

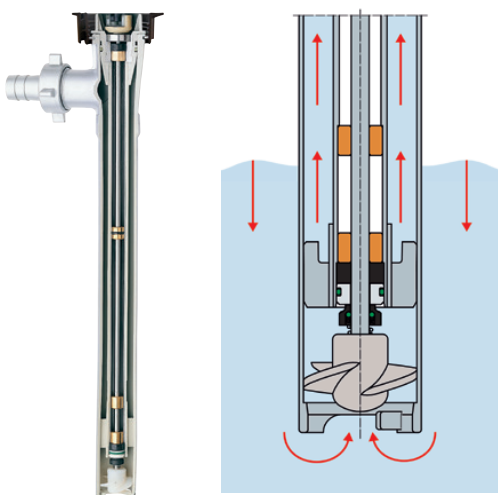
Technical Data Sheet

Drum pumps F/FP 430



More than just pumps

Drum pumps F/FP 430



Advantages/characteristics:

- ▶ With mechanical seal for interior seal
- ▶ Compared to sealless pump increased service life with abrasive media
- ▶ Ideal for frequent media changes, curing media, quick drying media, crystallising media
- ▶ Can be easily dismantled into two parts for cleaning
- ▶ With metal core reinforced inner tube on plastic versions, prevents leakage and unnecessary wearout of the mechanical seal at all application temperature areas
- ▶ Operation against closed valve is possible (hand nozzle, ball valve, etc.), up to indicated max. operating temperature



Technical data/type	F 430 PP	F 430 PVDF	F 430 S	FP 430 Ex S FOOD	F 430 HC	F 430 AI
Seal type	Mechanical seal					
Version	With impeller for max. flow rate, with mixed half axial impeller for max. delivery head (Z-version)					
Pressure-side connection	Thread G 1¼ A		Clamp 1½"		Thread G 1¼ A	
Materials						
Pump	Polypropylene	Polyvinylidene fluoride	Stainless steel 316 Ti		Hastelloy C	Aluminium
O-ring ²⁾	EPDM, FKM	FKM, FFKM	EPDM, FKM, FFKM	FKM	FFKM	NBR
Mechanical seal	Oxide ceramics, PTFE/coal					
Shaft	Hastelloy C		Stainless steel 316 Ti		Hastelloy C	Stainless steel
Impeller	ETFE			Stainless steel	ETFE	
Dimensions						
Outer tube diameter / Impeller diameter (mm)	40/33 40/33 Z 50/38 50/43 Z		41/38 41/37 Z 50/45 Z	41/38	40/38	41/38 41/37 Z 50/38
Standard immersion depth (mm)	700, 1 000, 1 200					
Other immersion depths / special lengths (mm) ³⁾	200 - 3 000					200 - 2 000
Operating range						
Container	Drums, IBCs, tanks, canisters, hobboscks, mixing containers etc.					
Media temperature (°C)	0 to +50	0 to +80	0 to +100		0 to +120	0 to +80
Media temperature ex-application (°C)	-	-	0 to +40			-
Ambient temperature (°C)	0 to +40		-20 to +40			
Weight Ø 40/41, ID 1 000 mm (kg)	1.4	1.7	3.0	3.0	3.0	1.5
Weight Ø 50, ID 700/1 000/1 200 mm (kg)	1.5	2.1	4.5			1.8
Certificates						
Ex-identification	None	None	 II 1/2 G IIB T4			None
Food approvals	None	None	None	 (EG) 935/2004 FDA CFR 21	None	None
Silicone-free version	On request					
Performance data ¹⁾			Impeller		Half axial impeller (Z-version)	
Flow rate max. l/min.			240		120	
Delivery head max. mwc			12		28	
Viscosity max. mPas			1 000		1 200	

1) Depending on pump version, media and motor

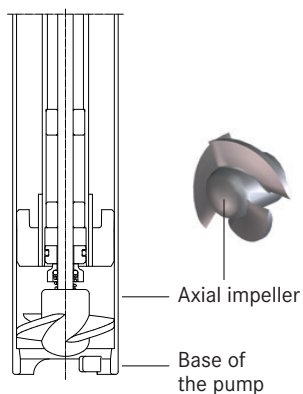
2) Other materials available on request

3) In gradations of 100 mm

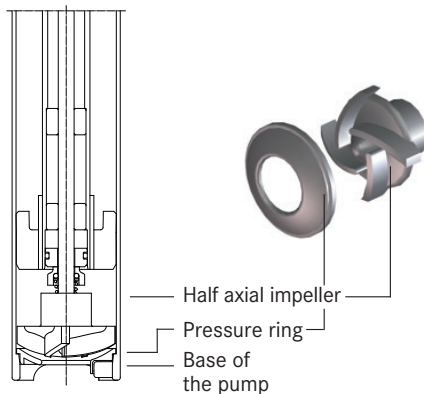
Design, assembly example and dimensions

Drum pumps F/FP 430

Design:

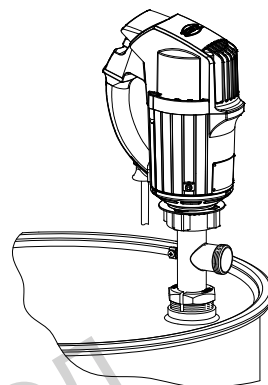


F/FP 430 with mechanical seal and impeller



F/FP 430 with mechanical seal and half axial impeller (Z-version)

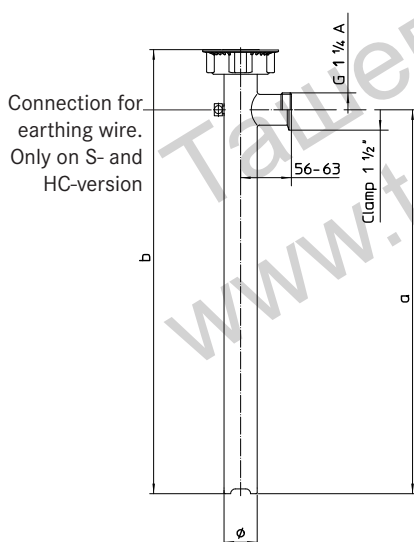
Assembly example:



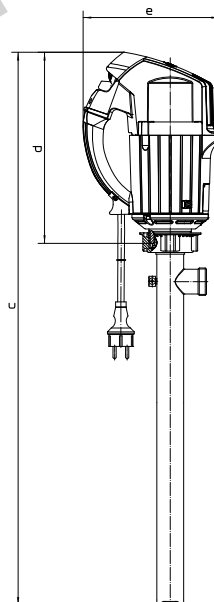
F/FP 430 with compression gland joint mounted in a drum with bung hole

Dimensions:

Drum pump F/FP 430



Drum pump with motor



Standard immersion depth (ID)

Ø (mm)	ID (mm)	a (mm)	b (mm)
40/41 or 50	700	706	780
	1 000	1 006	1 080
	1 200	1 206	1 280

Other immersion depths (ID)

a = ID + 6 and b = ID + 80

F/FP 430 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