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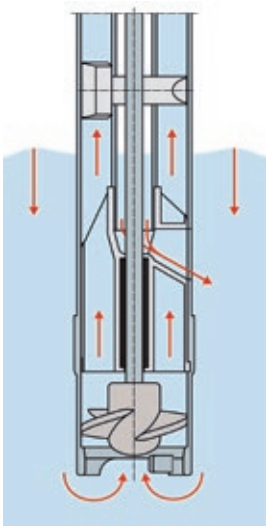
Technical Data Sheet

Drum pumps F/FP 427

More than just pumps

Drum pumps F/FP 427





Advantages/characteristics:

- Ideal as a hygienic pump
- Minimised dead spot areas
- No seal in liquid zone
- Can be easily dismantled into individual parts for cleaning
- Can be disassembled virtually without tools
- Radial shaft seal rings prevent vapours and liquid from penetrating into the coupling area
- Simultaneous storage of shaft and inner tube with plug-in bearing
- All parts that come into contact with the medium can be sterilized
- Also pumps solids-laden fluids, e.g. fruits with pulp, soups with spices

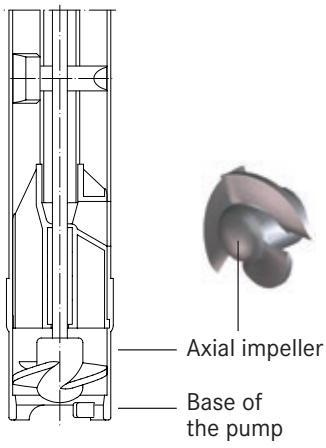
1) Depending on pump version, media and motor
2) Other materials available on request
3) In gradations of 100 mm

Design, function and dimensions

Drum pumps F/FP 427

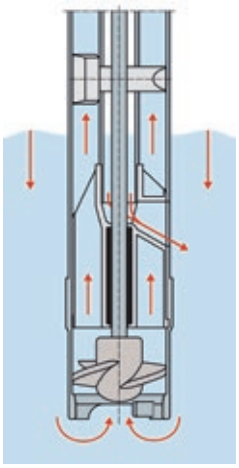
Technical data/type	F 427 S3	F 427 S4	FP 427 S FOOD	F 427 S 3A
Seal type	No seal in liquid zone			
Version	With impeller for max. flow rate			
Pressure-side connection	Thread G 1 ¼ A	Thread Rd 58 x ⅛	Clamp 1 ½"	
Materials				
Pump	Stainless steel 316 Ti			
O-Ring[2)]	FKM			
Shaft	Stainless steel			
Impeller	ETFE		Stainless steel	ETFE
Dimensions				
Outer tube diameter / Impeller diameter (mm)	43/38			
Standard immersion depth (mm)	700, 1 000, 1 200			
Other immersion depths / special lengths (mm)[3)]	200 - 2 000			
Operating range				
Container	Drums, IBCs, tanks, canisters, hobbocks, mixing containers etc.			
Media temperature (°C)	100			
Ambient temperature (°C)	-20 to +40			
Weight Ø 43, ID 1 000 mm (kg)	2.9			
Certificates				
Food approvals	-		EG 1935/2004 FDA CFR 21	3A-version
Silicone-free version	-			
Performance data[1)]	**Impeller**			
Flow rate max. l/min.	240			
Delivery head max. mwc	13			
Viscosity max. mPas	1 000			

Design:



F/FP 427 with bearing housing and axial impeller

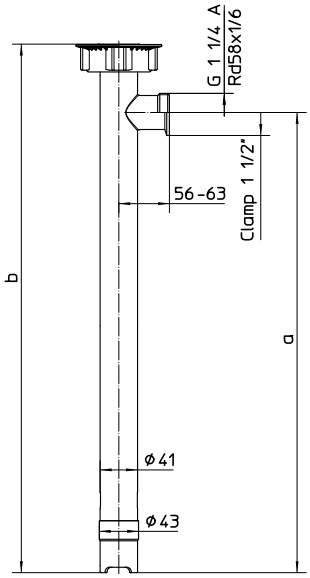
Function:

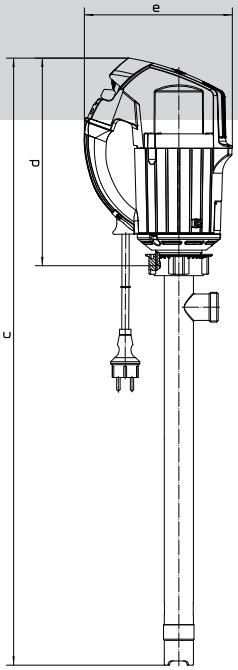


F/FP 427 with relief opening for optimum outflow of medium

Dimensions:

Drum pump with motor





F/FP 427 with motor

Standard immersion depth (ID)

Ø (mm)	ID (mm)	a (mm)	b (mm)
43	700	715	790
	1 000	1 015	1 090
	1 200	1 215	1 290

Other immersion depths (ID)
a = ID + 15 and b = ID + 90

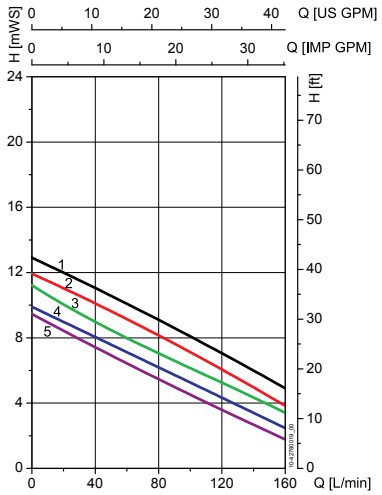
Motor type	c (mm)	d (mm)	e (mm)
FEM 4070	b + d - 16	207	186
F 457 (EL)		225	217
F 458 (-1, EL)		292	209
F 460 Ex (-1, EL)		292	209
FBM 4000 Ex		292	209
F 416 Ex		119	230
F 416-1 Ex		101	120
F 416-2 Ex		101	120

Performance diagrams[1)] & part numbers

Drum pumps F/FP 427

The performance diagram applies to the Ø 38 impeller and the indicated motors, for all pipe types respectively.

Axial impeller Ø 38



1) F 416 Ex, F 416-1 Ex, F 416-2 Ex (6 bar)
2) F 457, F 457 EL, F 458-1, F 460-1 Ex
3) FBM 4000 Ex
4) FEM 4070
5) F 458, F 458 EL, F 460 Ex, F 460 Ex EL

Part numbers:

1) Determined with water at 20 °C, measured values ± 10 % maximum flow rate with open discharge outlet

Accessories

Drum pumps F/FP 427

Standard immersion depths

Type	Material			Diameter (mm)		Part no.			
	Pump	Shaft	O-Ring	Ø outer tube	Ø impeller	700 mm	1 000 mm	1 200 mm	1 500 mm
F 427 S3, Connection thread G 1 ¼ A	Standard	S	FKM	43	38	10-427 20 307	10-427 20 310	10-427 20 312	10-427 20 315
F 427 S4, Connection thread Rd 58 x ⅙						10-427 20 407	10-427 20 410	10-427 20 412	
F 427 S5, Connection Clamp 1 ½"						10-427 20 507	10-427 20 510	10-427 20 512	
FP 427 S, Connection Clamp 1 ½"	FOOD					10-427 20 607	10-427 20 610	10-427 20 612	
F 427 S 3A, Connection Clamp 1 ½"	3A					10-427 20 207	10-427 20 210	10-427 20 212	

Other immersion depths/other O-rings/other connections on request

Hose connections

with union nut G 1 ¼ and Rd 58 x ⅙ for standard versions and clamp 1 ½ for FOOD- and 3A-version

Connection and/or connection thread	Material			Size		
	Connection	Union nut	Seal	DN 19	DN 25	DN 32
Standard G 1 ¼	Stainless steel (S) 316 Ti	Stainless steel	-	10-959 04 062	10-959 04 063	10-959 04 064
Milk tube screw fitting 58 x ⅙			-		10-959 04 115	
Clamp 1 ½, FOOD-version		-	FKM	10-959 04 171	10-959 04 169	
		-	NBR	10-960 04 172	10-960 04 170	
Clamp 1 ½, 3A-version		-	-	10-959 04 138		

Accessories for drum pump F/FP 427

Compatible with drum pumps from the F/FP 427 series, we offer a wide selection of accessories, for example, compression glands, hoses, hand nozzles. More information can be found in the FLUX accessory brochure, in the price list or on our homepage: www.flux-pumps.com.

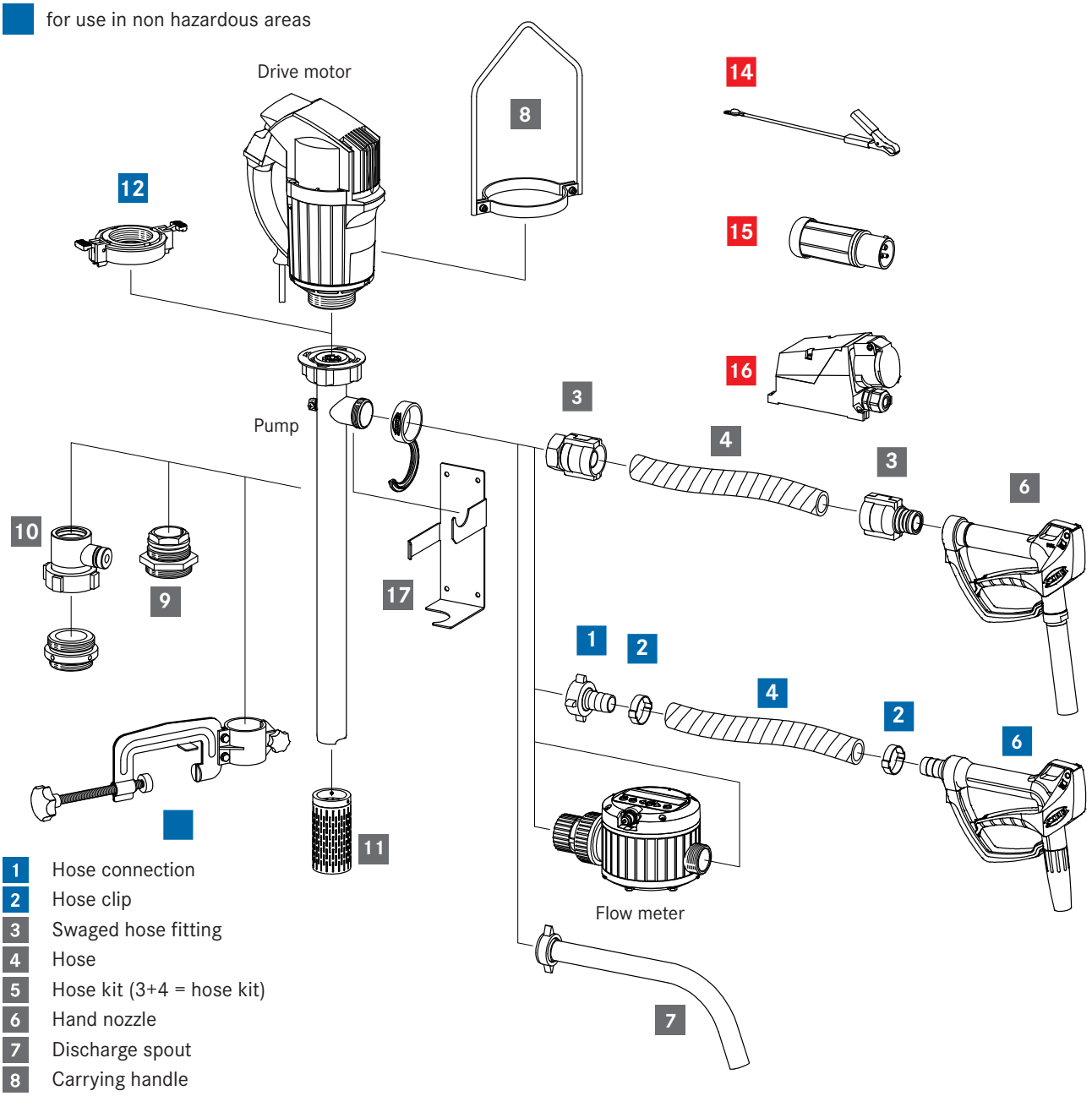
Accessories

Drum pumps F/FP 427

for use in hazardous areas

for use in hazardous and non hazardous areas

for use in non hazardous areas



1 Hose connection
2 Hose clip
3 Swaged hose fitting
4 Hose
5 Hose kit (3+4 = hose kit)
6 Hand nozzle
7 Discharge spout
8 Carrying handle
9 Compression gland
10 Fume gland
11 Suction strainer
12 Quick action coupling
13 Attachment clamp
14 Earth (ground) wire
15 Explosion-proof plug
16 Explosion-proof socket
17 Wall bracket

FLUX-GERÄTE GMBH
Talweg 12 · D-75433 Maulbronn
Tel +49 (0)7043 101-0 · Fax +49 (0)7043 101-444
info@flux-pumpen.de · www.flux-pumps.com

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