

FLUX Centrifugal Immersion Pumps

F 716 PP and F 716 PVDF

In polypropylene or polyvinylidene fluoride 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 1 000 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.

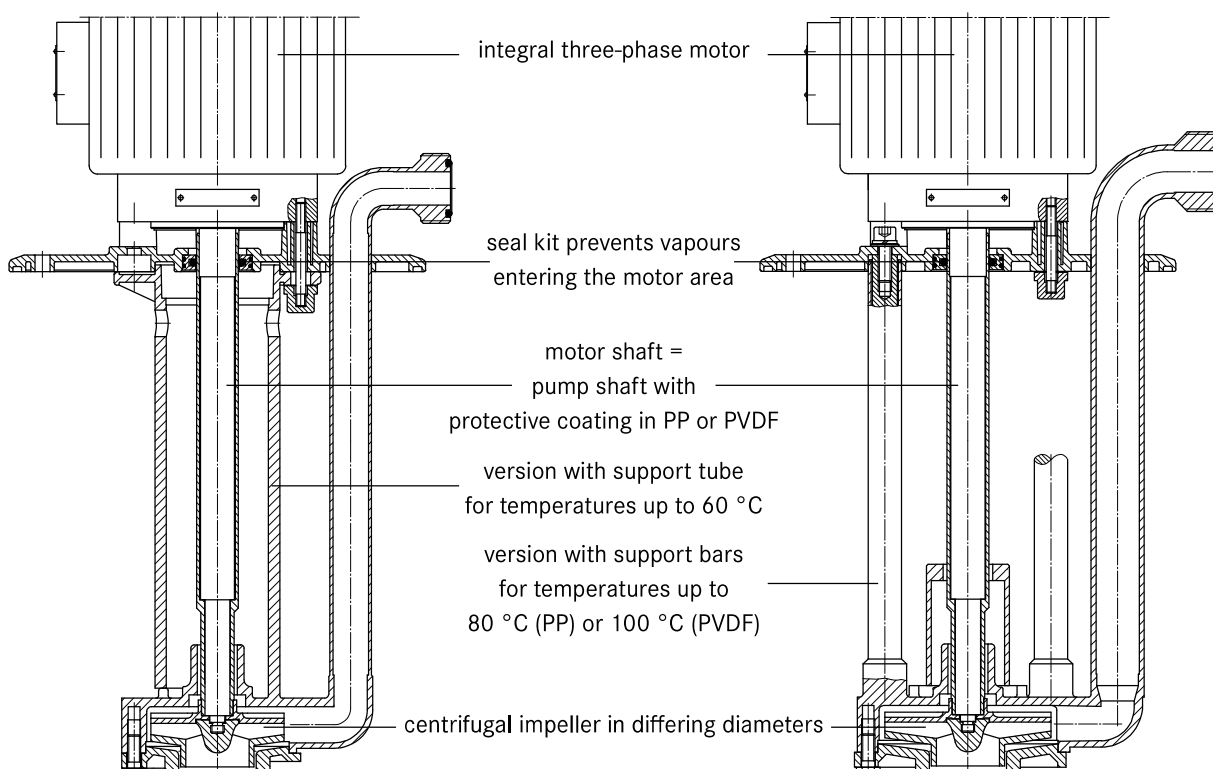
A range of carefully chosen impeller diameters, together with a range of three-phase motors in differing kW-ratings, ensures the optimum selection of pumps to meet the specific operating requirements.



F 716 PP1-115

F 716 PVDF2-135

Construction features in detail



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 m ³ /h	12 m ³ /h	12 m ³ /h
Delivery head H max.	8 mwc	8 mwc	15 mwc	15 mwc
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 in contact with the liquid			
Material	shaft in stainless steel 316 Ti with protective coating 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 1¼ A	G 1¼ A	G 1½ A	G 1½ A
Part No.				
Motor capacity P2	0,37 kW	0,37 kW	0,37 kW	0,37 kW
Immersion length Dimension e 300 mm	10-716 41 003	10-716 42 003	10-716 41 103	10-716 42 103
Immersion length Dimension e 400 mm	10-716 41 004	10-716 42 004	10-716 41 104	10-716 42 104
Immersion length Dimension e 500 mm	-	10-716 42 005	-	10-716 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	10-716 41 013	10-716 42 013	10-716 41 113	10-716 42 113
Immersion length Dimension e 400 mm	10-716 41 014	10-716 42 014	10-716 41 114	10-716 42 114
Immersion length Dimension e 500 mm	-	10-716 42 015	-	10-716 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	-	-	10-716 41 123	10-716 42 123
Immersion length Dimension e 400 mm	-	-	10-716 41 124	10-716 42 124
Immersion length Dimension e 500 mm	-	-	-	10-716 42 125

Centrifugal Immersion Pump F 716 PVDF in polyvinylidene fluoride,

with integral three-phase motor

Type/Size	F 716 PVDF2-115		F 716 PVDF2-135		
Version	with support bars		with support bars		
Delivery rate Q max.	8 m ³ /h		12 m ³ /h		
Delivery head H max.	8 mwc		15 mwc		
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	10-716 62 003	10-716 62 013	10-716 62 103	10-716 62 113	10-716 62 123
Immersion length Dimension e 400 mm	10-716 62 004	10-716 62 014	10-716 62 104	10-716 62 114	10-716 62 124
Immersion length Dimension e 500 mm	10-716 62 005	10-716 62 015	10-716 62 105	10-716 62 115	10-716 62 125

Accessories

Extension tube in PP or PVDF in steps of 100 mm. Dimension p up to max. 1 000 mm.

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

Scope of supply

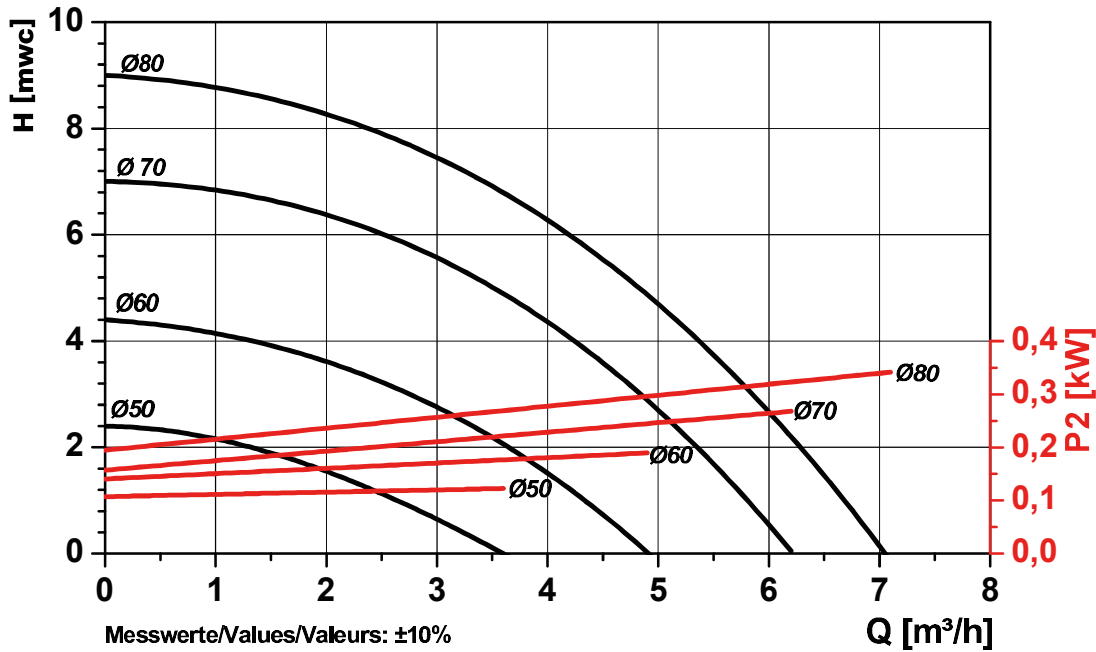
A complete vertical centrifugal immersion pump consists of: pump with mounting flange and integral three-phase motor and necessary accessories. Weight per pump: 9 – 15 kg depending on the pump size, immersion length and motor kW.

FLUX Centrifugal Immersion Pumps F 716 PP and F 716 PVDF

In polypropylene or polyvinylidene fluoride size 115 and 135

Technical data

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

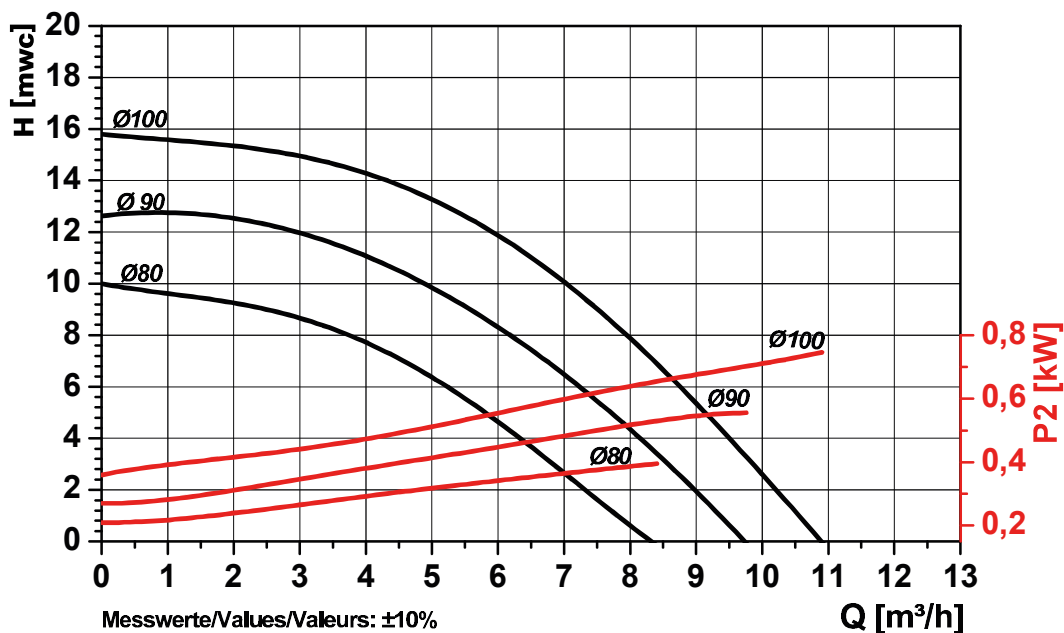


Measured values $\pm 10\%$ determined with water (20 °C). Nominal speed $n = 2\,850$ rpm

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.

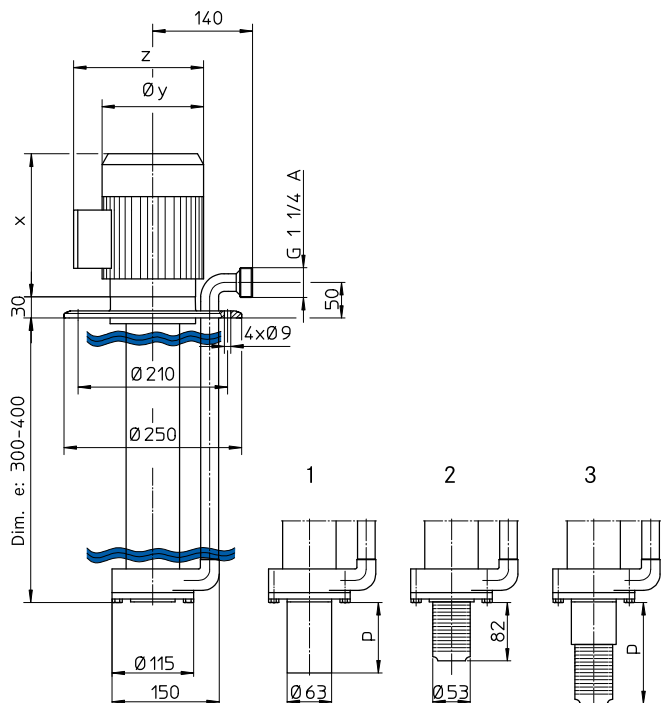
Performance chart F 716 PP1-135, F 716 PP2-135 and F 716 PVDF2-135



Technical data

Dimensions [mm] F 716 PP1-115

Version with support tube

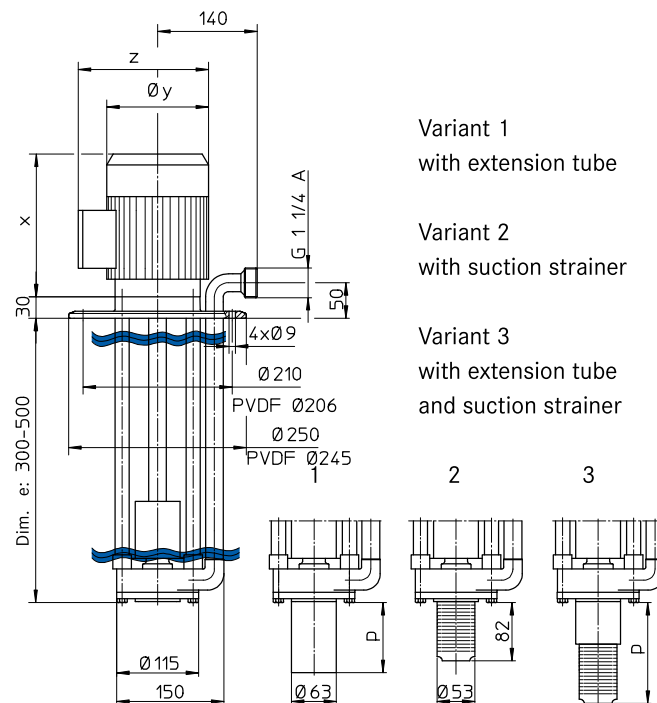


Basic model
dimension e
max. 400 mm

Dimension p max. 1 000 mm

Dimensions [mm] F 716 PP2-115 and F 716 PVDF2-115

Version with support bars



Basic model
dimension e
max. 500 mm

Dimension p max. 1 000 mm

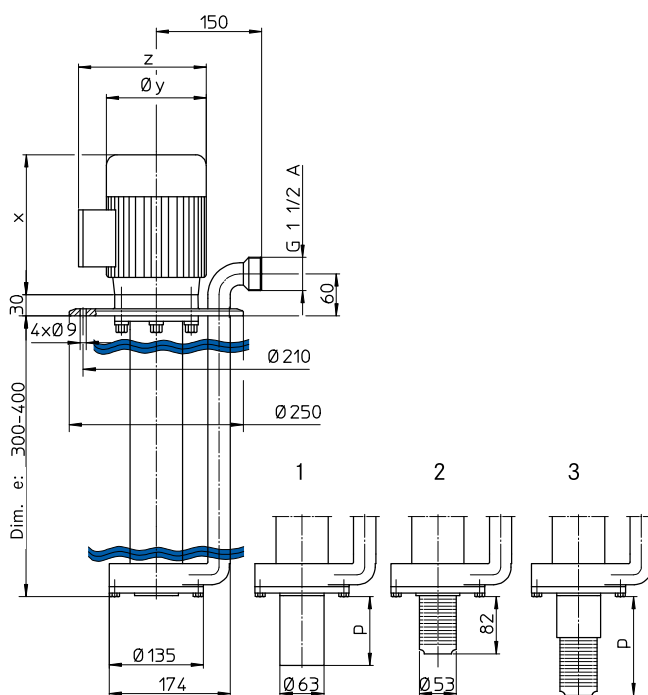
Variant 1
with extension tube

Variant 2
with suction strainer

Variant 3
with extension tube
and suction strainer

Dimensions [mm] F 716 PP1-135

Version with support tube

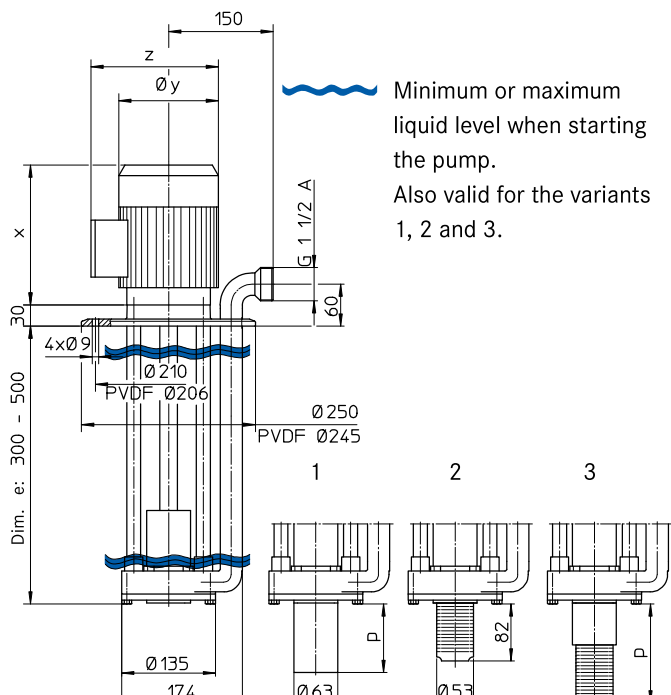


Basic model
dimension e
max. 400 mm

Dimension p max. 1 000 mm

Dimensions [mm] F 716 PP2-135 and F 716 PVDF2-135

Version with support bars



Basic model
dimension e
max. 500 mm

Dimension p max. 1 000 mm

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

FLUX Centrifugal Immersion Pump

F 716 PP and F 716 PVDF

In polypropylene or polyvinylidene fluoride 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.

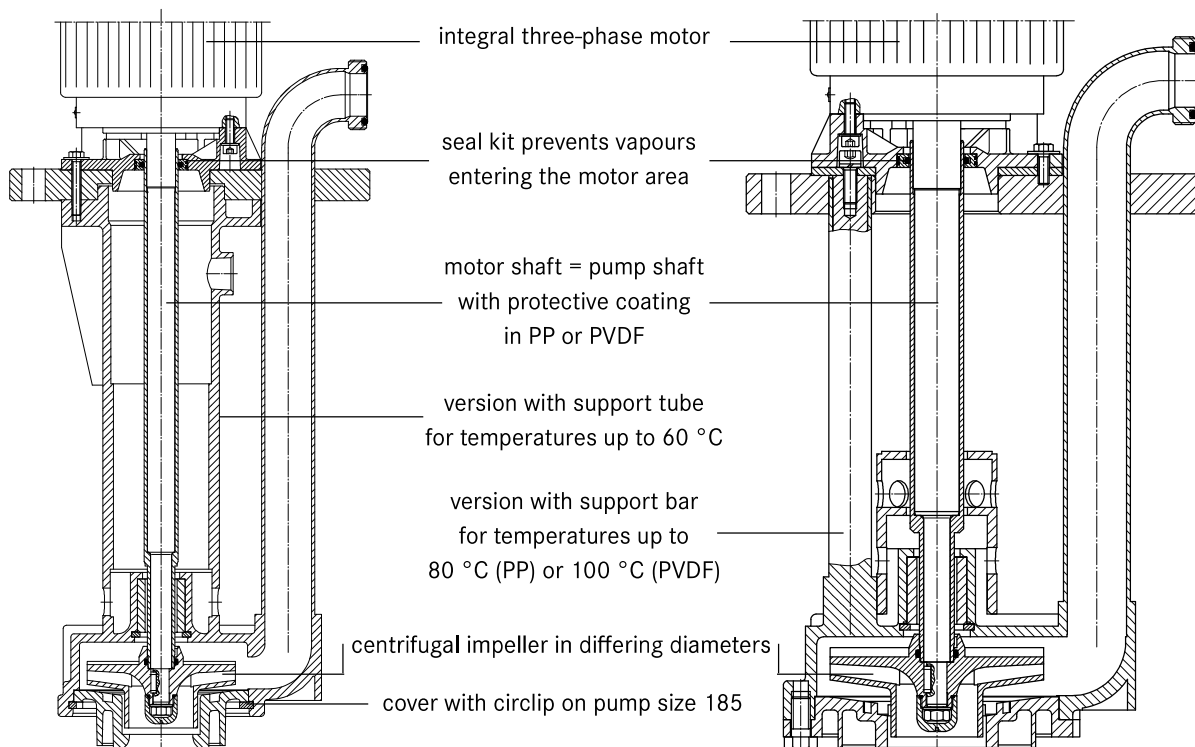
Construction features

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 1 500 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.

Construction features in detail



F 716 PP1-185

F 716 PVDF2-230

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 m ³ /h	38 m ³ /h	45 m ³ /h	45 m ³ /h
Delivery head H max.	23 mwc	23 mwc	35 mwc	35 mwc
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 in contact with the liquid			
Material	shaft in stainless steel 316 Ti with protective coating in 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 2¼ A	G 2¼ A	G 2¼ A	G 2¼ A
Part No.				
Motor capacity P2	1,5 kW	1,5 kW	3,0 kW	3,0 kW
Immersion length Dimension e 300 mm	10-716 41 203	10-716 42 203	10-716 41 303	10-716 42 303
Immersion length Dimension e 400 mm	10-716 41 204	10-716 42 204	10-716 41 304	10-716 42 304
Immersion length Dimension e 500 mm	10-716 41 205	10-716 42 205	10-716 41 305	10-716 42 305
Motor capacity P2	2,2 kW	2,2 kW	4,0 kW	4,0 kW
Immersion length Dimension e 300 mm	10-716 41 213	10-716 42 213	10-716 41 313	10-716 42 313
Immersion length Dimension e 400 mm	10-716 41 214	10-716 42 214	10-716 41 314	10-716 42 314
Immersion length Dimension e 500 mm	10-716 41 215	10-716 42 215	10-716 41 315	10-716 42 315
Motor capacity P2	3,0 kW	3,0 kW	5,5 kW	5,5 kW
Immersion length Dimension e 300 mm	10-716 41 223	10-716 42 223	10-716 41 323	10-716 42 323
Immersion length Dimension e 400 mm	10-716 41 224	10-716 42 224	10-716 41 324	10-716 42 324
Immersion length Dimension e 500 mm	10-716 41 225	10-716 42 225	10-716 41 325	10-716 42 325
Motor capacity P2	4,0 kW	4,0 kW	-	-
Immersion length Dimension e 300 mm	10-716 41 233	10-716 42 233	-	-
Immersion length Dimension e 400 mm	10-716 41 234	10-716 42 234	-	-
Immersion length Dimension e 500 mm	10-716 41 235	10-716 42 235	-	-

Centrifugal Immersion Pump F 716 PVDF in polyvinylidene fluoride,

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 m ³ /h	45 m ³ /h
Delivery head H max.	23 mwc	35 mwc
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 100 – 140 mm	Ø 130 – 160 mm
Pump housing	Ø 249 mm	Ø 264 mm
Mounting flange in RCH1 000	outer Ø 340 mm	outer Ø 340 mm
Thread on outlet	G 2¼ A	G 2¼ A
Part No.		
Motor capacity P2	1,5 kW	2,2 kW
Immersion length Dimension e 300 mm	10-716 62 203	10-716 62 213
Immersion length Dimension e 400 mm	10-716 62 204	10-716 62 214
Immersion length Dimension e 500 mm	10-716 62 205	10-716 62 215
Motor capacity P2	3,0 kW	4,0 kW
Immersion length Dimension e 300 mm	10-716 62 223	10-716 62 233
Immersion length Dimension e 400 mm	10-716 62 224	10-716 62 234
Immersion length Dimension e 500 mm	10-716 62 225	10-716 62 235

Accessories

Extension tube in PP or PVDF in steps of 100 mm. Dimension p up to max. 1 500 mm.

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

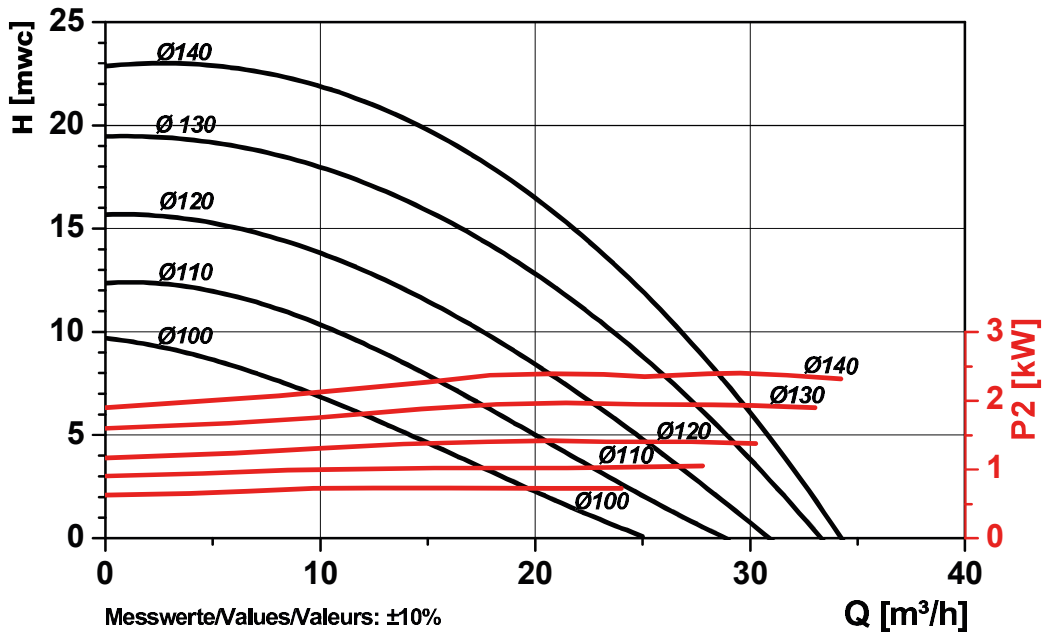
Weight per pump: 22 – 50 kg depending on the pump size, immersion length and motor kW.

FLUX Centrifugal Immersion Pump F 716 PP and F 716 PVDF

In polypropylene or polyvinylidene fluoride size 185 and 230

Technical data

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

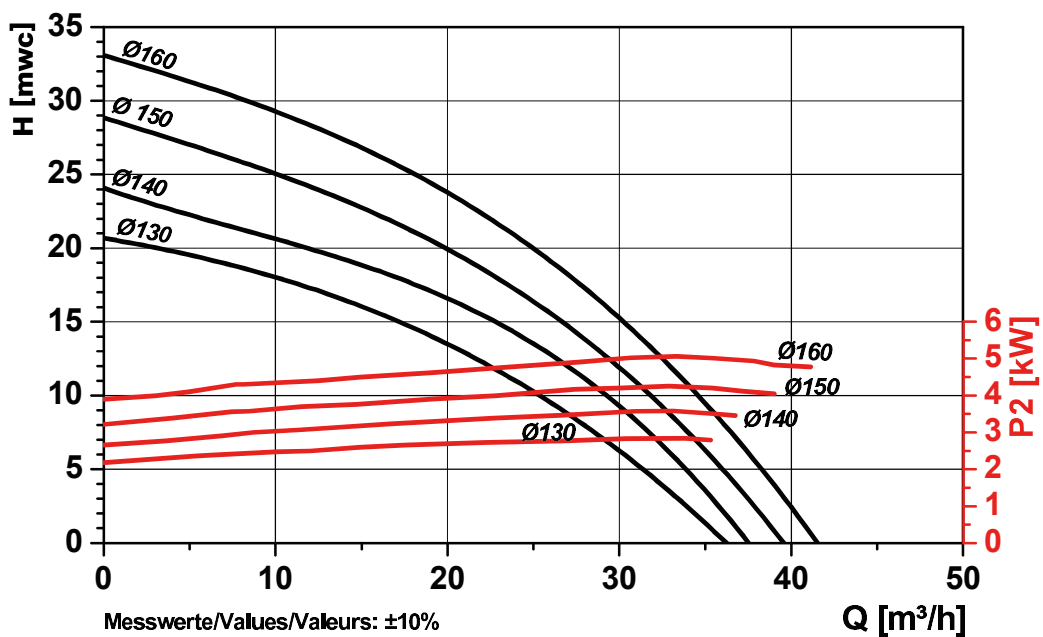


Measured values ± 10 % determined with water (20 °C). Nominal speed n = 2 850 rpm

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.

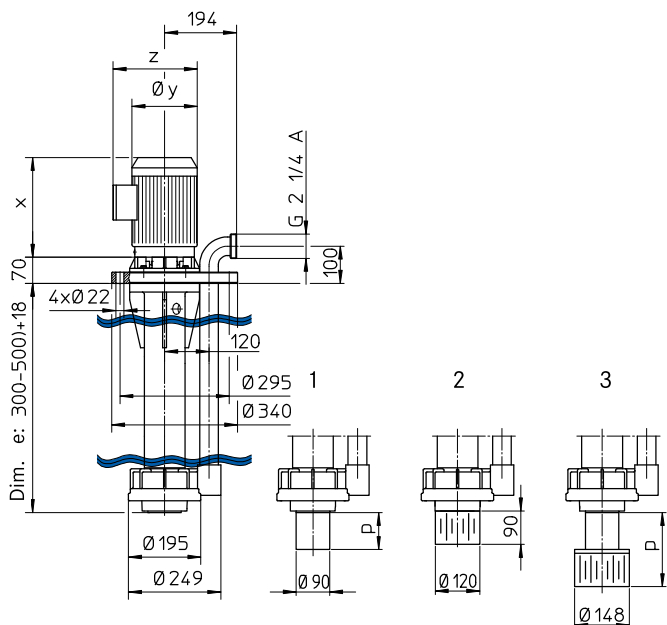
Performance chart F 716 PP1-230, F 716 PP2-230 and F 716 PVDF2-230



Technical data

Dimensions [mm] F 716 PP1-185

Version with support tube

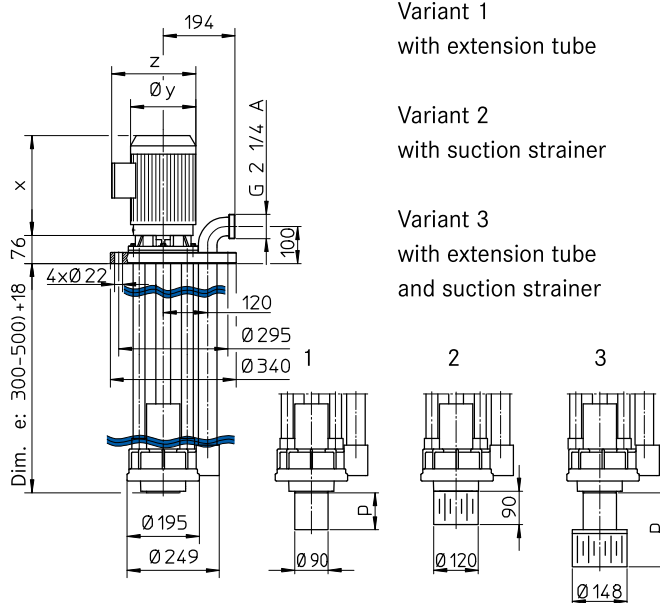


Basic model
dimension e
max. 500 mm

Dimension p max. 1 500 mm

Dimensions [mm] F 716 PP2-185 and F 716 PVDF2-185

Version with support bars



Basic model
dimension e
max. 500 mm

Dimension p max. 1 500 mm

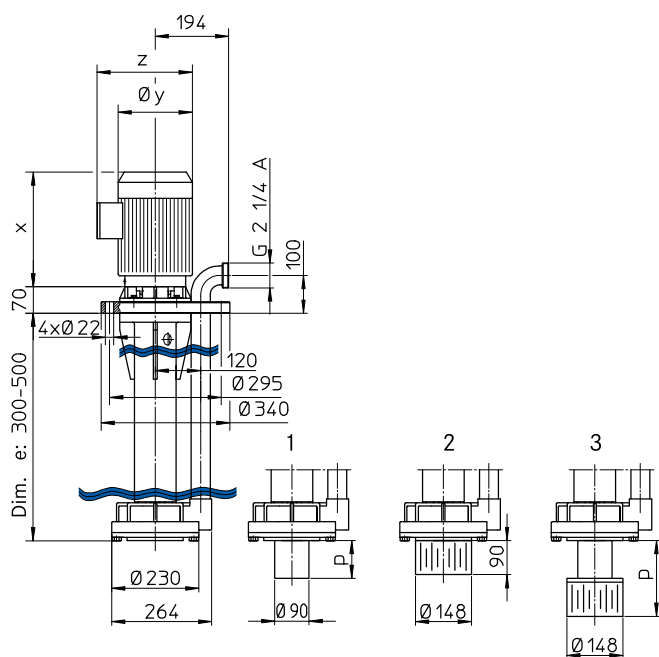
Variant 1
with extension tube

Variant 2
with suction strainer

Variant 3
with extension tube
and suction strainer

Dimensions [mm] F 716 PP1-230

Version with support tube

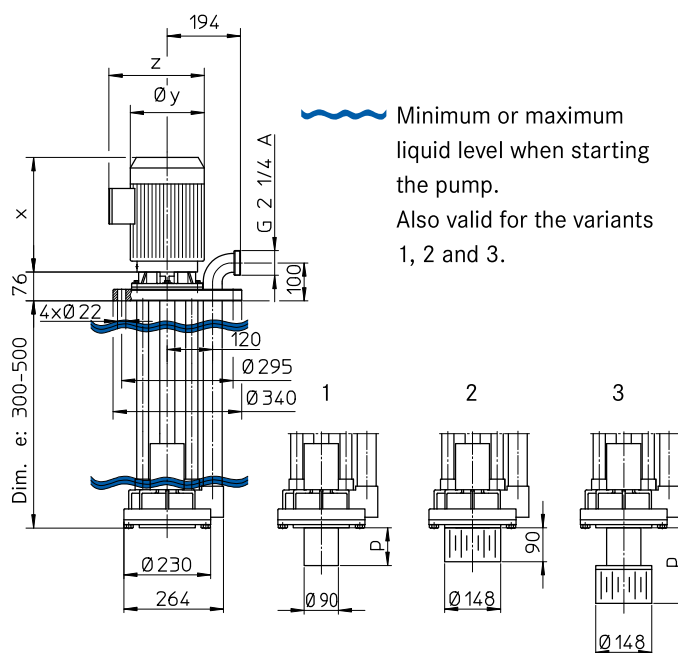


Basic model
dimension e
max. 500 mm

Dimension p max. 1 500 mm

Dimensions [mm] F 716 PP2-230 and F 716 PVDF2-230

Version with support bars



Basic model
dimension e
max. 500 mm

Dimension p max. 1 500 mm

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