Centrifugal Immersion Pumps





FLUX Centrifugal Immersion Pumps -

Quality that sets standards.

Manufactured at our main plant, these ranges of immersion pumps are the result of extensive product and process evaluation by our research and development department. They are a true FLUX product, from conception through to manufacture, assembly and testing. Their design philosophy, and the materials selected for their construction make them ideal for applications in the chemical industry, surface treatment, electroplating, printed circuit manufacturing, water treatment and wastewater treatment. FLUX centrifugal immersion pumps can be used whenever liquids have to be transferred or circulated. They are suitable for use with a wide variety of acids and alkalis as well as other chemicals, typically coolants, lubricants and non-flammable solvents.

With delivery rates of up to 74 m³/h and delivery heads of maximum 35 m water column, FLUX centrifugal immersion pumps combine maximum efficiency with a robust and reliable construction, resulting in a pump that provides the ultimate in process security. These are features that you can rely on, each hour, 24 hours a day.

The mechanical seal types F 620 and F 640 are designed for typical liquid transfer operations, with either stationary or portable variants. These units compliment the well-proven barrel pumps range and have a higher output and kW-rating.

Top of the range, are the sealless units, these pumps complete the range of high output, high reliability immersion pumps. Designed for continuous use with a wide range of aggressive liquids, from acids to alkalis, the range includes the type F 706 – with only a sleeve bearing in contact with the liquid – or the types F 716 and F 726 – with a suspended free-flying shaft and no bearings or seals in contact with the liquid.

Three-phase drive motors are available as matched power units in kW-ratings from 0,37 to 5,5 kW, protected to IP 55 as well as explosion-proof to EEx e II T3 for models F 620, F 640, F 706 and F 726.

With immersion lengths from 300 to 4000 mm almost every application requirement can be met. The use of high-class materials such as Hastelloy C and polyvinylidenfluoride, together with polypropylene and stainless steel, are combined with design experience perfected over decades of pump manufacturing. This guarantees the long service life of FLUX centrifugal immersion pumps.

Detailed information and performance charts are shown on the following pages.

To receive a quotation compiled to your application, please could you to fill in the questionnaire on page 22.2 and return it to us.





Save, powerful, reliable -The new FLUX range

With 4 different design formats within the vertical centrifugal immersion pump range FLUX offer a cost effective, reliable solution for many liquid transfer and circulating operations. With these pumps FLUX meet the requirements of the market with their forward-looking designs and the manufacture of high quality products.

Type F 706:

4 different sizes, sealles design with sleeve bearing, immersion length up to 2000 mm

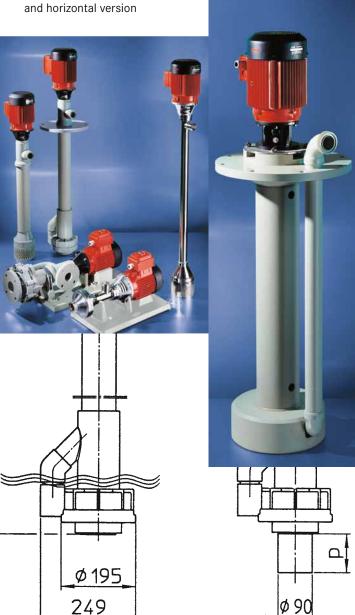
Type F 620 and F 640: with mechanical seal in vertical

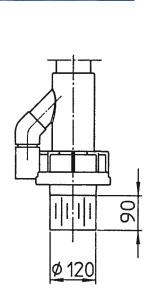


compact design requires little space for installation, version with support tube or support bars for continuous use, suitable for dry operation

Type F 726:

very robust construction with shaft bearing located in a pedestal, version with support bars for continuous use, suitable for dry operation





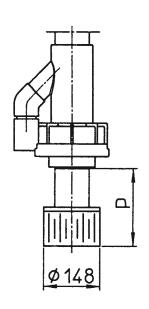


Table of contents



Introduction Table of contents	2-3
FLUX Centrifugal Immersion Pumps F 620 S size 15 and 30 in stainless steel for delivery rates of up to 23 m³/h	4-5
FLUX Centrifugal Immersion Pumps F 640 PP size 15, 30, 15 Z and 30 Z in polypropylene for delivery rates of up to 34 m³/h	6-7
FLUX Centrifugal Immersion Pumps F 640 PP and F 640 PVDF size 185 and 230 in polypropylene or polyvinylidenfluoride for delivery rates of up to 42 m³/h	8-9
FLUX Centrifugal Immersion Pumps F 620 S TR and F 640 PP TR for dry installation for horizontal use for delivery rates of up to 44 m³/h	10-11
FLUX Centrifugal Immersion Pumps F 706 PP size 135, 185, 230 and 350 in polypropylene for delivery rates of up to 74 m³/h	12-13
FLUX Centrifugal Immersion Pumps F 716 PP and F 716 PVDF size 115 and 135 in polypropylene or polyvinylidenfluoride for delivery rates of up to 12 m³/h	14-15
FLUX Centrifugal Immersion Pumps F 716 PP and F 716 PVDF size 185 and 230 in polypropylene or polyvinylidenfluoride for delivery rates of up to 45 m³/h	16-17
FLUX Centrifugal Immersion Pumps F 726 PP and F 726 PVDF size 115 and 135 in polypropylene or polyvinylidenfluoride for delivery rates of up to 12 m³/h	18-19
FLUX Centrifugal Immersion Pumps F 726 PP and F 726 PVDF size 185 and 230 in polypropylene or polyvinylidenfluoride for delivery rates of up to 45 m³/h	20-21
Dimensions of three-phase motors Questionnaire	22-23

FLUX Centrifugal Immersion Pump F 620 S in stainless steel

Size 15 and 30

Typical Applications

Transferring low flammability liquids up to a viscosity of 2500 mPas (cP) from containers or tanks, either open topped or closed. Suitable for stationary or portable applications.

Construction features

Centrifugal pump in stainless steel consisting of an inner tube and outer tube.

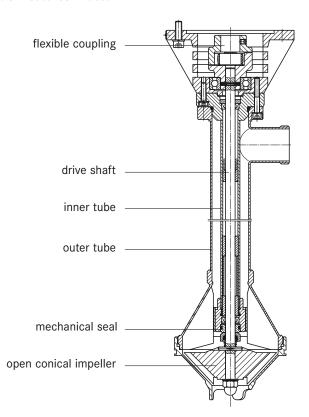
The centrifugal impeller in the pump housing is driven by the motor via the drive shaft. The drive shaft is supported by intermediate bearings within the inner tube, a mechanical seal separates the liquid from the bearings and upper shaft. This construction provides the ultimate in stability, and ensures the maximum integrity of the mechanical seal. With an open conical impeller.

Three-phase motors in differing kW-ratings are available as a matched power unit. Connection to the pump is made via a flexible coupling.

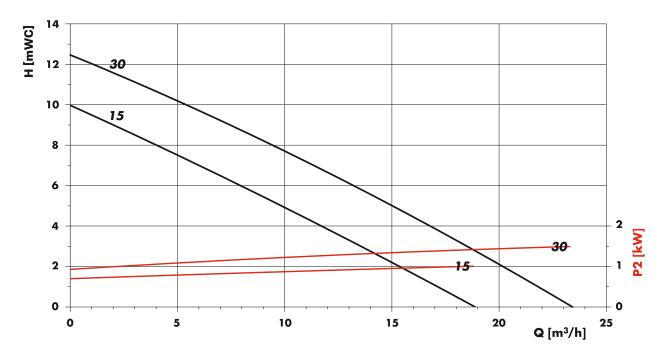


F 620 S-30 with suction strainer

Construction features in detail



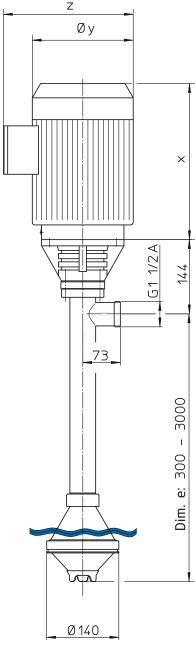
Technical data
Performance chart FLUX F 620 S-15 and F 620 S-30



Measured values \pm 10% determined with water (20 °C). Nominal speed n = 2850 rpm

In determining the absorbed kW of the motor, multiply the absorbed kW shown in the above diagram with the specific gravity of the liquid to be pumped.

Technical data Dimensions F 620 S-15 and F 620 S-30

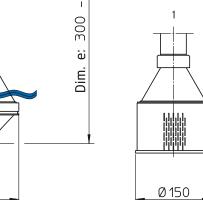


Three-phase motor: dimension X, Ø Y and Z see page 22



Minimum liquid level when starting the pump. Also valid for variant 1.

Variant 1 with suction strainer dimension e + 28 mm



Basic model dimension e max. 3000 mm

Centrifugal Immersion Pump F 620 S



Centrifugal Immersion Pump F 620 S in stainless steel,

thread on outlet G $1\frac{1}{2}$ A, without drive motor

F 620 S-15	F 620 S-30	
19 m³/h	23 m³/h	
10 m water column	12 m water column	
2500 mPas	2500 mPas	
100 °C	100 °C	
mechanical seal in	ceramic oxide, o-rings in FKM	
shaft in stainless steel 316 Ti, seal in FKM		
conical impeller in polypropylene (version in stainless steel on request)		
Ø 140 mm	Ø 140 mm	
620 23 001	621 23 001	
620 23 002 621 23 002		
620 23 003 621 23 003		
	19 m³/h 10 m water column 2500 mPas 100 °C mechanical seal in shaft in stainles conical impeller in polypropyle Ø 140 mm 620 23 001 620 23 002	

Accessories	Part No.
Mounting flange in stainless steel 316 Ti outside Ø 265 mm, pitch circle Ø 225 mm, 8 bores Ø 18 mm each	947 14 005
Suction strainer in stainless steel 316 Ti	001 10 232
Hose connection in stainless steel, complete with nut in brass G 11/2	

Hose connection in stainless steel, complete with nut in brass G 11/2	
for hose inside diameter DN 25	959 04 002
for hose inside diameter DN 32	959 04 003
for hose inside diameter DN 38	959 04 004

Drive motors for Centrifugal Immersion Pump F 620 S,

three-phase motors protected to IP 55, with motor protection switch or cable terminal box

Capacity	Voltage	Frequency	Nominal speed	Part No.	Part No.
P2				Version with motor protection switch	Version with cable terminal box
0,75 kW	230/400 V	50 Hz	2850 rpm	001 00 056	001 00 035
1,1 kW	230/400 V	50 Hz	2850 rpm	001 00 057	001 00 036
1,5 kW	230/400 V	50 Hz	2850 rpm	001 00 058	001 00 037
2,2 kW	230/400 V	50 Hz	2850 rpm	001 00 059	001 00 038
3,0 kW	400 V	50 Hz	2850 rpm	001 00 060	001 00 039
4,0 kW	400 V	50 Hz	2850 rpm	001 00 061	001 00 040

Three-phase motors explosion-proof to II 2 G EEx e II T3 with cable terminal box.

Capacity	Voltage	Frequency	Nominal speed	Part No.	Part No.
P2				Three-phase motor with cable terminal box	Motor protection switch II 2 G EEx de II C T6 to be mounted on the carrying handle
0,75 kW	230/400 V	50 Hz	2850 rpm	001 00 066	936 06 118
1,1 kW	230/400 V	50 Hz	2850 rpm	001 00 067	936 06 118
1,5 kW	230/400 V	50 Hz	2850 rpm	001 00 068	936 06 119
2,0 kW	230/400 V	50 Hz	2850 rpm	001 00 069	936 06 119
2,5 kW	400 V	50 Hz	2850 rpm	001 00 070	936 06 120
3,3 kW	400 V	50 Hz	2850 rpm	001 00 071	936 06 120
Accessories			Part No.		
Carrying handle for three-phase motors up to 3,0 kW				001 10 571	
Carrying handle for three-phase motors up 4,0 kW				001 10 531	
Carrying handle for three-phase motors explosion-proof up to 3,3 kW			for three-phase motors explosion-proof up to 3,3 kW 001 10 586		

Scope of supply

A complete vertical centrifugal immersion pump consists of: drive motor, pump and necessary accessories. Weight per pump: 15 – 45 kg depending on the pump size, immersion length and motor kW.

FLUX Centrifugal Immersion Pump F 640 PP in polypropylene

Size 15, 30, 15 Z and 30 Z

Typical Applications

Transferring low flammability liquids up to a viscosity of 2500 mPas (cP) from containers, tanks, either open topped or closed.

Transferring corrosive liquids in chemical processing and engineering, metal-working and electroplating together with water treatment and waste water treatment. Suitable for stationary or portable application.

Construction features

Vertical centrifugal immersion pump in polypropylene consisting of an inner tube and outer tube.

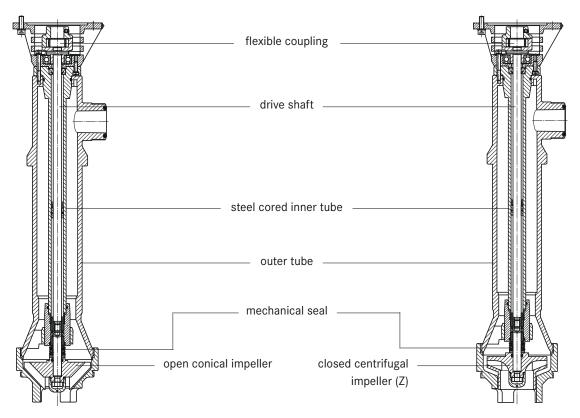
The centrifugal impeller in the pump housing is driven by the motor via the drive shaft. The drive shaft is supported by intermediate bearings within the plastic sleeved steel inner tube, a mechanical seal separating the liquid from the bearings and upper shaft. This construction provides the ultimate in stability, preventing elongation of the plastic at high temperatures and ensures the maximum integrity of the mechanical seal. With an open conical impeller or a closed centrifugal impeller (Z). The liquid is delivered between the inner and outer tubes to the pump outlet.

Three-phase motors in differing kW-ratings are available as a matched power unit. Connection to the pump is made via a flexible coupling.

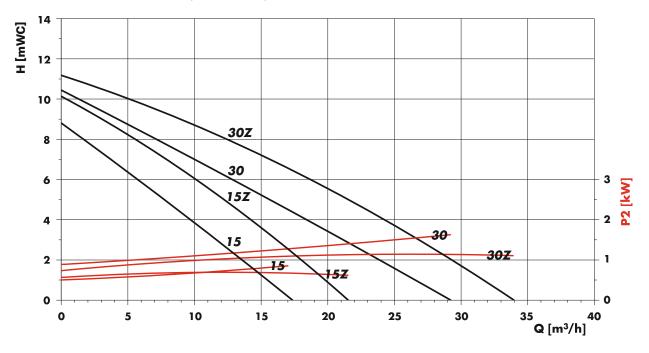


F 640 PP-30 with suction strainer

Construction features in detail



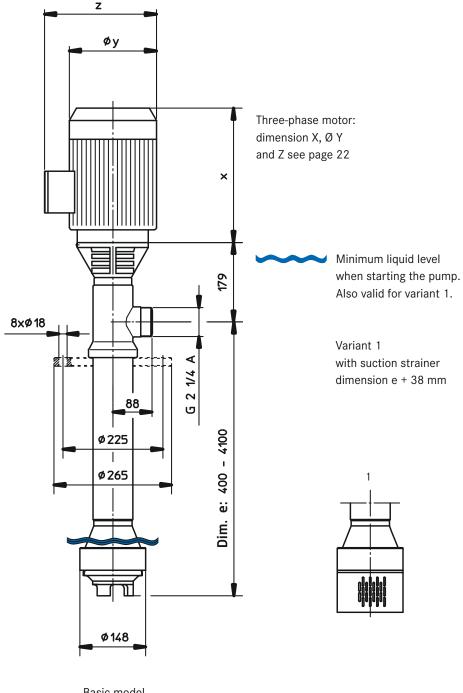
Technical data
Performance chart F 640 PP-15, F 640 PP-30, F 640 PP-15 Z and F 640 PP-30 Z



Measured values \pm 10% determined with water (20 °C). Nominal speed n = 2850 rpm

In determining the absorbed kW of the motor, multiply the absorbed kW shown in the above diagram with the specific gravity of the liquid to be pumped.

Technical data Dimensions F 640 PP-15, F 640 PP-30, F 640 PP-15 Z and F 640 PP-30 Z



Basic model dimension e max. 4100 mm

Centrifugal Immersion Pump F 640 PP



Centrifugal Immersion Pump F 640 PP in polypropylene,

thread on outlet G 21/4 A, without drive motor

Type/Size	F 640 PP-15	F 640 PP-30	F 640 PP-15Z	F 640 PP-30Z	
Delivery rate Q max.	17 m³/h	29 m³/h	21 m³/h	34 m³/h	
Delivery head H max.	8 m water column	10 m water column	10 m water column	11 m water column	
Viscosity max.	2500 mPas	2500 mPas	150 mPas	150 mPas	
Temperature max.	50 °C	50 °C	50 °C	50 °C	
Seal type		mechanical seal in ceramic oxide / SiC, o-rings in FKM			
Material	shaft in Hastelloy C, seals in FKM				
Impeller	open conical impeller	in PP	closed centrifugal impe	eller in PP	
Pump housing	Ø 148 mm	Ø 148 mm	Ø 148 mm	Ø 148 mm	
Part No.					
Immersion length Dimension e 700 mm	640 41 407	640 41 607	640 41 507	640 41 707	
Immersion length Dimension e 1000 mm	640 41 410	640 41 610	640 41 510	640 41 710	
Immersion length Dimension e 1500 mm	640 41 415	640 41 615	640 41 515	640 41 715	

Part numbers for immersion length 400 to 4000 mm (in steps of 100 mm) on request.

Accessories	Part No.
Suction strainer in polypropylene outside Ø 265 mm, pitch circle Ø 225 mm, 8 bores Ø 18 mm	947 14 001
Hose connection in polypropylene, complete with nut G 21/4	
for hose inside diameter DN 32	959 04 098
for hose inside diameter DN 38	959 04 099
for hose inside diameter DN 50	959 04 100

Drive motors for Centrifugal Immersion Pump F 640 PP,

three-phase motors protected to IP 55, with motor protection switch or cable terminal box

Capacity	Voltage	Frequency	Nominal speed	Part No.	Part No.
P2				Version with motor protection switch	Version with cable terminal box
0,75 kW	230/400 V	50 Hz	2850 rpm	001 00 056	001 00 035
1,1 kW	230/400 V	50 Hz	2850 rpm	001 00 057	001 00 036
1,5 kW	230/400 V	50 Hz	2850 rpm	001 00 058	001 00 037
2,2 kW	230/400 V	50 Hz	2850 rpm	001 00 059	001 00 038
3,0 kW	400 V	50 Hz	2850 rpm	001 00 060	001 00 039
4,0 kW	400 V	50 Hz	2850 rpm	001 00 061	001 00 040

Three-phase motors explosion-proof to II 2 G EEx e II T3 with cable terminal box.

Capacity	Voltage	Frequency	Nominal speed	Part No.	Part No.
P2				Version with cable terminal box	Motor protection switch II 2 G EEx de II C T6 to be mounted on the carrying handle
0,75 kW	230/400 V	50 Hz	2850 rpm	001 00 066	936 06 118
1,1 kW	230/400 V	50 Hz	2850 rpm	001 00 067	936 06 118
1,5 kW	230/400 V	50 Hz	2850 rpm	001 00 068	936 06 119
2,0 kW	230/400 V	50 Hz	2850 rpm	001 00 069	936 06 119
2,5 kW	400 V	50 Hz	2850 rpm	001 00 070	936 06 120
3,3 kW	400 V	50 Hz	2850 rpm	001 00 071	936 06 120
Accessories			Part No.		
Carrying handle for three-phase motors up to 3,0 kW			001 10 571		
Carrying handle for three-phase motors up 4,0 kW			001 10 531		
Carrying handle for	three-phase motors ex	plosion-proof up to 3,3 l	¢W	001 10 586	

Scope of supply

A complete vertical centrifugal immersion pump consists of: drive motor, pump and necessary accessories. Weight per pump: 15 - 60 kg depending on the pump size, immersion length and motor kW.

FLUX Centrifugal Immersion Pump F 640 PP and F 640 PVDF

Size 185 and 230

Typical applications

Transferring low flammability liquids up to a viscosity of 2500 mPas (cP) from containers, tanks, either open topped or closed. Transferring corrosive liquids in chemical processing and engineering, metal-working and electroplating together with water treatment and waste water treatment. Suitable for stationary or portable application.

Construction features

Vertical centrifugal immersion pump for stationary application. The centrifugal impeller in the pump housing is driven by the motor via the drive shaft. The drive shaft is supported by intermediate bearings within the plastic sleeved steel inner tube, a mechanical seal separating the liquid from the bearings and upper shaft. This construction provides the ultimate in stability, preventing elongation of the plastic at high temperatures and ensures the maximum integrity of the mechanical seal.

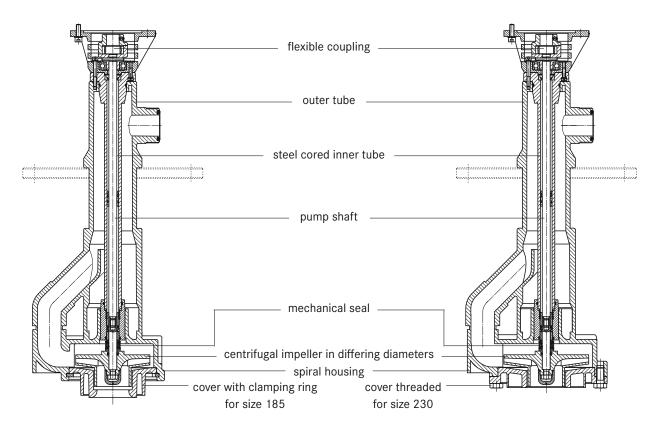
This pump design does not have a separate discharge tube. Immediately after the pump housing the liquid is fed back into the outer tube and delivered to the outlet connection between the inner and outer tubes.

A range of carefully chosen impeller diameters, together with a range of three-phase motors in differing kW-ratings, ensures the optimum selection of pumps to meet the specific operating requirements. Connection of pump and motor is made via a flexible coupling.

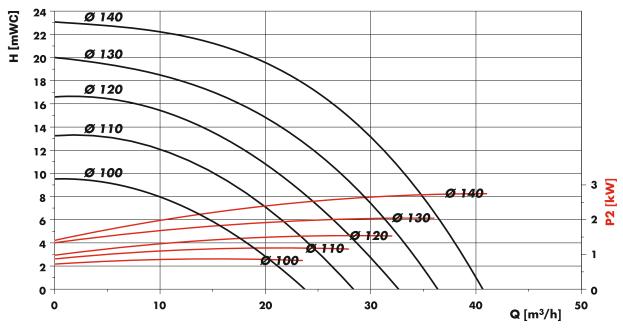


F 640 PP-185 with mounting flange

Construction features in detail



Technical data
Performance chart F 640 PP-185 and F 640 PVDF-185

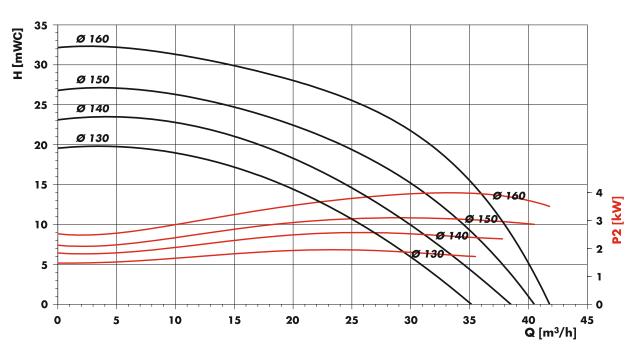


Measured values \pm 10% determined with water (20 °C). Nominal speed n = 2850 rpm

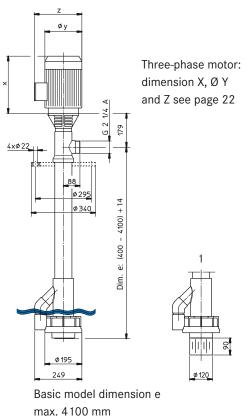
In order to achieve the desired output, centrifugal impellers in diameters of 100 to 160 mm are available.

In determining the absorbed kW of the motor, multiply the absorbed kW shown in the above diagram with the specific gravity of the liquid to be pumped.

Performance chart F 640 PP-230 and F 640 PVDF-230



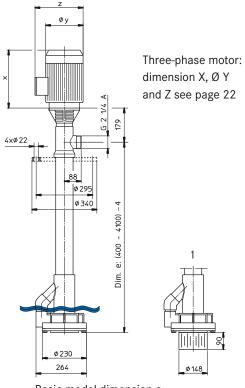
Technical data Dimensions F 640 PP-185 and F 640 PVDF-185



Minimum liquid level when starting the pump.
Also valid for variant 1.

Variant 1 with suction strainer dimension e + 90 mm

Dimensions F 640 PP-230 and F 640 PVDF-230



Basic model dimension e max. 4100 mm



Minimum liquid level when starting the pump. Also valid for variant 1.

Variant 1 with suction strainer dimension e + 90 mm

Centrifugal Immersion Pump F 640 PP and F 640 PVDF



Centrifugal Immersion Pump F 640 PP in polypropylene and F 640 PVDF in polyvinylidenfluoride,

thread on outlet G 21/4 A, without drive motor

Type/Size	F 640 PP-185	F 640 PVDF-185	F 640 PP-230	F 640 PVDF-230	
Delivery rate Q max.	40 m³/h	40 m³/h	42 m ³ /h	42 m³/h	
Delivery head H max.	23 m water column	23 m water column	32 m water column	32 m water column	
Viscosity max.	150 mPas	150 mPas	150 mPas	150 mPas	
Temperature max.	60 °C	80 °C	60 °C	80 °C	
Seal type	mechanical seal in ceramic oxide /SiC, o-rings in FKM				
Material	shaft in Hastelloy C, seals in FKM				
Impeller	Ø 100 – 140 mm in PP or PVDF Ø 130 – 160 mm in PP or PVDF			mm in PP or PVDF	
Pump housing	Ø 2	249 mm	Ø	264 mm	
Part No.					
Immersion length Dimension e 1000 mm	640 41 210	640 61 210	640 41 310	640 61 310	
Immersion length Dimension e 1500 mm	640 41 215	640 61 215	640 41 315	640 61 315	
Immersion length Dimension e 2000 mm	640 41 220	640 61 220	640 41 320	640 61 320	

Part numbers for immersion length 400 to 4100 mm (in steps of 100 mm) on request. From dimension 2100 mm with welded pump housing part number 640 42 ... or rather 640 62 ...

Accessories	Part No.			
Mounting flange in polypropylene to dimension 2000 mm: outside Ø 340 mm, pitch circle Ø 295 mm, 4 bores Ø 22 mm from dimension 2100 mm: outside Ø 445 mm, pitch circle Ø 400 mm, 4 bores Ø 22 mm	947 14 049 947 14 084			
Mounting flange in polyvinylidenfluoride to dimension 2000 mm: outside Ø 340 mm, pitch circle Ø 295 mm, 4 bores Ø 22 mm from dimension 2100 mm: outside Ø 445 mm, pitch circle Ø 400 mm, 4 bores Ø 22 mm	947 14 070 947 14 085			
Suction stainer in PP or PVDF welded onto the cover of the pump housing				
Hose connection in polypropylene, complete with nut G 21/4				
for hose inside diameter DN 32	959 04 098			
for hose inside diameter DN 38	959 04 099			
for hose inside diameter DN 50	959 04 100			

Hose connection in polyvinylidenfluoride, complete with i	nut

for hose inside diameter DN 32	959 04 104
for hose inside diameter DN 38	959 04 105
for hose inside diameter DN 50	959 04 096

Drive motors for Centrifugal Immersion Pump F 640 PP and F 640 PVDF,

three-phase motors protected to IP 55, with motor protection switch or cable terminal box

Capacity	Voltage	Frequency	Nominal speed	Part No.	Part No.
P2				Version with motor protection switch	Version with cable terminal box
0,75 kW	230/400 V	50 Hz	2850 rpm	001 00 056	001 00 035
1,1 kW	230/400 V	50 Hz	2850 rpm	001 00 057	001 00 036
1,5 kW	230/400 V	50 Hz	2850 rpm	001 00 058	001 00 037
2,2 kW	230/400 V	50 Hz	2850 rpm	001 00 059	001 00 038
3,0 kW	400 V	50 Hz	2850 rpm	001 00 060	001 00 039
4,0 kW	400 V	50 Hz	2850 rpm	001 00 061	001 00 040

Three-phase motors explosion-proof to II 2 G EEx II T3 with cable terminal box.

Capacity	Voltage	Frequency	Nominal speed	Part No.	Part No.
P2				Version with cable terminal box	Motor protection switch II 2 G EEx de II C T6 to be mounted on the carrying handle
0,75 kW	230/400 V	50 Hz	2850 rpm	001 00 066	936 06 118
1,1 kW	230/400 V	50 Hz	2850 rpm	001 00 067	936 06 118
1,5 kW	230/400 V	50 Hz	2850 rpm	001 00 068	936 06 119
2,0 kW	230/400 V	50 Hz	2850 rpm	001 00 069	936 06 119
2,5 kW	400 V	50 Hz	2850 rpm	001 00 070	936 06 120
3,3 kW	400 V	50 Hz	2850 rpm	001 00 071	936 06 120

Scope of supply

A complete vertical centrifugal immersion pump consists of: drive motor, pump with mounting flange and necessary accessories. Weight per pump: 20 - 70 kg depending on the pump size, immersion length and motor kW.

FLUX Centrifugal Immersion Pump F 620 S TR and F 640 PP TR

for dry installation for horizontal use

Typical applications

Transferring low flammability liquids up to a viscosity of 2500 mPas (cP) from containers or tanks, either open topped or closed. The pump is used either horizontally mounted onto a base plate or fixed vertically.

Construction features

Centrifugal pump in horizontal version in stainless steel or polypropylene, consisting of an inner tube and outer tube.

The centrifugal impeller in the pump housing is driven by the motor via the drive shaft The drive shaft is supported by intermediate bearings within inner tube, a mechanical seal separates the liquid from the bearings and upper shaft. The PP version has a steel cored PP inner tube. This construction provides the ultimate in stability, preventing elongation of the plastic at high temperatures and ensures the maximum integrity of the mechanical seal.

With an open conical impeller or a closed centrifugal impeller (Z)

Depending on the model, suction and discharge sides are fitted with threaded or flanged connections.

Three-phase motors in differing kW-ratings are available as a matched power unit. Connection to the pump is made via a flexible coupling.



F 620 S-30 TR



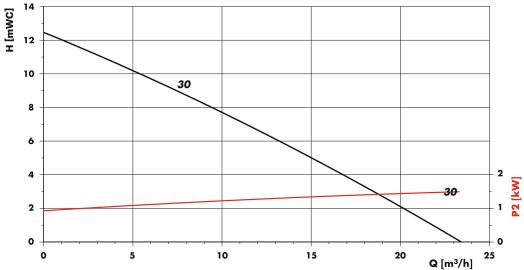
F 640 PP-30 TR



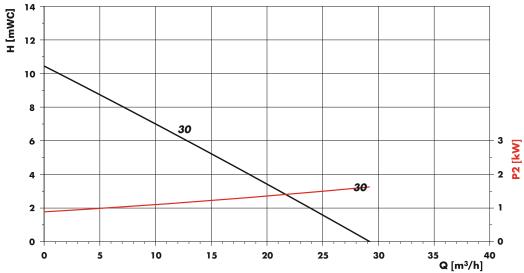
F 640 PP-230 TR with base plate

Technical data

Performance chart F 620 S-30 TR

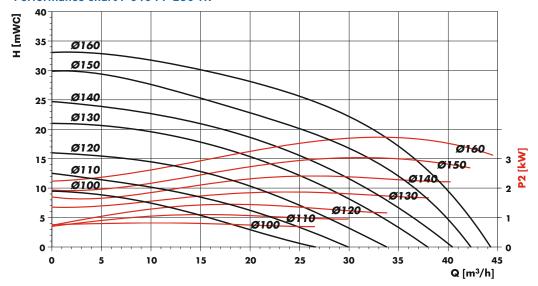


Performance chart F 640 PP-30 TR



Performance chart F 640 PP-230 TR

10.1

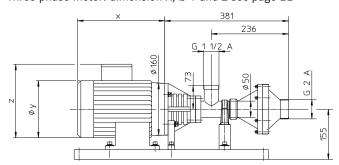


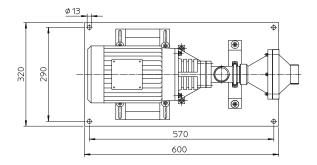
Measured values \pm 10% determined with water (20 °C). Nominal speed n = 2850 rpm In determining the absorbed kW of the motor, multiply the absorbed kW shown in the above diagram with the specific gravity of the liquid to be pumped.

Technical data

Dimensions F 620 S-30 TR

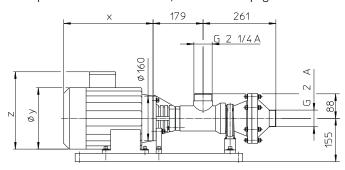
Three-phase motor: dimension X, Ø Y and Z see page 22

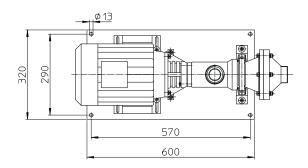




Dimensions F 640 PP-30 TR with thread connection

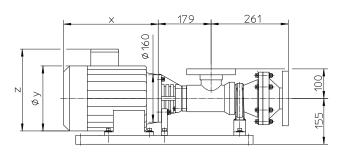
Three-phase motor: dimension X, Ø Y and Z see page 22

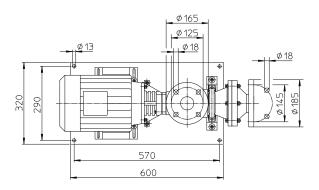




Dimensions F 640 PP-30 TR with flange connection

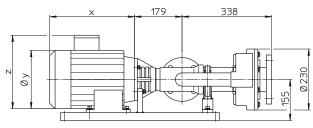
Three-phase motor: dimension X, Ø Y and Z see page 22

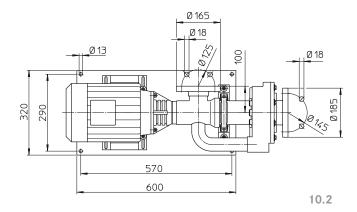




Dimensions F 640 PP-230 TR

Three-phase motor: dimension X, Ø Y and Z see page 22





Centrifugal Immersion Pump

for dry installation



Centrifugal Immersion Pump F 620 S TR in stainless steel,

without drive motor

Type/Size	F 620 S-30 TR	
Delivery rate Q max.	23 m³/h	
Delivery head H max.	12 m water column	
Viscosity max.	2500 mPas	
Temperature max. 100 °C		
Seal type mechanical seal in ceramic oxide, o-rings in FKM		
Material shaft in stainless steel 316 Ti, seals in FKM		
Impeller	open conical impeller in polypropylene (version in stainless steel on request)	
Suction side	thread G 2 A	
Discharge side	thread G 1½ A	
Part No.	620 25 502	

Accessoires	Part No.	
Base plate in polypropylene	001 15 024	
Hose connection in stainless steel, complete with nut G 11/2		
for hose inside diameter DN 25	959 04 002	
for hose inside diameter DN 32	959 04 003	
for hose inside diameter DN 38	959 04 004	

Centrifugal Immersion Pump F 640 PP TR in polypropylene,

without drive motor

Type/Size	F 640 PP-30 TR		
Delivery rate Q max.	29 m³/h		
Delivery head H max.	Delivery head H max. 10 m water column		
Viscosity max.	cosity max. 2500 mPas		
Temperature max.	50 °C		
Seal type	mechanical seal in ceramic oxide /SiC, o-rings in FKM		
Material	shaft in Hastelloy C, seals in FKM		
Impeller	open conical impeller in PP		
Suction side	uction side thread G 2 A flange DN 65, PN 10		
Discharge side thread G 2½ A flange DN 50, PN 10		flange DN 50, PN 10	
Part No.	640 41 601	640 41 600	

Centrifugal Immersion Pump F 640 PP TR in polypropylene,

without drive motor

Type/Size	F 640 PP-230 TR		
Delivery rate Q max. 44 m³/h			
Delivery head H max.	33 m water column		
Viscosity max.	150 mPas		
Temperature max.	60 °C		
Seal type mechanical seal in ceramic oxide/SiC, o-rings in FKM			
Material shaft in Hastelloy C, seals in FKM			
Impeller	Ø 100 – 160 mm in PP		
Suction side flange DN 65, PN 10; outside Ø 185 mm, p.c.Ø 145 mm, 4 bores Ø 18 mm each			
Discharge side flange DN 50, PN 10; outside Ø 165 mm, p.c.Ø 125 mm, 4 bores Ø 18 mm each			
Part No.	640 41 300		

Accessories	Part No.	
Base plate in polypropylene for F 640 PP-30 TR and F 640 PP-230 TR	001 15 023	
Hose connection in polypropylene, complete with nut G 21/4		
for hose inside diameter DN 32	959 04 098	
for hose inside diameter DN 38	959 04 099	
for hose inside diameter DN 50	959 04 100	

Drive motors see page 9.

Scope of supply

A complete centrifugal immersion pump for dry installation consists of drive motor, pump and base plate. Weight per pump including base plate: 9-50 kg depending on pump size and motor kW.

FLUX Centrifugal Immersion Pumps F 706 PP in polypropylene

Size 135, 185, 230 and 350

Typical applications

Transfer of corrosive liquids in the chemical industry and all aspects of chemical engineering together with any application that requires the safe and economical transfer, or circulation, of acids and alkalis or other chemical fluids, with or without solids in suspension.

Construction features

Vertical centrifugal immersion pump for stationary application. The robust pump housing is solidly welded to the support tube. A sleeve bearing, which is lubricated by the liquid, allows immersion lengths of up to 1000 mm, and on the pump size 230, with additional intermediate bearings, even up to 2000 mm.

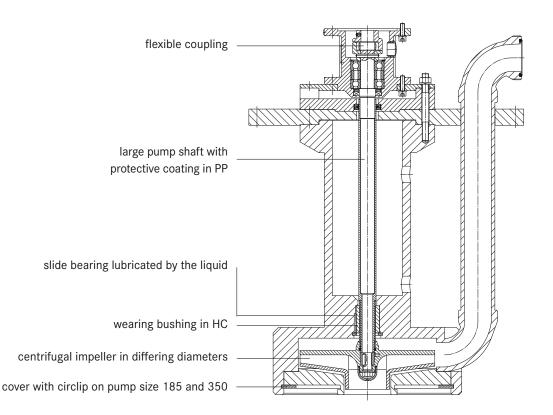
A large polpypropylene-coated drive shaft together with the use of a thick-walled support tube ensures a very smooth running pump. This type of construction prevents the rotating components from coming to contact with the pump housing and guarantees a long service life and extended maintenance intervals, even in the case of continuous use.

A range of carefully chosen impeller diameters, together with a range of three-phase motors in differing kW-ratings, ensures the optimum selection of pumps to meet the specific operating requirements. Connection of pump and motor is made via a flexible coupling.



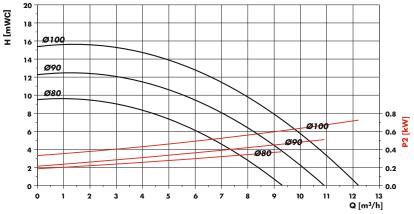
F 706 PP-350

Construction features in detail

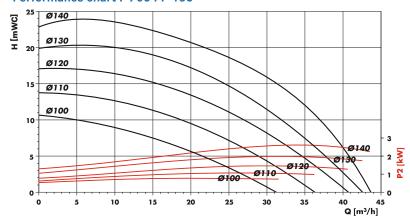


Technical data

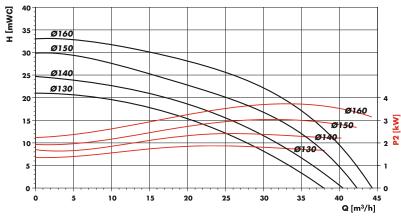




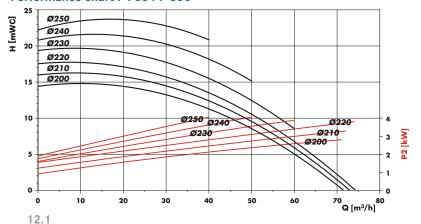
Performance chart F 706 PP-185



Performance chart F 706 PP-230



Performance chart F 706 PP-350



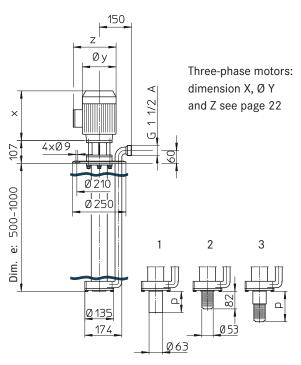
Measured values \pm 10 % determined with water (20 °C). Nominal speed n = 2850 rpm

In order to obtain the desired output, centrifugal impellers in differing diameters are available.

In determining the absorbed kW of the motor, multiply the absorbed kW shown in the above diagram with the specific gravity of the liquid to be pumped.

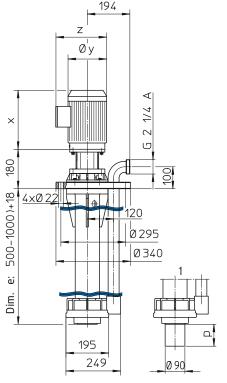
Nominal speed n = 1450 rpm

Technical data Dimensions F 706 PP-135



Dimension p

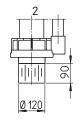
Dimension p max. 1000 mm Dimensions F 706 PP-185

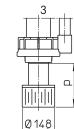


Variant 1 with extension tube

Variant 2 with suction strainer

Variant 3 with extension tube and suction strainer





Basic model Dimension p dimension e max. 1500 mm max. 1000 mm

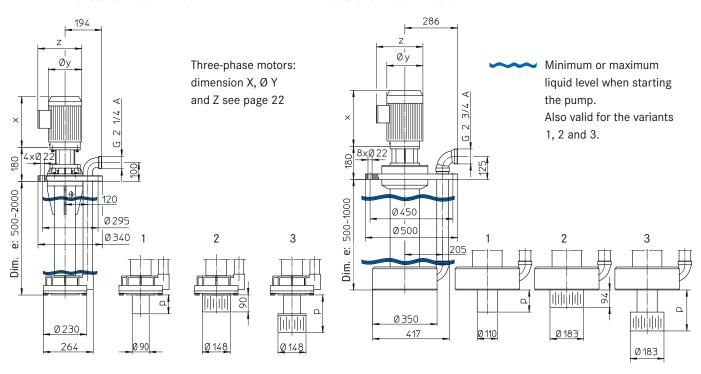
Dimensions F 706 PP-230

max. 1000 mm

Basic model

dimension e

Dimensions F 706 PP-350



Basic model dimension e max. 2000 mm Dimension p max. 1500 mm

Basic model dimension e max. 1000 mm Dimension p max. 1500 mm

Centrifugal Immersion Pumps F 706 PP



Centrifugal Immersion Pump F 706 PP in polypropylene,

with support tube, without drive motor

Type/Size	F 706 PP-135	F 706 PP-185	F 706 PP-230	F 706 PP-350	
Delivery rate Q max.	12 m ³ /h	43 m³/h	44 m³/h	74 m³/h	
Delivery head H max.	15 m water column	23 m water column	33 m water column	23 m water column	
Viscosity max.	150 mPas	150 mPas	150 mPas	150 mPas	
Temperature max.	60 °C	60 °C	60 °C	60 °C	
Seal material	no seals in contact with the liquid				
Material	shaft in stainless stee	el 316 Ti with protective coa	iting in PP, slide bearing in h	ard carbon or fluorosint	
Centrifugal Impeller in PP	Ø 80 – 100 mm	Ø 100 – 140 mm	Ø 130 – 160 mm	Ø 200 – 250 mm	
Pump housing	Ø 174 mm	Ø 249 mm	Ø 264 mm	Ø 417 mm	
Mounting flange in PP	outside Ø 250 mm	outside Ø 340 mm	outside Ø 340 mm	outside Ø 500 mm	
Thread on outlet	G 1½ A	G 21/4 A	G 21/4 A	G 2¾ A	
Motor capacity	0,37 - 0,75 kW n = 2850 rpm	1,5 - 4,0 kW n = 2850 rpm	3,0 - 5,5 kW n = 2850 rpm	3,0 - 5,5 kW n = 1450 rpm	
Part No.					
Immersion length Dimension e 500 mm	706 41 105	706 41 205	706 41 305	706 41 405	
Immersion length Dimension e 700 mm	706 41 107	706 41 207	706 41 307	706 41 407	
Immersion length Dimension e 1000 mm	706 41 210	706 41 210	706 41 310	706 41 410	

Extension tube in PP in steps of 100 mm. Dimension p up to max. 1000 mm at size 135 and up to 1500 mm at sizes 185, 230 and 350.

Suction strainer in PP welded onto the cover of the pump housing or onto the extension tube.

Drive motors for Centrifugal Immersion Pump F 706 PP,

three-phase motors protected to IP 55, with cable terminable box

Capacity P2	Flange Ø	Voltage	Frequency	Nominal speed	Part No.
0,37 kW	120 mm	230/400 V	50 Hz	n = 2850 rpm	001 00 004
0,55 kW	120 mm	230/400 V	50 Hz	n = 2850 rpm	001 00 005
0,75 kW	120 mm	230/400 V	50 Hz	n = 2850 rpm	001 00 034
1,5 kW	160 mm	230/400 V	50 Hz	n = 2850 rpm	001 00 037
2,2 kW	160 mm	230/400 V	50 Hz	n = 2850 rpm	001 00 038
3,0 kW	160 mm	400 V	50 Hz	n = 2850 rpm	001 00 039
4,0 kW	160 mm	400 V	50 Hz	n = 2850 rpm	001 00 040
5,5 kW	160 mm	400 V	50 Hz	n = 2850 rpm	001 00 041
3,0 kW	160 mm	400 V	50 Hz	n = 1450 rpm	001 00 530
4,0 kW	160 mm	400 V	50 Hz	n = 1450 rpm	001 00 511
5,5 kW	160 mm	400 V	50 Hz	n = 1450 rpm	001 00 532

Three-phase motors explosion-proof to II 2 G EEx e II T3 with terminal box on request.

Scope of supply

A complete vertical centrifugal immersion pump consists of: drive motor, pump with mounting flange and necessary accessories. Weight per pump F 706 PP: 13 – 85 kg depending on the pump size, immersion length and motor kW.

FLUX Centrifugal Immersion Pumps F 716 PP and F 716 PVDF

In polypropylene or polyvinylidenfluoride size 115 and 135

Typical applications

Transferring and circulating of neutral or corrosive liquids in the chemical industry and chemical engineering, electroplating industry, steel or stainless steel pickling plants, flue gas decontamination, exhaust air purification, water and waste water treatment.

Construction features

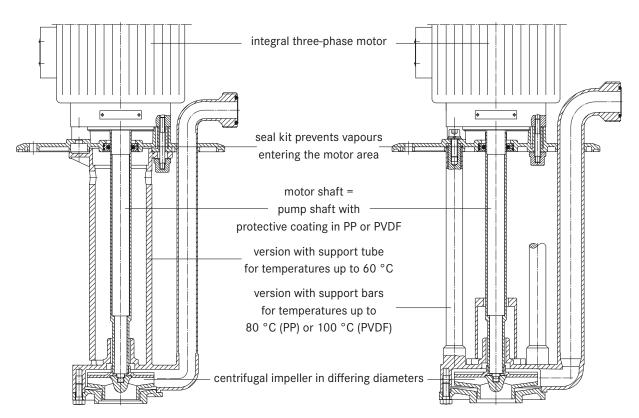
Vertical centrifugal immersion pump for stationary application. With a compact design requiring very little head room above the mounting flange. This design uses a three-phase motor with extended shaft, especially allowing the pump to use the motor shaft. All wetted parts are made in PP or PVDF. The robust support tube (bars) solidly connected to the mounting flange ensures a very smooth running, prevents the rotating elements from making contact with the pump housing and guarantees a very long service life, even in case of continuous use. As neither bearings nor seals are in contact with the liquid, the pump is very wear-resistant and suitable for dry running operation. The immersion length of the pump can be extended, up to 1000 mm maximum, by the suction tube option. A suction strainer welded onto the cover of the pump housing or onto the extension tube protects the pump against the ingress of coarse impurities.

A range of carefully chosen impeller diameters, together with a range of three-phase motors in differing kW-ratings, ensures the optimum selection of pumps to meet the specific operating requirements.

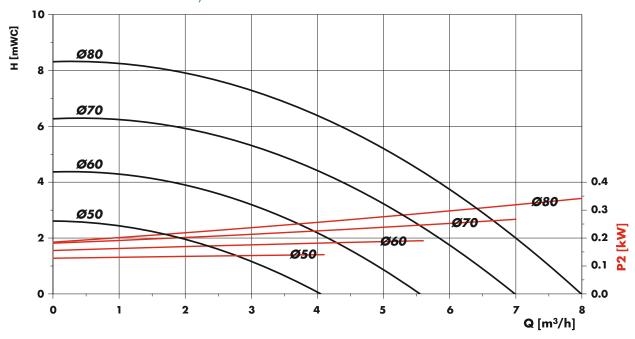


F 716 PVDF2-135

Construction features in detail



Technical data
Performance chart F 716 PP1-115, F 716 PP2-115 and F 716 PVDF2-115

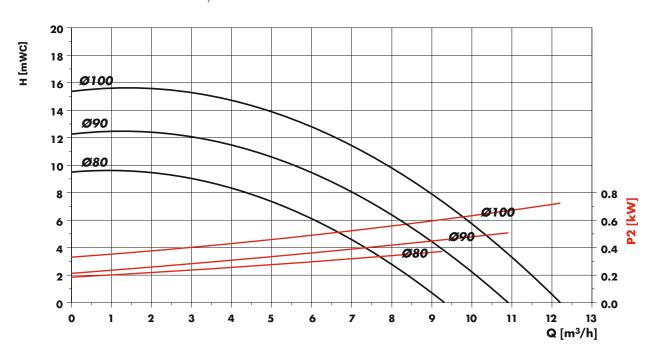


Measured values \pm 10% determined with water (20 °C). Nominal speed n = 2850 rpm

In order to obtain the desired output, centrifugal impellers in differing diameters are available.

In determining the absorbed kW of the motor, multiply the absorbed kW shown in the above diagram with the specific gravity of the liquid to be pumped.

Performance chart F 716 PP1-135, F 716 PP2-135 and F 716 PVDF2-135



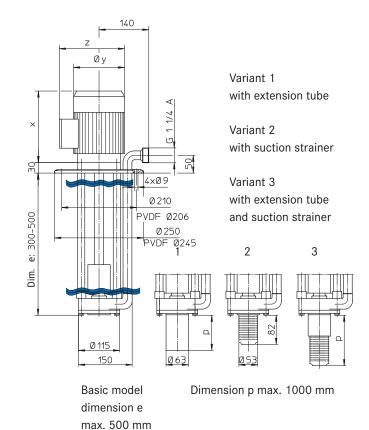
Technical data Dimensions F 716 PP1-115 Version with support tube

Three-phase motors: dimension X, Ø Y and Z see page 22

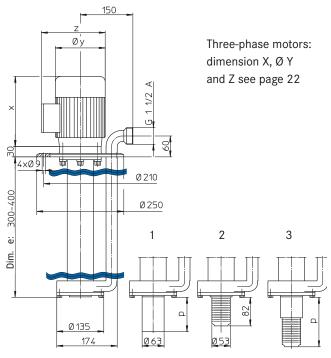
Basic model dimension e max. 400 mm

Dimension p max. 1000 mm

Dimensions F 716 PP2-115 and F 716 PVDF2-115 Version with support bars



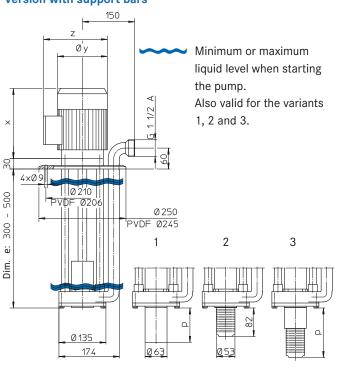
Dimensions F 716 PP1-135 Version with support tube



Basic model dimension e max. 400 mm

Dimension p max. 1000 mm

Dimensions F 716 PP2-135 and F 716 PVDF2-135 Version with support bars



Basic model dimension e max. 500 mm Dimension p max. 1000 mm

14.2

Centrifugal Immersion Pump F 716 PP



Centrifugal Immersion Pump F 716 PP in polypropylene,

with integral three-phase motor

Type/Size	F 716 PP1-115	F 716 PP2-115	F 716 PP1-135	F 716 PP2-135
Version	with support tube	with support bars	with support tube	with support bars
Delivery rate Q max.	8 m ³ /h	8 m³/h	12 m ³ /h	12 m ³ /h
Delivery head H max.	8 m water column	8 m water column	15 m water column	15 m water column
Viscosity max.	150 mPas	150 mPas	150 mPas	150 mPas
Temperature max.	60 °C	80 °C	60 °C	80 °C
Seal material		no bearings nor sea	ls in contact with the liquic	
Material		shaft in stainless steel 31	6 Ti with protective coating	g in PP
Centrifugal impeller in PP	Ø 50 – 80 mm	Ø 50 – 80 mm	Ø 80 – 100 mm	Ø 80 – 100 mm
Pump housing	Ø 150 mm	Ø 150 mm	Ø 174 mm	Ø 174 mm
Mounting flange in PP	Außen-Ø 250 mm	Außen-Ø 250 mm	Außen-Ø 250 mm	Außen-Ø 250 mm
Thread on outlet	G 11/4 A	G 11/4 A	G 11/2 A	G 11/2 A
Part No.			·	
Motor capacity P2	0,37 kW	0,37 kW	0,37 kW	0,37 kW
Immersion length Dimension e 300 mm	716 41 003	716 42 003	716 41 103	716 42 103
Immersion length Dimension e 400 mm	716 41 004	716 42 004	716 41 104	716 42 104
Immersion length Dimension e 500 mm	-	716 42 005	-	716 42 105
Part No.				
Motor capacity P2	0,55 kW	0,55 kW	0,55 kW	0,55 kW
Immersion length Dimension e 300 mm	716 41 013	716 42 013	716 41 113	716 42 113
Immersion length Dimension e 400 mm	716 41 014	716 42 014	716 41 114	716 42 114
Immersion length Dimension e 500 mm	-	716 42 015	-	716 42 115
Part No.			·	
Motor capacity P2	0,75 kW	0,75 kW	0,75 kW	0,75 kW
Immersion length Dimension e 300 mm	_	_	716 41 123	716 42 123
Immersion length Dimension e 400 mm	-	-	716 41 124	716 42 124
Immersion length Dimension e 500 mm		-	-	716 42 125

Centrifugal Immersion Pump F 716 PVDF in polyvinylidenfluoride,

with integral three-phase motor

Type/Size	F 716 PVDF2-115		F 716 PVDF2-135			
Version	with support bars		with support bar	with support bars		
Delivery rate Q max.	8 m ³ /h		12 m ³ /h			
Delivery head H max.	8 m water column		15 m water colu	mn		
Viscosity max.	150 mPas		150 mPas			
Temperature max.	100 °C		100 °C			
Seal material	no bearings nor seals in contact with the liquid					
Material	shaft in stainless steel 316 Ti with protective coating in PVDF					
Centrifugal impeller in PVDF	Ø 50 – 80 mm		Ø 80 – 100 mm			
Pump housing	Ø 150 mm		Ø 174 mm			
Mounting flange in PVDF	outside Ø 245 mm		outside Ø 245 mm			
Thread on outlet						
Part No.	0,37 kW	0,55 kW	0,37 kW	0,55 kW	0,75 kW	
Motor capacity P2	716 62 003	716 62 013	716 62 103	716 62 113	716 62 123	
Immersion length Dimension e 400 mm	716 62 004	716 62 014	716 62 104	716 62 114	716 62 124	
Immersion length Dimension e 500 mm	716 62 005	716 62 015	716 62 105	716 62 115	716 62 125	

Accessories

Extension tube in PP or PVDF in steps of 100 mm. Dimension p up to max. 1000 mm.

Suction strainer in PP or PVDF welded at the cover of the pump housing or at the extension tube.

Scope of supply

A complete vertical centrifugal immersion pump consists of: pump with mounting flange and integral three-phase motor and necessary accessories. Weight per pump: 9 – 15 kg depending on the pump size, immersion length and motor kW.

FLUX Centrifugal Immersion Pump F 716 PP and F 716 PVDF

In polypropylene or polyvinylidenfluoride size 185 and 230

Typical applications

Transferring and circulating of neutral or corrosive liquids in the chemical industry and chemical engineering, electroplating industry, steel or stainless steel pickling plants, flue gas decontamination, exhaust air purification, water and waste water treatment.

Construction features

Vertical centrifugal immersion pump for stationary application. With a compact design requiring very little head room above the mounting flange. This design uses a three-phase motor with extended shaft, allowing the pump to use the motor shaft. All wetted parts are made in PP or PVDF.

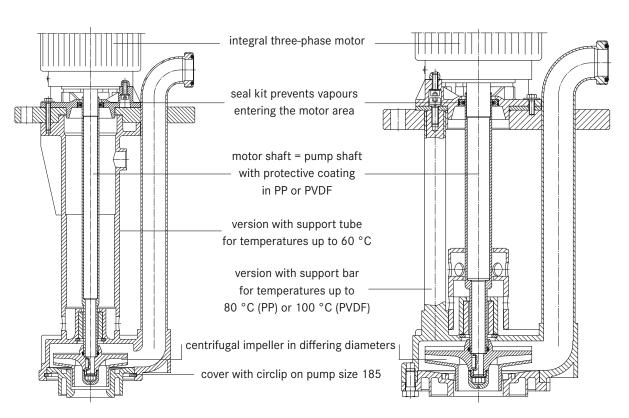
The robust support tube (bars) solidly connected to the mounting flange ensures a very smooth running, prevents the rotating elements from making contact with the pump housing and guarantees a very long service life, even in case of continuous use. As neither bearings nor seals are in contact with the liquid, the pump is very wear-resistant and suitable for dry running operation. The immersion length of the pump can be extended, up to 1500 mm maximum, by the suction tube option. A suction strainer welded onto the cover of the pump housing or onto the extension tube protects the pump against the ingress of coarse impurities.

A range of carefully chosen impeller diameters, together with a range of three-phase motors in differing kW-ratings, ensures the optimum selection of pumps to meet the specific operating requirements.

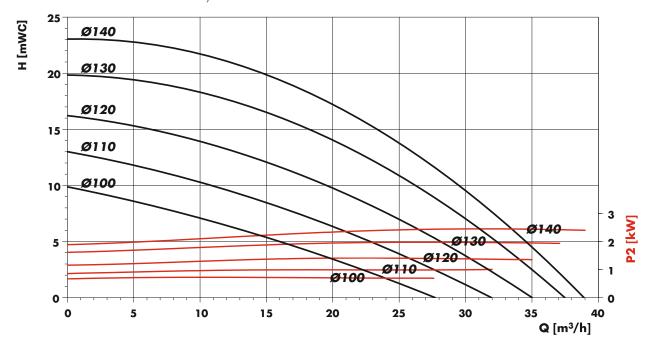


F 716 PVDF2-230

Construction features in detail



Technical data
Performance chart F 716 PP1-185, F 716 PP2-185 and F 716 PVDF2-185

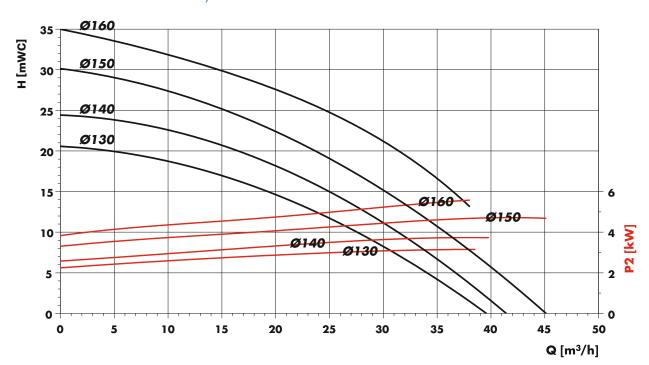


Measured values \pm 10% determined with water (20 °C). Nominal speed n = 2850 rpm

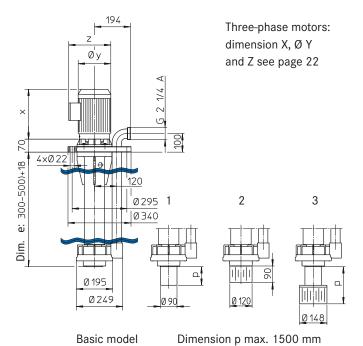
In order to obtain the desired output, centrifugal impellers in differing diameters are available.

In determining the absorbed kW of the motor, multiply the absorbed kW shown in the above diagram with the specific gravity of the liquid to be pumped.

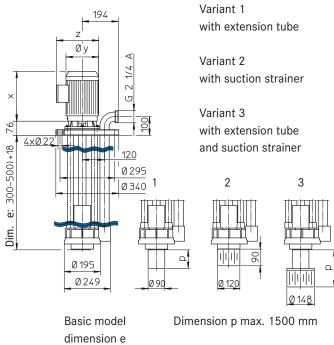
Performance chart F 716 PP1-230, F 716 PP2-230 and F 716 PVDF2-230



Technical data Dimensions F 716 PP1-185 Version with support tube



Dimensions F 716 PP2-185 and F 716 PVDF2-185 Version with support bars



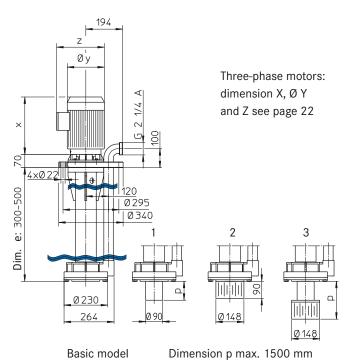
Dimensions F 716 PP1-230 Version with support tube

dimension e

dimension e

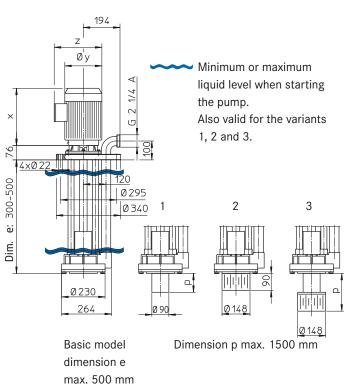
max. 500 mm

max. 500 mm



Dimensions F 716 PP2-230 and F 716 PVDF2-230 Version with support bars

max. 500 mm



Centrifugal Immersion Pump F 716 PP



Centrifugal Immersion Pump F 716 PP in polypropylene,

with integral three-phase motor

Type/Size	F 716 PP1-185	F 716 PP2-185	F 716 PP1-230	F 716 PP2-230
Version	with support tube	with support bars	with support tube	with support bars
Delivery rate Q max.	38 m³/h	38 m³/h	45 m³/h	45 m³/h
Delivery head H max.	23 m water column	23 m water column	35 m water column	35 m water column
Viscosity max.	150 mPas	150 mPas	150 mPas	150 mPas
Temperature max.	60 °C	80 °C	60 °C	80 °C
Seal material		no bearings nor seals i	n contact with the liquid	
Material	sh	aft in stainless steel 316 T	i with protective coating ir	n PP
Centrifugal impeller in PP	Ø 100 – 140 mm	Ø 100 – 140 mm	Ø 130 – 160 mm	Ø 130 – 160 mm
Pump housing	Ø 249 mm	Ø 249 mm	Ø 264 mm	Ø 264 mm
Mounting flange in PP	outside Ø 340 mm	outside Ø 340 mm	outside Ø 340 mm	outside Ø 340 mm
Thread on outlet	G 21/4 A	G 21/4 A	G 21/4 A	G 21/4 A
Part No.				
Motor capacity P2	1,5 kW	1,5 kW	3,0 kW	3,0 kW
Immersion length Dimension e 300 mm	716 41 203	716 42 203	716 41 303	716 42 303
Immersion length Dimension e 400 mm	716 41 204	716 42 204	716 41 304	716 42 304
Immersion length Dimension e 500 mm	716 41 205	716 42 205	716 41 305	716 42 305
Motor capacity P2	2,2 kW	2,2 kW	4,0 kW	4,0 kW
Immersion length Dimension e 300 mm	716 41 213	716 42 213	716 41 313	716 42 313
Immersion length Dimension e 400 mm	716 41 214	716 42 214	716 41 314	716 42 314
Immersion length Dimension e 500 mm	716 41 215	716 42 215	716 41 315	716 42 315
Motor capacity P2	3,0 kW	3,0 kW	5,5 kW	5,5 kW
Immersion length Dimension e 300 mm	716 41 223	716 42 223	716 41 323	716 42 323
Immersion length Dimension e 400 mm	716 41 224	716 42 224	716 41 324	716 42 324
Immersion length Dimension e 500 mm	716 41 225	716 42 225	716 41 325	716 42 325
Motor capacity P2	4,0 kW	4,0 kW	-	-
Immersion length Dimension e 300 mm	716 41 233	716 42 233	-	_
Immersion length Dimension e 400 mm	716 41 234	716 42 234	-	-
Immersion length Dimension e 500 mm	716 41 235	716 42 235	_	-

Centrifugal Immersion Pump F 716 PVDF in polyvinylidenfluoride,

with integral three-phase motor

Type/Size	F 716 PVDF2-185		F 716 PVDF2-230	
Version	with support bars		with support bars	
Delivery rate Q max.	38 m³/h		45 m ³ /h	
Delivery head H max.	23 m water column		35 m water column	
Viscosity max.	150 mPas		150 mPas	
Temperature max.	100 °C		100 °C	
Seal material		no bearings nor seals	in contact with the liquid	
Material	sha	aft in stainless steel 316 T	i with protective coating ir	PVDF
Centrifugal impeller in PVDF	Ø 100 – 140 mm		Ø 130 – 160 mm	
Pump housing	Ø 249 mm		Ø 264 mm	
Mounting flange in RCH1000	outer Ø 340 mm	outer Ø 340 mm		
Thread on outlet	G 21/4 A		G 21/4 A	
Part No.				
Motor capacity P2	1,5 kW	2,2 kW	3,0 kW	4,0 kW
Immersion length Dimension e 300 mm	716 62 203	716 62 213	716 62 303	716 62 313
Immersion length Dimension e 400 mm	716 62 204	716 62 214	716 62 304	716 62 314
Immersion length Dimension e 500 mm	716 62 205	716 62 215	716 62 305	716 62 315
Motor capacity P2	3,0 kW	4,0 kW	5,5 kW	
Immersion length Dimension e 300 mm	716 62 223	716 62 233	716 62 323	
Immersion length Dimension e 400 mm	716 62 224	716 62 234	716 62 324	
Immersion length Dimension e 500 mm	716 62 225	716 62 235	716 62 325	

Accessories

Extension tube in PP or PVDF in steps of 100 mm. Dimension p up to max. 1500 mm.

Suction strainer in PP or PVDF welded onto the cover of the pump housing or onto the extension tube.

FLUX Centrifugal Immersion Pump F 726 PP and F 726 PVDF

In polypropylene or polyvinylidenfluoride size 115 and 135

Typical applications

Transferring and circulating of neutral or corrosive liquids in the whole field of the chemical industry and chemical engineering, electroplating industry, steel or stainless steel pickling plants, flue gas decontamination, exhaust air purification, water and waste-water treatment.

Construction features

Vertical centrifugal immersion pump for stationary application. The robust pump shaft is mounted in an upper pedestal and supported by two antifriction bearings. This construction, with the bearings spaced along the pedestal, ensures that any radial or axial forces are absorbed, even under heavy load. The result is a very smooth running pump. The solid version with support bars prevents the rotating elements from making contact with the pump housing and guarantees a very long service life, even in continuous use applications. As neither bearing nor seals are in contact with the liquid, the pump is very wear-resistant and suitable for dry running operation. The immersion length of the pump can be extended, up to 1000 mm maximum, by the suction tube option. A suction strainer welded onto the cover of the pump housing or onto the extension tube protects the pump against the ingress of coarse impurities.

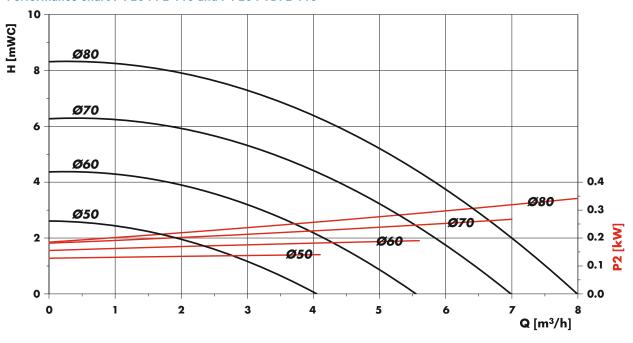
A range of carefully chosen impeller diameters, together with a range of three-phase motors in differing kW-ratings, ensures the optimum selection of pumps to meet the specific operating requirements.



F 726 PVDF2-135

Construction features in detail 2 antifriction bearings located in a pedestal seal kit prevents vapours entering the pedestal robust pump shaft with protective coating in PP or PVDF version with support bars for temperatures up to 80 °C (PP) or 100 °C (PVDF) centrifugal impeller in differing diameters

Technical data
Performance chart F 726 PP2-115 and F 726 PVDF2-115

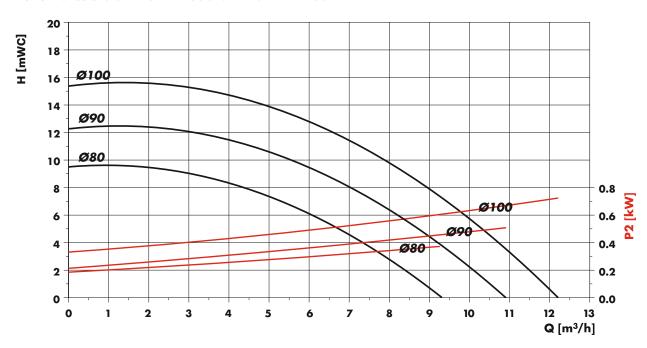


Measured values \pm 10% determined with water (20 °C). Nominal speed n = 2850 rpm

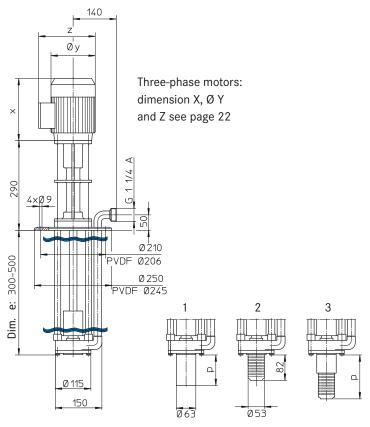
In order to achieve the desired output, centrifugal impellers in differing diameters are available.

In determining the absorbed kW of the motor, multiply the absorbed kW shown in the above diagram with the specific gravity of the liquid to be pumped.

Performance chart F 726 PP2-135 and F 726 PVDF2-135



Technical data Dimensions F 726 PP2-115 and F 726 PVDF2-115



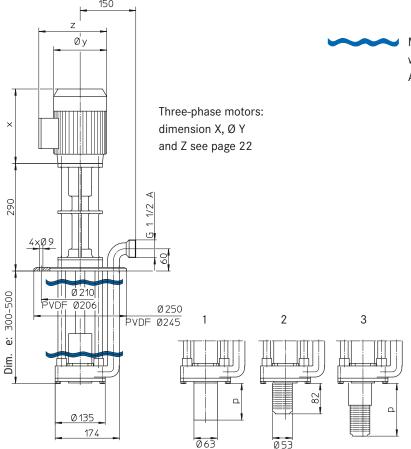
Basic model dimension e max. 500 mm

Variant 1 with extension tube dimension p max. 1000 mm

Variant 2 with suction strainer

Variant 3 with extension tube and suction strainer

Dimensions F 726 PP2-135 and F 726 PVDF2-135



Minimum or maximum liquid level when starting the pump.
Also valid for the variants 1, 2 and 3.

Basic model dimension e max. 500 mm

Variant 1 with extension tube dimension p max. 1000 mm

Variant 2 with suction strainer

Variant 3 with extension tube and suction strainer

Centrifugal Immersion Pump F 726 PP



Centrifugal Immersion Pump F 726 PP in polypropylene and F 726 PVDF in polyvinylidenfluoride,

version with support bars, without drive motor

Type/Size	F 726 PP2-115	F 726 PP2-135	F 726 PVDF2-115	F 726 PVDF2-135
Delivery rate Q max.	8 m ³ /h	12 m³/h	8 m ³ /h	12 m ³ /h
Delivery head H max.	8 m water column	15 m water column	8 m water column	15 m water column
Viscosity max.	150 mPas	150 mPas	150 mPas	150 mPas
Temperature max.	80 °C	80 °C	100 °C	100 °C
Seal material		no bearings nor seal	s in contact with the liquic	
Material	shaft in stainless steel 316 Ti with protective coating in PP			
Centrifugal impeller in PP or PVDF	Ø 50 – 80 mm	Ø 80 – 100 mm	Ø 50 – 80 mm	Ø 80 – 100 mm
Pump housing	Ø 150 mm	Ø 174 mm	Ø 150 mm	Ø 174 mm
Mounting flange in PP or PVDF	outside Ø 250 mm	outside Ø 250 mm	outside Ø 245 mm	outside Ø 245 mm
Thread on outlet	G 11/4 A	G 11/2 A	G 11/4 A	G 11/2 A
Part No.				
Immersion length Dimension e 300 mm	726 42 003	726 42 103	726 62 003	726 62 103
Immersion length Dimension e 400 mm	726 42 004	726 42 104	726 62 004	726 62 104
Immersion length Dimension e 500 mm	726 42 005	726 42 105	726 62 005	726 62 105

Accessories

Extension tube in PP or PVDF in steps of 100 mm. Dimension p up to. max. 1000 mm.

Suction strainer in PP or PVDF welded onto the cover of the pump housing or onto the extension tube.

Drive motors for Centrifugal Immersion Pump F 726 PP and F 726 PVDF,

three-phase motors protected to IP 55, with cable terminable box

Capacity P2	Flange Ø	Voltage	Frequency	Nominal speed	Part No.
0,37 kW	120 mm	230/400 V	50 Hz	2850 rpm	001 00 004
0,55 kW	120 mm	230/400 V	50 Hz	2850 rpm	001 00 005
0,75 kW	120 mm	230/400 V	50 Hz	2850 rpm	001 00 034

Drive motors explosion-proof to II 2 G EEx e II T3 with cable terminal box on request.

Scope of supply

A complete vertical centrifugal immersion pump consists of: drive motor, pump with mounting flange and the necessary accessories. Weight per pump 17 – 30 kg depending on the pump size, immersion length and motor kW.

FLUX Centrifugal Immersion Pump F 726 PP and F 726 PVDF

In polypropylene or polyvinylidenfluoride size 185 and 230

Typical applications

Transferring and circulating of neutral or corrosive liquids in the whole field of the chemical industry and chemical engineering, electroplating industry, steel or stainless steel pickling plants, flue gas decontamination, exhaust air purification, water and waste-water treatment.

Construction features

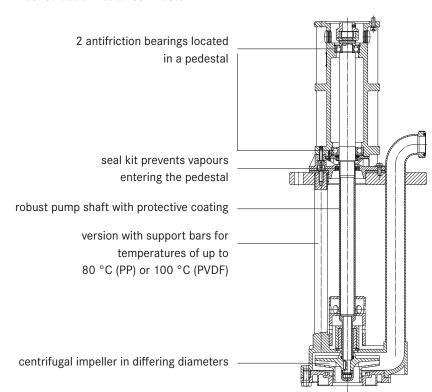
Vertical centrifugal immersion pump for stationary application. The robust pump shaft is mounted in an upper pedestal and supported by two antifriction bearings. This construction, with the bearings spaced along the pedestal, ensures that any radial or axial forces are absorbed, even under heavy load. The result is a very smooth running pump. The solid version with support bars prevents the rotating elements from making contact with the pump housing and guarantees a very long service life, even in continuous use applications. As neither bearing nor seals are in contact with the liquid, the pump is very wear-resistant and suitable for dry running operation. The immersion length of the pump can be extended, up to 1500 mm maximum, by the suction tube option. A suction strainer welded onto the cover of the pump housing or onto the extension tube protects the pump against the ingress of coarse impurities.

A range of carefully chosen impeller diameters, together with a range of three-phase motors in differing kW-ratings, ensures the optimum selection of pumps to meet the specific operating requirements.

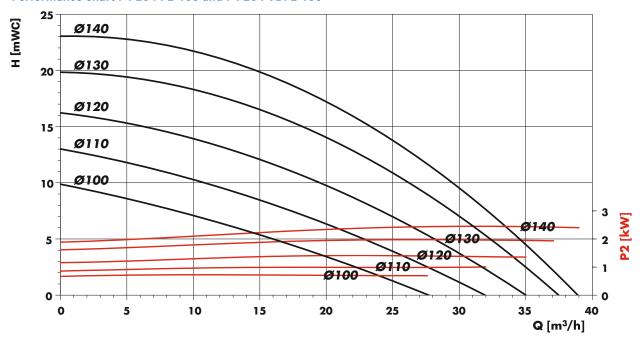


F 726 PVDF2-230

Construction features in detail



Technical data
Performance chart F 726 PP2-185 and F 726 PVDF2-185

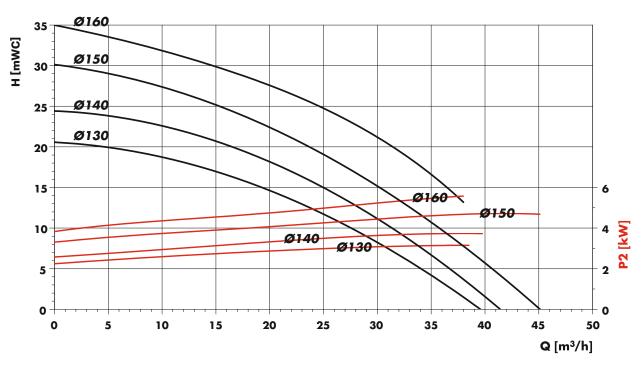


Measured values \pm 10% determined with water (20 °C). Nominal speed n = 2850 rpm

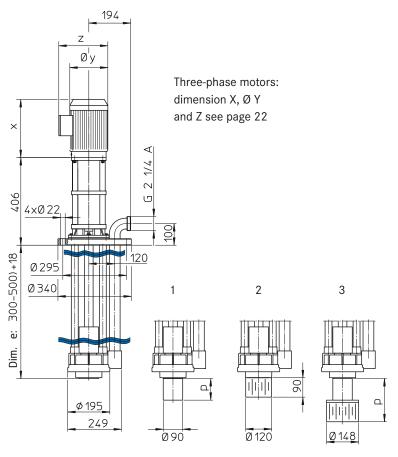
In order to achieve the desired output, centrifugal impellers in differing diameters are available.

In determining the absorbed kW of the motor, multiply the absorbed kW shown in the above diagram with the specific gravity of the liquid to be pumped.

Performance chart F 726 PP2-230 and F 726 PVDF2-230



Technical data Dimensions F 726 PP2-185 and F 726 PVDF2-185



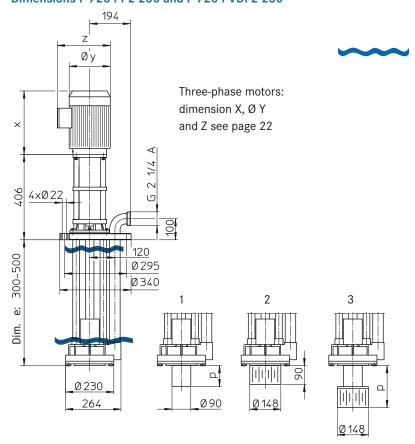
Basic model dimension e max. 500 mm

Variant 1 with extension tube dimension p max. 1500 mm

Variant 2 with suction strainer

Variant 3 with extension tube and suction strainer

Dimensions F 726 PP2-230 and F 726 PVDF2-230



Minimum or maximum liquid level when starting the pump.
Also valid for the variants 1, 2 and 3.

Basic model dimension e max. 500 mm

Variant 1 with extension tube dimension p max. 1500 mm

Variant 2 with suction strainer

Variant 3 with extension tube and suction strainer

Centrifugal Immersion Pump F 726 PP



Centrifugal Immersion Pump F 726 PP in polypropylene and F 726 PVDF in polyvinylidenfluoride,

version with support bars, without drive motor

Type/Size	F 726 PP2-185	F 726 PP2-230	F 726 PVDF2-185	F 726 PVDF2-230
Delivery rate Q max.	38 m³/h	45 m³/h	38 m³/h	45 m ³ /h
Delivery head H max.	23 m water column	35 m water column	23 m water column	35 m water column
Viscosity max.	150 mPas	150 mPas	150 mPas	150 mPas
Temperature max.	80 °C	80 °C	100 °C	100 °C
Seal material		no bearings nor seal	s in contact with the liquid	
Material	shaft in stainless steel 316 Ti with protective coating in PP			
Centrifugal impeller in PP or PVDF	Ø 100 – 140 mm	Ø 130 – 160 mm	Ø 100 – 140 mm	Ø 130 – 160 mm
Pump housing	Ø 249 mm	Ø 264 mm	Ø 249 mm	Ø 264 mm
Mounting flange in PP or RCH 1000	outside Ø 340 mm	outside Ø 340 mm	outside Ø 340 mm	outside Ø 340 mm
Thread on outlet	G 21/4 A	G 21/4 A	G 21/4 A	G 21/4 A
Part No.				
Immersion length Dimension e 300 mm	726 42 203	726 42 303	726 62 203	726 62 303
Immersion length Dimension e 400 mm	726 42 204	726 42 304	726 62 204	726 62 304
Immersion length Dimension e 500 mm	726 42 205	726 42 305	726 62 205	726 62 305

Accessories

Extension tube in PP or PVDF in steps of 100 mm, Dimension p up to max. 1500 mm.

Suction strainer in PP or PVDF welded onto the cover of the pump housing or onto the extension tube.

Drive motor for Centrifugal Immersion Pump F 726 PP and F 726 PVDF,

three-phase motors protected to IP 55, with cable terminal box

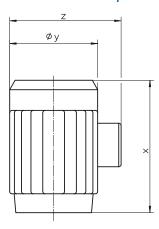
Capacity P2	Flange Ø	Voltage	Frequency	Nominal speed	Part No.
1,5 kW	160 mm	230/400 V	50 Hz	2850 rpm	001 00 037
2,2 kW	160 mm	230/400 V	50 Hz	2850 rpm	001 00 038
3,0 kW	160 mm	400 V	50 Hz	2850 rpm	001 00 039
4,0 kW	160 mm	400 V	50 Hz	2850 rpm	001 00 040
5.5 kW	160 mm	400 V	50 Hz	2850 rpm	001 00 041

Three-phase motors explosion-proof to II 2 G EEx e II T3 with cable terminal box on request.

Scope of supply

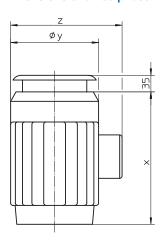
A complete vertical centrifugal immersion pump consists of: drive motor, pump with mounting flange and the necessary accessories. Weight per pump 25 – 75 kg depending on the pump size, immersion length and motor kW.

Dimensions of three-phase motors protected to IP 55



Capacity P2	Nominal speed	X	ØY	Z
0,37 kW	2850 rpm	201	143	183
0,55 kW	2850 rpm	201	143	183
0,75 kW	2850 rpm	232	158	201
1,1 kW	2850 rpm	232	158	201
1,5 kW	2850 rpm	244	176	227
2,2 kW	2850 rpm	269	176	227
3,0 kW	2850 rpm	303	196	252
4,0 kW	2850 rpm	320	220	277
5,5 kW	2850 rpm	405	246	313
3,0 kW	1450 rpm	303	196	252
4,0 kW	1450 rpm	320	220	277
5,5 kW	1450 rpm	405	246	313

Dimensions of three-phase motors explosion-proof to II 2 G EEx e II T3 $\,$



Capacity P2	Nominal speed	X	ØY	Z
0,75 kW	2850 rpm	232	158	212
1,1 kW	2850 rpm	232	158	212
1,5 kW	2850 rpm	244	176	237
2,0 kW	2850 rpm	269	176	237
2,5 kW	2850 rpm	303	196	256
3,3 kW	2850 rpm	320	220	279

For your Notes

		•

Questionnaire to quote on

FLUX Vertical Centrifugal Immersion Pumps



Requested version				
for portable application	for station	nary application	for ho	rizontal application
Liquid data				
Description		Chemical Formula		
Concentration	%	Specific gravity		g/cm ³
Viscosity mPas/cP at	°C	Operating temperature		°C
Solids in suspension g/l hard	soft	Size of solids		mm
Does liquid cristallize? Yes	☐ No	at		°C
Which materials are resistant to liquid according to	previous exp	erience?		
Operating data				
Delivery rate	m³/h	Delivery head		_ m water column
Immersion length	mm	Suction strainer	Yes	☐ No
Mounting flange in special dimensions:		Extension tube	☐ Yes	☐ No
outside Ø mm, p.c. Ø	_ mm	Dimension p =	mm	
pressure flange Yes No				
outside Ø mm, p.c. Ø	_ mm	Ø of the container opening		mm
Operating time per day		Number of starts		
Drive motor				
☐ Three-phase motor		Operating voltage	Volt _	Hz
Is motor to be explosion-proof?	☐ No			
Quotation to be sent by:				
Telephone E-Mail	☐ Telefax			
Mr. / Mrs:		Title:		
Company:				
Address:				
ZIP / City / Country:				
Phone:		Telefax:		
Mobile:		E-Mail:		





Today the FLUX name is recognised around the globe as the trademark for top standards in pump technology. Everything started with the invention of the electric drum pump in 1950. Nowadays FLUX has an extensive range of products each of which can be customized. FLUX pumps are used for example in the chemical and pharmaceutical industries; in machinery and plant engineering as well as companies in electroplating, effluent treatment and the foodstuffs sector.

Whether single-product or system solution – FLUX quality is synonymous with a long service life, excellent economy and maximum safety.

In addition to the excellent product quality FLUX customers appreciate the superb level of expertise our staff has to offer as well as their genuine customer focus.

These days FLUX-GERÄTE GMBH supplies pumps to almost 100 countries around the globe.



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-pumpen.de