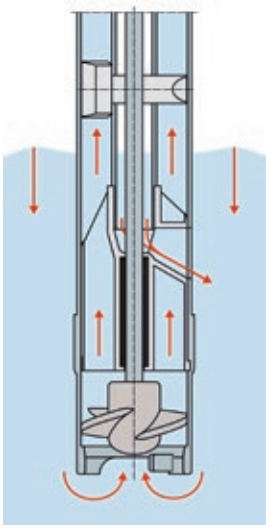
Technical Data Sheet

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

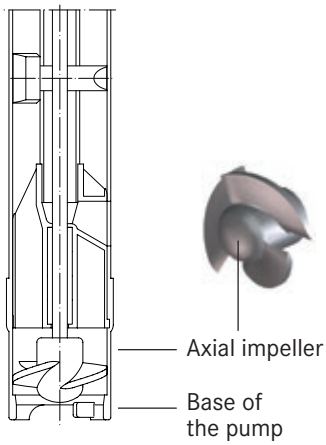
Technical data/type	F 427 S3	F 427 S4	FP 427 S FOOD	F 427 S 3A
Seal type	No seal in liquid zone			
Version	With impeller for max. flow rate			
Pressure-side connection	Thread G 1 ¼ A	Thread Rd 58 x ⅙	Clamp 1 ½"	
Materials				
Pump	Stainless steel 316 Ti			
O-Ring[2]	FKM			
Shaft	Stainless steel			
Impeller	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			

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

Design, function and dimensions

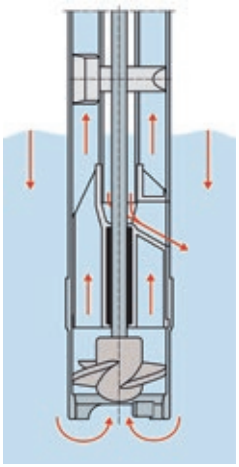
Drum pumps F/FP 427

Design:



F/FP 427 with bearing housing
and axial impeller

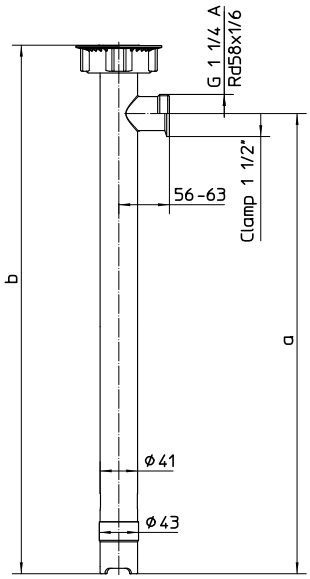
Function:



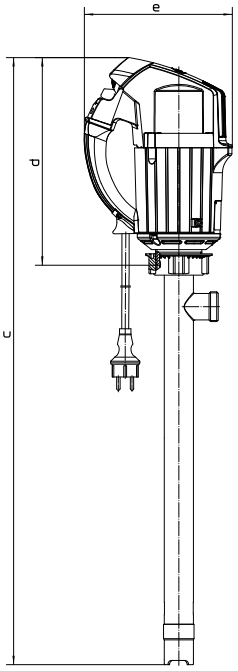
F/FP 427 with relief opening
for optimum outflow of medium

Dimensions:

Drum pump F/FP 427



Drum pump 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

F/FP 427 with motor

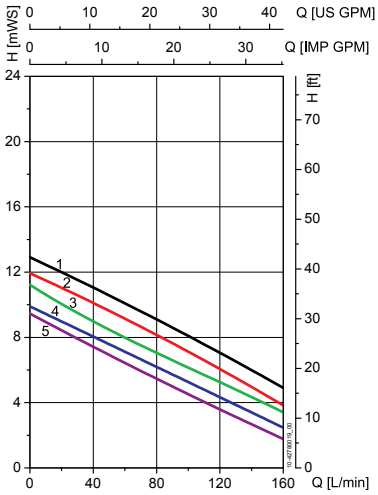
Motor type	c (mm)	d (mm)	e (mm)
FEM 4070	b + d - 16	207	186
F 457 (EL)		225	217
F 458 (-1, EL)		292	209
F 460 Ex (-1, EL)		292	209
FBM 4000 Ex		292	209
F 416 Ex		119	230
F 416-1 Ex		101	120
F 416-2 Ex		101	120

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:

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 ⅛						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 ⅛ 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 ⅛			-		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		

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

Accessories

Drum pumps F/FP 427

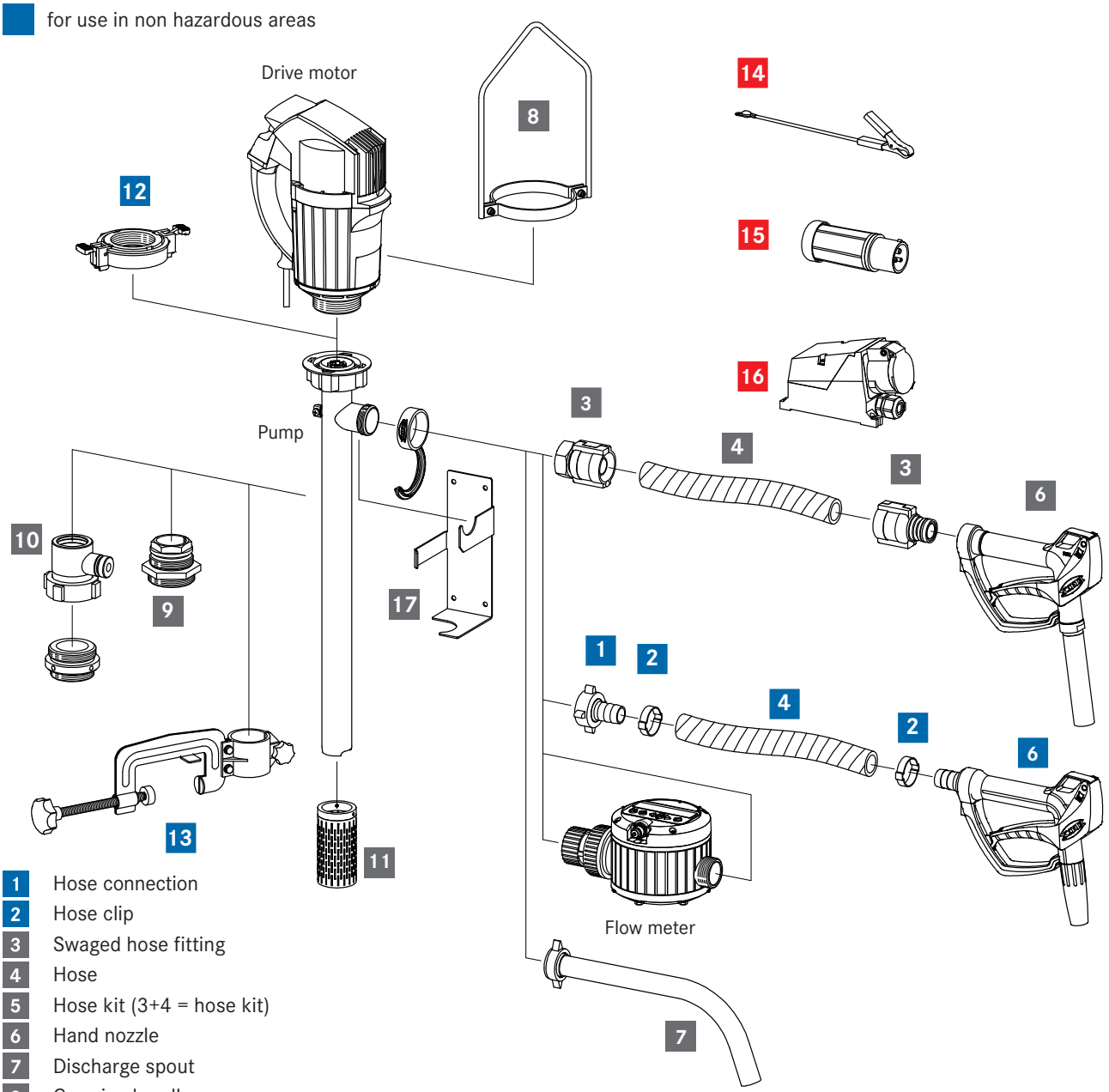
Accessories for drum pump F/FP 427

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.

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

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