex

- **carrying handle, stainless steel**

	part no.	
	10-00110520	●

- **filter, regulator and lubricator unit** consisting of water separator, oil mist blower, manometer, G 1/2" female connection

	part no.	
not explosion-proof	10-00110103	●
explosion-proof	10-00110116	●

- **PVC compressed-air hose**

	part no.	
DN 13, outer Ø 20 mm	10-00110008	●

- **hose coupling in brass**

	part no.	
DN 13	10-95913122	●

- **threaded nipple in brass for hose coupling**

	part no.	
DN 13 - G 1/2 A	10-95913121	●

- **hose nozzle in brass**

	part no.	
DN 13 - G 1/2 A	10-95905017	●

- **1-ear hose clip**

material	clamping range	part no.	
stainless steel	18,8 - 22,0 mm	10-95913239	●

- **fine filter sound absorber with oil separator**

	part no.	
complete with mounting bracket	10-94715005	●



image similar



image similar



FPM 4 Ex



Accessories for drive motors

for VISCOPOWER F 580



Accessories for three-phase motors

- **carrying handle**, stainless steel (pump unit is screwed to the carrying handle) **for pump flange Ø 120**

	part no.	
for type F 403	10-00110584	●

- **carrying handle for motor flange Ø 160**

mounting with 2 lugs for 3-phase motors up to size 90 and max. 20 kg

	part no.	
standard version	10-00110531	●
with mounting for ex motor protection switch	10-00110588	●

- **carrying handle for motor flange Ø 160**

mounting with flange for 3-phase motors up to size 112M

	part no.	
separate mounting of pump and motor. Removal of the pump can be done without removal of the motor.	10-00110598	●

- **power supply cable**

	part no.	
pre-assembled with sleeve and Cekon plug, 5 m long	10-93408020	●
pre-assembled with sleeve without plug, 5 m long	10-93408025	●
per meter	10-93408901	●
electrical mounting commutator motor	10-Z0500MKS	●
electrical mounting three-phase motor	10-Z0500DKS	●

- **cekon plug**

	part no.	
5-poles	10-93701014	●
5-poles with commutator	10-93701035	●

- **CEE round pin plug**, for applications in Zone 1, 5-poles, 380 - 415 V (CEAG), 240 - 415 V (Stahl)

system	part no.	
CEAG, Ex-marking: II 2 G Ex db eb IIC/IIB+H2 T6	10-93701029	●
Stahl, Ex-marking: II 2 G Ex eb IIC T6...T5 Gb	10-93701048	●

- **CEE socket**, for applications in Zone 1, 5-poles 380 - 415 V (CEAG), 240 - 415 V (Stahl)

system	part no.	
CEAG, Ex-marking: II 2 G Ex eb IIC T6	10-93750040	●
Stahl, Ex-marking: II 2 G Ex eb IIC T6...T5 Gb	10-93750066	●

- **motor protection switch**, for applications in Zone 1, Ex-marking II 2 G Ex d e IIC T5 Gb, with 2 cable inlet ports, for mounting on the carrying handle

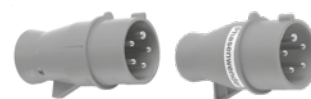
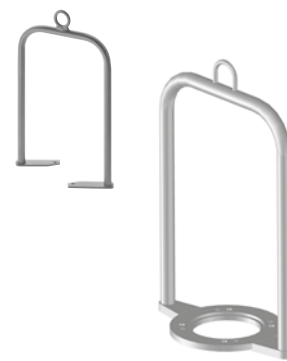
	part no.	
0,75 kW, 700 rpm, 1,6-2,5 A	10-93606118	●
0,75 kW, 930 rpm, 1,6-2,5 A	10-93606118	●
0,95 kW, 700 rpm, 2,5-4,0 A	10-93606119	●
1,1 kW, 930 rpm, 2,5-4,0 A	10-93606119	●

- **earth wire** with crocodile clip

	cable cross-section	depth	forceps	part no.	
spiral cable (yellow)	3 mm ²	4 m	stainless steel	10-93190023	●
cable (green/yellow)	4 mm ²	2 m	steel zinc-plated	10-93190015	●

- **motor protection switch**, jet-proof acc. to IP 65 with 2 cable inlet ports

	part no.	
1,30 - 2,00 A, size 71	10-93606210	●
1,30 - 2,00 A, size 80 + 90	10-93606211	●
1,80 - 3,00 A, size 80 + 90	10-93606212	●
1,80 - 3,00 A, size 100 + 112	10-93606213	●
2,80 - 4,60 A, size 100 + 112	10-93606214	●
4,20 - 6,70 A, size 100 + 112	10-93606215	●
6,20 - 10,00 A, size 100 + 112	10-93606216	●



Accessories

Progressive cavity pumps F 580 - for dry installation (TR)

VISCOPOWER pumps F 580 with motor flange

- **open mechanical seal**, FKM seal, stator material PTFE, cardan shaft

immersion depth [mm]	rotor geometry	connection pump tube	part no.
400 mm	R52	Clamp	12-58000019 ●



- **open mechanical seal, ex-protected**, NBR seal, stator material PTFE ATEX, cardan shaft, with ex approval, ex marking II 1/2 G Ex h IIB T4...T3 Ga/Gb



immersion depth [mm]	rotor geometry	connection pump tube	part no.
400 mm	R52	Clamp	12-58000021 ●

- **closed mechanical seal**, FKM seal, stator material PTFE, cardan shaft, for food contact according to regulation (EC) 1935/2004 and FDA CFR 21



immersion depth [mm]	rotor geometry	connection pump tube	part no.
400 mm	R52	Clamp	12-58000020 ●

Drive motors with foot flange

- **three-phase motor** 400 V, 50 Hz, IP 55, motor protection switch, without cable

	A	part no.
1,1 kW, 1.000 rpm	2,85	10-00103448 ●
2,2 kW, 1.000 rpm	5,00	10-00103473 ●
0,75 kW, 750 rpm	2,70	10-00102176 ●
1,5 kW, 750 rpm	4,15	10-00103476 ●

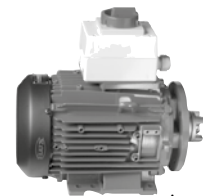


image similar

- **three-phase motor** 230 / 400 V, 50 Hz, IP 55, cable terminal box, without cable

	A	part no.
1,5 kW, 1.000 rpm	3,80	10-00101126 ●
1,3 kW, 750 rpm	4,25	10-00101594 ●



- **spur wheel back-geared motor with frequency regulation**
voltage 380 - 500 V, 50/60 Hz, IP 54

	A	version	part no.
0,55 kW, 47 - 472 rpm	1,60	without foot flange	10-00102178 ●
		with foot flange	10-00102179 ●

- **start / stop switch for spur wheel back-geared motor**
with frequency regulation and attached set point adjuster

	part no.
switching voltage 24 V DC, IP 66, with 1 m spiral cable	10-93600040 ●

other motors on request

Base plate and pump trolley

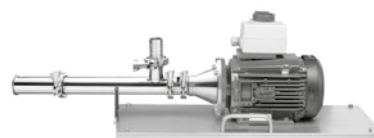
	part no.
stainless steel base plate	10-00115033 ●
stainless steel pump trolley with electrically conductive rollers	10-00115051 ●

- **fixing support**

for motor mounted on pump trolley or base plate	part no.
	10-00115037 ●



Pump trolley with pump F 580



console with pump F 580

other TR versions on request

Drum-emptying systems

VISCOFLUX



VISCOFLUX lite

For transferring high-viscosity media that are just capable of flowing

Consisting of: pump centring plate and follower plate with flexible process seal

For use with FLUX progressive cavity pump VISCOPOWER, 1.000 mm long, diameter 53 mm

Designed for 200 liter ISO drum with an inside diameter of 571,5 mm

VISCOFLUX lite

	part no.	
pump centring plate (PE) and follower plate (stainless steel 316 Ti, 6 hole pattern)	10-00122470	●

suitable process seals (6 hole pattern)

	part no.	
NBR white	10-92589081	●
NBR black	10-92589006	●
FKM	10-92589007	●
EPDM	10-92589072	●



VISCOFLUX

VISCOFLUX lite Ex



Ex-marking: II 1G Ex h IIB T6...T4 Ga

	part no.	
pump centring plate (PE conductive) and follower plate (stainless steel, 5 hole pattern)	10-00122480	●

suitable set of seals (comprising process seal and O-ring)

	part no.	
NBR conductive	10-92589065	●
EPDM conductive	10-92589066	●



illustration with pump and motor

suitable pumps see page 42, 45, 46

VISCOFLUX mobile S

The stand-alone solution for transferring high-viscosity fluids



The portable drum emptying system for ISO drums with lid. Consisting of a process device with integrated moving sledge and lifting sledge as well as a driving unit. The process device is complete in stainless steel and with protection class IP 66.

The drum emptying system is available for the following drums:

- cylindrical with internal diameter 571,5 mm
- cylindrical with internal diameter 560 mm
- conical with internal diameter top 550 mm, bottom 515 mm
- with a smaller opening at the top 540 mm, bottom 571,5 mm (sea containers drums)

• **process device for three-phase motors**

version PFC-S (Pharma, Food, Cosmetic)	part no.
with trolley 470 mm for euro pallets	10-00122425 ●
with trolley 890 mm for freestanding drums and universal pallets for 4 drums	10-00122426 ●

• **process device for compressed-air motors**

version PFC-S (Pharma, Food, Cosmetic)	part no.
with trolley 470 mm for euro pallets	10-00122456 ●
with trolley 890 mm for freestanding drums and universal pallets for 4 drums	10-00122457 ●

• **follower plate** in stainless steel (without process seal)

	part no.
for drums Ø 560 mm and Ø 571,5 mm	10-00122324 ●
for conical drums Ø 550 mm above, Ø 515 mm below	10-00122304 ●
for drums with smaller opening at the top Ø 540 mm, below Ø 571 mm	10-00122357 ●

• **follower plate** in stainless steel **with Inliner suction protection** (without process seal)

	part no.
for drums Ø 560 mm and Ø 571,5 mm	10-00122393 ●
for conical drums Ø 550 mm above, Ø 515 mm below	10-00122394 ●

• **process seals**

for drum type	material	regulation	part no.
Ø 560 mm	FKM		10-92589030 ●
Ø 560 mm	NBR white	FDA conform, (EC) No. 1935/2004	10-92589077 ●
Ø 560 mm	NBR white	FDA conform, (EC) No. 1935/2004	10-92589068 ●
Ø 571 mm	FKM		10-92589031 ●
Ø 571 mm	NBR white	FDA conform, (EC) No. 1935/2004	10-92589078 ●
Ø 571 mm	NBR white	FDA conform, (EC) No. 1935/2004	10-92589069 ●
conical drum	NBR white	FDA conform, (EC) No. 1935/2004	10-92589079 ●
conical drum	NBR white	FDA conform, (EC) No. 1935/2004	10-92589070 ●
with smaller opening	NBR white	FDA conform, (EC) No. 1935/2004	10-92589080 ●
with smaller opening	NBR white	FDA conform, (EC) No. 1935/2004	10-92589071 ●

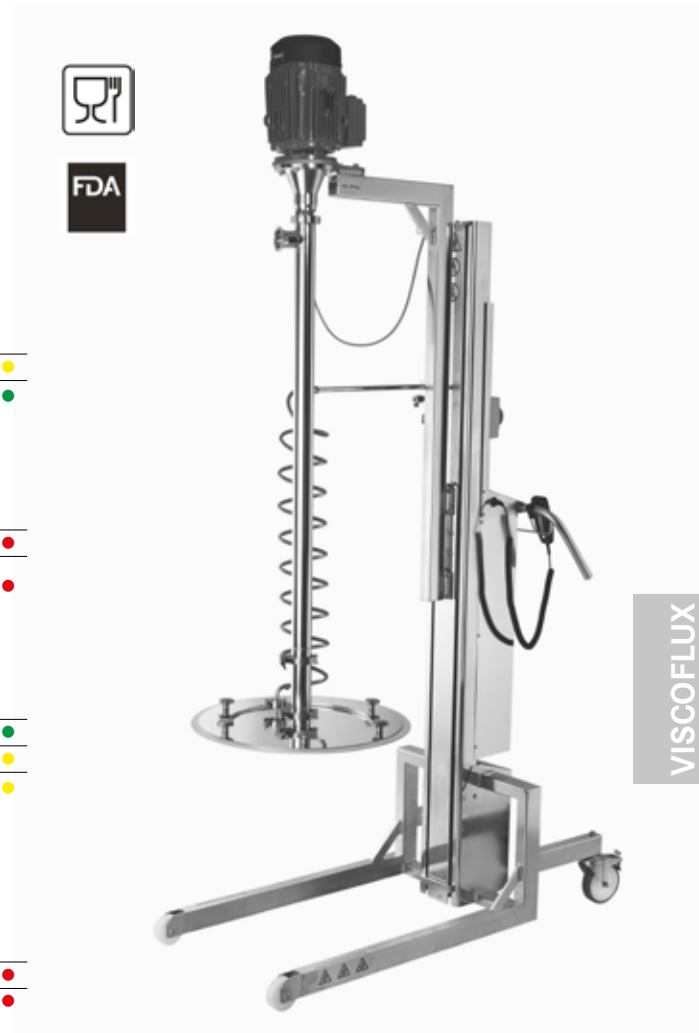


illustration with pump and motor

suitable pumps see page 58

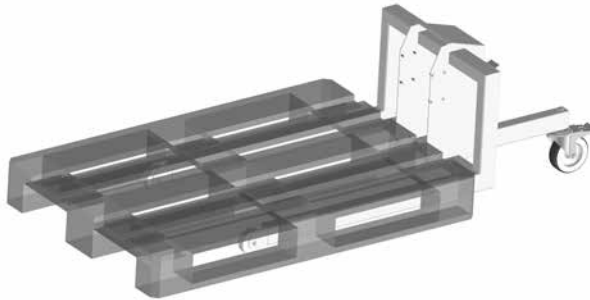
• **optional accessories for VISCOFLUX mobile S**

blind cover clamp for follower plate	part no.	
Clamp DN 10	10-00122355	●
Clamp 2"	10-00122356	●

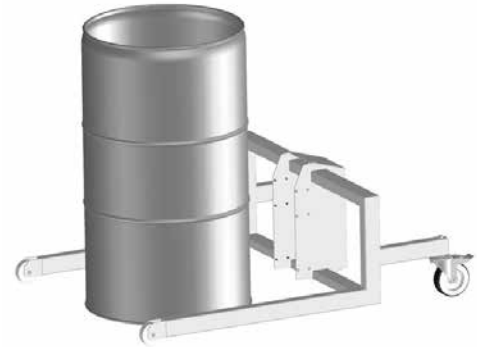
trolley (interchangeable)	part no.	
470 mm	10-00122431	●
890 mm	10-00122432	●



blind cover



trolley 470 mm for drums on europallets



trolley 890 mm for freestanding drums and for universal pallets for 4 barrels

Control options VISCOFLUX mobile S

- **with motor protection switch, protection class IP 65**
with main / emergency stop switch

	adjustment range	part no.	
without no-volt protection	1,8 - 3,0 A	10-93606196	●
	2,8 - 4,6 A	10-93606197	●
	4,2 - 6,7 A	10-93606204	●
with no-volt protection	1,8 - 3,0 A	10-93606198	●
	2,8 - 4,6 A	10-93606199	●

- **cabinet for three-phase motors with 400 V without speed control**
with motor start/stop button, with end position warning light,
with emergency switch

	part no.	
without FLUXTRONIC®	10-93613028	●
with FLUXTRONIC® for batch operation	10-93613029	●

- **cabinet for spur-gear motor with frequency converter with 400 V with speed control, with motor start/stop button, with end position warning light,**
with emergency switch

	part no.	
without FLUXTRONIC®	10-93613030	●
with FLUXTRONIC® for batch operation	10-93613031	●

- **optional accessory for VISCOFLUX mobile S with cabinet**
end position switch with tension spring and fixing support, protection class IP 67

nominal voltage	nominal current	part no.	
max. 400 V	max. 4 A	10-00122447	●



end position switch

Hoses

- DN 38, outer Ø 51 mm, (product sold by meter – we recommend 3 m)

	operating pressure max.	part no.	
petroleum hose	25 bar	10-00110004	●
special foodgrade hose	16 bar	10-00110119	●
hose for food and chemistry	16 bar	10-00110086	●



Swaged hose fittings DN 38

material	nominal Ø	seal	part no.	
brass	G 1 1/2" female		10-95913143	●
stainless steel	G 1 1/2" female		10-95913147	●
stainless steel	Clamp 2"	FKM (FOOD)	10-95913362	●
stainless steel	Clamp 2"	NBR (FOOD)	10-95913363	●



Discharge spout

- in stainless steel 316 Ti, suitable for food contact according to regulation (EC) 1935/2004 and FDA CFR 21

	nominal Ø	part no.	
with holder	Clamp 2"	10-95907046	●
without holder	Clamp 2"	10-95907036	●



- accessories for discharge spout

	part no.	
holder for spout	10-00122440	●
cardan clip for Clamp 2"	10-55024376	●
seal for Clamp 2", EPDM (with FDA/FOOD approval)	10-92589059	●
seal for Clamp 2", FKM (with FDA/FOOD approval)	10-92589023	●
sealing ring Clamp 2", PTFE	10-92589008	●
sealing ring Clamp 2", NBR white (with FDA/FOOD approval)	10-92589025	●



Discharge spout

- in stainless steel 316 Ti, for non-food contact

	nominal Ø	part no.	
without holder	G 1 1/2" A female	10-95907043	●



suitable digital display FLUXTRONIC® suitable for VISCOPOWER pumps F 580 with motor flange and integrated pulser

	part no.	
with mounting flange, without cable	10-00142113	●



sensor cable for VISCOPOWER with pulser

	part no.	
5 m long, for connection of sensor and evaluation unit FLUXTRONIC®	11-00000192	●



Progressive cavity pumps VISCOPOWER

for VISCOFLUX mobile S

Progressive cavity pumps VISCOPOWER F 580 with motor flange

- **open mechanical seal**, FKM seal, torsion shaft, stator material NBR

immersion depth [mm]	rotor geometry	speed sensor	part no.
1.000	R52	no	12-58000034 ●
1.200	R52	yes	12-58000058 ●

- **open mechanical seal**, FKM seal, torsion shaft, stator material PTFE

immersion depth [mm]	rotor geometry	speed sensor	part no.
1.200	R52	no	12-58000073 ●

- **closed mechanical seal**, FKM seal, torsion shaft, stator material NBR, suitable for food contact according to Regulation (EC) 1935/2004 and FDA CFR 21



immersion depth [mm]	rotor geometry	speed sensor	part no.
1.000	R52	no	12-58000041 ●
1.200	R52	no	12-58000057 ●
1.200	R52	yes	12-58000060 ●

- **closed mechanical seal**, FKM seal, torsion shaft, stator material PTFE, suitable for food contact according to Regulation (EC) 1935/2004 and FDA CFR 21



immersion depth [mm]	rotor geometry	speed sensor	part no.
1.000	R52	no	12-58000061 ●
1.200	R52	no	12-58000024 ●
1.200	R52	yes	12-58000098 ●

VISCOFLUX

Drive motors for VISCOFLUX mobile S

- **three-phase motors 230 / 400 V, 50 Hz, jet-proof to IP 55, IE3, with cable terminal box**

kW	rpm	A	part no.
1,5	1.000	3,60	10-00103446 ●
2,2	1.000	8,70	10-00103471 ●
1,1	750	3,45	10-00101589 ●
1,5	750	7,50	10-00103474 ●



image similar

- **spur wheel back-gear motor**

400 V, 100 Hz, jet-proof to IP 54, IE3

(The setpoint adjuster for control cabinet mounting is not included)

kW	rpm	A	part no.
0,75	82-817	1,90	10-00102180 ●

- **compressed-air motor***, explosion-proof, with exhaust silencer

	part no.
FPM 4 Ex, 0,6 kW at 1.000 rpm	10-00104000 ●
FPM 6 Ex, 1,2 kW at 1.000 rpm	10-00104014 ●
FPM 8 Ex, 2,0 kW at 1.000 rpm	10-00104002 ●



FPM 4 Ex

Flow meter FMC

nutating disc type



Flow meter FMC

nutating disc type

Flow meter for applications in Zone 1, Ex-marking II 2 G Ex ia IIB T6 Gb



FLUX flow meters in impulse version without digital display FLUXTRONIC® do not need an Ex certification, because this is a component that has no own potential source of ignition.

FMC 100, material: polypropylene (PP)

for portable use with drum pumps

- with digital display FLUXTRONIC®, thread connection: inlet G 1¼" female, outlet G 1¼" male

	O-ring	part no.	
FMC 100/PP/0/F	EPDM	10-A0400005	●
FMC 100/PP/1/F	FKM	10-A0400007	●
FMC 100/PP/2/F	FEP	10-A0400009	●

- impulse version without digital display, for use with hand nozzle, with impulse cable, 5 m long, thread connection inlet G 1¼" female, outlet G 1¼" male

	O-ring	part no.	
FMC 100/PP/0/F	EPDM	10-A0400035	●
FMC 100/PP/1/F	FKM	10-A0400037	●
FMC 100/PP/2/F	FEP	10-A0400039	●

- hand nozzle polypropylene (PP) with digital display FLUXTRONIC®

nominal Ø	O-ring	part no.	
DN 19	FKM	10-00112531	●
DN 25	FKM	10-00112535	●
DN 25, Ø 28	FKM	10-00112565	●

for stationary use - fixed installation into pipeline

- with digital display FLUXTRONIC®, thread connection on both sides G 1½" male

	O-ring	part no.	
FMC 100/PP/0/A	EPDM	10-A0400012	●
FMC 100/PP/1/A	FKM	10-A0400014	●
FMC 100/PP/2/A	FEP	10-A0400016	●

- impulse version without digital display, for use with external digital display FLUXTRONIC®, with impulse cable, 5 m long, thread connection on both sides G 1½" male

	O-ring	part no.	
FMC 100/PP/0/A	EPDM	10-A0400041	●
FMC 100/PP/1/A	FKM	10-A0400043	●
FMC 100/PP/2/A	FEP	10-A0400045	●

external digital display FLUXTRONIC® see page 62

FMC 100, material: ethylene-tetrafluorethylene (ETFE)

for portable use with drum pumps

- with digital display FLUXTRONIC®, thread connection: inlet G 1¼" female, outlet G 1¼" male

	O-ring	part no.	
FMC 100/ETFE/0/F	EPDM	10-A0400006	●
FMC 100/ETFE/1/F	FKM	10-A0400008	●
FMC 100/ETFE/3/F	FFKM	10-A0400077	●

- impulse version without digital display, for use with hand nozzle, with impulse cable, 5 m long, thread connection inlet G 1¼" female, outlet G 1¼" male

	O-ring	part no.	
FMC 100/ETFE/0/F	EPDM	10-A0400036	●
FMC 100/ETFE/1/F	FKM	10-A0400038	●
FMC 100/ETFE/3/F	FFKM	10-A0400079	●

- hand nozzle polyvinylidene fluoride (PVDF) with digital display FLUXTRONIC®

connection	O-ring	part no.	
DN 19	FKM	10-00112532	●
DN 25	FKM	10-00112536	●
DN 25, Ø 28	FKM	10-00112566	●



for stationary use - fixed installation into pipeline

- with digital display FLUXTRONIC®, thread connection on both sides G 1½" male

	O-ring	part no.	
FMC 100/ETFE/0/A	EPDM	10-A0400013	●
FMC 100/ETFE/1/A	FKM	10-A0400015	●
FMC 100/ETFE/3/A	FFKM	10-A0400078	●

- impulse version without digital display, for use with external digital display FLUXTRONIC®, with impulse cable, 5 m long, thread connection on both sides G 1½" male

	O-ring	part no.	
FMC 100/ETFE/0/A	EPDM	10-A0400042	●
FMC 100/ETFE/1/A	FKM	10-A0400044	●
FMC 100/ETFE/3/A	FFKM	10-A0400080	●

external digital display FLUXTRONIC® see page 62



FMC 100, material: stainless steel (S)

for portable use with drum pumps

- with digital display FLUXTRONIC®, thread connection: inlet G 1½" male, outlet G 1¼" male

	O-ring	part no.	
FMC 100/S/0/F	EPDM	10-A0400029	●
FMC 100/S/1/F	FKM	10-A0400031	●
FMC 100/S/2/F	FEP	10-A0400033	●

- impulse version without digital display, for use with hand nozzle, with impulse cable, 5 m long, thread connection inlet G 1¼" male, outlet G 1¼" male

	O-ring	part no.	
FMC 100/S/0/F	EPDM	10-A0400053	●
FMC 100/S/1/F	FKM	10-A0400055	●
FMC 100/S/2/F	FEP	10-A0400057	●

- hand nozzle stainless steel (S) with digital display FLUXTRONIC®

nominal Ø	O-ring	part no.	
Ø 28	PTFE/FEP	10-00112550	●

- hand nozzle nickel-plated brass (MS) with digital display FLUXTRONIC®

nominal Ø	O-ring	part no.	
Ø 32	PTFE	10-00112364	●

- connecting piece in stainless steel

	nominal Ø	part no.	
for FLUX drum pumps	G 1¼" female - G 1½" female	10-95906059	●
for FLUX progressive cavity pumps	G 1½" female - G 1½" female	10-95906061	●



for stationary use - fixed installation into pipeline, with digital display FLUXTRONIC®

- G 1" female thread connection on both sides

	O-ring	part no.	
FMC 100/S/0/A	EPDM	10-A0400085	●
FMC 100/S/1/A	FKM	10-A0400086	●
FMC 100/S/2/A	FEP	10-A0400087	●

- thread connection on both sides G 1½" male

	O-ring	part no.	
FMC 100/S/0/A	EPDM	10-A0400071	●
FMC 100/S/1/A	FKM	10-A0400072	●
FMC 100/S/2/A	FEP	10-A0400073	●



Flow meter FMC/FMJ

nutating disc type

- flange connector on both sides outer Ø 115 mm, PC Ø 85 mm, 4 bores Ø 14 mm

	O-ring	part no.	
FMC 100/S/0/A	EPDM	10-A0400082	●
FMC 100/S/1/A	FKM	10-A0400083	●
FMC 100/S/2/A	FEP	10-A0400084	●

- thread connection on both sides Rd 65 x 1/6

	O-ring	part no.	
FMC 100/S/0/A	EPDM	10-A0400023	●
FMC 100/S/1/A	FKM	10-A0400025	●
FMC 100/S/2/A	FEP	10-A0400027	●

impulse version without digital display

for use with external digital display FLUXTRONIC®, with impulse cable, 5 m long

- thread connection on both sides G 1¼" male

	O-ring	part no.	
FMC 100/S/0/A	EPDM	10-A0400074	●
FMC 100/S/1/A	FKM	10-A0400075	●
FMC 100/S/2/A	FEP	10-A0400076	●

- thread connection on both sides Rd 65 x 1/6

	O-ring	part no.	
FMC 100/S/0/A	EPDM	10-A0400059	●
FMC 100/S/1/A	FKM	10-A0400061	●
FMC 100/S/2/A	FEP	10-A0400063	●

external digital display FLUXTRONIC®

	part no.	
with mounting flange, without cable	10-00142113	●



FMC 250, for stationary use – fixed installation into pipeline, with digital display FLUXTRONIC®

- polypropylene, thread connection on both sides, G 2¼" male

	O-ring	part no.	
FMC 250/PP/0/A	EPDM	10-A0425400	●
FMC 250/PP/1/A	FKM	10-A0425410	●

- polyvinylidene fluoride, thread connection on both sides G 2¼" male

	O-ring	part no.	
FMC 250/PVDF/0/A	EPDM	10-A0425600	●
FMC 250/PVDF/1/A	FKM	10-A0425610	●



FMJ 100, material polypropylene, with digital display FLUXTRONIC®, for flexible use with drum pumps and for manual use (no batch-control possible), not explosion-proof

- thread connection inlet G 2" male, outlet G 1¼" male (with connecting piece)

	O-ring	part no.	
FMJ 100/PP/1/F	FKM	10-A0400088	●



Accessories for FMC see page 70-71

Connectors (according to standards) for pipeline construction on request

Flow meter FMO

oval rotor type



Flow meter FMO

oval rotor type

FMO 101 and FMO 102

with impulse output, without digital display FLUXTRONIC®,
in PVDF, thread connection both sides G ¼ female, Reed/Hall Sensor

- for thin-flowing substances up to 1.000 cP

	housing	oval rotors	O-ring	part no.	
FMO 101/P/P/0	PVDF	PPS	EPDM	10-AB601400	●
FMO 101/P/P/1	PVDF	PPS	FKM	10-AB601410	●
FMO 101/P/P/2	PVDF	PPS	FFKM	10-AB601420	●
FMO 101/P/S/0	PVDF	S	EPDM	10-AB601100	●
FMO 101/P/S/1	PVDF	S	FKM	10-AB601110	●
FMO 101/P/S/2	PVDF	S	FFKM	10-AB601120	●
FMO 102/P/P/0	PVDF	PPS	EPDM	10-AB602400	●
FMO 102/P/P/1	PVDF	PPS	FKM	10-AB602410	●
FMO 102/P/P/2	PVDF	PPS	FFKM	10-AB602420	●
FMO 102/P/S/0	PVDF	S	EPDM	10-AB602100	●
FMO 102/P/S/1	PVDF	S	FKM	10-AB602110	●
FMO 102/P/S/2	PVDF	S	FFKM	10-AB602120	●



- connecting piece for FMO 101 and FMO 102 in PVDF

double nipple (only in conjunction with one of the following flat seals)

	material	connection	part no.	
	S	G ¼" male	10-95906259	●

	material	part no.	
flat seal	HD-PE	10-92524015	●
flat seal	FKM	10-92524016	●
flat seal	FFKM	10-92524017	●
flat seal	PTFE	10-92524018	●

FMO 101 and FMO 102 for applications in Zone 1

Ex-marking II 2G Ex h IIB T4 Gb

with impulse output, without digital display FLUXTRONIC®,
in stainless steel (S), thread connection G ¼, Reed/Hall sensor
(in hazardous areas only with Reed sensor)

- for thin-flowing substances up to 1.000 cP

	housing	oval rotors	O-ring	part no.	
FMO 101/S/S/0	S	S	EPDM	10-AB601300	●
FMO 101/S/S/1	S	S	FKM	10-AB601310	●
FMO 101/S/S/2	S	S	FFKM	10-AB601320	●
FMO 102/S/S/0	S	S	EPDM	10-AB602300	●
FMO 102/S/S/1	S	S	FKM	10-AB602310	●
FMO 102/S/S/2	S	S	FFKM	10-AB602320	●

- digital display FLUXTRONIC® for FMO 101 and FMO 102

Ex-marking Ex II 2G Ex ia IIB T6 Gb

	part no.	
with attachment flange and 5 m impulse cable with plug	10-00142111	●

- connecting piece for FMO 101 and FMO 102 in PVDF

double nipple (only in conjunction with one of the following flat seals)

	material	connection	part no.	
	S	G ¼" male	10-95906262	●



FMO 104 for applications in Zone 1

Ex-marking FMO II 2G Ex h IIB T4 Gb, Ex-marking FLUXTRONIC® II 2G Ex ia IIB T6 Gb, in aluminium (AL) or stainless steel (S), thread connection both sides G 1/2 female, Reed/Reed Sensor

for thin-flowing substances up to 1.000 cP

- with digital display FLUXTRONIC®, 5-pole socket

	housing	oval rotors	O-ring	part no.	
FMO 104/AL/P/0	AL	PPS	EPDM	10-A0604100	●
FMO 104/AL/P/1	AL	PPS	FKM	10-A0604110	●
FMO 104/AL/P/2	AL	PPS	FFKM	10-A0604120	●
FMO 104/S/P/0	S	PPS	EPDM	10-A0604200	●
FMO 104/S/P/1	S	PPS	FKM	10-A0604210	●
FMO 104/S/P/2	S	PPS	FFKM	10-A0604220	●
FMO 104/S/S/0	S	S	EPDM	10-A0604300	●
FMO 104/S/S/1	S	S	FKM	10-A0604310	●
FMO 104/S/S/2	S	S	FFKM	10-A0604320	●



FMO 104 with FLUXTRONIC®

- impulse version, without digital display FLUXTRONIC®

	housing	oval rotors	O-ring	part no.	
FMO 104/AL/P/0	AL	PPS	EPDM	10-AB604100	●
FMO 104/AL/P/1	AL	PPS	FKM	10-AB604110	●
FMO 104/AL/P/2	AL	PPS	FFKM	10-AB604120	●
FMO 104/S/P/0	S	PPS	EPDM	10-AB604200	●
FMO 104/S/P/1	S	PPS	FKM	10-AB604210	●
FMO 104/S/P/2	S	PPS	FFKM	10-AB604220	●
FMO 104/S/S/0	S	S	EPDM	10-AB604300	●
FMO 104/S/S/1	S	S	FKM	10-AB604310	●
FMO 104/S/S/2	S	S	FFKM	10-AB604320	●

for high viscosity substances from 1.000 cP

- with digital display FLUXTRONIC®, 5-pole socket

	housing	oval rotors	O-ring	part no.	
FMO 104/AL/PV/0	AL	PPS	EPDM	10-A0604105	●
FMO 104/AL/PV/1	AL	PPS	FKM	10-A0604115	●
FMO 104/AL/PV/2	AL	PPS	FFKM	10-A0604125	●
FMO 104/S/PV/0	S	PPS	EPDM	10-A0604205	●
FMO 104/S/PV/1	S	PPS	FKM	10-A0604215	●
FMO 104/S/PV/2	S	PPS	FFKM	10-A0604225	●
FMO 104/S/SV/0	S	S	EPDM	10-A0604305	●
FMO 104/S/SV/1	S	S	FKM	10-A0604315	●
FMO 104/S/SV/2	S	S	FFKM	10-A0604325	●

- in impulse version, without digital display FLUXTRONIC®

	housing	oval rotors	O-ring	part no.	
FMO 104/AL/PV/0	AL	PPS	EPDM	10-AB604105	●
FMO 104/AL/PV/1	AL	PPS	FKM	10-AB604115	●
FMO 104/AL/PV/2	AL	PPS	FFKM	10-AB604125	●
FMO 104/S/PV/0	S	PPS	EPDM	10-AB604205	●
FMO 104/S/PV/1	S	PPS	FKM	10-AB604215	●
FMO 104/S/PV/2	S	PPS	FFKM	10-AB604225	●
FMO 104/S/SV/0	S	S	EPDM	10-AB604305	●
FMO 104/S/SV/1	S	S	FKM	10-AB604315	●
FMO 104/S/SV/2	S	S	FFKM	10-AB604325	●



FMO 104 in impulse version

- connecting pieces for FMO 104

FLUX drum pump - FMO 104

for use with	material	connection	part no.	
FLUX drum pumps	S	G 1 1/2" male - G 1 1/4" female	10-95906227	●
FLUX progressive cavity pumps	S	G 1 1/2" male - G 1 1/2" female	10-95906225	●

FMO 104 - hose connection

for use with	material	connection	part no.	
hose connection drum pumps	S	G 1/2" male - G 1 1/4" male	10-95906232	●
hose connection progressive cavity pumps	S	G 1/2" male - G 1 1/2" male	10-95906233	●

double nipple

	material	connection	part no.	
	S	G 1/4" male	10-95906263	●

Flow meter FMO

oval rotor type

FMO 110

in PVDF, thread connection on both sides G 1" female, Reed/Reed sensor

for thin-flowing substances up to 1.000 cP

- with digital display FLUXTRONIC®, 5-pole socket

	housing	oval rotors	O-ring	part no.	
FMO 110/P/P/0	PVDF	PPS	EPDM	10-A0610400	●
FMO 110/P/P/1	PVDF	PPS	FKM	10-A0610410	●
FMO 110/P/P/2	PVDF	PPS	FFKM	10-A0610420	●

- impulse version, without digital display FLUXTRONIC®

	housing	oval rotors	O-ring	part no.	
FMO 110/P/P/0	PVDF	PPS	EPDM	10-AB610400	●
FMO 110/P/P/1	PVDF	PPS	FKM	10-AB610410	●
FMO 110/P/P/2	PVDF	PPS	FFKM	10-AB610420	●

- connecting pieces for FMO 110 in PVDF

FLUX-pump - FMO 110

for use with	material	connection	part no.	
drum pump	PVDF	G 1 male - G 1¼ female	10-95906145	●
hose connection drum pump	PVDF	G 1 male - G ¼ male	10-95906236	●

double nipple (only in conjunction with one of the following flat seals)

	material	connection	part no.	
	PVDF	G 1 male	10-95906261	●

	material	part no.	
flat seal	HD-PE	10-92564028	●
flat seal	FKM	10-92564029	●
flat seal	FFKM	10-92564030	●
flat seal	PTFE	10-92564031	●

FMO 110 for applications in Zone 1

Ex-marking FMO II 2G Ex h IIB T4 Gb, Ex-marking FLUXTRONIC® II 2G Ex ia IIB T6 Gb, in aluminium (AL) or stainless steel (S), thread connection both sides G 1 female, Reed/Reed Sensor

for thin-flowing substances up to 1.000 cP

- with digital display FLUXTRONIC®, 5-pole socket

	housing	oval rotors	O-ring	part no.	
FMO 110/AL/P/0	AL	PPS	EPDM	10-A0610100	●
FMO 110/AL/P/1	AL	PPS	FKM	10-A0610110	●
FMO 110/AL/P/2	AL	PPS	FFKM	10-A0610120	●
FMO 110/S/P/0	S	PPS	EPDM	10-A0610200	●
FMO 110/S/P/1	S	PPS	FKM	10-A0610210	●
FMO 110/S/P/2	S	PPS	FFKM	10-A0610220	●
FMO 110/S/S/0	S	S	EPDM	10-A0610300	●
FMO 110/S/S/1	S	S	FKM	10-A0610310	●
FMO 110/S/S/2	S	S	FFKM	10-A0610320	●

- impulse version, without digital display FLUXTRONIC®

	housing	oval rotors	O-ring	part no.	
FMO 110/AL/P/0	AL	PPS	EPDM	10-AB610100	●
FMO 110/AL/P/1	AL	PPS	FKM	10-AB610110	●
FMO 110/AL/P/2	AL	PPS	FFKM	10-AB610120	●
FMO 110/S/P/0	S	PPS	EPDM	10-AB610200	●
FMO 110/S/P/1	S	PPS	FKM	10-AB610210	●
FMO 110/S/P/2	S	PPS	FFKM	10-AB610220	●
FMO 110/S/S/0	S	S	EPDM	10-AB610300	●
FMO 110/S/S/1	S	S	FKM	10-AB610310	●
FMO 110/S/S/2	S	S	FFKM	10-AB610320	●



FMO 110 in impulse version



FMO 110 with FLUXTRONIC®



FMO 110 in impulse version

for high viscosity substances from 1.000 cP

- with digital display FLUXTRONIC®, 5-pole socket

	housing	oval rotors	O-ring	part no.	
FMO 110/AL/PV/0	AL	PPS	EPDM	10-A06 10105	●
FMO 110/AL/PV/1	AL	PPS	FKM	10-A06 10115	●
FMO 110/AL/PV/2	AL	PPS	FFKM	10-A06 10125	●
FMO 110/S/PV/0	S	PPS	EPDM	10-A06 10205	●
FMO 110/S/PV/1	S	PPS	FKM	10-A06 10215	●
FMO 110/S/PV/2	S	PPS	FFKM	10-A06 10225	●
FMO 110/S/SV/0	S	S	EPDM	10-A06 10305	●
FMO 110/S/SV/1	S	S	FKM	10-A06 10315	●
FMO 110/S/SV/2	S	S	FFKM	10-A06 10325	●

- pulse version, without digital display FLUXTRONIC®

	housing	oval rotors	O-ring	part no.	
FMO 110/AL/PV/0	AL	PPS	EPDM	10-AB6 10105	●
FMO 110/AL/PV/1	AL	PPS	FKM	10-AB6 10115	●
FMO 110/AL/PV/2	AL	PPS	FFKM	10-AB6 10125	●
FMO 110/S/PV/0	S	PPS	EPDM	10-AB6 10205	●
FMO 110/S/PV/1	S	PPS	FKM	10-AB6 10215	●
FMO 110/S/PV/2	S	PPS	FFKM	10-AB6 10225	●
FMO 110/S/SV/0	S	S	EPDM	10-AB6 10305	●
FMO 110/S/SV/1	S	S	FKM	10-AB6 10315	●
FMO 110/S/SV/2	S	S	FFKM	10-AB6 10325	●

- connecting pieces** for FMO 110 in stainless steel

FLUX drum pumps - FMO 110

for use with	material	connection	part no.	
drum pumps	S	G 1 male - G 1¼ female	10-95906 144	●
progressive cavity pump	S	G 1 male - G 1½ female	10-95906 122	●

FMO 110 - hose connection

for use with	material	connection	part no.	
hose connection drum pump	S	G 1 male - G 1¼ male	10-95906 234	●
hose connection progressive cavity pump	S	G 1 male - G 1½ male	10-95906 235	●

double nipple

	material	connection	part no.	
	S	G 1 male	10-95906 264	●

Flow meter FMO

oval rotor type

FMO 110 for applications in Zone 1

Ex-marking FMO II 2G Ex h IIB T4 Gb, Ex-marking FLUXTRONIC® II 2G Ex ia IIB T6 Gb,

with flange connection, Reed/Reed sensor

for thin-flowing substances up to 1.000 cP

- with digital display FLUXTRONIC®, 5-pole socket

with flange connection PN 16 DN 25 on both sides	housing	oval rotors	O-ring	part no.	
FMO 110/S/S/1	S	S	FKM	10-A06 10111	●
FMO 110/S/S/2	S	S	FFKM	10-A06 10121	●



Image similar

with clamp connection, Reed/Reed sensor

for thin-flowing substances up to 1.000 cP, suitable for food contact according to regulation (EC) 1935/2004 and FDA CFR 21, in stainless steel (S)

- with digital display FLUXTRONIC®, 5-pole socket

clamp 1 1/2" connection on both sides	housing	oval rotors	O-ring	part no.	
FMO 110/S/S/0	S	S	EPDM	10-A06 10302	●
FMO 110/S/S/1	S	S	FKM	10-A06 10312	●
clamp 2" connection on both sides	housing	oval rotors	O-ring	part no.	
FMO 110/S/S/0	S	S	EPDM	10-A06 10303	●
FMO 110/S/S/1	S	S	FKM	10-A06 10313	●



for high viscosity substances from 1.000 cP

- with digital display FLUXTRONIC®, 5-pole socket

clamp 2" connection on both sides	housing	oval rotors	O-ring	part no.	
FMO 110/S/SV/0	S	S	EPDM	10-A06 10307	●
FMO 110/S/SV/1	S	S	FKM	10-A06 10317	●

accessories for FMO 110 with clamp connection

seal pump/ flow meter	material	part no.	
for clamp 1 1/2"	EPDM (with FDA/FOOD approval)	10-92569017	●
for clamp 1 1/2"	FKM (with FDA/FOOD approval)	10-92569014	●
for clamp 2"	EPDM (with FDA/FOOD approval)	10-92589059	●
for clamp 2"	FKM (with FDA/FOOD approval)	10-92589023	●
joint clamp	material	part no.	
for clamp 1 1/2"	stainless steel	10-43021019	●
for clamp 2"	stainless steel	10-55024376	●



FMO 140

Ex-marking FMO II 2G Ex h IIB T4 Gb, Ex-marking FLUXTRONIC® II 2G Ex ia IIB T6 Gb, in aluminium (AL) or stainless steel (S), nominal pressure PN 16, nominal flange connection DN 40, EN 1092-1, Reed/Reed sensor

for thin-flowing substances up to 1.000 cP

- with digital display FLUXTRONIC®, 5-pole socket

	housing	oval rotors	O-ring	part no.	
FMO 140/AL/P/0	AL	PPS	EPDM	10-A0640101	●
FMO 140/AL/P/1	AL	PPS	FKM	10-A0640111	●
FMO 140/AL/P/2	AL	PPS	FFKM	10-A0640121	●
FMO 140/S/P/0	S	PPS	EPDM	10-A0640201	●
FMO 140/S/P/1	S	PPS	FKM	10-A0640211	●
FMO 140/S/P/2	S	PPS	FFKM	10-A0640221	●
FMO 140/S/S/0	S	S	EPDM	10-A0640301	●
FMO 140/S/S/1	S	S	FKM	10-A0640311	●
FMO 140/S/S/2	S	S	FFKM	10-A0640321	●

for high viscosity substances from 1.000 cP

- with digital display FLUXTRONIC®, 5-pole socket

	housing	oval rotors	O-ring	part no.	
FMO 140/AL/PV/0	AL	PPS	EPDM	10-A0640106	●
FMO 140/AL/PV/1	AL	PPS	FKM	10-A0640116	●
FMO 140/AL/PV/2	AL	PPS	FFKM	10-A0640126	●
FMO 140/S/PV/0	S	PPS	EPDM	10-A0640206	●
FMO 140/S/PV/1	S	PPS	FKM	10-A0640216	●
FMO 140/S/PV/2	S	PPS	FFKM	10-A0640226	●
FMO 140/S/SV/0	S	S	EPDM	10-A0640306	●
FMO 140/S/SV/1	S	S	FKM	10-A0640316	●
FMO 140/S/SV/2	S	S	FFKM	10-A0640326	●



FMO 150

Ex-marking FMO II 2G Ex h IIB T4 Gb, Ex-marking FLUXTRONIC® II 2G Ex ia IIB T6 Gb, in aluminium (AL) or stainless steel (S), nominal pressure PN 16, nominal flange connection DN 50, EN 1092-1, Reed/Reed sensor

for thin-flowing substances up to 1.000 cP

- with digital display FLUXTRONIC®, 5-pole socket

	housing	oval rotors	O-ring	part no.	
FMO 150/AL/P/0	AL	PPS	EPDM	10-A0650101	●
FMO 150/AL/P/1	AL	PPS	FKM	10-A0650111	●
FMO 150/AL/P/2	AL	PPS	FFKM	10-A0650121	●
FMO 150/S/P/0	S	PPS	EPDM	10-A0650201	●
FMO 150/S/P/1	S	PPS	FKM	10-A0650211	●
FMO 150/S/P/2	S	PPS	FFKM	10-A0650221	●
FMO 150/S/S/0	S	S	EPDM	10-A0650301	●
FMO 150/S/S/1	S	S	FKM	10-A0650311	●
FMO 150/S/S/2	S	S	FFKM	10-A0650321	●

for high viscosity substances from 1.000 cP

- with digital display FLUXTRONIC®, 5-pole socket

	housing	oval rotors	O-ring	part no.	
FMO 150/AL/PV/0	AL	PPS	EPDM	10-A0650106	●
FMO 150/AL/PV/1	AL	PPS	FKM	10-A0650116	●
FMO 150/AL/PV/2	AL	PPS	FFKM	10-A0650126	●
FMO 150/S/PV/0	S	PPS	EPDM	10-A0650206	●
FMO 150/S/PV/1	S	PPS	FKM	10-A0650216	●
FMO 150/S/PV/2	S	PPS	FFKM	10-A0650226	●
FMO 150/S/SV/0	S	S	EPDM	10-A0650306	●
FMO 150/S/SV/1	S	S	FKM	10-A0650316	●
FMO 150/S/SV/2	S	S	FFKM	10-A0650326	●



Accessories for flow meter

- **impulse cable** for FMO 104 / FMO 110 version without digital display
2-core, both sides with wire sleeves, insulated to transmit control signal from FMO reed-relais to the external digital display FLUXTRONIC®

	part no.	
5 m long	10-93408032	●
10 m long	10-93408033	●
15 m long	10-93408034	●

- **connecting cable, shielded** for FMC / FMO to extend the impulse cable

	part no.	
5 m long with plug and coupling	10-93408039	●

- **external digital display FLUXTRONIC®**

	part no.	
with wall mounting flange, without cable	10-00142113	●

- **clear protection cover for FLUXTRONIC® display**

for	part no.	
FMJ	10-00142101	●
FMC/FMO	10-00142121	●

- **earth wire** for FMC PP and FMC ETFE to produce a conductive connection of hose connection and motor

	part no.	
1 m long	10-93190009	●

- **switching amplifier FSV 100**

		part no.	
can be integrated into flow meter, 2 signals, with power supply cable, 5 m long	230 V, 50 - 60 Hz, IP 44, 4A	10-00149040	●
connecting cable for magnetic valve	5 m long	10-93408036	●
connecting cable for motor	0,5 m long	10-93408035	●

- **power supply cable** for FSV 100

	part no.	
5 m long, without plug	10-93408047	●

- **connecting cable** to motor for FSV 100

	part no.	
0,5 m long, without coupling	10-93408057	●

- **connecting cable** to FLUXTRONIC® FSV 100

	part no.	
5 m long, 5 core, sleeve for strands on both ends	10-93408030	●
10 m long, 5 core, sleeve for strands on both ends	10-93408031	●

- **assembly output assignment FMC/FMO**

	part no.	
	10-00000251	●

- **Platine with Hall-sensor for wear-free measurement, for FMO 104 - 150,**
not suitable for use in hazardous areas

	part no.	
	10-A0604919	●



Switching amplifier with Ex input for use out of the hazardous areas

- switching amplifier FSV 132

		part no.	
for installation in switch box	2 signals, 230 V, 50 – 60 Hz, IP 20, AC - 4A, DC - 2A Ex-marking: II (1) G [Ex ia Ga] IIC	10-94004020	●
5-core control cable for the connection of flow meter or FAE	5 m long	10-93408038	●
	10 m long	10-93408040	●
	15 m long	10-93408041	●



- switching amplifier FSV 133 Ex (only for transferring impulse)

		part no.	
for installation in switch box	1 signal, Ex i entry acc. to EN 60947-5-6, electronic exit 30 V DC/50 mA Ex-marking: II 3 (1) G Ex nAc nCc [ia] IIC T4	10-94004043	●
5-core control cable for the connection of flow meter or FAE	5 m long	10-93408038	●
	10 m long	10-93408040	●
	15 m long	10-93408041	●



Switching amplifier in Ex-version, Zone 1

- switching amplifier FSV 121 Ex

		part no.	
for wall mounting with miniCLIX plug connections for network connection cable, with control cable 5 m long	1 signal, 230 V, 50 Hz, 4 A, IP 66 Ex-marking: II 2 G db eb [ia Ga] IIC T6 Gb	10-00149051	●
power supply cable	5 m long, with plug-in	10-93408062	●
connection cable to motor	5 m long	10-93408049	●



- switching amplifier FSV 121-1/2 Ex

		part no.	
for wall mounting, without plug-ins and control cable	121-1: 1 signal 230 V, 50 Hz, 4A, IP 66, Ex-marking: II 2(1) G Ex db eb [ia Ga] IIC T6 Gb	10-00149039	●
	121-2, 2 signals 230 V, 50 Hz, 4A, IP 66, Ex-marking: II 2(1) G Ex db eb [ia Ga] IIC T6 Gb	10-00149063	●
control cable for the connection of flow meter or FAE	5 m long	10-93408038	●
	10 m long	10-93408040	●
	15 m long	10-93408041	●



Flow meter

Mixers
for assembly on IBC



Mixer sets

for assembly on IBC

for viscosity up to 1.500 cP

circulation capacity approx. 2,6 m³/min. related to water

- **IBC mixer set EHM 0.55/6-Mo**
three-phase motor BG 80 0,55 kW, protection class IP 55
with 3 x 400 V, 50 Hz, motor protection switch and 5 m cable with plug
mixer shaft EHM BG80 PE in steel/PE coating
mixing blade DRK 175 in PP-GFV, diameter 175 mm / 3 blades
IBC cover with flange DN 150, rotary shaft seal PTFE

immersion length	part no.
800 mm	10-P0000001 ●

for viscosity up to 2.000 cP

circulation capacity approx. 2,6 m³/min. related to water

- **IBC mixer set EHM 0.75/6-RT**
three-phase motor BG90 0,75 kW, efficiency class 3, protection class IP 55
with 3 x 400 V, 50 Hz, motor protection switch and 5 m cable with plug
mixer shaft EHM BG80 PE in steel/PE coating
mixing blade DRK 175 in PP-GFVI, diameter 175 mm / 3 blades
IBC cover DN 150 with protection tube, rotary shaft seal BG90 in PTFE
IBC traverse RT 1000

immersion length	part no.
850 mm	10-P0000003 ●

for viscosity up to 2.500 cP

circulation capacity approx. 3,8 m³/min. related to water

- **IBC mixer set EHM 1,1/6-RT**
three-phase motor BG 90 1,1 kW, efficiency class 3, protection class IP 55
with 3 x 400 V, 50 Hz, motor protection switch and 5 m cable with plug
mixer shaft EHM BG90 PE in steel/PE coating
mixing blade DRK 200 in PP-GFVI, diameter 200 mm / 3 blades
IBC cover DN 150 with protection tube, rotary shaft seal BG90 in PTFE
IBC traverse RT 1000

immersion length	part no.
850 mm	10-P0000004 ●

for viscosity up to 6.000 cP

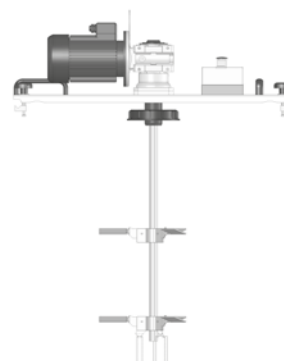
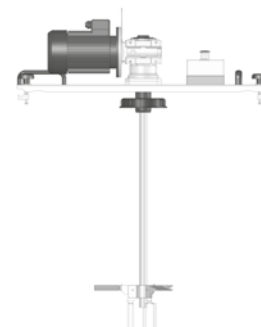
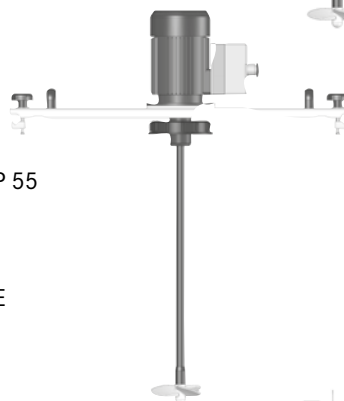
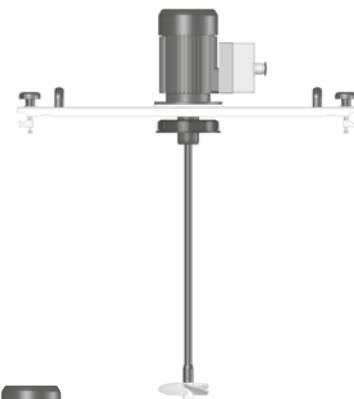
- **IBC mixer set ESM 0.75/133-RT**
three-phase motor BG90 0,75 kW, efficiency class 3, protection class IP 55
with 3 x 400 V, 50 Hz, motor protection switch and 5 m cable with plug
mixer shaft ESG63 in stainless steel
folding mixing blade KLR3 in stainless steel, diameter 400 mm / 3 blades
IBC cover with flange DN 150, rotary shaft seal ESG63 in PTFE
IBC traverse RT 1000

immersion length	part no.
900 mm	10-P0000005 ●

for viscosity up to 12.000 cP

- **IBC mixer set ESM 1,5/70-RT**
three-phase motor BG90 1,5 kW, efficiency class 3, protection class IP 55
with 230 V / 380 - 400 V / 460 - 480 V, 50/60 Hz, motor protection switch
and 5 m cable with plug
mixer shaft ESG63 in stainless steel
2 folding mixing blades KLR3 in stainless steel, diameter 400 mm / 3 blades
IBC cover with flange DN 150, rotary shaft seal ESG63 in PTFE
IBC traverse RT 1000

immersion length	part no.
850 mm	10-P0000002 ●



Centrifugal immersion pumps (600 and 700 series)



Centrifugal immersion pumps

with mechanical seal

Centrifugal immersion pumps F 620 in stainless steel, with mechanical seal, seal material FKM, with open conical rotor in polypropylene, discharge connection G 1½" male

- **F 620 S-15**

nominal length	conical rotor Ø	part no.	
700 mm	15 mm	10-62023001	●
1.000 mm	15 mm	10-62023002	●
1.500 mm	15 mm	10-62023003	●
additional cost for stainless steel conical rotor		10-62024030	●

- **F 620 S-30**

nominal length	conical rotor Ø	part no.	
700 mm	30 mm	10-62123001	●
1.000 mm	30 mm	10-62123002	●
1.500 mm	30 mm	10-62123003	●
additional cost for stainless steel conical rotor		10-62124005	●

Other lengths up to 3.000 mm available on request

- **mounting flange** in stainless steel

mounting dimensions (bottom mounting flange to bottom pump) is reduced at least by 100 mm compared to the specified nominal

	part no.	
outer Ø 265 mm, PCD Ø 225 mm, 8 holes Ø 18 mm	10-94714005	●

- **suction strainer**, in stainless steel for:

	part no.	
F 620 S-15, F 620 S-30	10-00110232	●



F 620 S-30
with suction strainer

Centrifugal immersion pumps F 620 in stainless steel with mechanical seal, seal material FKM, closed impeller Ø 157 mm in stainless steel, discharge connection G 1½" male

- **F 620 S-157/3**

nominal length	impeller height	part no.	
1.200 mm	3 mm	10-62020012	●

- **F 620 S-157/5**

nominal length	impeller height	part no.	
1.200 mm	5 mm	10-62020112	●

Other lengths up to 3.000 mm and versions for AdBlue® * available on request



Centrifugal immersion pump F 640 in polypropylene, with mechanical seal, seal material FKM, with open conical rotor or closed impeller in polypropylene, discharge connection G 2¼" male

- **F 640 PP-15 (with conical rotor)**

nominal length	part no.	
700 mm	10-64041407	●
1.000 mm	10-64041410	●
1.500 mm	10-64041415	●

- **F 640 PP-30 (with conical rotor)**

nominal length	part no.	
700 mm	10-64041607	●
1.000 mm	10-64041610	●
1.500 mm	10-64041615	●

- **F 640 PP-15 Z (with impeller for increased pumping head)**

nominal length	part no.	
700 mm	10-64041507	●
1.000 mm	10-64041510	●
1.500 mm	10-64041515	●

- **F 640 PP-30 Z (with impeller for increased pumping head)**

nominal length	part no.	
700 mm	10-64041707	●
1.000 mm	10-64041710	●
1.500 mm	10-64041715	●



F 640 PP-30
with suction strainer

Other lengths up to 4.000 mm available on request

* AdBlue® is a registered trademark of: Verband der Automobilindustrie e. V. (VDA)

- **mounting flange** in polypropylene
mounting dimensions (bottom mounting flange to bottom pump) is reduced at least by 100 mm compared to the specified nominal

	part no.	
outer Ø 265 mm, LK Ø 225 mm, 8 holes Ø 18 mm	10-94714001	●

- **suction strainer** in polypropylene for:

	part no.	
F 640 PP-15, F 640 PP-30, F 640 PP-15Z, F 640 PP-30Z A	10-00110235	●

Drive motors see page 78

Centrifugal immersion pump F 640 with mechanical seal, seal material FKM, discharge connection G 2 1/4" male, without mounting flange

- **F 640 PP-185** in polypropylene, with closed polypropylene impeller*

nominal length	housing Ø	part no.	
700 mm	185 mm	10-64041207	●
1.000 mm	185 mm	10-64041210	●
1.500 mm	185 mm	10-64041215	●

- **F 640 PVDF-185** in polyvinylidene fluoride, with closed polyvinylidene fluoride impeller*

nominal length	housing Ø	part no.	
700 mm	185 mm	10-64061207	●
1.000 mm	185 mm	10-64061210	●
1.500 mm	185 mm	10-64061215	●

- **F 640 PP-230** in polypropylene with closed polypropylene impeller*

nominal length	housing Ø	part no.	
700 mm	230 mm	10-64041307	●
1.000 mm	230 mm	10-64041310	●
1.500 mm	230 mm	10-64041315	●

- **F 640 PVDF-230** in polyvinylidene fluoride with closed polyvinylidene fluoride impeller*

nominal length	housing Ø	part no.	
700 mm	230 mm	10-64061307	●
1.000 mm	230 mm	10-64061310	●
1.500 mm	230 mm	10-64061315	●

* in order to achieve the desired output, centrifugal impellers in diameters of 100 to 140 mm (for housing Ø 185) and 130 to 160 mm (for housing Ø 230) are available

other lengths up to 4.100 mm and versions for AdBlue® ** available on request

Accessories for centrifugal immersion pumps F 640

- **mounting flange polypropylene**

mounting dimensions (bottom mounting flange to bottom pump) is reduced at least by 100 mm compared to the specified nominal

	part no.	
outer Ø 340 mm, PCD Ø 295 mm, 4 holes Ø 22 mm	10-94714049	●
outer Ø 445 mm, PCD Ø 400 mm, 6 holes Ø 22 mm	10-94714084	●

- **mounting flange polyvinylidene fluoride**

mounting dimensions (bottom mounting flange to bottom pump) is reduced at least by 100 mm compared to the specified nominal

	part no.	
outer Ø 340 mm, PCD Ø 295 mm, 4 holes Ø 22 mm	10-94714070	●
outer Ø 445 mm, PCD Ø 400 mm, 6 holes Ø 22 mm	10-94714085	●

- **suction strainer** welded to the lid of the pump housing:

pump	material	part no.	
F 640 PP-185	polypropylene	10-00110311	●
F 640 PVDF-185	polyvinylidene fluoride	10-00110312	●
F 640 PP-230	polypropylene	10-00110301	●



F 640 PP-185
with mounting flange

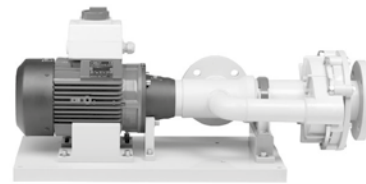
Centrifugal immersion pumps

and drive motors

Centrifugal immersion pumps for dry installation, for horizontal or vertical use

with mechanical seal, with open conical rotor or closed centrifugal impeller, without base plate, inlet with thread connection or DN 65 flange, nominal pressure PN 10, outlet with thread connection or DN 50 flange, nominal pressure PN 10

	inlet	outlet	part no.		
F 640 PP-30 TR	G 2" male	G 2¼ male	10-64041601	●	
F 640 PP-30 TR	flange	flange	10-64041600	●	
F 620 S-30 TR	G 2" male	G 1½ male	10-62025502	●	
	housing Ø	inlet	outlet	part no.	
F 640 PP-230 TR	230 mm*	flange	flange	10-64041300	●



F 640 PP-230 TR
with base plate

*in order to achieve the desired output, centrifugal impellers in diameters of 100 to 160 mm are available

	part no.	
base plate (polypropylene)	10-00115023	●

Drive motors see below

Hose connections for centrifugal immersion pumps F 620 and F 640

- **stainless steel**, with union nut G 1½" female

	part no.	
DN 25	10-95904002	●
DN 32	10-95904003	●
DN 38	10-95904004	●



- **polypropylene**, with union nut G 2¼" female

	part no.	
DN 32	10-95904098	●
DN 38	10-95904099	●
DN 50	10-95904100	●



- **polyvinylidene fluoride**, with union nut G 2¼" female

	part no.	
DN 38	10-95904105	●
DN 50	10-95904096	●



Hoses see drum pump accessories on page 31

Drive motors for centrifugal immersion pumps F 620 and F 640

- **Three-phase motor**, 50 Hz, jet-proof to IP 55, with motor protection switch, IE3, 3.000 rpm

	part no.	
0,75 kW, 230 / 400 V	10-00103429	●
1,5 kW, 230 / 400 V	10-00103433	●
2,2 kW, 230 / 400 V	10-00103435	●
3,0 kW, 400 V	10-00103437	●
4,0 kW, 400 V	10-00103439	●



- **Three-phase motor**, 50 Hz, jet-proof to IP 55, with cable terminal box, IE3, 3.000 rpm

	part no.	
0,75 kW, 230 / 400 V	10-00103428	●
1,5 kW, 230 / 400 V	10-00103432	●
2,2 kW, 230 / 400 V	10-00103434	●
3,0 kW, 400 / 690 V	10-00103436	●
4,0 kW, 400 / 690 V	10-00103438	●
5,5 kW, 400 / 690 V (for 700 series only)	10-00103440	●



F 600
F 700

Accessories for three-phase motors

- **carrying handle** for motor flange Ø 160, mounting with 2 lugs for 3-phase motors up to size 90 and max. 20 kg

	part no.	
standard version	10-00110531	●
with mounting for Ex motor protection switch	10-00110588	●

- **power supply cable**

	part no.	
pre-assembled with sleeve and Cekon plug, 5 m long	10-93408020	●
pre-assembled with sleeve without plug, 5 m long	10-93408025	●
per meter	10-93408901	●
electrical mounting three-phase motor	10-Z0500DKS	●

- **cekon-plug**

	part no.	
5-poles	10-93701014	●

- **motor protection switch**, protection category IP 65, with 2 cable inlet ports, for mounting onto the motor

adjustment range	part no.	
1,30 – 2,00 A	10-93606168	●
1,80 – 3,00 A	10-93606169	●
2,80 – 4,60 A	10-93606170	●
4,20 – 6,70 A	10-93606171	●
6,50 – 10,00 A	10-93606172	●
10,00 – 16,00 A	10-93606173	●



Centrifugal immersion pumps

sealless

Sealless centrifugal immersion pumps F 706 / F 716 / F 726 for continuous use

available in following materials:

polypropylene (PP): F 706 / F 716 / F 726

polyvinylidene fluoride (PVDF): F 716 / F 726

Special features and benefits type F 716 and F 726:

- each pump is determined to the required duty point
- for continuous use
- immersion lengths up to 1.000 mm. The immersion length of the pump can be extended up to 1.500 mm maximum by the suction tube option.
- F 716 / F 726 safe to run dry. With free-flying shaft for very low wear. There is no need for an additional bearing carrier.

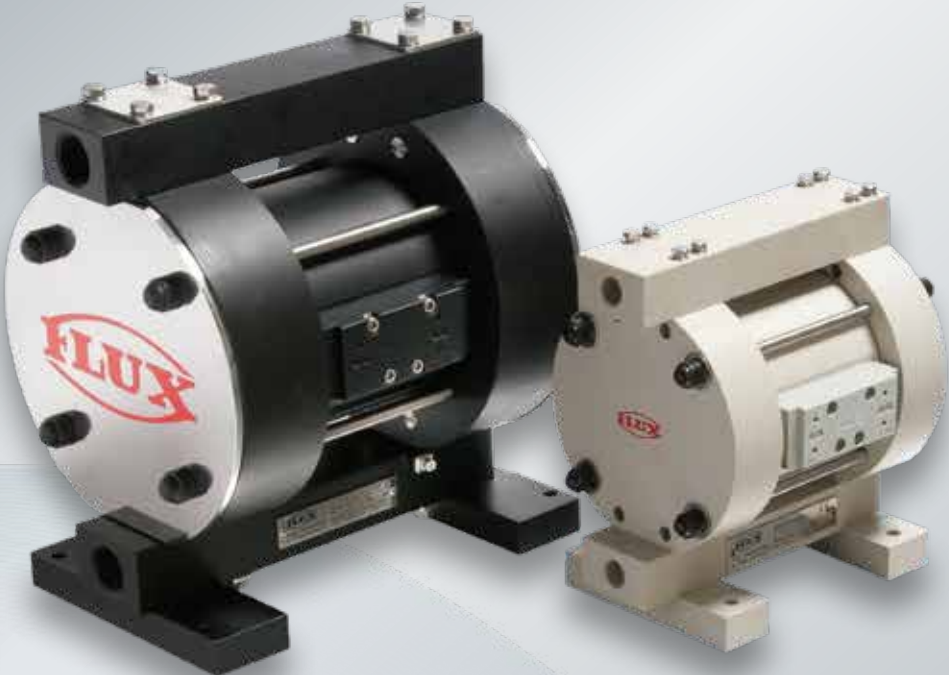
Drive motors:

As drive motors three-phase motors are available from 0,37 to 5,5 kW, jet-proof to IP 55



Air-operated diaphragm pumps

(RFM and FDM series)



Air-operated diaphragm pumps

RFM in solid construction

RFM 10 in polypropylene (PP) or polytetrafluoroethylene (PTFE), connection pump G 3/8" female

	diaphragm/seal	part no.	
RFM 10 PP/NN	NBR	10-D1040010	●
RFM 10 PP/TK	PTFE/FFKM	10-D1040120	●
RFM 10 PP/TE	PTFE/EPDM	10-D1040130	●
RFM 10 PP/TV	PTFE/FKM	10-D1040140	●
RFM 10 PP/EE	EPDM	10-D1040210	●
RFM 10 PP/VV	FKM	10-D1040310	●
RFM 10 PTFE/TK	PTFE/FFKM	10-D1000120	●
RFM 10 PTFE/TE	PTFE/EPDM	10-D1000130	●
RFM 10 PTFE/TV	PTFE/FKM	10-D1000140	●
RFM 10 PTFE/EE	EPDM	10-D1000210	●
RFM 10 PTFE/VV	FKM	10-D1000310	●



RFM 10 in polytetrafluoroethylene (PTFE), FDA CFR 21 conform, connection pump G 3/8" female

	diaphragm/seal	part no.	
RFM 10 PTFE/TK (FDA)	PTFE/FFKM	10-D1000121	●
RFM 10 PTFE/TE (FDA)	PTFE/EPDM	10-D1000131	●



RFML 10 electrically conductive PP or PTFE, for applications in Zone 1, Ex-marking II 1/2 G Ex h IIB T6.. T4 Ga/Gb, connection pump G 3/8" female

	diaphragm/seal	part no.	
RFML 10 PP/NN	NBR	10-D1041010	●
RFML 10 PP/TK	PTFE/FFKM	10-D1041120	●
RFML 10 PP/TE	PTFE/EPDM	10-D1041130	●
RFML 10 PP/TV	PTFE/FKM	10-D1041140	●
RFML 10 PP/EE	EPDM	10-D1041210	●
RFML 10 PP/VV	FKM	10-D1041310	●
RFML 10 PTFE/TK	PTFE/FFKM	10-D1001120	●
RFML 10 PTFE/TE	PTFE/EPDM	10-D1001130	●
RFML 10 PTFE/TV	PTFE/FKM	10-D1001140	●
RFML 10 PTFE/EE	EPDM	10-D1001210	●
RFML 10 PTFE/VV	FKM	10-D1001310	●



RFML 10 electrically conductive PTFE, FDA CFR 21 conform

	diaphragm/seal	part no.	
RFML 10 PTFE/TK-FDA	PTFE/FFKM	10-D1001121	●
RFML 10 PTFE/TE-FDA	PTFE/EPDM	10-D1001131	●



RFM 15 in polypropylene (PP) or polytetrafluoroethylene (PTFE), connection pump G 1/2" female

	diaphragm/seal	part no.	
RFM 15 PP/NN	NBR	10-D1540010	●
RFM 15 PP/TK	PTFE/FFKM	10-D1540120	●
RFM 15 PP/TE	PTFE/EPDM	10-D1540130	●
RFM 15 PP/TV	PTFE/FKM	10-D1540140	●
RFM 15 PP/EE	EPDM	10-D1540210	●
RFM 15 PP/VV	FKM	10-D1540310	●
RFM 15 PTFE/TK	PTFE/FFKM	10-D1500120	●
RFM 15 PTFE/TE	PTFE/EPDM	10-D1500130	●
RFM 15 PTFE/TV	PTFE/FKM	10-D1500140	●
RFM 15 PTFE/EE	EPDM	10-D1500210	●
RFM 15 PTFE/VV	FKM	10-D1500310	●



RFM 15 in polytetrafluoroethylene (PTFE), FDA CFR 21 conform, connection pump G 1/2" female

	diaphragm/seal	part no.	
RFM 15 PTFE/TK (FDA)	PTFE/FFKM	10-D1500121	●
RFM 15 PTFE/TE (FDA)	PTFE/EPDM	10-D1500131	●



**RFML 15 electrically conductive PP or PTFE, for applications in Zone 1,
Ex-marking II 1/2 G Ex h IIB T6..T4 Ga/Gb, connection pump G 1/2" female**

	diaphragm/seal	part no.	
RFML 15 PP/NN	NBR	10-D1541010	●
RFML 15 PP/TK	PTFE/FFKM	10-D1541120	●
RFML 15 PP/TE	PTFE/EPDM	10-D1541130	●
RFML 15 PP/TV	PTFE/FKM	10-D1541140	●
RFML 15 PP/EE	EPDM	10-D1541210	●
RFML 15 PP/VV	FKM	10-D1541310	●
RFML 15 PTFE/TK	PTFE/FFKM	10-D1501120	●
RFML 15 PTFE/TE	PTFE/EPDM	10-D1501130	●
RFML 15 PTFE/TV	PTFE/FKM	10-D1501140	●
RFML 15 PTFE/EE	EPDM	10-D1501210	●
RFML 15 PTFE/VV	FKM	10-D1501310	●



RFM 25 in polypropylene (PP) or polytetrafluoroethylene (PTFE), connection pump G 1" female

	diaphragm/seal	part no.	
RFM 25 PP/NN	NBR	10-D2540010	●
RFM 25 PP/TK	PTFE/FFKM	10-D2540120	●
RFM 25 PP/TE	PTFE/EPDM	10-D2540130	●
RFM 25 PP/TV	PTFE/FKM	10-D2540140	●
RFM 25 PP/EE	EPDM	10-D2540210	●
RFM 25 PP/VV	FKM	10-D2540310	●
RFM 25 PTFE/TK	PTFE/FFKM	10-D2500120	●
RFM 25 PTFE/TE	PTFE/EPDM	10-D2500130	●
RFM 25 PTFE/TV	PTFE/FKM	10-D2500140	●
RFM 25 PTFE/EE	EPDM	10-D2500210	●
RFM 25 PTFE/VV	FKM	10-D2500310	●



RFM -F25 in polypropylene (PP) for abrasive fluids, connection pump G 1" female, flap valve PUR

	diaphragm/seal	part no.	
RFM-F 25 PP/N/PUR	NBR/PUR	10-D2540510	●

RFM 25 in polytetrafluoroethylene (PTFE) FDA CFR 21 conform, connection pump G 1" female

	diaphragm/seal	part no.	
RFM 25 PTFE/TK (FDA)	PTFE/FFKM	10-D2500121	●
RFM 25 PTFE/TE (FDA)	PTFE/EPDM	10-D2500131	●



**RFML 25 electrically conductive PP or PTFE, for applications in Zone 1,
Ex-marking II 1/2 G Ex h IIB T6..T4 Ga/Gb, connection pump G 1" female**

	diaphragm/seal	part no.	
RFML 25 PP/NN	NBR	10-D2541010	●
RFML 25 PP/TK	PTFE/FFKM	10-D2541120	●
RFML 25 PP/TE	PTFE/EPDM	10-D2541130	●
RFML 25 PP/TV	PTFE/FKM	10-D2541140	●
RFML 25 PP/EE	EPDM	10-D2541210	●
RFML 25 PP/VV	FKM	10-D2541310	●
RFML 25 PTFE/TK	PTFE/FFKM	10-D2501120	●
RFML 25 PTFE/TE	PTFE/EPDM	10-D2501130	●
RFML 25 PTFE/TV	PTFE/FKM	10-D2501140	●
RFML 25 PTFE/EE	EPDM	10-D2501210	●
RFML 25 PTFE/VV	FKM	10-D2501310	●



RFM
FDM

RFML 25 electrically conductive PTFE, FDA CFR 21 conform

	diaphragm/seal	part no.	
RFML 25 PTFE/TK-FDA	PTFE/FFKM	10-D2501121	●
RFML 25 PTFE/TE-FDA	PTFE/EPDM	10-D2501131	●



Air-operated diaphragm pumps

RFM in solid construction

RFM 40 in polypropylene (PP) or polytetrafluoroethylene (PTFE) connection pump G ½" female

	diaphragm/seal	part no.	
RFM 40 PP/NN	NBR	10-D4040015	●
RFM 40 PP/TE	PTFE/EPDM	10-D4040135	●
RFM 40 PP/TV	PTFE/FKM	10-D4040145	●
RFM 40 PP/EE	EPDM	10-D4040215	●
RFM 40 PP/VV	FKM	10-D4040315	●

RFM 40 in polypropylene (PP) for abrasive fluids, connection pump G 1 ½" female, flap valve PUR

	diaphragm/seal	part no.	
RFM 40 PP/N/PUR	NBR/PUR	10-D4040510	●

RFM 40, in polytetrafluoroethylene (PTFE), connection pump G 1 ½" female

	diaphragm/seal	part no.	
RFM 40 PTFE/TK	PTFE/FFKM	10-D4000125	●
RFM 40 PTFE/TE	PTFE/EPDM	10-D4000135	●
RFM 40 PTFE/TV	PTFE/FKM	10-D4000145	●
RFM 40 PTFE/EE	EPDM/EPDM	10-D4000215	●
RFM 40 PTFE/VV	FKM/FKM	10-D4000315	●

RFM 40 in polytetrafluoroethylene (PTFE), FDA CFR 21 conform, connection pump G 1 ½" female

	diaphragm/seal	part no.	
RFM 40 PTFE/TK (FDA)	PTFE/FFKM	10-D4000121	●
RFM 40 PTFE/TE (FDA)	PTFE/EPDM	10-D4000131	●



Reduction nipple to connect the hose connections to the pump for:

- RFM 10**

material	connection	part no.	
PP	G 1" male - G 3/8" male	10-95906159	●
PVDF	G 1" male - G 3/8" male	10-95906169	●

- RFM 15**

material	connection	part no.	
PP	G 1" male - G 1/2" male	10-95906160	●
PVDF	G 1" male - G 1/2" male	10-95906170	●

- RFM 25**

material	connection	part no.	
PP	G 1 1/4" male - G 1" male	10-95906161	●
PVDF	G 1 1/4" male - G 1" male	10-95906171	●

- RFM 40**

material	connection	part no.	
PP	G 2" male - G 1 1/2" male	10-95906162	●



Hose connections for connection to the pump (reduction nipple is necessary):

- RFM 10/15**

material	connection	part no.	
PP	DN 13 - G 1" female	10-95904073	●
PVDF	DN 13 - G 1" female	10-95904177	●
PP	DN 19 - G 1" female	10-95904074	●
PVDF	DN 19 - G 1" female	10-95904178	●

- RFM 25**

material	connection	part no.	
PP	DN 25 - G 1 1/4" female	10-95904052	●
PVDF	DN 25 - G 1 1/4" female	10-95904102	●
PP	DN 32 - G 1 1/4" female	10-95904054	●
PVDF	DN 32 - G 1 1/4" female	10-95904103	●

- RFM 40**

material	connection	part no.	
PP	DN 32 - G 2" female	10-95904010	●
PVDF	DN 32 - G 2" female	10-95904084	●
PP	DN 38 - G 2" female	10-95904011	●
PVDF	DN 38 - G 2" female	10-95904085	●
PP	DN 50 - G 2" female	10-95904012	●



Suction tube for RFM 10, RFM 15 and RFM 25, polypropylene, with thread connector at the bottom G 1/2" male when outer-Ø 20 mm, G 3/4" male when outer-Ø 25 mm

	length	outer Ø	part no.	
with hose nozzle DN 13	1.000 mm	20 mm	10-95918021	●
	700 mm	25 mm	10-95918008	●
with hose nozzle DN 25	1.000 mm	25 mm	10-95918009	●
	700 mm	25 mm	10-95918010	●
with thread connector G 1" male	1.000 mm	25 mm	10-95918011	●
	1.000 mm	25 mm	10-95918013	●

Suction strainer

- for suction tube**

material	connection	outer Ø	part no.	
PP	G 1/2" female	20 mm	10-00110335	●
PP	G 1/2" female	25 mm	10-00110324	●

- for suction hose**

material	with hose connector	part no.	
PP	DN 19	10-00110330	●



Accessories for air-operated diaphragm pumps

RFM/RFML

Pressure regulator with filter unit and speed control valve, complete (pre-mounted) for:

- **RFM** (for use in non hazardous areas)

	part no.	
RFM 10 (1/4")	10-D0100410	●
RFM 15/25 (1/4")	10-D0100412	●
RFM 40 (1/2")	10-D0100405	●
filter cartridge (1/4") for re-order	10-00110115	●

- **RFML** (for use in hazardous areas)

	part no.	
RFML 10	10-D0100320	●
RFML 15/25	10-D0100322	●



RFM 15 with pressure regulator

Stroke counter complete with 5/2-way control valve for RFM

	part no.	
RFM 10/15	10-D0100101	●
RFM 25	10-D0100102	●
RFM 40	10-D0100103	●

- **impulse cable**

	part no.	
for use with digital display, 5 m long	10-93408038	●

- **external digital display FLUXTRONIC®**

	part no.	
with mounting flange	10-00142113	●



RFM 15 with stroke counter, impulse cable and external digital display FLUXTRONIC®

Pulsation dampers, passive, max. operating pressure 8 bar:

for RFM 10 and RFM 15	material	part no.	
PDP 15 PP/N	NBR	10-D0115400	●
PDP 15 PP/E	EPDM	10-D0115420	●
PDP 15 PP/V connector female thread 3/4" female	FKM	10-D0115430	●

for RFM 25	material	part no.	
PDP 25 PP/N	NBR	10-D0125400	●
PDP 25 PP/E	EPDM	10-D0125420	●
PDP 25 PP/V connector female thread 1" female	FKM	10-D0125430	●

for RFM 40	material	part no.	
PDP 40 PP/N	NBR	10-D0140400	●
PDP 40 PP/E	EPDM	10-D0140420	●
PDP 40 PP/V connector female thread 1" female	FKM	10-D0140430	●

- **filling connection** for filling pulsation damper

material	connection	part no.	
brass	G 1/4" female - filling connection	10-D0100000	●



Air-operated diaphragm pumps

FDM/FDMH moulded pump design



FDM 07, pump connection 3/4" NPTF male, G 1/4" female 1/4" NPTF female

		housing	diaphragm	part no.	
FDM 07 PP/AA		PP	santoprene	10-M0740010	●
FDM 07 PP/TT		PP	PTFE	10-M0740100	●
FDM 07 AC/TT	Ex*	AC	PTFE	10-M0750000	●
				part no.	
adapter plate for replacement FDM 06 by FDM 07				10-M0770100	●



FDM 10, pump connection G 3/8" female

		housing	diaphragm	part no.	
FDM 10 PP/AA		PP	santoprene	10-M1040010	●
FDM 10 PP/TT		PP	PTFE	10-M1040110	●
FDM 10 AC/TT	Ex*	AC	PTFE	10-M1050110	●
FDM 10 PVDF/TT		PVDF	PTFE	10-M1060110	●



FDM 12, pump connection 1/2" NPT

		housing	diaphragm	part no.	
FDM 12 PP/AA		PP	santoprene	10-M1240210	●
FDM 12 PP/TT		PP	PTFE	10-M1240110	●
FDM 12 AC/TS	Ex*	AC	PTFE	10-M1250010	●
FDM 12 PVDF/TT		PVDF	PTFE	10-M1260010	●
FDM 12 AL/TT	Ex*	AL	PTFE	10-M1210100	●
FDM 12 AL/NN	Ex*	AL	NBR	10-M1210200	●
FDM 12 S/TT	Ex*	S	PTFE	10-M1220000	●



FDM 25, pump connection flange 1" (hose connection see page 90)

		housing	diaphragm	part no.	
FDM 25 PP/AA		PP	santoprene	10-M2540010	●
FDM 25 PP/CC		PP	PTFE	10-M2540050	●
FDM 25 PP/TT		PP	PTFE	10-M2540100	●
FDM 25 PVDF/TT		PVDF	PTFE	10-M2560000	●



FDM 25, pump connection G 1" female

		housing	diaphragm	part no.	
FDM 25 AL/NN	Ex*	AL	NBR	10-M2510000	●
FDM 25 AL/SS	Ex*	AL	PTFE	10-M2510300	●
FDM 25 AL/TT	Ex*	AL	PTFE	10-M2510100	●
FDM 25 S/TT	Ex*	S	PTFE	10-M2520100	●

FDM 40, pump connection flange 1 1/2" (hose connection see page 90)

		housing	diaphragm	part no.	
FDM 40 PP/AA		PP	santoprene	10-M4040010	●
FDM 40 PP/TT		PP	PTFE	10-M4040100	●
FDM 40 PVDF/TT		PVDF	PTFE	10-M4060000	●



FDM 40, pump connection G 1 1/2" female

		housing	diaphragm	part no.	
FDM 40 AL/NN	Ex*	AL	NBR	10-M4010000	●
FDM 40 AL/TT	Ex*	AL	PTFE	10-M4010100	●
FDM 40 S/TT	Ex*	S	PTFE	10-M4020100	●
FDM 40 GG/NN	Ex*	GG	NBR	10-M4030000	●

* for use in Zone 1, explosion-proof II 2 G D X



RFM
FDM

Air-operated diaphragm pumps

FDM/FDMH moulded pump design

FDM 50, pump connection flange 2" (hose connection see page 90)

		housing	diaphragm	part no.	
FDM 50 PP/AA		PP	santoprene	10-M5040010	●
FDM 50 PP/TT		PP	PTFE	10-M5040100	●
FDM 50 PVDF/TT		PVDF	PTFE	10-M5060000	●

FDM 50, pump connection G 2" female

		housing	diaphragm	part no.	
FDM 50 AL/NN	Ex*	AL	NBR	10-M5010200	●
FDM 50 AL/TT	Ex*	AL	PTFE	10-M5010300	●
FDM 50 S/TT	Ex*	S	PTFE	10-M5020300	●
FDM 50 GG/NN	Ex*	GG	NBR	10-M5030200	●
FDM 50 GG/TT	Ex*	GG	PTFE	10-M5030300	●

FDM 80, pump connection G 3" female

		housing	diaphragm	part no.	
FDM 80 AL/NN	Ex*	AL	NBR	10-M8010000	●
FDM 80 AL/TT	Ex*	AL	PTFE	10-M8010100	●
FDM 80 S/TT	Ex*	S	PTFE	10-M8020100	●
FDM 80 GG/TT	Ex*	GG	PTFE	10-M8030100	●

FDMH 25, pump connection G 1" female

		housing	diaphragm	part no.	
FDMH 25 S/TS	Ex*	S	PTFE	10-M2520200	●

* for use in Zone 1, explosion-proof II 2 G D X



Hose nipples for:

• FDM 07

material	connection	part no.	
MS	DN 10 - G ¼ male	10-95905022	●
PP	DN 10 - G ¼ male	10-95913128	●
PVC	DN 12 - G ¼ male	10-95905181	●

• FDM 10

material	connection	part no.	
PVC	DN 15 - G ⅜ male	10-95905232	●
MS	DN 13 - G ⅜ male	10-95905231	●

• FDM 12

material	connection	part no.	
PP	DN 13 - G ½ male	10-95905183	●
MS	DN 13 - G ½ male	10-95905017	●
MS	DN 19 - ½" NPT	10-95905247	●
S 316 Ti	DN 13 - ½" NPT	10-95905249	●
MS	DN 13 - ½" NPT	10-95905258	●

• FDM 25

material	connection	part no.	
PP	DN 25 - G 1" male	10-95905192	●
MS	DN 19 - G 1" male	10-95905161	●
MS	DN 25 - G 1" male	10-95905052	●
S 316 Ti	DN 25 - G 1" male	10-95905190	●

• FDM 40

material	connection	part no.	
MS	DN 38 - G 1½" male	10-95905185	●
MS	DN 32 - G 1½" male	10-95905186	●
S 316 Ti	DN 38 - G 1½" male	10-95905188	●

• FDM 50

material	connection	part no.	
MS	DN 38 - G 2" male	10-95905194	●



FDM 50



FDM 80



FDMH 25



Reduction nipples to connect the hose connections to the pump:

• FDM 07

material	connection	part no.	
MS	G ¼ male - G ½ male	10-95906091	●
MS	internal thread ¾ - 14 NPTi internal thread ½ - 14 NPTi	10-95906229	●

• FDM 10

material	connection	part no.	
PP	G 1" male - G ¾" male	10-95906159	●
PVDF	G 1" male - G ¾" male	10-95906169	●

• FDM 12

material	connection	part no.	
PP	½ NPT - G 1¼" male	10-95906078	●
PVDF	½ NPT - G 1¼" male	10-95906077	●
stainless steel 316 Ti	½ NPT - G 1¼" male	10-95906079	●

• FDM 25

	material	connection	part no.	
reduction nipple short	MS	G 1" male - G 1¼" male	10-95906080	●
	S 316 Ti	G 1" male - G 1¼" male	10-95906081	●
reduction nipple long	MS	G 1" male - G 1¼" male	10-95906082	●
	S 316 Ti	G 1" male - G 1¼" male	10-95906083	●



Hose connections for connection to the pump:

• FDM 07

material	connection	part no.	
S 316 Ti*	DN 13 - G ¾ female	10-95904133	●
S 316 Ti*	DN 19 - G ¾ female	10-95904147	●
PP	¾ - 14 A NPT	10-95913381	●

• FDM 10

material	connection	part no.	
PP	DN 13 - G 1" female	10-95904073	●
PP	DN 19 - G 1" female	10-95904074	●
PVDF	DN 13 - G 1" female	10-95904177	●
PVDF	DN 19 - G 1" female	10-95904178	●

* reduction nipple is necessary



Connection pieces for connection to the pump:

• FDM 12

material	connection	part no.	
MS	G ½" female - ½" NPT A male	10-95906112	●
S	G ½" A male - ½" NPT A male	10-95906119	●



Double nipples for:

• FDM 40

material	connection	part no.	
MS	G ½" male - G 1½" male	10-00118051	●
S 1.4436	G ½" male - G 1½" male	10-00118047	●



• FDM 50

material	connection	part no.	
MS	G 2" male - G 2" male	10-95906098	●
S 1.4436	G 2" male - G 2" male	10-95906099	●



Hoses for:

DN 9, outer Ø 12 mm

• FDM 07

material	pressure	part no.	
PE	max. 9 bar at 23°C	10-00110889	●

Accessories for air-operated diaphragm pumps

FDM

Hose connections for:

• FDM 12 and FDM 25

material	connection	part no.	
PP	DN 13 - G 1¼" female	10-95904081	●
PP	DN 19 - G 1¼" female	10-95904053	●
PP	DN 25 - G 1¼" female	10-95904052	●
PP	DN 32 - G 1¼" female	10-95904054	●
PVDF	DN 13 - G 1¼" female	10-95904082	●
PVDF	DN 19 - G 1¼" female	10-95904101	●
PVDF	DN 25 - G 1¼" female	10-95904102	●
PVDF	DN 32 - G 1¼" female	10-95904103	●
AL	DN 25 - G 1¼" female	10-95904119	●
AL	DN 32 - G 1¼" female	10-95904120	●
stainless steel 316 Ti	DN 19 - G 1¼" female	10-95904116	●
stainless steel 316 Ti	DN 32 - G 1¼" female	10-95904118	●



• FDM 40

material	connection	part no.	
stainless steel 316 Ti	DN 25 - G 1½" female	10-95904002	●
stainless steel 316 Ti	DN 32 - G 1½" female	10-95904003	●
stainless steel 316 Ti	DN 38 - G 1½" female	10-95904004	●



• FDM 50

material	connection	part no.	
PP	DN 32 - G 2" female	10-95904010	●
PP	DN 38 - G 2" female	10-95904011	●
PP	DN 50 - G 2" female	10-95904012	●
PVDF	DN 32 - G 2" female	10-95904084	●
PVDF	DN 38 - G 2" female	10-95904085	●
stainless steel 316 Ti	DN 32 - G 2" female	10-95904059	●
stainless steel 316 Ti	DN 50 - G 2" female	10-95904009	●



Pulsation dampers for FDM 25, active

	housing	diaphragm	part no.	
PD 25 S/PTFE	S	PTFE	10-M0022500	●



Flanges complete with flat seal FKM and stainless steel screws (per pump two pieces are needed) for:

• FDM 25

material	connection	part no.	
PP	G 1¼" male	10-94714059	●
PVDF	G 1¼" male	10-94714060	●

• FDM 40

material	connection	part no.	
PP	G 2" male	10-94714061	●
PVDF	G 2" male	10-94714062	●

• FDM 50

material	connection	part no.	
PP	G 2" male	10-94714063	●



Hose connections for:

- FDM 12**

material	connection	outer Ø	part no.	
MS	DN 13 - G 1/2" female	21 mm	10-95913179	●
MS	DN 13 - G 1/2" female	22 mm	10-95913177	●
S	DN 13 - 1/2" male NPT	22 mm	10-95913187	●



Brass and stainless steel hose connectors for hoses with DN 19, DN 25 and DN 32 see accessories for drum pumps on page 28

Suction tubes with 90° bend

- stainless steel 316 Ti**, with thread connector below G 3/4" female

version	length	outer Ø	part no.	
with thread connection G 1 male	1.000 mm	28 mm	10-95918026	●
	1.200 mm	28 mm	10-95918027	●
with thread connection G 1 1/4 male	1.000 mm	28 mm	10-95918032	●
	1.200 mm	28 mm	10-95918033	●

- stainless steel 316 Ti**, without thread connector on below

version	length	outer Ø	part no.	
with thread connection G 1 1/2 male	1.000 mm	41 mm	10-95918034	●
	1.200 mm	41 mm	10-95918035	●



Suction tubes FDM 10, FDM 12 and FDM 25

- stainless steel 316 Ti**, thread connector below G 3/8" female at Ø 18 mm, G 3/4" female at Ø 28 mm

version	length	outer Ø	part no.	
with thread connection G 1/2" male	1.000 mm	18 mm	10-95918017	●
	1.000 mm	28 mm	10-95918001	●
with thread connection G 1" male	1.000 mm	28 mm	10-95918003	●
	1.200 mm	28 mm	10-95918030	●
with thread connection G 1/4" male	700 mm	28 mm	10-95918004	●
	1.000 mm	28 mm	10-95918005	●

- polypropylene**, thread connector below G 1/2" male at Ø 20 mm, G 3/4" male at Ø 25 mm

version	length	outer Ø	part no.	
with hose nozzle DN 13	1.000 mm	20 mm	10-95918021	●
	700 mm	25 mm	10-95918008	●
with hose nozzle DN 25	1.000 mm	25 mm	10-95918009	●
	700 mm	25 mm	10-95918010	●
with thread connection G 1" male	1.000 mm	25 mm	10-95918011	●
	1.000 mm	25 mm	10-95918013	●



Suction strainer

- suction strainer** for suction tube

material	connection	outer Ø suction tube	part no.	
stainless steel AISI 304	G 3/4 A, in plastic	28 mm	10-00110325	●
stainless steel AISI 304	G 3/8 A, in plastic	18 mm	10-00110334	●
stainless steel, ex-proof	G 3/4 A, in stainless steel	28 mm	10-00110357	●
stainless steel, ex-proof	G 3/8 A, in stainless steel	18 mm	10-00110358	●
PP with flowback stop valve	G 1/2	20 mm	10-00110335	●
PP with flowback stop valve	G 3/4	25 mm	10-00110324	●



- for suction hose**

material	with hose connector	part no.	
PP	DN 19	10-00110330	●

- earth wire** with crocodile clip

	cable cross-section	length	forceps	part no.	
spiral cable (yellow)	3 mm ²	4 m	stainless steel	10-93190023	●
cable (green/yellow)	4 mm ²	2 m	steel zinc-plated	10-93190015	●



Hoses and hose clips see accessories for drum pumps on page 31-32

Accessories for air-operated diaphragm pumps

Further accessories for FDM

- **pressure regulator** for:

	connection	part no.	
FDM 10 / 12 / 15 / 25	G 1/4" female	10-00110101	●
FDM 40 / 50 / 80	G 1/2" female	10-00110102	●

- **filter-regulator-lubricator unit** for:

	connection	part no.	
FDM 07 - FDM 25	G 1/4" female	10-00110111	●
FDM 07 - FDM 25, explosion-proof	G 1/4" female	10-00110114	●
FDM 40 / 50 / 80	G 1/2" female	10-00110110	●
FDM 40 - FDM 80, explosion-proof	G 1/2" female	10-00110117	●

- **double nipple** for the connection between filter-regulator and speed regulating valve for:

	connection	part no.	
FDM 07 - FDM 25	G 1/4 A - G 1/4 male	10-95906166	●
FDM 40 - FDM 80	G 1/2 A - G 1/2 male	10-95906167	●

- **speed regulation valve** for:

	connection	part no.	
FDM 07 - FDM 25	G 1/4" female	10-D0100230	●
FDM 40 - FDM 80	G 1/2" female	10-D0100231	●

- **air connection** in brass (double nipple fixing) for:

	version	connection	part no.	
FDM 10 / 12 / 25	straight	1/4" NPT - G 1/4" male	10-95906088	●
FDM 40, FDM 50 PP/PVDF	straight	1/2" NPT - G 1/2" male	10-95906086	●
FDM 50 AL/S/GG, FDM 80 AL/S/GG	with 90° bend	3/4" NPT - G 1/2" male	10-95906138	●



Further accessories for FDM and RFM

- **compressed-air hose**

nominal Ø, material	outer Ø	part no.	
DN 10, EPDM, electrically conductive	17.5 mm	10-00110913	●
DN 10, PVC	17 mm	10-00110071	●
DN 13, PVC	20 mm	10-00110008	●



- **coupling** in brass

nominal Ø	part no.	
DN 7,2 - G 1/4" male	10-95913210	●



- **hose couplings** complete
consisting of threaded nipple and hose coupling

nominal Ø, material	part no.	
DN 10 - G 1/4" male, brass	10-95913108	●
DN 13 - G 1/2" male, steel nickel-plated	10-95913109	●



- **plug-in sleeve** in brass for hose coupling

nominal Ø	part no.	
DN 10	10-95913209	●



- **hose nozzle** (brass)

nominal Ø	part no.	
DN 10 - G 1/4" male	10-95905022	●
DN 13 - G 1/2" male	10-95905017	●



- **1-ear hose clip**

clamping range	part no.	
14,8 - 18,0 mm	10-95913237	●
18,8 - 22,0 mm	10-95913239	●



	part no.
individual certificate FOOD	10-Z0100400
individual certificate FDA	10-Z0100401
test certificate acc. to DIN EN 10204-2.2	10-95460577
inspection certificate for drum pump with commutator motor	10-95460526
inspection certificate for commutator motor	10-95460582
acceptance test certificate for progressive cavity pump with commutator motor	10-95460529
acceptance test certificate for progressive cavity pump with three-phase motor	10-95460528
acceptance test certificate for centrifugal immersion pump with three-phase motor	10-95460527
calibration report FMC	10-95460768
calibration report FMO	10-95460750
certificate of origin	10-Z01000K3

General terms and conditions

GENERAL TERMS AND CONDITIONS OF SALE

of FLUX-GERÄTE GMBH

§ 1 General, scope

(1) All supplies and services FLUX-GERÄTE GMBH are made exclusively at the following delivery and payment conditions (hereinafter also referred to as "terms of sale"). Terms and conditions of the customer that contradict or diverge from our terms of sale are herewith expressly excluded. FLUX-GERÄTE GMBH is only bound by such terms and conditions if FLUX-GERÄTE GMBH has acknowledged them in writing. Our terms of sale still apply even if we carry out the delivery to the customer without any reservation in the knowledge that the terms and conditions of the customer contradict or diverge from our terms of sale.

(2) In placing the order and accepting the goods delivered by us, the customer confirms its agreement with our terms and conditions. The storage and processing of the data of our customers is computerized to the extent that this is necessary for the due processing of the business relationship.

(3) All arrangements made between the customer and ourselves for the purpose of executing an agreement are set forth in said agreement.

(4) Our terms of sale only apply to companies as defined by Article 310 (1) BGB [Bürgerliches Gesetzbuch: German Civil Code].

§ 2 Offers and deliveries

(1) Our offers are generally valid for a limited period of time. If the order of the customer qualifies as an offer in accordance with Article 145 BGB, we can accept it within two weeks. The order is accepted by the order confirmation of FLUX-GERÄTE GMBH which forms the basis of the contractual agreement and determines the scope of the delivery.

(2) In the case of offers which are limited in time and which allow a certain period of time for acceptance, the offer is decisive if no order confirmation is issued within the period allowed. Side agreements and amendments must be confirmed by us in writing.

(3) We reserve the right to make design changes and other changes to technical data and specifications to the extent that these represent technical improvements and are deemed to be reasonably acceptable for the customer.

(4) Documents such as drawings, samples and the like provided to FLUX-GERÄTE GMBH as attachments to the request for an offer or the order remain the property of the customer. They form the binding basis for the preparation and elaboration of the offer by FLUX-GERÄTE GMBH. When placing orders, the customer must make written reference to any subsequent changes compared to the initial request for an offer and the offer by FLUX-GERÄTE GMBH. If FLUX-GERÄTE GMBH attaches similar documents to its offers in the way described above, these are and remain the property of FLUX-GERÄTE GMBH. The customer agrees not to use these documents for purposes not governed by the agreement, to duplicate them or to otherwise make them accessible to third parties. Obvious errors, printing, arithmetical, typing and calculation errors are not binding for FLUX-GERÄTE GMBH and do not entitle the customer to claim damages or compensation.

§ 3 Prices and payment

(1) Unless otherwise agreed in the order confirmation, the prices are ex works "Maulbronn", excluding costs of shipping and packaging; these will be invoiced separately.

(2) The delivery is made at the price stated in the offer of FLUX-GERÄTE GMBH or in the order confirmation in accordance with § 2 above.

(3) The invoice amount is due within 14 days of the invoice date with 2 % discount, or net within 30 days. Invoices for repairs are due immediately for payment, without deductions. The 2 % discount is not granted if other receivables are overdue. If payment periods are exceeded, we reserve the right to claim damages for delayed payment of 8 % above the base interest rate. For orders for goods with a net value of less than EUR 40 we charge a minimum quantity surcharge up to this net value.

(4) Payments can only be withheld or offset against any counterclaims if the counterclaims of the customer are undisputed, acknowledged and legally enforceable.

§ 4 Delivery period, delivery not possible, delays

(1) The delivery period begins as of the date of the order confirmation. However, this only applies if all the technical details have been clarified at this point in time.

(2) Compliance with our delivery obligation also presupposes that the customer satisfies its obligations punctually and properly. We reserve the right to make a plea of non-performance.

The delivery period is as agreed between the contractual parties. For FLUX-GERÄTE GMBH to keep the delivery date, all commercial and technical questions must have been clarified between the contractual parties and the customer must have fulfilled all its responsibilities, e.g. such as providing the necessary official certifications or permits or payment of a down-payment. If this is not the case, the delivery period is prolonged accordingly. This does not apply if FLUX-GERÄTE GMBH is responsible for the delay.

(3) Keeping the delivery period is also subject to the condition that FLUX-GERÄTE GMBH receives its own deliveries on time. FLUX-GERÄTE GMBH will immediately announce any indication of possible delays.

(4) The delivery period is deemed to have been kept if the item being delivered has left the plant of FLUX-GERÄTE GMBH in Maulbronn before the end of the delivery period or the customer has been notified that the item is ready for shipment. If the products have to be inspected and accepted, the inspection date is decisive, unless there are reasonable grounds to reject acceptance; alternatively, notification that the products are ready for inspection is deemed to be decisive.

(5) If the shipment or inspection of the products being delivered is delayed for reasons caused by the customer, the costs caused by the delay will be charged to the customer starting one month after notification that the products are ready for shipment or inspection.

(6) If the failure to keep the delivery period is due to force majeure, labor disputes or other events which are beyond the control of FLUX-GERÄTE GMBH, the delivery period is extended accordingly. FLUX-GERÄTE GMBH will inform the customer about the beginning and end of such events as soon as reasonably possible.

(7) The customer can withdraw from the contract without notice if circumstances render performance impossible for FLUX-GERÄTE GMBH before the transfer of risk. The customer can also withdraw from the contract if execution of part of a delivery is impossible and the customer has a legitimate interest in rejecting partial delivery. If this is not the case, the customer must pay that part of the contractually agreed price that relates to the partial delivery. The same applies if FLUX-GERÄTE GMBH is unable to execute the contract. §§ 7-9 apply by analogy.

(8) If the customer is in default of acceptance or if it violates any other duty to cooperate, we are entitled to claim compensation for any loss that we have sustained as a result, including any additional expenses that have been incurred. Further claims and rights are reserved.

(9) Provided the prerequisites of (4) are in place, the risk of accidental loss or the accidental deterioration of the purchased goods is transferred to the customer at the point in time when the customer is in default of acceptance or payment.

(10) We are liable in accordance with the legal provisions to the extent that the underlying purchase agreement contains a fixed date of delivery in accordance with Article 286 (2) No. 4 BGB or Section 376 HGB [Handelsgesetzbuch: German Commercial Code]. We are also liable in accordance with the legal provisions if the customer is entitled on account of a delay in delivery for which we are responsible to claim that its interest in executing the contract has lapsed.

(11) We are also liable in accordance with the legal provisions if the delay in delivery is due to the willful or gross negligent breach of contract by us; if our representatives or agents are responsible, the liability lies with us. If the delay in delivery is due to a gross negligent breach of contract by us, our liability for damages is limited to foreseeable losses that typically occur in such cases.

(12) We are also liable in accordance with the legal provisions if the delay in delivery for which we are responsible is due to the culpable infringement of a significant contractual duty; in this case, our liability for damages is limited to foreseeable losses that typically occur.

(13) In the case of a delay in delivery, we are liable for every full week of delay in the form of a lump-sum compensation for delay equivalent to 0.5 % of the value of the goods being delivered per week, but not more than 10% of the total value of the goods being delivered. If FLUX-GERÄTE GMBH is in default with the delivery, the customer is entitled to grant FLUX-GERÄTE GMBH by written declaration an additional period for delivery of at least another four weeks, beginning from the receipt of the written declaration. If this additional term expires without success, the customer is entitled to withdraw from the contract.

(14) This does not affect other legal claims and rights of the customer.

§ 5 Transfer of risk

(1) The risk is transferred to the customer when the goods being delivered leave the plant, even if part deliveries have been made or FLUX-GERÄTE GMBH has agreed to provide other services, e.g. shipping costs or delivery and installation. Where an inspection is necessary, this is decisive for the transfer of risk. It must be carried out immediately as of the inspection date, alternatively after FLUX-GERÄTE GMBH notifies the customer that the goods are ready for inspection. The customer may only refuse to accept the goods after inspection if there is a significant defect.

(2) If shipment or inspection is delayed or does not take place due to circumstances that are beyond the control of FLUX-GERÄTE GMBH, the risk is transferred to the customer from the day on which the customer is notified that the goods are ready for shipping or inspection. FLUX-GERÄTE GMBH agrees at the expense of the customer to take out any insurance the customer may demand.

(3) Partial deliveries are permissible to the extent that the deliveries can be split and partial deliveries are deemed to be reasonably acceptable for the customer.

(4) At the customer's request, we will take out transport insurance to cover the delivery; any costs incurred for this are borne by the customer.

§ 6 Retention of title

(1) The delivered goods remain our property until all current and future receivables from the business relationship with the customer have been paid, regardless of the legal grounds.

If the customer contravenes the contractual arrangements, including but not limited to default of payment, we are entitled to take back the goods that have been delivered. An application for the opening of insolvency protection proceedings entitles FLUX-GERÄTE GMBH to withdraw from the contract and to demand that the delivered goods be returned immediately. The repossession of the purchased goods by FLUX-GERÄTE GMBH constitutes a withdrawal from the contract. After repossession of the purchased goods, FLUX-GERÄTE GMBH is authorized to sell the goods, the proceeds of which are to be offset against the liabilities of customer, less reasonable selling costs.

(2) In the event of attachments or other interventions of third parties, the customer must inform us immediately in writing so that we can institute proceedings in accordance with Section 771 ZPO (Zivilprozessordnung: German Code of Civil Procedure). If the third party is not able to reimburse the costs of litigation incurred in and out of court, the customer is liable for any losses we may incur.

(3) The customer is authorized to resell the delivered goods in the course of ordinary business, but on a revocable basis. The customer assigns to us all receivables up to the final invoice amount (including value added tax) of our receivable which are due to the customer from the resale from its customers or third parties, regardless of whether the purchased item is resold without or after processing. The assigned receivables act as security for all claims in accordance with paragraph 1 above. At our request, the customer is obliged to inform us of the assignment to third parties for the purpose of payment to us and to provide us with the necessary information and documents that we need to enforce our rights.

(4) The customer may neither sell the delivered goods, pledge them nor offer them as collateral. In the event of attachments or confiscation or other orders by third parties, the customer must inform FLUX-GERÄTE GMBH immediately.

§ 7 Warranty claims

(1) The warranty claims of the customer require that its statutory obligations in accordance with Section 377 HGB to examine the goods and to give notice of defects have been duly fulfilled.

(2) If the purchased item exhibits a defect, the customer is entitled to supplementary performance and can choose between remedying the defect or the supply of a new, defect-free item. In the event of a remedy of the defect or a new delivery, we are obliged to bear all expenses involved in the supplementary performance, including but not limited to transport and travel expenses, labor and material costs, provided these are not increased by the circumstance that the purchased item has been relocated to a place other than the place of performance.

(3) If the supplementary performance fails, the customer can demand either withdrawal from the contract or a price reduction.

§ 8 Liability

(1) We are liable in accordance with the legal provisions if the customer claims damages due to the willful or gross negligent breach of contract by us or our representatives or agents. Unless we are accused of a willful breach of contract, our liability for damages is limited to foreseeable losses that typically occur in such cases.

(2) We are also liable in accordance with the legal provisions if we culpably infringe a cardinal obligation; in this case, our liability for damages is, however, again limited to foreseeable losses that typically occur. A contractual duty is deemed to be a cardinal obligation if the breach of duty relates to a duty which the customer relied on to be performed and was justified in relying thereon.

(3) To the extent that the customer is entitled to damages instead of the performance, our liability – also in the context of § 7 (3) – is limited to foreseeable losses that typically occur.

(4) If the delivered goods cannot be used in accordance with the contract through the fault of FLUX-GERÄTE GMBH as a result of suggestions and advice given before or after the contract was concluded not being implemented or being wrongly implemented or through the infringement of other contractually agreed secondary obligations – including but not limited to instructions for the operation and maintenance of the delivered goods – the rulings of §§ 8 et seq. apply by analogy, excluding further claims of the customer.

(5) We assume no liability for damage caused for the following reasons: unsuitable or incorrect use or storage, incorrect assembly/installation by the customer or third party, unauthorized repair attempts and modifications, natural wear and tear, faulty or careless handling, etc. on which we have no influence, as well as in the case of improper usage and non-compliance with our instructions for use. For safety reasons, products intended to be used in hazardous areas may only be opened and repaired by FLUX-GERÄTE GMBH or by a service partner authorized by FLUX-GERÄTE GMBH.

(6) In the absence of any provisions to the contrary above, liability shall be excluded.

(7) Warranty claims become statute barred after 12 months, beginning upon transfer of risk.

(8) In the event of a delivery recourse in accordance with Articles 478, 479 BGB, the statute of limitations remains unaffected; it is five years from the delivery of the deficient goods.

§ 9 Joint liability

(1) Liability for compensation for damages which goes beyond that envisaged under § 8 is excluded, regardless of the nature of the claim being asserted. This applies in particular to claims for damages arising from faults upon conclusion of contract, on account of other breaches of duty or on account of tort claims to compensation for property damages according to Article 823 BGB.

(2) The limitation as described under paragraph (1) above also applies if the customer demands reimbursement of needless expense instead of making a claim for compensation.

(3) If liability for compensation for damages against us is excluded or limited, this shall also apply with respect to the personal liability for damages of our employees, workers, co-workers, representatives, and agents.

§ 10 Secrecy

The customer is required to treat all information, know-how and other business secrets obtained in connection with the execution of each contract with strict confidentiality and is not permitted without the express approval of FLUX-GERÄTE GMBH to pass on any information, documents, documentation, drawings, sketches or other materials to third parties or otherwise to make such materials accessible. FLUX-GERÄTE GMBH also treats the documents of customers confidentially.

§ 11 Court of competent jurisdiction – place of performance

(1) For commercial customers, our registered office is the court of competent jurisdiction; we are, however, also entitled to sue the customer at the court competent for its place of domicile.

(2) The law of the Federal Republic of Germany applies; application of the United Nations Convention on Contracts for the International Sale of Goods (UN Purchasing Convention) is excluded.

(3) Unless otherwise stipulated in the order confirmation, our registered office is the place of performance.

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More than just pumps

FLUX is a world renowned brand for the highest standards in pump technology. It all began in 1950 with the invention of the electric drum pump. Today, FLUX offers a wide range of products which can be configured individually. For example, FLUX pumps are used in the chemical and pharmaceutical industries, in machine and plant construction, as well as in electroplating, sewage treatment plants, and the food industry.

Whether as a stand-alone or a system solution, FLUX quality means long useful life, excellent economic efficiency and a maximum of safety.

Apart from the outstanding FLUX product quality and reliability, our clients appreciate the expertise and dedication of our employees to customer service.

Today, FLUX-GERÄTE GMBH supplies pumps to almost one hundred countries world wide.

FLUX-GERÄTE GMBH

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