





Drum and Container Pumps

New!
with even more powerful
drum pump motor FEM 4070

### FLUX Pumps: Perfection in Pumping





Do you want to transfer differing liquids quickly and economically? Do you want to measure out varying quantities?

Do you want to ensure total safety for the operator or the environment when pumping hazardous products?

Do you want a pump which can cope even with peak loadings?

Barrel and Container Pumps are used in almost every sector of the processing and manufacturing industries.

Initially designed for decanting and transfer operations of differing liquids from barrels and containers, current production time scales are now requiring these pumps to be used on applications with extended run times and frequent stopping and starting.

Whenever liquids are pumped out of a drum or container, FLUX can supply a unit of unsurpassed quality: all FLUX pumps are available in different materials. You can choose between a pump with a mechanical seal or a sealless version. One of the unique features of both, the Polypropylene and the PVDF mechanical seal version, is the steel cored inner tube providing, through increased lateral stability, a longer service life. Both, mixed centrifugal and axial impellers are available to suit differing head and flow applications. And if you want to combine the pumping and mixing operation FLUX also have the pump you need.

Another feature is the FLUX quick assembly system. This allows for simple and speedy pump strip down.

Of course, FLUX pumps require a powerful and reliable drive motor. A wide range of electric or compressed air motors provides a matched power unit throughout the pump range – even in hazardous locations or when pumping highly flammable liquids. To complete the comprehensive FLUX program, a wide range of top class accessories is available – from protection against emission of noxious vapours through to the volumetric measurement of liquids.



For further information to our pre-configured drum-pump kits see page 34



### **Table of Contents**



## New! Compact! Safe!

#### The drum pump motor FEM 4070 with

- Variable speed
- Overload protection
- Ergonomically designed handle
- Low noise level
- Advanced flow rate and much more ... see page 24



Which material goes best with which liquid	4
Design concepts of FLUX drum and container pumps	5 – 9
FLUX drum pumps (pump tube sets) in Stainless Steel (S), Aluminium Alloy (AL) and Hastelloy C (HC) in detail, together with performance charts	10 – 13
FLUX drum pumps (pump tube sets) in Polypropylene (PP) and Polyvinylidene fluoride (PVDF) in detail, together with performance charts	14 - 17
FLUX container pump (pump tube set) in Polypropylene (PP) in detail, together with performance chart	18
FLUX drum and container pumps for horizontal use FLUX quick action coupling	19
FLUX motor data in detail	20 – 27
Summary of FLUX motor – pump combination	28 - 29
Outline of FLUX drum and container pumps with accessories	30 – 31
Dimensions of FLUX drum pumps and drive motors	32 - 33

The great range of FLUX pumps

34 – 35

## FLUX Drum and Container Pumps – which material goes best with which liquid

#### Stainless Steel 1.4571/316 Ti (S) up to 212 °F

Suitable for highly flammable liquids (up to temperatures of class T4) as well as for all neutral and non-flammable, thin liquids like solvents, organic acids, dilute anorganic acids and alkalis.

#### Certified for use in Zone 0\*.

Examples of suitable liquids: acetone, alcohol, ammonia, petrol, flammable solvents, nitrocellulose varnishes, perchlorethylene, trichlorethylene, toluene, potassic alkali, soda alkali, phosphoric acid (up to 60 %), sulphuric acid (up to 7,5 % and more than 96 %), fruit juices, milk, salad oil and all liquids listed for aluminium alloy.

#### Hastelloy C (HC) up to 248 °F

Specially designed for pumping alternatively highly flammable and chemically aggressive liquids.

#### Certified for use in Zone 0\*.

Examples of suitable liquids: hydrofluoric acid, aqua regia, oleum, hydrochloric acid (up to 30 %), sulphuric acid, various mixed acids and all liquids listed for aluminium alloy and Stainless Steel.

#### Aluminium alloy AlMg5 (AL) up to 212 °F

Suitable for neutral, hardly flammable liquids. Examples of suitable liquids: drilling emulsion, diesel oil, fuel oil, hydraulic oil, non-flammable solvents, liquid soap, liquid wax, water.

#### Polypropylene (PP) up to 122 °F

Suitable for both, chemically aggressive and neutral liquids, together with hardly flammable liquids such as acids and alkalis.

Examples of suitable liquids: formic acid, ammonia, boric acid, chromic acid (up to 10 %), liquid fertilizers, acetic acid, photo developers, hydrofluoric acid (up to 70 %), fruit acids, potassic alkali, copper chloride, lactic acid, soda alkali, phosphoric acid, hydrochloric acid, sulphuric acid (up to 80 %), distilled water.

#### Polyvinylidene fluoride (PVDF) up to 212 °F

Suitable for both, chemically aggressive and neutral liquids, together with hardly flammable liquids such as acids and alkalis.

Examples of suitable liquids: hydrobromic acid, chromic acid, chloric acid, hydrofluoric acid, sodium hypochlorite, nitric acid (up to 75 %), sulphuric acid and all liquids listed for polypropylene (except soda alkali).

#### \*Zone 0



Area in which a hazardous and explosive atmosphere of gases, vapours or fogs exists permanently or for a long period of time. In general such conditions exist inside of drums or containers only.

The following pump models are tested and certified according to ATEX-Directive 94/9/EC, category 1/2, for transferring highly flammable liquids out of portable drums or containers in hazardous areas:

F 424 S – EC Type examination certificate PTB 00 ATEX 4108 X

F 425 S – EC Type examination certificate PTB 99 ATEX 4001 X

F 426 S – EC Type examination certificate PTB 00 ATEX 4109 X

F 430 S – EC Type examination certificate PTB 00 ATEX 4110 X

F 430 HC – EC Type examination certificate PTB 00 ATEX 4110 X

In selecting a pump model, please always check material of pump and material of seals for compatibility.

Due to the enormous variety and complexity of industrial chemicals, together with the range and variation of FLUX products, we can only list some of all the suitable liquids. But we would be glad to send you a detailed Resistance Chart.

A FLUX drum pump is always a "Two-Component-Team" consisting of a drive motor and a pump (tube set). Both component parts are universally interchangeable. For further details please see page 10 onwards.

## In good contact with the liquids: The sealless FLUX Pump F 424



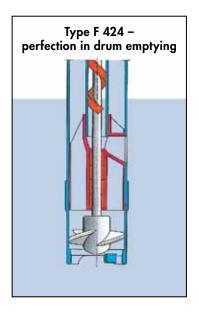
The liquids to be pumped are abrasive, but they do not leave any deposits. Dry running of the pump must not cause any problems. You are looking for a lightweight, general purpose pump in Stainless Steel, Polypropylene or Polyvinylidene fluoride.

The inner tube supports the pump shaft, which is lubricated by the liquid. The level of the liquid in the inner tube always corresponds to that in the drum or container.

#### Special advantages:

- Safe dry running of the pump
- No wearing of seals
- The liquid being pumped is not contaminated by the shaft lubricant
- Inner tube and helix shaped support bearings completely self-draining

Here a FLUX pump in sealless version is your pump.



Flexible coupling between motor and pump

O-ring to seal between inner and outer tube (not in the liquid section)

Radial shaft seals to prevent liquid and/or vapours entering the coupling area

Non-metallic helix shaped shaft support bearing

Pressure relief ports

Bottom bearing assembly which centers the shaft within the inner tube

Impeller in ETFE

Note: All FLUX drum pumps

are stripped for cleaning
with a minimum of effort.

## A shaft in a shell: The FLUX Pump F 430 with mechanical seal

Flexible coupling between motor and pump

Steel cored inner tube in PP and PVDF provides the ultimate in stability. This core prevents elongation of the plastics at high temperatures. This results in an extended service life of the mechanical seal

Packaging of the mechanical seal and rotary shaft seal adjacent to each other ensures the maximum integrity of the sealed inner tube

Impeller in ETFE

Note: For all other applications both designs – F 424 and F 430 – are equally suitable.

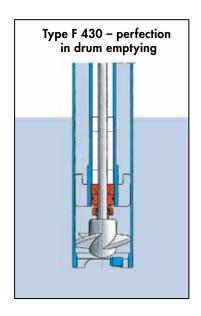
The pump must be used with many varying liquids, consequently the smallest residual left within the pump is unacceptable. You want to pump adhesive substances like paints or liquids which tend to crystallize or harden.

The inner tube houses the shaft. It is sealed at the bottom by a mechanical seal through which the shaft passes. Consequently the shaft does not come into contact with the liquid except for the small section between the impeller and seal.

#### Special advantages:

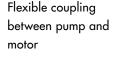
- The shaft support bearings are isolated from the liquid
- Steel cored inner tube in PP and PVDF pumps. This prevents elongation of the plastics, even at high temperatures
- Extended service life through well proven seal design

Here is the FLUX pump with mechanical seal the best choice.



## Most economical delivery: The FLUX Pump F 425 for emptying drums up to 99,98 %





Operating levers to close/open the flowback stop valve

Packaging of the mechanical seal and rotary shaft seal adjacent

Impeller in ETFE

Flowback stop valve

You are not prepared to accept any residual liquid in the drum in order to avoid problems and costs of disposal or to avoid losing high value liquids.

Before the motor is switched off, the flowback stop valve at the pump inlet must be closed by operating the lever. This prevents the liquid flowing back into the empty drum.

#### Special advantages:

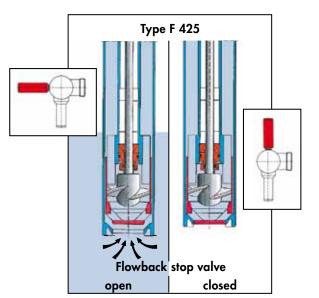
- Especially easy operating of the pump
- Optimum use of the liquids
- Remains of less than 0,05 l

Here the FLUX Pump F 425 for emptying drums up to 99,98 % is your pump.

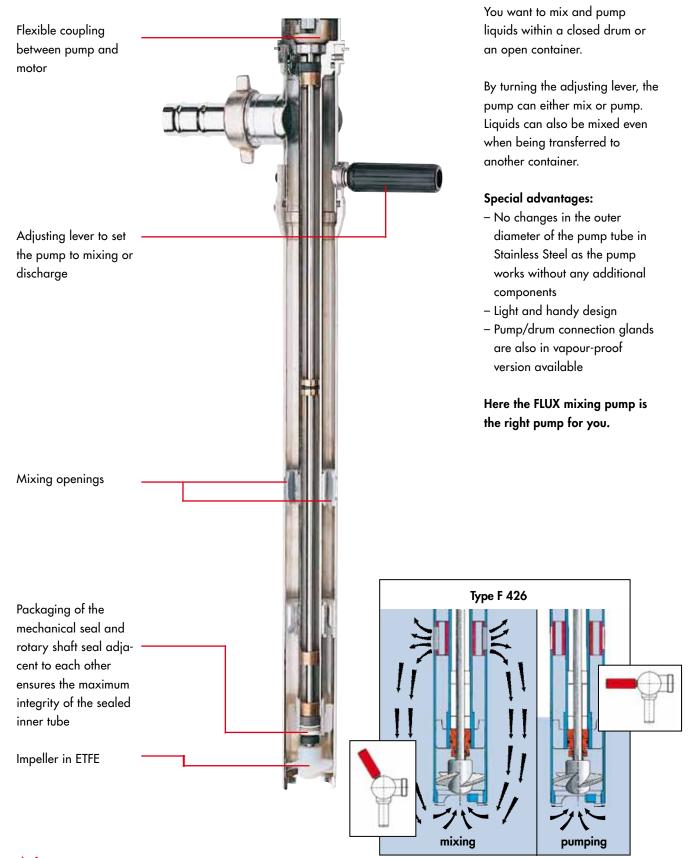
to each other ensures the maximum integrity of the sealed inner tube

Note: All FLUX drum pumps

are stripped for cleaning with a minimum of effort.



## An excellent mixture: The FLUX mixing Pump F 426



All FLUX drum pumps

are stripped for cleaning
with a minimum of effort.

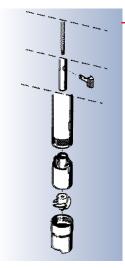
### Pure culture in pumping: The FLUX sanitary Pump F 427





Quick Action Coupling
SSK 400 allows a quick
assembly/disassembly of
motor and pump (not included
with the pump – see page 19)

Shaft seal to prevent liquids and/or vapours entering the coupling area



Easy to strip down

- Easy to clean!

FLUX facilitates aseptic pumping of delicate products. The sanitary pump can be stripped down within a few seconds because of its ingenious design.

The F 427 does not have any inaccessible voids. This allows you to completely clean the pump at any time.

Pressure relief ports

Bottom bearing assembly which centers the shaft within the inner tube

Impeller in ETFE or in stainless steel

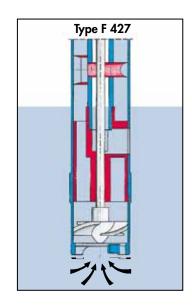
Closed bearing in PTFE assures safe guiding of the pump You want a safe pumping of food, cosmetic or pharmaceutical products. The operating conditions require an easy and quick cleaning or sterilization of the pump at regular intervals to avoid any contamination of the product, e.g. when pumping varying liquids or different colours as well as quick-drying or film forming liquids.

The efficient FLUX sanitary pump has been especially designed for aseptic applications.

#### Special advantages:

- All wetted parts are made of Stainless Steel, PTFE or ETFE
- The pump can be quickly stripped down for cleaning or sterilization
- Negligible wear by friction on seals and bearings

Here a FLUX sanitary pump is your pump.



Note: All FLUX drum pumps

are stripped for cleaning
with a minimum of effort.

### FLUX drum Pumps in Stainless Steel

FLUX drum pumps in Stainless Steel 316 Ti – except sanitary pump F 427 S – are approved according to ATEX-Directive 94/9/EC for use in Zone 0, temperature class T4, for transferring highly flammable liquids out of portable drums or containers.

With the help of the performance charts you can compare the delivery rates achieved by each pump model powered by the various FLUX motors. Detailed motor data are shown on pages 21 to 29.

When using the pump with a discharge hose (of approx. 6,5 ft) and a hand nozzle, the delivery rate will be approx. 18 GPM.

Depending on the motor type a 55 GAL drum can be emptied within 3 – 4 minutes.

The delivery rates shown in the performance charts are obtained at the outlet connection of the pump.

Special version for horizontal use on request.





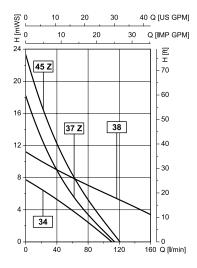
This pump version will achieve a higher delivery rate!



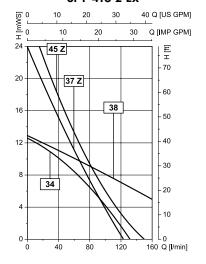
This pump version will achieve a higher delivery head!

Max. viscosity per pump and motor, please see pages 28 and 29.

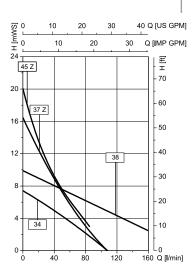
#### Motor FBM 4000 Ex



#### Motor F 416 Ex, F 416-1 Ex or F 416-2 Ex



#### Motor FEM 4070





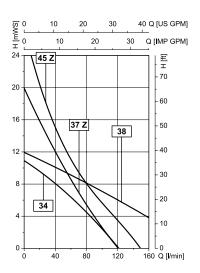
#### Drum Pump (tube set) in Stainless Steel, thread on outlet G 11/4 A (BSP 11/4" male), motors on page 21

Type/ <u>Curve</u>	F 424 S-43/ <u>38</u>		F 424 S-43/37	<u> </u>	F 42	<mark>24 S-50/<u>45 Z</u></mark>		
Version	4→	1		<b>∱</b> ⊾		<b>t</b> ₊		
Seal type		sealless						
Material	!	shaft in Stainless Steel 316 Ti, impeller in ETFE, o-ring in FKM						
Max. temperature			21	2 °F				
Outer Ø	1 11/16"		111/16"		2″			
Part No./Weight								
Immersion length 27"	<b>424 20 007</b> / 4,85 lbs		424 20 107 /	4,85 lbs	424	<b>20 207</b> / 6,61 lbs		
Immersion length 39"	<b>424 20 010</b> / 6,39 lbs		424 20 110 /	6,39 lbs	424	<b>20 210</b> / 8,81 lbs		
Immersion length 47"	<b>424 20 012</b> / 7,27 lbs		424 20 112 /	7,27 lbs	424	<b>20 212</b> / 10,6 lbs		
Type/Curve_	F 425 S-41/ <u>34</u> *		F 426 S-41/38	<u>3</u>	F 42	<mark>27 \$3-43/<u>38</u></mark>		
Version	99,98 % drum emptying		Mixing pump		San	itary pump		
Seal type	mechanical seal ir	n ceramic oxi	de, PTFE/carbon	, o-rings in FKM	seal	less		
Material	shaft in Stainles	shaft in Stainless Steel 316 Ti, seal in FKM, impeller in ETFE						
Max. temperature			21	2 °F				
outer Ø	1 19/32"		119/32"		111/1	111/16"		
Part No./Weight								
Immersion length 27"	<b>425 20 008</b> / 6,61 lbs		-			<b>427 20 307</b> / 6,61 lbs		
Immersion length 39"	<b>425 20 011</b> / 8,37 lbs		<b>426 20 010</b> / 8,37 lbs		427	<b>427 20 310</b> / 6,39 lbs		
Immersion length 47"	<b>425 20 013</b> / 9,70 lbs		<b>426 20 012</b> / 9,70 lbs		<b>427 20 312</b> / 7,27 lbs			
Type/Curve	F 430 S-41/ <u>38</u>	F 430 S-4	1/ <u>37 Z</u>	F 430 S-50/45 Z		F 430 S-50/38		
Version	<b>1</b> →	<b>↑</b>	<b>-</b>	<b>t</b> ₊	1			
Seal type	m	echanical se	al in ceramic oxi	de, PTFE/carbon, o-rir	ngs in F	-KM		
Material		shaft in Stair	nless Steel 316 Ti	, seal in FKM, impelle	r in ETF	E		
Max. temperature		212 °F						
Outer-Ø	119/32"	119/32" 119/32"		2"		2″		
Part No./Weight								
Immersion length 27"	430 20 107 / 5,29 lbs	430 20 40	407 / 5,29 lbs 430 20 207 / 7,49		lbs	430 20 307 / 7,49 lbs		
Immersion length 39"	<b>430 20 110</b> / 6,61 lbs	430 20 41	<b>10</b> / 6,61 lbs	<b>430 20 210</b> / 9,92	lbs	430 20 310 / 9,92 lbs		
Immersion length 47"	<b>430 20 112</b> / 7,93 lbs	430 20 41	<b>2</b> / 7,93 lbs	<b>430 20 212</b> / 11,40	6 lbs	430 20 312 / 11,46 lbs		

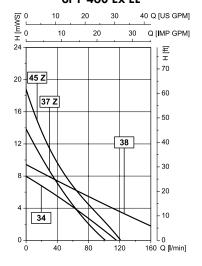
Pump models in immersion lengths of 8 - 118" (in steps of 4") on request

\*Model for higher delivery head on request.

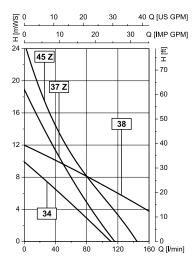
#### Motor F 457 or F 457 EL



## Motor F 458, F 458 EL, F 460 Ex or F 460 Ex EL



#### Motor F 458-1 or F 460-1 Ex



## FLUX drum Pumps in Aluminium Alloy and Hastelloy C

FLUX drum pumps in aluminium alloy AlMg5 are suitable for transferring neutral, hardly flammable liquids.

FLUX drum pumps in Hastelloy C are approved according to ATEX-Directive 94/9/EC for use in Zone 0, temperature class T4, for transferring highly flammable liquids out of portable drums or containers. In addition, Hastelloy C is chemically resistant to most of acids and alkalis, allowing the most universal use of this pump type.

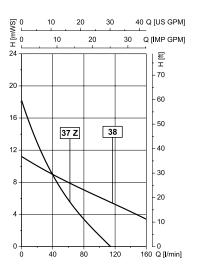
With the help of the performance charts you can compare the delivery rates achieved by each pump model powered by the various FLUX motors. Detailed motor data are shown on pages 21 to 29.

When using the pump with a discharge hose (of approx. 6,5 ft) and a hand nozzle, the delivery rate will be approx. 18 GPM. Depending on the motor type a 55 GAL drum can be emptied within 3 – 4 minutes.

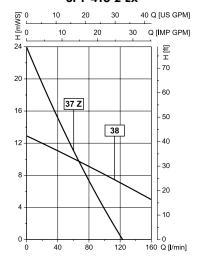
The delivery rates shown in the performance charts are obtained at the outlet connection of the pump.



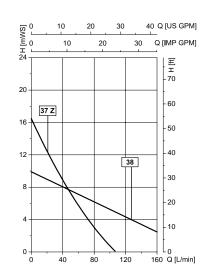
#### Motor FBM 4000 Ex



#### Motor F 416 Ex, F 416-1 Ex or F 416-2 Ex



#### Motor FEM 4070





#### Drum Pump (tube set) in Aluminium Alloy, thread on outlet G 11/4 A (BSP 11/4" male), motors on page 21

Type/Curve	F 430 AL-41/ <u>38</u>	F 430 AL-41/ <u>37 Z</u>	F 430 AL-50/ <u>38</u>				
Version	<b>↑</b>	<b>↑</b>	<b>↑</b>				
Seal type	mechanical seal in ceramic oxide, PTFE/carbon, o-rings in NBR						
Material	shaft in Stainless Steel 316 Ti, seal in NBR, impeller in ETFE						
Max. temperature		212 °F (for short periods)					
Outer-Ø	119/32"	1 19/32"	2"				
Part No. / Weight							
Immersion length 27"	<b>430 10 107</b> / 2,64 lbs	<b>430 10 407</b> / 2,64 lbs	<b>430 10 307</b> / 3,30 lbs				
Immersion length 39"	<b>430 10 110</b> / 3,30 lbs	<b>430 10 410</b> / 3,30 lbs	<b>430 10 310</b> / 3,96 lbs				
Immersion length 47"	<b>430 10 112</b> / 3,74 lbs	<b>430 10 412</b> / 3,74 lbs	<b>430 10 312</b> / 4,63lbs				

Pump models in immersion lengths of 8 - 78" (in steps of 4") on request.

#### Drum pump (tube set) in Hastelloy C, thread on outlet G 11/4 A, (BSP 11/4" male), without motor

Type/ <u>Curve</u>	F 430 HC-40/ <u>38</u>
Version	<b>↑</b> →
Seal type	mechanical seal in ceramic oxide, PTFE/carbon, o-rings in FFKM
Material	shaft in Hastelloy C, seal in FFKM, impeller in ETFE
Max. temperature	248 °F
Outer-Ø	1%6"
Part No. / Weight	
Immersion length 27"	430 30 107 / 5,07 lbs
Immersion length 39"	430 30 110 / 6,61 lbs
Immersion length 47"	430 30 112 / 7,71 lbs

Other immersion lengths on request.



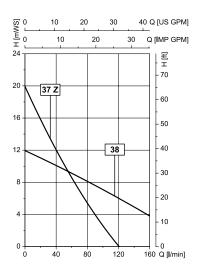
This pump version will achieve a higher delivery rate!



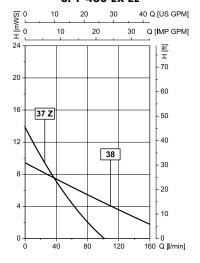
This pump version will achieve a higher delivery head!

Max. viscosity per pump and motor, please see pages 28 and 29.

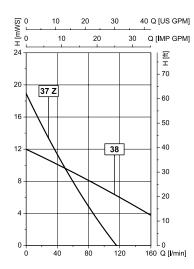
#### Motor F 457 or F 457 EL



## Motor F 458, F 458 EL, F 460 Ex or F 460 Ex EL



#### Motor F 458-1 or F 460-1 Ex



## FLUX drum Pumps in Polypropylene

FLUX drum pumps in Polypropylene are used for both chemically aggressive and hardly flammable liquids such as acids and alkalis, together with most thin and neutral liquids.

With the help of the performance charts you can compare the delivery rates achieved by each pump model powered by the various FLUX motors.

Detailed motor data are shown on pages 21 to 29.

When using the pump with a discharge hose (of approx. 6,5 ft) and a hand nozzle, the delivery rate will be approx. 18 GPM. Depending on the motor type a 55 GAL drum can be emptied within 3 – 4 minutes. The delivery rates shown in the performance charts are obtained at the outlet connection of the pump.

Special version for horizontal use on request.





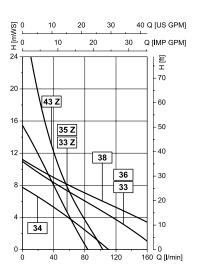
This pump version will achieve a higher delivery rate!



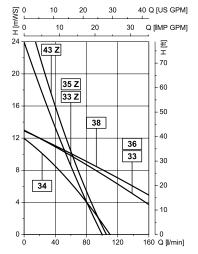
This pump version will achieve a higher delivery head!

Max. viscosity per pump and motor, please see pages 28 and 29.

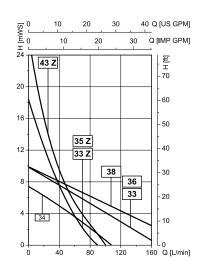
#### Motor FBM 4000 Ex



## Motor F 416 Ex, F 416-1 Ex or F 416-2 Ex



#### Motor FEM 4070



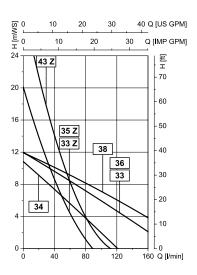


#### Drum Pump (tube set) in Polypropylene, thread on outlet G $1\frac{1}{4}$ A (BSP $1\frac{1}{4}$ " male), motors on page 21

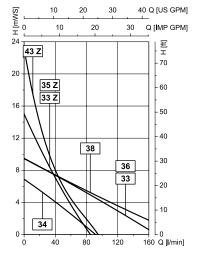
Type/ <u>Curve</u>	F 424 PP-41/ <u>36</u>	F 424 PP-41/ <u>35 Z</u>	F 424 PP-50/ <u>38</u> F 424 PP-50/ <u>43 Z</u>					
Version	<b>≜</b> →	<b>↑</b>	<b>1</b>	<b>↑</b>				
Seal type		sealless within the liquid section						
Material		shaft in Hastelloy C, impeller in ETFE, o-ring in FKM						
Max. temperature		122	2°F					
Outer-Ø	119/32"	119/32" 119/32"		2"				
Part No. / Weight								
Immersion length 27"	<b>424 40 007</b> / 1,76 lbs	<b>424 40 107</b> / 1,76 lbs	<b>424 40 207</b> / 1,98 lbs	<b>424 40 307</b> / 1,98 lbs				
Immersion length 39"	<b>424 40 010</b> / 2,20 lbs	<b>424 40 110</b> / 2,20 lbs	<b>424 40 210</b> / 2,86 lbs	<b>424 40 310</b> / 2,86 lbs				
Immersion length 47"	<b>424 40 012</b> / 2,64 lbs	<b>424 40 112</b> / 2,64 lbs	<b>424 40 212</b> / 3,53 lbs	<b>424 40 312</b> / 3,53 lbs				
Type/ <u>Curve</u>	F 425 PP-50/ <u>34</u>		F 426 PP-50/ <u>33</u>					
Version	99,98 % drum emptying		mixing pump					
Seal type	me	echanical seal in ceramic oxid	le, PTFE/carbon, o-rings in F	KM				
Material		shaft in Hastelloy C, seal	in FKM, impeller in ETFE					
Max. temperature		122	2 °F					
Outer-Ø	2″		2″					
Part No. / Weight								
Immersion length 27"	<b>425 40 048</b> / 3,53 lbs		-					
Immersion length 39"	<b>425 40 051</b> / 4,41 lbs		<b>426 40 001</b> / 3,97 lbs					
Immersion length 47"	<b>425 40 053</b> / 5,07 lbs		<b>426 40 002</b> / 4,63 lbs					
Type/ <u>Curve</u>	F 430 PP-40/ <u>33</u>	F 430 PP-40/ <u>33 Z</u>	F 430 PP-50/ <u>43 Z</u>	F 430 PP-50/ <u>38</u>				
Version	<b>↑</b>	<b>↑</b>	<b>↑</b>	<b>↑</b>				
Seal type	me	echanical seal in ceramic oxid	le, PTFE/carbon, o-rings in F	KM				
Material		shaft in Hastelloy C, seal	in FKM, impeller in ETFE					
Max. temperature		122	2 °F					
Outer-Ø	1%16"	1%16"	2"	2″				
Part No. / Weight								
Immersion length 27"	<b>430 40 107</b> / 2,42 lbs	<b>430 40 407</b> / 2,42 lbs	<b>430 40 207</b> / 2,42 lbs	<b>430 40 307</b> / 2,42 lbs				
Immersion length 39"	<b>430 40 110</b> / 3,08 lbs	<b>430 40 110</b> / 3,08 lbs <b>430 40 410</b> / 3,08 lbs		<b>430 40 310</b> / 3,30 lbs				
Immersion length 47"	<b>430 40 112</b> / 3,53 lbs	<b>430 40 412</b> / 3,53 lbs	<b>430 40 212</b> / 3,75 lbs	<b>430 40 312</b> / 3,75 lbs				
Accessories Hose connection	ction complete with nut G 11/4	DN 19 <b>Part No. 959 04 053</b>	DN 25 <b>Part No. 959 04 (</b>	052				

Pump models in immersion lengths of  $8-118^{\prime\prime}$  mm (in steps of  $4^{\prime\prime}$ ) on request.

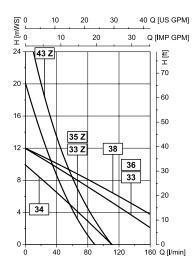
#### Motor F 457 or F 457 EL



## Motor F 458, F 458 EL, F 460 Ex or F 460 Ex EL



#### Motor F 458-1 or F 460-1 Ex



## FLUX drum Pumps in Polyvinylidene fluoride

FLUX drum pumps in Polyvinylidene fluoride are used for both chemically aggressive and hardly flammable liquids such as acids and alkalis, together with most thin and neutral liquids.

With the help of the performance charts you can compare the delivery rates achieved by each pump model powered by the various FLUX motors.

Detailed motor data are shown on pages 21 to 29.

When using the pump with a discharge hose (of approx. 6,5 ft) and a hand nozzle, the delivery rate will be approx. 18 GPM. Depending on the motor type a 55 GAL drum can be emptied within 3 – 4 minutes. The delivery rates shown in the performance charts are obtained at the outlet connection of the pump.





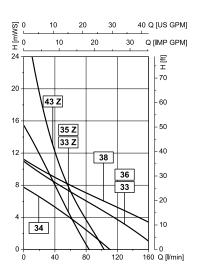
This pump version will achieve a higher delivery rate!

**L** 

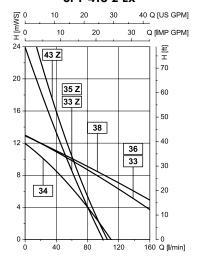
This pump version will achieve a higher delivery head!

Max. viscosity per pump and motor, please see pages 28 and 29.

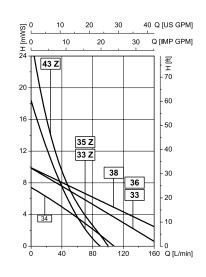
#### Motor FBM 4000 Ex



#### Motor F 416 Ex, F 416-1 Ex or F 416-2 Ex



#### Motor FEM 4070



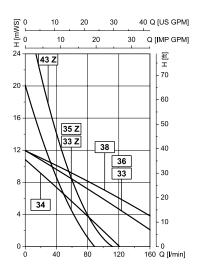


#### Drum Pump (tube set) in Polyvinylidene fluoride, thread on outlet, G 11/4 A (BSP 11/4" male), motors on page 21

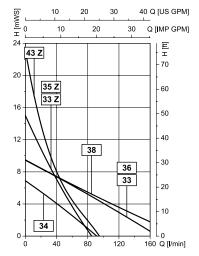
Type/ <u>Curve</u>	F 424 PVDF-41/36		F 424 PVDF-41/	<u> 35 Z</u>	F 424 I	F 424 PVDF-50/38	
Version	<b>↑</b>		<b>t</b> ₊		<b>1</b> →		
Seal type		sealless					
Material		shaft ii	n Hastelloy C, imp	eller in ETFE, o-ring	j in FKM		
Max. temperature			17	76 °F			
Outer-Ø	119/32"		1 19/32"		2″		
Part No. / Weight							
Immersion length 27"	<b>424 60 007</b> / 2,42 lbs	3	<b>424 60 107</b> / 2	,42 lbs	424 60	<b>207</b> / 3,08 lbs	
Immersion length 39"	<b>424 60 010</b> / 3,08 lbs	5	<b>424 60 110</b> / 3	,08 lbs	424 60	4 60 210 / 4,18 lbs	
Immersion length 47"	<b>424 60 012</b> / 3,53 lbs	<b>424 60 012</b> / 3,53 lbs <b>424 60 112</b> / 3,53 lbs		<b>424 60 212</b> / 4,85 lbs			
Type/Curve	F 430 PVDF-40/ <u>33</u>	F 430 PV	OF-40/ <u>33 Z</u>	F 430 PVDF-50/4	13 <u>Z</u>	F 430 PVDF-50/38	
Version	<b>1</b> →	Ł,	•	1.		4→	
Seal type	med	chanical sec	eal in ceramic oxide, PTFE/carbon, o-rings in FKM				
Material		shaft in	Hastelloy C, seal i	n FKM, impeller in	ETFE		
Max. temperature			176	°F			
Outer-Ø	1%16"	1%16"		2″		2″	
Part No. / Weight							
Immersion length 27"	<b>430 60 107</b> / 3,08 lbs	430 60 4	.07 / 3,08 lbs	<b>430 60 207</b> / 3,	.08 lbs	<b>430 60 307</b> / 3,75 lbs	
Immersion length 39"	<b>430 60 110</b> / 3,75 lbs	430 60 4	10 / 3,75 lbs	<b>430 60 210</b> / 3,75 lbs		430 60 310 / 4,63 lbs	
Immersion length 47"	<b>430 60 112</b> / 4,41 lbs	430 60 4	<b>12</b> / 4,41 lbs	430 60 212 / 4,41 lbs 4		430 60 312 / 5,51 lbs	
Accessories Hose connection w	rith nut G 1¼ DN 19 <b>Pa</b>	rt No. 959	04 101 DN 25 I	Part No. 959 04 10	02		

Pump models in immersion lengths of  $8-118\mbox{\ensuremath{"}}$  (in steps of  $4\mbox{\ensuremath{"}}$ ) on request.

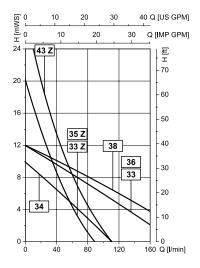
#### Motor F 457 or F 457 EL



#### Motor F 458, F 458 EL, F 460 Ex or F 460 Ex EL



#### Motor F 458-1 or F 460-1 Ex

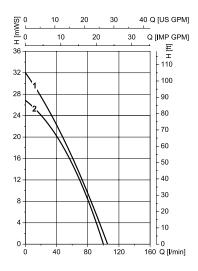


## FLUX Container Pump in Polypropylene in detail

The powerful, extremely lightweight and easy-to-handle solution for transferring corrosive acids and alkalis and almost every thin and hardly flammable liquid out of larger containers: FLUX container pump type F 430 PP-100/50 in Polypropylene. Especially designed for emptying 250 GAL-Containers, this pump provides the high safety and ease of handling you do appreciate on FLUX drum pumps.

The use of this pump allows to dispense with floor drains, to minimize leakage risks and to eliminate residual liquid within suction pipes and subsequent handling cost. A compression gland or a vapor-proof gland always secures the pump in a vertical position within the dome of the container.

Depending on the motor type, this pump will achieve a maximum delivery rate of 28 GPM and a maximum delivery head of 105 ft liquid column in transferring liquids up to a maximum viscosity



FLUX Container Pump F 430 PP-100/50 in combination with

- 1 = Commutator motor Type F 457/F 458-1
- 2 = Three-phase gearmotor Type F 414

Detailed motor data see pages 21 to 29

Values  $\pm$  10% with water (68 °F) and a voltage of 230 Volt.





Container pump (tube set) in Polypropylene, thread on outlet G 11/4 A (BSP 11/4" male), motors on page 21

Туре	F 430 PP-100/50
Version	with impeller
Seal type	mechanical seal in ceramic oxide, PTFE/carbon, o-rings in FKM
Material	shaft in Hastelloy C, seal in FKM, impeller in Polypropylene
Max. temperature	122 ° F
Outer-Ø	4" on the pump body
Part No./Weight	
Immersion length 39"	430 40 510 / 5 lbs
Immersion length 47"	430 40 512 / 5 lbs
Immersion length 60"	430 40 515 / 6 lbs
Accessories Hose connection	with nut G 1¼ DN 25 Part No. 959 04 052 DN 32 Part No. 959 04 054

## Centrifugal Pumps for horizontal and vertical use



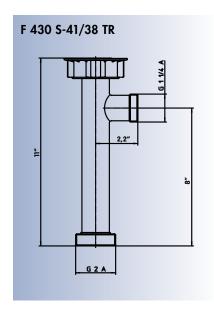
#### Centrifugal Pumps for horizontal and vertical use

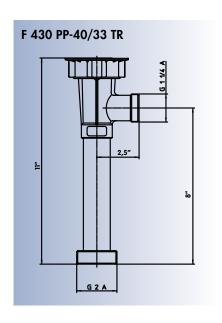
Туре	F 430 S-41/38 TR	F 430 PP-40/33 TR			
Seal type	mechanical seal in ceramic oxide, PTFE/carbon, o-rings in FKM	mechanical seal in ceramic oxide, PTFE/carbon, o-rings in FKM			
Material	Stainless Steel 316 Ti, seal in FKM, impeller in ETFE	Polypropylene, shaft in Hastelloy C, seal in FKM, impeller in ETFE			
Dimensions	nensions see dimensional drawing				
Max. temperature	212 °F	122 °F			
Outer-Ø	119/32"	1%6″			
Part No. / Weight	<b>430 20 002</b> / 3 lbs	<b>430 40 002</b> / 1,3 lbs			
Hose connections com	plete for inlet				
Material	Stainless Steel 316 Ti with brass nut G 2	Polypropylene with nut G 2			
DN 32	959 04 059	959 04 010			
DN 38	959 04 060	959 04 011			

You will find the suitable motors and performance charts for the pump F 430 S-41/38 TR on page 10 and 11, for the pump F 430 PP-40/38 TR on page 14 and 15.

#### **Dimensions**







## FLUX quick action coupling SSK 400

FLUX Quick Action Coupling Type SSK 400 suits all FLUX drum and container pumps Type F 424, F 425, F 426, F 427 and F 430 and allows a quick assembly/disassembly of pump and motor within a few seconds only. This allows the use of several pump tube sets with one drive motor only. The quick action coupling SSK 400 consists of a clamping element which is mounted onto the pump tube set and a threaded ring which is screwed onto the drive motor.

Туре		Part No.
Quick Action Coupling SSK 400 complete	consisting of threaded ring (motor side) and clamping element (pump side)	001 10 802
or as individual parts:		
Threaded ring	to be screwed onto the drive motor	001 10 800
Clamping element	to be mounted onto the pump tube set	001 10 804





## FLUX brushless motor FBM 4000 Ex in detail



The brushless motor Type FBM 4000 Ex is featuring a compact design, a robust double shell housing in aluminium and a very low noise level. The explosion-proof motor is tested and certified according to the latest ATEX-Directive 94/9/EC.

EC-Type-Examination Certificate PTB 03 ATEX 1042. The combined on/off switch and easy to use speed controller allow precise dispensing operations. Electronic monitoring of speed, voltage and temperature.

An integral no-volt release monitors the power and prevents unintentional re-start of the pump. This feature ensures additional safety for the user. Due to negligible wear, the brushless motor design guarantees lowest cost of ownership, even with continuous use.



**Brushless motor**, explosion-proof to II 2 G EEx de IIC T5, protection class I. Jet-proof according to IP 55. With power supply cable, 16" long, with safety plug (not explosion-proof).

Туре	Capacity	Voltage	Frequency	Weight	Part No. Version	
ALEX					with no-volt release safety circuit	
FBM 4000 Ex	600 W	230 V	50 – 60 Hz	13,66 lbs	400 01 000	
Accessories	Accessories Part No.					
Carrying handle	allowing easy immersion and removal of the pump				001 10 557	

## FLUX commutator motor F 460 Ex in detail

Explosion-proof commutator motor Type F 460 Ex featuring a compact design, a robust double shell housing in aluminium and a very low noise level. Tested and certified according to ATEX-Directive 94/9/EC.

Type F 460 Ex EL, 230 Volt, with infinitely variable speed control included in the switch knob for an easy control of the delivery rate.

EC-Type-Examination Certificate PTB 97 ATEX 1035.

An improved ventilation system provides optimal cooling and ensures an extended service life.

Additional safety by an integral no-volt release to prevent from any unintentional re-starting after a voltage discontinuity.

The commutator motor Type F 460-1 Ex is identical with Type F 460 Ex, but has a considerably higher capacity of 700 Watt. This model is recommended for applications requiring a higher delivery rate or when transferring medium viscosity products or liquids with a higher density.

120 V, 60 Hz version UL-listed, File No. E67399, class I, group C + D.



**Commutator motor**, explosion-proof to II 2 G EEx de IIC T6, protection class I in 230, 240 or 110 Volt, protection class III in 42, 24 or 12 Volt. Jet-proof according to IP 55, version with no-volt release, with power supply cable, 16" long, with safety plug (not explosion-proof). – 42, 24 and 12 Volt version without plug.

Туре	Capacity	Voltage	Frequency	Weight	Part I	<b>No.</b> Version
AtEx					with variable speed control	without variable speed control
F 460 Ex UL	460 W	120 V	60 Hz	11,24 lbs	-	460 00 031
F 460 Ex	460 W	230 V	50 – 60 Hz	11,24 lbs	-	460 00 026
F 460 Ex	410 W	24 V	DC	11,24 lbs	-	460 00 003
F 460 Ex	230 W	12 V	DC	11,24 lbs	-	460 00 004
F 460 Ex EL	230 W	230 V	50 Hz	11,24 lbs	460 00 028	-
F 460-1 Ex UL	700 W	120 V	60 Hz	13,00 lbs	-	460 01 024
F 460-1 Ex	700 W	230 V	50 – 60 Hz	13,00 lbs	-	460 01 001
Accessories					Part No.	
Earth (ground) wire with crocodile clip	6,6 ft long 6,6 ft long, rei 9,8 ft long	nforced version	931 90 008 931 90 015 931 90 013			
Carrying handle	allowing easy immersion and removal of the pump in combination with commutator motors Type F 460 Ex, F 460 Ex EL, F 460-1 Ex or FBM 4000 Ex.				001 10 557	

## FLUX commutator motor F 458 in detail



Commutator motor Type F 458 featuring a compact design, a robust double shell housing in aluminium and a very low noise level.

Type F 458 EL, 230 Volt, with infinitely variable speed control included in the switch knob for an easy control of the delivery rate. An improved ventilation system provides optimal cooling and ensures an extended service life. Totally enclosed, fan cooled motor design and special corrosion resistant painting, making these models particularly suitable for use in corrosive, vapour laden atmospheres.

Additional safety by an integral no-volt release to prevent from any unintentional re-starting after a voltage discontinuity.

The commutator motor Type F 458-1 is identical with Type F 458, but has a considerably higher capacity of 700 Watt. This model is recommended for applications requiring a higher delivery rate or when transferring products with a medium viscosity or liquids with a higher density.

120 V, 60 Hz version approved to CSA standards, File No. LR 39984-7.



**Commutator motor**, special corrosion-resistant painting, protection class I in 240, 230 and 110 Volt. Protection class III in 24 or 12 Volt, Jet-proof according to IP 55, with no-volt release, power supply cable, 16" long, and safety plug. – 24 and 12 Volt version without plug.

Туре	Capacity	Voltage	Frequency	Weight	Part	<b>No.</b> Version
					with variable speed control	without variable speed control
F 458 CSA	460 W	120 V	60 Hz	11,24 lbs	-	458 00 026
F 458	460 W	230 V	50 – 60 Hz	11,24 lbs	-	458 00 025
F 458	410 W	24 V	DC	11,24 lbs	-	458 00 003
F 458	230 W	12 V	DC	11,24 lbs	-	458 00 004
F 458 EL	460 W	230 V	50 Hz	11,24 lbs	458 00 027	-
F 458-1 CSA	700 W	120 V	60 Hz	13,00 lbs	-	458 01 021
F 458-1	700 W	230 V	50 – 60 Hz	13,00 lbs	-	458 00 020
Accessories						
Carrying handle	allowing easy immersion and removal of the pump in combination with commutator motors Type F 458, F 458 EL or F 458-1			001 10 557		

Note: For transferring highly flammable liquids and for use in hazardous areas explosion-proof motors must be used.

### FLUX commutator motors FEM 4070 and F 457 in detail

The new fully electronic adjustable drum pump motor New FEM 4070 with integrated no-volt release ensures optimum safety during the filling process. The 500 Watt power pack is equipped with 4 speed ranges. The ergonomically designed handle ensures a safe one-handed operation of the rotary switch for starting the pump and choosing the speed ranges via the touch button.

Additional benefits for the new FEM 4070:

- Electronic adjustable, complete overload protection in all 4 speed ranges
- Motor with no-volt release, thus ensuring optimum safety during the filling process
- 500 Watt electronic adjustable power pack with 4 speed
- Preset speed range remains in case of a re-start
- Lifting eye for use with inertia hoist
- Automatically filling process within defined flow rates in conjunction with our FLUX flow meters
- Speed range adjustment via touch button
- Compact design
- Low noise level
- High durability
- Modern, application-oriented design
- Safe starting by rotary switch
- Favourable efficiency weight
- Advanced flow rate
- The motor can be combined with Stainless steel, Aluminium, Hastelloy C, Polypropylene and PVDF pumps
- For transferring neutral, aggressive, non flammable liquids





Powerful commutator motor Type F 457 featuring a compact design, an optimal cooling system, a low noise level and an extended service life.

Extremely light-weight and easy to handle, allowing a most universal use with neutral, corrosive, hardly flammable liquids.

Type F 457 EL with infinitely variable speed control device for an easy control of the delivery rate.



#### Commutator motor FEM 4070

double isolated according to protection class II, IP 24 splash-proof, with electronic and thermal overload protection, electronic adjustable power pack with 4 speed ranges, 16" cable and plug.

Туре	Capacity	Voltage	Frequency	Weight	Part No. Version			
					with no-volt release	without no-volt release		
FEM 4070	500 W	120 V	60 Hz	5,8 lbs	407 01 012	407 01 013		
FEM 4070	500 W	230 V	50 – 60 Hz	5,8 lbs	407 01 023	-		

#### Commutator motor F 457

double isolated according to protection class II, IP 24 splash-proof, with power supply cable,  $16^{\prime\prime}$  long and 2-pole plug.

Туре	Capacity	Voltage	Frequency	Weight	Part N	Part No. Version			
					with no-volt release, with variable speed control	with no-volt release, without variable speed control			
F 457	800 W	120 V	60 Hz	8,82 lbs	-	457 01 000			
F 457 EL	800 W	120 V	60 Hz	8,82 lbs	457 01 001	-			
F 457	800 W	230 V	50 – 60 Hz	8,82 lbs	-	457 01 037			
F 457 EL	800 W	230 V	50 – 60 Hz	8,82 lbs	457 01 003	-			

Other voltages and/or frequencies on request.

Accessories		Part No.
Carrying handle	allowing an easy immersion and removal of the pump. In combination with commutator motor F 457 or F 457 EL	001 10 533

Note: For transferring highly flammable liquids and for use in hazardous areas explosion-proof motors must be used.

## FLUX three-phase gearmotor F 414 in detail

The robust three-phase gearmotor F 414 is especially designed for extreme operating conditions and extended operating periods.



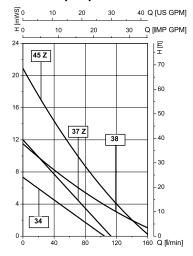
**Three-phase Gearmotor**, protection class I, jet-proof to IP 55, available with motor protection switch or with cable terminal box, without power supply cable.

Туре	Capacity	Voltage	Frequency Range of setting protection switch		Weight		t No. rsion
						with motor protec- tion switch, mount- ed on the motor	without motor pro- tection switch, with cable terminal box
F 414	0,55 kW	230/400 V	50 Hz	0,9 - 1,6 A	19/18 lbs	414 01 112	414 01 110
F 414	0,75 kW	230/400 V	50 Hz	1,5 - 2,5 A	25/23 lbs	414 01 123	414 01 122
F 414	1,1 kW	230/400 V	50 Hz	2,4 - 3,5 A	28/26 lbs	414 01 131	414 01 130

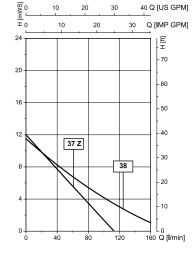
Other voltages and/or frequencies on request.

Accessories:		Part No.
Carrying handle	allowing an easy immersion and removal of the pump in combination with the Three-phase Gearmotor F 414	001 10 582
Power supply cable	934 08 020	
Power supply cable	16 ft long, without plug	934 08 025
Power supply cable	yard ware	934 08 901
Cekon plug	5-pole	937 01 014

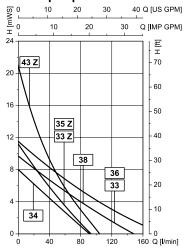
## Motor F 414 in combination with drum pump in Stainless steel



## Motor F 414 in combination with drum pump in Aluminium and Hastelloy C



## Motor F 414 in combination with drum pump in PP and PVDF



### FLUX air motors F 416 Ex in detail



In combination with air motors FLUX drum and container pumps are very lightweight, easy to handle and extremely powerful at the same time.

FLUX air motors are explosion-proof according to ATEX-Directive 94/9/EC. PTB Registration No. 02 ATEX D022. These motors are recommended for transferring highly flammable liquids and are particularly suitable for applications requiring a powerful and easy to adjust motor. The speed can be adjusted via the filter-regulator-lubricator unit on models F 416 Ex and F 416-1 Ex or on a ball valve on model F 416-2 Ex.

Power at 86 psi operating pressure – 470 Watt. Power at 43 psi operating pressure – 170 Watt.







**Air Motor**, explosion-proof to II 2 G cp IIC T6, easily variable speed control by adjusting either the air supply pressure or volume, motor overload-proof, air connection G 1/4 (BSP 1/4" female).

Туре	Capacity	Operating pressure max.	Air consumption	Version	Weight	Part No.
F 416 Ex	470 W	86 psi	17 cfm	with trigger operated valve	3,10 lbs	416 00 122
F 416-1 Ex	470 W	86 psi	17 cfm	without valve	2,00 lbs	416 00 125
F 416-2 Ex	470 W	86 psi	17 cfm	with ball valve	2,20 lbs	416 00 030

Other voltages and/or frequencies on request.

Accessories:		Part No.
Filter-regulator- lubricator unit	consisting of water separator, pressure gauge and lubricator. Thread on inlet and outlet BSP 1/4" female	001 10 100
Compressed air hose	DN 10, electrically conductive (blue)	001 10 098
Hose coupling	brass, spring-actuated, with hose nozzle DN 10 for compressed air hose	959 13 066
Nipple	brass, DN 10 – BSP ¼" male for hose coupling	959 13 065
Hose nozzle	brass, DN 10 – BSP ¼" male for compressed air hose	959 05 022
Earth (ground) wire	6,6 ft long	931 90 008
with crocodile clip	6,6 ft long, reinforced version	931 90 015
	9,8 ft long	931 90 013

## Capacity range











		•		•					•	
Motor Type	ı	BM 4000	Ex	F 458 F 458 E		460 Ex 460 Ex EL	F 458-1		F 460-1 Ex	
Pump tube set Type	Delivery rate* GPM	Delivery head** ft	Viscosity max. cP	Delivery rate* GPM	Delivery head** ft	Viscosity max. cP	Delivery rate* GPM	Delivery head** ft	Viscosity max. cP	
F 430 S-41/38	58	36	800	53	31	800	58	39	700	
F 430 S-41/37 Z	29	57	1000	26	46	1000	30	62	900	
F 430 S-50/38	58	36	800	53	31	800	58	39	700	
F 430 S-50/45 Z	32	75	800	34	62	900	38	82	900	
F 424 S-43/38	58	36	800	53	31	800	58	39	700	
F 424 S-43/37 Z	29	57	1000	26	46	1000	30	62	900	
F 424 S-50/45 Z	32	75	800	34	62	900	38	82	900	
F 425 S-41/34	29	26	800	30	26	800	30	33	900	
F 426 S-41/38	58	36	800	53	31	800	58	39	700	
F 427 S3-43/38	58	36	800	53	31	800	58	39	700	
F 430 AL-41/38	58	36	800	53	31	800	58	39	700	
F 430 AL-41/37 Z	29	57	1000	26	46	1000	30	62	800	
F 430 AL-50/38	58	36	800	53	31	800	58	39	700	
F 430 HC-40/38	58	36	800	53	31	800	58	39	700	
F 430 PP/PVDF-40/33	42	34	800	45	31	800	50	39	900	
F 430 PP/PVDF-40/33 Z	22	51	1000	22	49	1000	24	66	900	
F 430 PP/PVDF-50/38	58	36	800	53	31	800	58	39	700	
F 430 PP/PVDF-50/43 Z	28	98	1000	25	75	1000	29	92	900	
F 424 PP/PVDF-41/36	46	36	800	45	31	800	50	39	900	
F 424 PP/PVDF-41/35 Z	22	51	1000	22	49	1000	24	66	900	
F 424 PP/PVDF-50/38	58	36	800	53	31	800	58	39	700	
F 424 PP-50/43 Z	33	98	1000	25	75	1000	29	92	900	
F 425 PP-50/34	29	26	800	24	23	1000	29	33	900	
F 426 PP-50/33	42	34	800	45	31	800	50	39	900	

Values  $\pm$  10 % with water (68 °F) and a voltage of 230 Volt.











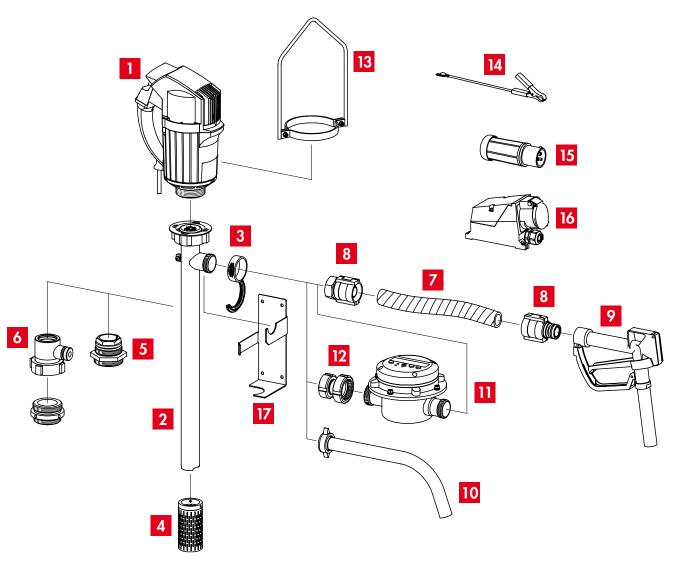


	F 414		F 416 Ex		F 416-1 Ex F 416-2 Ex		FEM 4070		F 457		F 457 EL
Delivery rate* GPM	Delivery head** ft	Viscosity max. cP	Delivery rate* GPM	Delivery rate** ft	Viscosity max. cP	Delivery rate* GPM	Delivery head** ft	Viscosity max. cP	Delivery rate* GPM	Delivery head** ft	Viscosity max. cP
49	36	900	63	43	1000	57	33	600	58	39	800
30	39	1000	32	79	1200	28	52	800	32	66	1000
49	36	900	63	43	1000	57	33	600	58	39	800
42	69	1000	38	98	1200	-	-	_	40	85	900
49	36	900	63	43	1000	57	33	600	58	39	800
30	39	1000	32	79	1200	28	52	800	32	66	1000
42	69	1000	38	98	1200	_	-	-	40	85	900
26	23	1000	34	43	1200	28	24	800	32	36	900
49	36	900	63	43	1000	57	33	600	58	39	800
49	36	900	63	43	1000	57	33	600	58	39	800
49	36	900	63	43	1000	57	33	600	58	39	800
30	39	1000	32	79	1200	28	52	800	32	66	1000
49	36	900	63	43	1000	57	33	600	58	39	800
49	36	900	63	43	1000	57	33	600	58	39	800
38	33	1000	54	43	1200	43	31	600	50	39	800
24	36	1000	26	79	1200	22	59	600	24	66	1000
49	36	900	63	43	1000	57	33	600	58	39	800
28	69	1000	28	98	1200	26	85	800	29	98	900
38	33	1000	54	43	1200	43	31	600	50	39	800
24	36	1000	26	79	1200	22	59	800	24	66	1000
49	36	900	63	43	1000	43	33	600	58	39	800
28	69	1000	28	98	1200	26	85	800	29	98	900
24	26	1000	29	39	1200	28	24	800	32	36	1000
38	33	900	54	43	1200	43	31	800	50	39	800

<sup>\*</sup> Maximum delivery rate with free outlet; obtained on the outlet connection.
\*\* Maximum delivery head with closed outlet; obtained on the outlet connection.

## General view FLUX Drum and Container Pump with accessories for highly flammable liquids (explosion-proof version)

It is not merely the pump that makes the FLUX solution a perfect equipment. On this page you will find a general view on the explosion-proof FLUX drum pump together with all accessories for transferring highly flammable liquids. With all items in bold printing you will have a ready to use pump assembly, which may be completed by other accessories shown on this page.



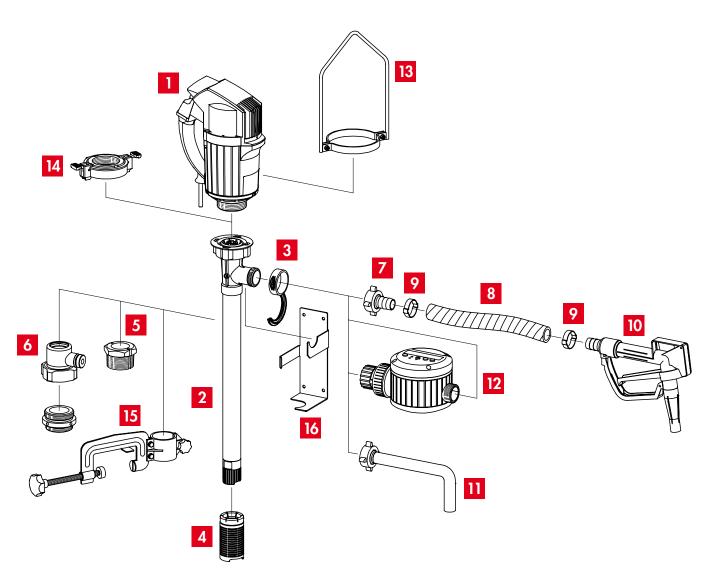
1	Drive Motor
2	Drum Pump (pump tube set)
3	FLUX-Clip
4	Suction strainer
5	Compression gland
6	Fume gland Type FES
7	Flexible hose*
8	Swaged hose fittings*
9	Quick action tap

10	Discharge spout
11	Liquid meter
12	Connecting piece FMC 100
13	Carrying handle
14	Earth (ground) wire
	Explosion-proof plug
	Explosion-proof plug

## General view FLUX Drum and Container Pump with accessories for non-flammable liquids

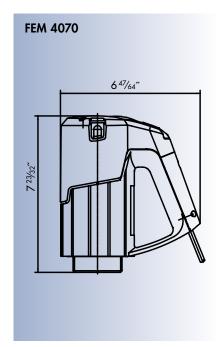


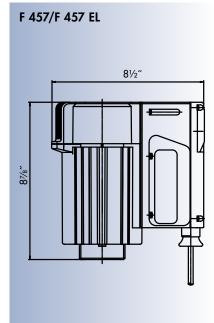
It is not merely the pump that makes the FLUX solution a perfect equipment. On this page you will find a general view on the FLUX drum pump together with all accessories for transferring non-flammable liquids. With all items in bold printing you will have a ready to use pump assembly, which may be completed by other accessories shown on this page.

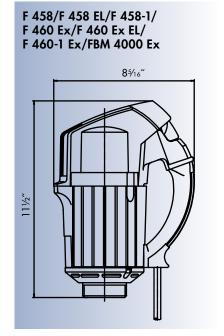


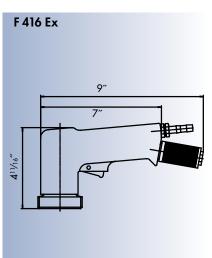
1	Drive Motor	9	Hose clip
2	Drum Pump (pump tube set)	10	Quick action tap
3	FLUX-Clip	11	Discharge spout
4	Suction strainer	12	Liquid meter
5	Compression gland	13	Carrying handle
6	Fume gland Type FES	14	Quick action coupling Type SSK 400
7	Hose connection	15	Attachment clamp
8	Flexible hose*	16	Wall bracket

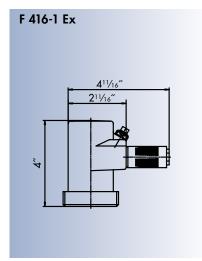
### **Dimensions FLUX motors**

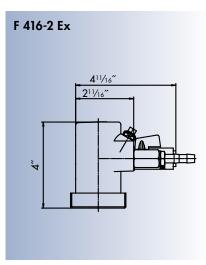


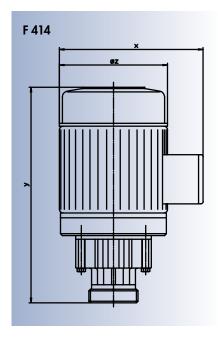












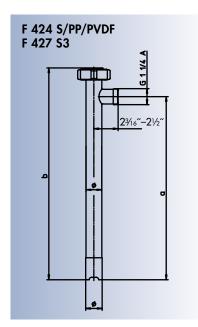
Type F 414

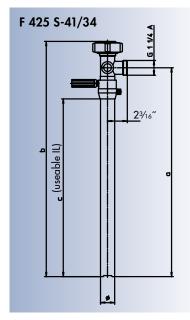
Capacity	х	Υ	Øz
0,55 kW	8″	11"	519/32"
0,75 kW	81/2"	12″	63/16"
1,1 kW	81/2"	12"	63/16"

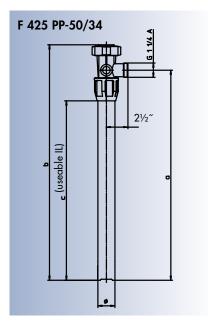
Note: with motor and pump
assembled, the total length
reduces by 5%".

## Dimensions FLUX drum and container pumps

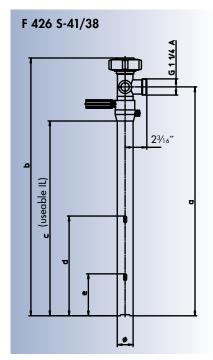


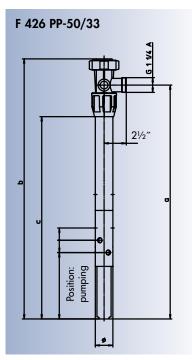


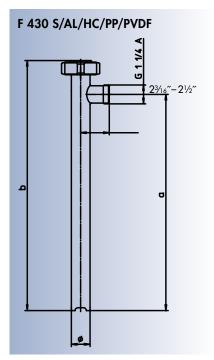




Туре	F 424 S/PP/	F 424 S/PP/PVDF and F 427 S3			F 425 S-41/34			F 425 PP-50/34		
Dimensions	Ø	а	Ь	а	b	с	а	Ь	С	
Immersion length 27"	S: 111/16" or 2"	28″	31″	32″	35″	29″	32″	35″	281/2"	
Immersion length 39"	PP/PVDF: 11%32" or 2"	40″	43"	44"	47"	41"	44"	47"	401/2"	
Immersion length 47"	117/32 Or Z	48″	51″	52″	55″	49″	52″	55″	481/2"	
	on models PF sions a and b				valve dimer re increased		with open valve dimensions a and b are increased by 3/16".			







Туре	F 426 S	F 426 S-41/38					F 426 PP-50/33			F 430 S/AL/HC/PP/PVDF		
Dimensions	а	Ь	С	d	е	а	Ь	С	Ø	a	Ь	
Immersion length 27"	-	-	-	-	-	_	_	-	S/AL: 11%2" or	28″	31″	
Immersion length 39"	431/2"	461/2"	40″	14"	8″	431/2"	461/2"	40″	2". HC: 1%6". PP/PVDF:	40″	421/2"	
Immersion length 47"	51½″	541/2"	48″	14"	8″	51½″	541/2"	48″	1%6"or 2"	471/2"	50½″	

For example: Type F 430 S-41/38 with an immersion length of 39" has a total length (shown as dimension "b") of  $42\frac{1}{2}$ ". The total length of the pump including motor type F 460 Ex is  $42\frac{1}{2}$ " +  $11\frac{1}{2}$ " = 54".

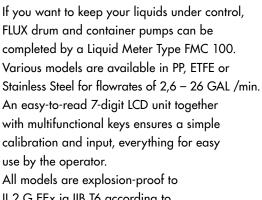
### FLUX accessories & complements



It is not merely the pump that makes the FLUX solution a perfect equipment. FLUX Pump Kits include everything for that quick start required by today's busy engineers and buyers: a ready to work, straight out of the box pump. All component parts – pump, motor and accessories – are carefully selected to complement each other. FLUX Pump Kits are available for:

- acids and alkalis
- concentrated acids and alkalis
- petroleum products
- highly flammable liquids
- universal applications
- 99,98 % drum emptying
   Select the most suitable combination and see the advantages of buying
   a FLUX Pump Kit, the





All models are explosion-proof to II 2 G EEx ia IIB T6 according to ATEX-Directive 94/9/EC.

For detailed information on FLUX Pump Kits, FLUX Liquid Meters and other FLUX products please ask for our sales brochures. Just fill in the form on the following page and return it by fax.



## The great range of FLUX Pumps





# YES!

I am interested in top class pump technology. Please send the following catalogues:

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FLUX Pump-Kits	FLUX Mixers
FLUX High Viscosity Liquid Pumps	FLUX Liquid Meters
FLUX Centrifugal Immersion Pumps	
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Company	
Address	
Telephone	Fax
e-mail	
Please mark with a cross, complete the address and the	on sand us a fax. Fax number see on the back side!







All around the globe, FLUX is synonymous with top standards in pump technology. Whether it is drum pumps, high viscosity liquid pumps, vertical centrifugal immersion pumps, air-operated diaphragm pumps, liquid meters, mixers or top class accessories – FLUX with its complete and comprehensive range is always the one to address to. Benefit from our competence. We look forward to hearing from you!

#### **FLUX PUMPS CORPORATION**

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