

Drum and Container pumps

Series 400 – for low-viscosity media



More than just pumps



FLUX drum and container pumps

For every application and industry the right solution



Ideal for mobile filling of liquid media

FLUX drum and container pumps are suitable for pumping various low-viscosity and also especially aggressive and highly-flammable fluids. The axial-impeller pumps provide a pulsation-free pumping action. Modular design allows different pumps to be driven by the same motor. As a result of their low weight, the pumps can be easily carried from container to container.

Easy handling of motor and pump keeps changeover times short. Pumps with and without mechanical seal are available, as well as versions for higher pumping heads and mixing pumps. FLUX drum and container pumps are available in versions with explosion protection, with 3A certification as well as FLUX FOOD pumps (Directive (EC) 1935/2004 and FDA CFR 21 compliant). Pre-configured pump sets for typical applications are available.

Customized tailor-made solutions

The FLUX product range goes from individual components, to pre-configured pump kits and accessories, to manual and semi-automatic filling systems as well as special solutions for demanding liquids. For special demands, FLUX can design and construct custom-made products.

Suitable motors for every requirement

For driving FLUX pumps, a wide range of electrical to pneumatic motors is available. Even if you work in hazardous areas or with flammable liquids. Depending on the application, FLUX drum and container pumps can be combined with different motors - commutator motors, brushless motors, three-phase motors and pneumatic motors.

FLUX has the right solution for every industry: Thus, an enormous range of different media is covered with application-specific products. Even when it comes to conveying demanding liquids - e.g. highly aggressive fluids.



Chemical



Industry



Surface
techno-
logy



Paints
and
lacquers



Petro-
chemi-
cals



Foods



Cosme-
tics



Pharmacy



Water
treatment



Agricul-
ture

FLUX products have been developed and certified for use around the world; they comply with the highest demands and safety standards. No matter if food, pharma or industry – if hygienic or hazardous areas: For every application we have the suitable pump model.



FLUX drum and container pumps

Good to know when selecting pump type

Outer diameter of different series 400 pump types and impeller diameter resp. geometries

Outer diameter of the pump (mm)	Pump type														
	F/FP 430					F/FP 424			F/FP 425			F 426		F/FP 427	MINIFLUX
Material pump	S	PP	PVDF	AL	HC	S	PP	PVDF	S	PP	HC	S	PP	S	S
40	-	33	33	-	38	-	-	-	-	-	-	-	-	-	-
	-	33 Z	33 Z	-	-	-	-	-	-	-	34	-	-	-	-
41	38	-	-	38	-	-	36	36	34	-	-	38	-	-	-
	37 Z	-	-	37 Z	-	-	35 Z	35 Z	34 Z	-	-	-	-	-	-
43	-	-	-	-	-	38	-	-	-	-	-	-	-	38	-
	-	-	-	-	-	37 Z	-	-	-	-	-	-	-	-	-
50	-	38	38	38	-	-	38	38	-	34	-	-	33	-	-
	45 Z	43 Z	43 Z	-	-	45 Z	43 Z	-	-	-	-	-	-	-	-
100	-	50*	-	-	-	-	-	-	-	-	-	-	-	-	-
Not specified	-	-	-	-	-	-	-	-	-	-	-	-	-	-	38

Materials of different series 400 pump types and standard combination with O-ring materials

		Pump type														
		F/FP 430					F/FP 424			F/FP 425			F 426		F/FP 427	MINIFLUX
Material pump		S	PP	PVDF	AL	HC	S	PP	PVDF	S	PP	HC	S	PP	S	S
Materials O-rings	NBR	-	-	-	x	-	-	-	-	-	-	-	-	-	-	-
	EPDM	o	o	-	-	-	-	-	-	-	-	-	-	-	-	-
	FKM	x	x	x	-	-	x	x	x	x	x	-	x	x	x	x
	FFKM	o	o	o	-	x	-	-	-	o	-	x	o	-	-	-

Other material combinations on request x = most common use o = optional

Connections

	Pump type						
	F/FP 430	F/FP 424	F/FP 425	F 426	F/FP 427	F 430 TR	MINIFLUX
Pressure joint	G 1 ¼ A FOOD: Clamp 1 ½"	G 1 ¼ A	G 1 ¼ A	G 1 ¼ A	G 1 ¼ A Rd 58x Clamp 1 ½"	G 1 ¼ A S: Clamp 1 ½" S: Clamp 1"	G 1 ¼ A
Inlet	-	-	-	-	-	G 2 A S: Clamp 2" S: Clamp 1 ½"	Union nut S60x6

Other connections on request

* Impeller used for special container pump F 430 PP 100/50 (see page 22)

Type designation Example	F 430 S- 41 / 38 - 1200
	Type Material Ø outer Ø impeller Immersion depth

Construction materials

Material	Characteristics
Stainless steel (S)	<ul style="list-style-type: none"> ▶ Alloys, 316 Ti resp. 316 L, with good corrosion resistance ▶ Used for shafts, pumps and hand nozzles ▶ For all neutral, not flammable media, as well as flammable media, acids and alkalis, solvents and typically for food, cosmetics and pharmacy ▶ Used in hazardous areas ▶ Operating temperature range up to approx. 212 °F (100 °C), in hazardous areas max. 104 °F (40 °C)
Hastelloy C (HC)	<ul style="list-style-type: none"> ▶ Nickel-Molybdenum-alloy with best corrosion resistance ▶ Used for shafts and pumps ▶ For highly flammable media, strong acids and alkalis as well as very aggressive media ▶ Used in hazardous areas if the chemical resistance of stainless steel is not sufficient ▶ Operating temperature range up to approx. 248 °F (120 °C), in hazardous areas max. 104 °F (40 °C)
Aluminium (AL)	<ul style="list-style-type: none"> ▶ Aluminium-alloy with 5 % magnesium (AlMg5) ▶ Used for pumps and hand nozzles ▶ Mostly for oils (diesel, hydraulic oil), drilling emulsions, but also for neutral, hardly flammable media ▶ Must not be used for highly flammable media as an electrically non-conductive oxide layer may form on the surface of the pump! ▶ Operating temperature range up to approx. 212 °F (100 °C)
Polypropylene (PP)	<ul style="list-style-type: none"> ▶ Thermoplastic plastic with a very good chemical resistance range ▶ Used for pumps and hand nozzles ▶ For acids, alkalis and neutral, not flammable liquids ▶ Operating temperature range up to approx. 122 °F (50 °C)
Polyvinylidene fluoride (PVDF)	<ul style="list-style-type: none"> ▶ Thermoplastic fluoroplastic with outstanding chemical resistance ▶ Used for pumps and hand nozzles ▶ For concentrated acids and neutral, non-flammable liquids ▶ Operating temperature range up to approx. 176 °F (80 °C)

O-ring materials

Material	Characteristics
NBR	<ul style="list-style-type: none"> ▶ Nitrile Butadien Rubber ▶ Good resistance against fuels and oils ▶ Not resistant against solvents ▶ In combination with pumps in aluminium
EPDM	<ul style="list-style-type: none"> ▶ Ethylene-Propylene-Diene-Monomer ▶ Good resistance against alkalis and some solvents ▶ Not resistant against fuels, oils or solvents ▶ In combination with pumps in PP and stainless steel
FKM	<ul style="list-style-type: none"> ▶ Fluoroelastomer ▶ Good resistance against acids and alkalis as well as many solvents ▶ In combination with pumps in PP, PVDF and stainless steel
FFKM	<ul style="list-style-type: none"> ▶ Perflurorubber type M ▶ Very good resistance against acids and alkalis as well as almost all solvents ▶ In combination with pumps in PVDF, stainless steel and HC



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 barrel 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 supplies pumps to almost one hundred countries world wide.

**FLUX PUMPS CORPORATION
BARREL & CONTAINER PUMPS**

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