The FLUX name has been synonymous with pump technology for more than 60 years. It was the invention of the electric drum pump that sparked it all off. In the meantime, of course, the technology has become more sophisticated. FLUX company innovations have markedly improved working routines for filling and transferring fluids.

It is often said that medium-sized companies are the engines of progress. We would be pleased if our family business were able to substantiate this claim.

When you choose FLUX you are making a good decision for the long term. With our products we want to assist you to save time and money and by the way - spare your nerves as well. We are therefore delighted when you discuss your requirements with us.

Warmly,

Klaus Hahn,
CEO FLUX-GERÄTE GMBH

Pumping, emptying, mixing, filling and metering – when liquids are set in motion the requirements are very diverse. In any case the process must run smoothly. This is what the FLUX brand name stands for. It is recognised across the globe as a byword for quality, for safety and for solutions which are able to fulfil every single demand on a long-term basis.

Smooth-running processes – FLUX not only guarantees this for liquids which are easy to pump but also when the pumping medium is viscous or doesn’t flow at all, when it is aggressive or used in processes which are common in the hygiene sector or sectors where there is an explosion hazard. To ensure that the tasks are solved in the best possible way for the customer FLUX has a huge range of expertise to offer. In other words, a lot more than just pumps. From a technical point of view this means a comprehensive product range of pumps, motors, flow meters, accessories and a whole lot more. From a project point of view, “More than just pumps”, means accompanying our customers from the first telephone call through to the end solution – and if required beyond that.

This is how FLUX keeps processes moving. Long-term. Simple, complex or custom-made inclusive design assignments: FLUX is prepared for any request and in particular for the fact that our customers need more than just pumps.

One brand. One promise.
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 complement 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 for models F 620, F 640, F 706 and F 726.

With immersion lengths from 300 to 4.000 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 fill in the questionnaire on page 43 and return it to us.
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 620 and F 640:**
with mechanical seal in vertical and horizontal version

**Type F 706:**
4 different sizes, sealless design with sleeve bearing, immersion length up to 2 000 mm

**Type F 716:**
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 2-5
Table of contents

FLUX Centrifugal Immersion Pumps F 620 S 6-9
size 15 and 30 in stainless steel
for delivery rates of up to 23 m³/h

FLUX Centrifugal Immersion Pumps F 640 PP 10-13
size 15, 30, 15 Z and 30 Z in polypropylene
for delivery rates of up to 34 m³/h

FLUX Centrifugal Immersion Pumps F 640 PP and F 640 PVDF 14-17
size 185 and 230 in polypropylene
or polyvinylidenfluoride
for delivery rates of up to 42 m³/h

FLUX Centrifugal Immersion Pumps F 620 S TR and F 640 PP TR 18-21
for dry installation
for horizontal use
for delivery rates of up to 44 m³/h

FLUX Centrifugal Immersion Pumps F 706 PP 22-25
size 135, 185, 230 and 350 in polypropylene
for delivery rates of up to 74 m³/h

FLUX Centrifugal Immersion Pumps F 716 PP and F 716 PVDF 26-29
size 115 and 135 in polypropylene
or polyvinylidenfluoride
for delivery rates of up to 12 m³/h

FLUX Centrifugal Immersion Pumps F 716 PP and F 716 PVDF 30-33
size 185 and 230 in polypropylene
or polyvinylidenfluoride
for delivery rates of up to 45 m³/h

FLUX Centrifugal Immersion Pumps F 726 PP and F 726 PVDF 34-37
size 115 and 135 in polypropylene
or polyvinylidenfluoride
for delivery rates of up to 12 m³/h

FLUX Centrifugal Immersion Pumps F 726 PP and F 726 PVDF 38-41
size 185 and 230 in polypropylene
or polyvinylidenfluoride
for delivery rates of up to 45 m³/h

Dimensions of three-phase motors 42-43
Questionnaire
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 2 500 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.

Construction features in detail
Centrifugal Immersion Pump F 620 S in stainless steel, 
thread on outlet G 1½ A, without drive motor

<table>
<thead>
<tr>
<th>Type/Size</th>
<th>F 620 S-15</th>
<th>F 620 S-30</th>
</tr>
</thead>
<tbody>
<tr>
<td>Delivery rate Q max.</td>
<td>19 m³/h</td>
<td>23 m³/h</td>
</tr>
<tr>
<td>Delivery head H max.</td>
<td>10 m water column</td>
<td>12 m water column</td>
</tr>
<tr>
<td>Viscosity max.</td>
<td>2,500 mPas</td>
<td>2,500 mPas</td>
</tr>
<tr>
<td>Temperature max.</td>
<td>100 °C</td>
<td>100 °C</td>
</tr>
<tr>
<td>Seal type</td>
<td>mechanical seal in ceramic oxide, o-rings in FKM</td>
<td>shaft in stainless steel 316 Ti, seal in FKM</td>
</tr>
<tr>
<td>Impeller</td>
<td>conical impeller in polypropylene (version in stainless steel on request)</td>
<td></td>
</tr>
<tr>
<td>Pump housing</td>
<td>Ø 140 mm</td>
<td>Ø 140 mm</td>
</tr>
<tr>
<td>Part No.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Immersion length Dimension e 700 mm</td>
<td>10-620 23 001</td>
<td>10-621 23 001</td>
</tr>
<tr>
<td>Immersion length Dimension e 1,000 mm</td>
<td>10-620 23 002</td>
<td>10-621 23 002</td>
</tr>
<tr>
<td>Immersion length Dimension e 1,500 mm</td>
<td>10-620 23 003</td>
<td>10-621 23 003</td>
</tr>
</tbody>
</table>

Part numbers for immersion length 300 to 3,000 mm (in steps of 100 mm) on request.

Accessories

Mounting flange in stainless steel 316 Ti
outside Ø 265 mm, pitch circle Ø 225 mm, 8 bores Ø 18 mm each
Part No. 10-947 14 005

Suction strainer in stainless steel 316 Ti
Part No. 10-001 10 232

Hose connection in stainless steel, complete with nut in brass G 1½

<table>
<thead>
<tr>
<th>Part Nos.</th>
</tr>
</thead>
<tbody>
<tr>
<td>for hose inside diameter DN 25</td>
</tr>
<tr>
<td>for hose inside diameter DN 32</td>
</tr>
<tr>
<td>for hose inside diameter DN 38</td>
</tr>
</tbody>
</table>

Drive motors for Centrifugal Immersion Pump F 620 S,
three-phase motors protected to IP 55, with motor protection switch or cable terminal box

<table>
<thead>
<tr>
<th>Capacity</th>
<th>Voltage</th>
<th>Frequency</th>
<th>Nominal speed</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>P2</td>
<td>230/400 V</td>
<td>50 Hz</td>
<td>2,850 rpm</td>
<td>Version with motor protection switch 10-001 03 379</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Version with cable terminal box 10-001 03 378</td>
</tr>
<tr>
<td>0,75 kW</td>
<td>230/400 V</td>
<td>50 Hz</td>
<td>2,850 rpm</td>
<td>10-001 03 379</td>
</tr>
<tr>
<td>1,1 kW</td>
<td>230/400 V</td>
<td>50 Hz</td>
<td>2,850 rpm</td>
<td>10-001 03 381</td>
</tr>
<tr>
<td>1,5 kW</td>
<td>230/400 V</td>
<td>50 Hz</td>
<td>2,850 rpm</td>
<td>10-001 03 383</td>
</tr>
<tr>
<td>2,2 kW</td>
<td>230/400 V</td>
<td>50 Hz</td>
<td>2,850 rpm</td>
<td>10-001 03 385</td>
</tr>
<tr>
<td>3,0 kW</td>
<td>400 V</td>
<td>50 Hz</td>
<td>2,850 rpm</td>
<td>10-001 03 387</td>
</tr>
<tr>
<td>4,0 kW</td>
<td>400 V</td>
<td>50 Hz</td>
<td>2,850 rpm</td>
<td>10-001 03 389</td>
</tr>
</tbody>
</table>

Accessories

Carrying handle for three-phase motors up to 3,0 kW
10-001 10 571

Carrying handle for three-phase motors up 4,0 kW
10-001 10 531

Carrying handle for three-phase motors explosion-proof up to 3,3 kW
10-001 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.
Measured values ± 10 % determined with water (20 °C). Nominal speed $n = 2\,850$ 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 42

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. 3 000 mm
**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 2 500 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.

**Construction features in detail**

![Diagram of FLUX Centrifugal Immersion Pump](image-url)
Centrifugal Immersion Pump F 640 PP in polypropylene,
thread on outlet G 2¼ A, without drive motor

Drive motors for Centrifugal Immersion Pump F 640 PP,
three-phase motors protected to IP 55, with motor protection switch or cable terminal box

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 in polypropylene
Size 15, 30, 15 Z and 30 Z

Technical data

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

Three-phase motor:
dimension X, Ø Y
and Z see page 42

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

Variant 1
with suction strainer
dimension e + 38 mm

Basic model
dimension e max. 4 100 mm
**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.

**Construction features in detail**

---

**Diagram labels:**
- Flexible coupling
- Outer tube
- Steel cored inner tube
- Pump shaft
- Mechanical seal
- Centrifugal impeller in differing diameters
- Spiral housing
- Cover with clamping ring for size 185
- Cover threaded for size 230

---
Centrifugal Immersion Pump F 640 PP in polypropylene and F 640 PVDF in polyvinylidenfluoride, thread on outlet G 2¼ A, without drive motor

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

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

Three-phase motor:
dimension X, Ø Y
and Z see page 42

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

Variant 1
with suction strainer
dimension e + 90 mm

Basic model dimension e
max. 4 100 mm

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

Three-phase motor:
dimension X, Ø Y
and Z see page 42

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

Variant 1
with suction strainer
dimension e + 90 mm

Basic model dimension e
max. 4 100 mm
**Typical applications**
Transferring low flammability liquids up to a viscosity of 2 500 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.
### Centrifugal Immersion Pump F 620 S TR in stainless steel, without drive motor

<table>
<thead>
<tr>
<th>Type / Size</th>
<th>F 620 S-30 TR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Delivery Q max.</td>
<td>23 m³/h</td>
</tr>
<tr>
<td>Delivery head H max.</td>
<td>12 m water column</td>
</tr>
<tr>
<td>Viscosity max.</td>
<td>2 500 mPas</td>
</tr>
<tr>
<td>Temperature max.</td>
<td>100 °C</td>
</tr>
<tr>
<td>Seal type</td>
<td>mechanical seal in ceramic oxide, o-rings in FKM</td>
</tr>
<tr>
<td>Material</td>
<td>shaft in stainless steel 316 Ti, seals in FKM</td>
</tr>
<tr>
<td>Impeller</td>
<td>open conical impeller in polypropylene (version in stainless steel on request)</td>
</tr>
<tr>
<td>Suction side</td>
<td>thread G 2 A</td>
</tr>
<tr>
<td>Discharge side</td>
<td>thread G 1½ A</td>
</tr>
<tr>
<td>Part No.</td>
<td>10-620 25 502</td>
</tr>
</tbody>
</table>

### Centrifugal Immersion Pump F 640 PP TR in polypropylene, without drive motor

<table>
<thead>
<tr>
<th>Type / Size</th>
<th>F 640 PP-30 TR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Delivery Q max.</td>
<td>29 m³/h</td>
</tr>
<tr>
<td>Delivery head H max.</td>
<td>10 m water column</td>
</tr>
<tr>
<td>Viscosity max.</td>
<td>2 500 mPas</td>
</tr>
<tr>
<td>Temperature max.</td>
<td>50 °C</td>
</tr>
<tr>
<td>Seal type</td>
<td>mechanical seal in ceramic oxide / SiC, o-rings in FKM</td>
</tr>
<tr>
<td>Material</td>
<td>shaft in Hastelloy C, seals in FKM</td>
</tr>
<tr>
<td>Impeller</td>
<td>open conical impeller in PP</td>
</tr>
<tr>
<td>Suction side</td>
<td>thread G 2 A</td>
</tr>
<tr>
<td>Discharge side</td>
<td>thread G 2½ A</td>
</tr>
<tr>
<td>Part No.</td>
<td>10-640 41 601</td>
</tr>
</tbody>
</table>

### Centrifugal Immersion Pump F 640 PP TR in polypropylene, without drive motor

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

### Accessoires

<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>10-001 15 023</td>
<td></td>
</tr>
<tr>
<td>Hose connection in polypropylene, complete with nut G 2½</td>
<td></td>
</tr>
<tr>
<td>for hose inside diameter DN 32</td>
<td>10-959 04 003</td>
</tr>
<tr>
<td>for hose inside diameter DN 50</td>
<td>10-959 04 004</td>
</tr>
<tr>
<td>Drive motors see page 15.</td>
<td></td>
</tr>
</tbody>
</table>

### 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.
Measured values ± 10% determined with water (20 °C). Nominal speed n = 2 850 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 42

Dimensions F 640 PP-30 TR with thread connection
Three-phase motor: dimension X, Ø Y and Z see page 42

Dimensions F 640 PP-30 TR with flange connection
Three-phase motor: dimension X, Ø Y and Z see page 42

Dimensions F 640 PP-230 TR
Three-phase motor: dimension X, Ø Y and Z see page 42
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 1,000 mm, and on the pump size 230, with additional intermediate bearings, even up to 2,000 mm.

A large polypropylene-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.

**Construction features in detail**

flexible coupling
large pump shaft with protective coating in PP
slide bearing lubricated by the liquid
wearing bushing in HC
centrifugal impeller in differing diameters
cover with circlip on pump size 185 and 350
Centrifugal Immersion Pump F 706 PP in polypropylene, with support tube, without drive motor

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 706 PP in polypropylene
Size 135, 185, 230 and 350

Technical data

Performance chart F 706 PP-135

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

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 706 PP-185

Performance chart F 706 PP-230

Performance chart F 706 PP-350

Nominal speed \( n = 1450 \text{ rpm} \)
Technical data

Dimensions F 706 PP-135

Basic model

dimension e
max. 1 000 mm

Dimension p
max. 1 500 mm

Three-phase motors:
dimension X, Ø Y
and Z see page 42

Variant 1
with extension tube

Variant 2
with suction strainer

Variant 3
with extension tube
and suction strainer

Dimensions F 706 PP-185

Basic model

dimension e
max. 1 000 mm

Dimension p
max. 1 500 mm

Dimensions F 706 PP-230

Basic model

dimension e
max. 2 000 mm

Dimension p
max. 1 500 mm

Three-phase motors:
dimension X, Ø Y
and Z see page 42

Dimensions F 706 PP-350

Basic model

dimension e
max. 1 000 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.
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.

Construction features in detail

- integral three-phase motor
- seal kit prevents vapours entering the motor area
- motor shaft = pump shaft with protective coating in PP or PVDF
- version with support tube for temperatures up to 60 °C
- version with support bars for temperatures up to 80 °C (PP) or 100 °C (PVDF)
- centrifugal impeller in differing diameters
**Centrifugal Immersion Pump F 716 PP in polypropylene,**
with integral three-phase motor

<table>
<thead>
<tr>
<th>Type/Size</th>
<th>F 716 PP1-115</th>
<th>F 716 PP2-115</th>
<th>F 716 PP1-135</th>
<th>F 716 PP2-135</th>
</tr>
</thead>
<tbody>
<tr>
<td>Version</td>
<td>with support tube</td>
<td>with support bars</td>
<td>with support tube</td>
<td>with support bars</td>
</tr>
<tr>
<td>Delivery rate Q max.</td>
<td>8 m³/h</td>
<td>12 m³/h</td>
<td>8 m³/h</td>
<td>12 m³/h</td>
</tr>
<tr>
<td>Delivery head H max.</td>
<td>8 m water column</td>
<td>15 m water column</td>
<td>8 m water column</td>
<td>15 m water column</td>
</tr>
<tr>
<td>Viscosity max.</td>
<td>150 mPas</td>
<td>150 mPas</td>
<td>150 mPas</td>
<td>150 mPas</td>
</tr>
<tr>
<td>Temperature max.</td>
<td>60 °C</td>
<td>60 °C</td>
<td>80 °C</td>
<td>80 °C</td>
</tr>
<tr>
<td>Seal material</td>
<td>no bearings nor seals in contact with the liquid</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Material</td>
<td>shaft in stainless steel 316 Ti with protective coating in PP</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Centrifugal impeller in PP</td>
<td>Ø 50 – 80 mm</td>
<td>Ø 80 – 100 mm</td>
<td>Ø 80 – 100 mm</td>
<td>Ø 80 – 100 mm</td>
</tr>
<tr>
<td>Pump housing</td>
<td>Ø 150 mm</td>
<td>Ø 174 mm</td>
<td>Ø 174 mm</td>
<td>Ø 174 mm</td>
</tr>
<tr>
<td>Mounting flange in PP</td>
<td>Außen-Ø 250 mm</td>
<td>Außen-Ø 250 mm</td>
<td>Außen-Ø 250 mm</td>
<td>Außen-Ø 250 mm</td>
</tr>
<tr>
<td>Thread on outlet</td>
<td>G 1¾ A</td>
<td>G 1¾ A</td>
<td>G 1½ A</td>
<td>G 1½ A</td>
</tr>
<tr>
<td>Part No.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Motor capacity P2</td>
<td>0,37 kW</td>
<td>0,37 kW</td>
<td>0,37 kW</td>
<td>0,37 kW</td>
</tr>
<tr>
<td>Immersion length Dimension e 300 mm</td>
<td>10-716 41 003</td>
<td>10-716 42 003</td>
<td>10-716 41 103</td>
<td>10-716 42 103</td>
</tr>
<tr>
<td>Immersion length Dimension e 400 mm</td>
<td>10-716 41 004</td>
<td>10-716 42 004</td>
<td>10-716 41 104</td>
<td>10-716 42 104</td>
</tr>
<tr>
<td>Immersion length Dimension e 500 mm</td>
<td>10-716 42 005</td>
<td>-</td>
<td>10-716 42 105</td>
<td></td>
</tr>
<tr>
<td>Part No.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Motor capacity P2</td>
<td>0,55 kW</td>
<td>0,55 kW</td>
<td>0,55 kW</td>
<td>0,55 kW</td>
</tr>
<tr>
<td>Immersion length Dimension e 300 mm</td>
<td>10-716 41 013</td>
<td>10-716 42 013</td>
<td>10-716 41 113</td>
<td>10-716 42 113</td>
</tr>
<tr>
<td>Immersion length Dimension e 400 mm</td>
<td>10-716 41 014</td>
<td>10-716 42 014</td>
<td>10-716 41 114</td>
<td>10-716 42 114</td>
</tr>
<tr>
<td>Immersion length Dimension e 500 mm</td>
<td>10-716 42 015</td>
<td>-</td>
<td>10-716 42 115</td>
<td></td>
</tr>
</tbody>
</table>

**Centrifugal Immersion Pump F 716 PVDF in polyvinylidenfluoride,**
with integral three-phase motor

<table>
<thead>
<tr>
<th>Type/Size</th>
<th>F 716 PVDF2-115</th>
<th>F 716 PVDF2-135</th>
</tr>
</thead>
<tbody>
<tr>
<td>Version</td>
<td>with support bars</td>
<td>with support bars</td>
</tr>
<tr>
<td>Delivery rate Q max.</td>
<td>8 m³/h</td>
<td>12 m³/h</td>
</tr>
<tr>
<td>Delivery head H max.</td>
<td>8 m water column</td>
<td>15 m water column</td>
</tr>
<tr>
<td>Viscosity max.</td>
<td>150 mPas</td>
<td>150 mPas</td>
</tr>
<tr>
<td>Temperature max.</td>
<td>100 °C</td>
<td>100 °C</td>
</tr>
<tr>
<td>Seal material</td>
<td>no bearings nor seals in contact with the liquid</td>
<td></td>
</tr>
<tr>
<td>Material</td>
<td>shaft in stainless steel 316 Ti with protective coating in PVDF</td>
<td></td>
</tr>
<tr>
<td>Centrifugal impeller in PVDF</td>
<td>Ø 50 – 80 mm</td>
<td>Ø 80 – 100 mm</td>
</tr>
<tr>
<td>Pump housing</td>
<td>Ø 150 mm</td>
<td>Ø 174 mm</td>
</tr>
<tr>
<td>Mounting flange in PVDF</td>
<td>outside Ø 245 mm</td>
<td>outside Ø 245 mm</td>
</tr>
<tr>
<td>Thread on outlet</td>
<td>G 1¾ A</td>
<td>G 1¾ A</td>
</tr>
<tr>
<td>Part No.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Motor capacity P2</td>
<td>0,37 kW</td>
<td>0,37 kW</td>
</tr>
<tr>
<td>Immersion length Dimension e 400 mm</td>
<td>10-716 62 003</td>
<td>10-716 62 013</td>
</tr>
<tr>
<td>Immersion length Dimension e 500 mm</td>
<td>10-716 62 004</td>
<td>10-716 62 014</td>
</tr>
<tr>
<td>Immersion length Dimension e 600 mm</td>
<td>10-716 62 005</td>
<td>10-716 62 015</td>
</tr>
</tbody>
</table>

**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.
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.

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

Dimensions F 716 PP1-115
Version with support tube

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

Three-phase motors:
dimension X, Ø Y and Z see page 42

Variant 1
with extension tube

Variant 2
with suction strainer

Variant 3
with extension tube
and suction strainer

Basic model
dimension e
max. 400 mm

Dimension p max. 1 000 mm

Basic model
dimension e
max. 500 mm

Dimension p max. 1 000 mm

Dimensions F 716 PP1-135
Version with support tube

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

Three-phase motors:
dimension X, Ø Y and Z see page 42

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

Basic model
dimension e
max. 400 mm

Dimension p max. 1 000 mm

Basic model
dimension e
max. 500 mm

Dimension p max. 1 000 mm
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
- Integral three-phase motor
- Seal kit prevents vapours entering the motor area
- Motor shaft = pump shaft with protective coating in PP or PVDF
- Version with support tube for temperatures up to 60 °C
- Version with support bar for temperatures up to 80 °C (PP) or 100 °C (PVDF)
- Centrifugal impeller in differing diameters
- Cover with circlip on pump size 185
Centrifugal Immersion Pump F 716 PP in polypropylene, with integral three-phase motor

<table>
<thead>
<tr>
<th>Type/Size</th>
<th>F 716 PP1-185</th>
<th>F 716 PP2-185</th>
<th>F 716 PP1-230</th>
<th>F 716 PP2-230</th>
</tr>
</thead>
<tbody>
<tr>
<td>Version</td>
<td>with support tube</td>
<td>with support bars</td>
<td>with support tube</td>
<td>with support bars</td>
</tr>
<tr>
<td>Delivery rate Q max.</td>
<td>38 m³/h</td>
<td>38 m³/h</td>
<td>45 m³/h</td>
<td>45 m³/h</td>
</tr>
<tr>
<td>Delivery head H max.</td>
<td>23 m water column</td>
<td>23 m water column</td>
<td>35 m water column</td>
<td>35 m water column</td>
</tr>
<tr>
<td>Viscosity max.</td>
<td>150 mPas</td>
<td>150 mPas</td>
<td>150 mPas</td>
<td>150 mPas</td>
</tr>
<tr>
<td>Temperature max.</td>
<td>60 °C</td>
<td>80 °C</td>
<td>80 °C</td>
<td>80 °C</td>
</tr>
<tr>
<td>Seal material</td>
<td>no bearings nor seals in contact with the liquid</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Material</td>
<td>shaft in stainless steel 316 Ti with protective coating in PP</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Centrifugal impeller in PP</td>
<td>Ø 100 – 140 mm</td>
<td>Ø 100 – 140 mm</td>
<td>Ø 130 – 160 mm</td>
<td>Ø 130 – 160 mm</td>
</tr>
<tr>
<td>Pump housing</td>
<td>Ø 249 mm</td>
<td>Ø 249 mm</td>
<td>Ø 264 mm</td>
<td>Ø 264 mm</td>
</tr>
<tr>
<td>Mounting flange in PP</td>
<td>outside Ø 340 mm</td>
<td>outside Ø 340 mm</td>
<td>outside Ø 340 mm</td>
<td>outside Ø 340 mm</td>
</tr>
<tr>
<td>Thread on outlet</td>
<td>G 2¼ A</td>
<td>G 2¼ A</td>
<td>G 2¼ A</td>
<td>G 2¼ A</td>
</tr>
<tr>
<td>Part No.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Motor capacity P2</td>
<td>1,5 kW</td>
<td>1,5 kW</td>
<td>3,0 kW</td>
<td>3,0 kW</td>
</tr>
<tr>
<td>Immersion length Dimension e 300 mm</td>
<td>10-716 41 201</td>
<td>10-716 42 201</td>
<td>10-716 41 301</td>
<td>10-716 42 301</td>
</tr>
<tr>
<td>Motor capacity P2</td>
<td>2,2 kW</td>
<td>2,2 kW</td>
<td>4,0 kW</td>
<td>4,0 kW</td>
</tr>
<tr>
<td>Immersion length Dimension e 300 mm</td>
<td>10-716 41 211</td>
<td>10-716 42 211</td>
<td>10-716 41 311</td>
<td>10-716 42 311</td>
</tr>
<tr>
<td>Motor capacity P2</td>
<td>3,0 kW</td>
<td>3,0 kW</td>
<td>5,5 kW</td>
<td>5,5 kW</td>
</tr>
<tr>
<td>Immersion length Dimension e 300 mm</td>
<td>10-716 41 221</td>
<td>10-716 42 221</td>
<td>10-716 41 321</td>
<td>10-716 42 321</td>
</tr>
<tr>
<td>Immersion length Dimension e 300 mm</td>
<td>10-716 41 231</td>
<td>10-716 42 231</td>
<td>10-716 41 331</td>
<td>10-716 42 331</td>
</tr>
<tr>
<td>Immersion length Dimension e 300 mm</td>
<td>10-716 41 241</td>
<td>10-716 42 241</td>
<td>10-716 41 341</td>
<td>10-716 42 341</td>
</tr>
<tr>
<td>Immersion length Dimension e 300 mm</td>
<td>10-716 41 251</td>
<td>10-716 42 251</td>
<td>10-716 41 351</td>
<td>10-716 42 351</td>
</tr>
<tr>
<td>Motor capacity P2</td>
<td>4,0 kW</td>
<td>4,0 kW</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Immersion length Dimension e 300 mm</td>
<td>10-716 41 233</td>
<td>10-716 42 233</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Immersion length Dimension e 300 mm</td>
<td>10-716 41 234</td>
<td>10-716 42 234</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Immersion length Dimension e 300 mm</td>
<td>10-716 41 235</td>
<td>10-716 42 235</td>
<td>–</td>
<td>–</td>
</tr>
</tbody>
</table>

Centrifugal Immersion Pump F 716 PVDF in polyvinylidenfluoride, with integral three-phase motor

<table>
<thead>
<tr>
<th>Type/Size</th>
<th>F 716 PVDF2-185</th>
<th>F 716 PVDF2-230</th>
</tr>
</thead>
<tbody>
<tr>
<td>Version</td>
<td>with support bars</td>
<td>with support bars</td>
</tr>
<tr>
<td>Delivery rate Q max.</td>
<td>38 m³/h</td>
<td>45 m³/h</td>
</tr>
<tr>
<td>Delivery head H max.</td>
<td>23 m water column</td>
<td>35 m water column</td>
</tr>
<tr>
<td>Viscosity max.</td>
<td>150 mPas</td>
<td>150 mPas</td>
</tr>
<tr>
<td>Temperature max.</td>
<td>100 °C</td>
<td>100 °C</td>
</tr>
<tr>
<td>Seal material</td>
<td>no bearings nor seals in contact with the liquid</td>
<td></td>
</tr>
<tr>
<td>Material</td>
<td>shaft in stainless steel 316 Ti with protective coating in PVDF</td>
<td></td>
</tr>
<tr>
<td>Centrifugal impeller in PVDF</td>
<td>Ø 100 – 140 mm</td>
<td>Ø 130 – 160 mm</td>
</tr>
<tr>
<td>Pump housing</td>
<td>Ø 249 mm</td>
<td>Ø 264 mm</td>
</tr>
<tr>
<td>Mounting flange in RCH1 000</td>
<td>outer Ø 340 mm</td>
<td>outer Ø 340 mm</td>
</tr>
<tr>
<td>Thread on outlet</td>
<td>G 2¼ A</td>
<td>G 2¼ A</td>
</tr>
<tr>
<td>Part No.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Motor capacity P2</td>
<td>1,5 kW</td>
<td>2,2 kW</td>
</tr>
<tr>
<td>Immersion length Dimension e 300 mm</td>
<td>10-716 62 201</td>
<td>10-716 62 211</td>
</tr>
<tr>
<td>Immersion length Dimension e 300 mm</td>
<td>10-716 62 202</td>
<td>10-716 62 212</td>
</tr>
<tr>
<td>Immersion length Dimension e 300 mm</td>
<td>10-716 62 203</td>
<td>10-716 62 213</td>
</tr>
<tr>
<td>Immersion length Dimension e 300 mm</td>
<td>10-716 62 204</td>
<td>10-716 62 214</td>
</tr>
<tr>
<td>Immersion length Dimension e 300 mm</td>
<td>10-716 62 205</td>
<td>10-716 62 215</td>
</tr>
<tr>
<td>Immersion length Dimension e 300 mm</td>
<td>10-716 62 206</td>
<td>10-716 62 216</td>
</tr>
<tr>
<td>Motor capacity P2</td>
<td>3,0 kW</td>
<td>4,0 kW</td>
</tr>
<tr>
<td>Immersion length Dimension e 300 mm</td>
<td>10-716 62 221</td>
<td>10-716 62 231</td>
</tr>
<tr>
<td>Immersion length Dimension e 300 mm</td>
<td>10-716 62 222</td>
<td>10-716 62 232</td>
</tr>
<tr>
<td>Immersion length Dimension e 300 mm</td>
<td>10-716 62 223</td>
<td>10-716 62 233</td>
</tr>
<tr>
<td>Immersion length Dimension e 300 mm</td>
<td>10-716 62 224</td>
<td>10-716 62 234</td>
</tr>
<tr>
<td>Immersion length Dimension e 300 mm</td>
<td>10-716 62 225</td>
<td>10-716 62 235</td>
</tr>
</tbody>
</table>

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 polyvinylidenfluoride size 185 and 230

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.
Technical data

Dimensions F 716 PP1-185
Version with support tube

Three-phase motors:
dimension X, Ø Y and Z see page 42

Variant 1
with extension tube

Variant 2
with suction strainer

Variant 3
with extension tube and suction strainer

Basic model
dimension e
max. 500 mm

Dimension p max. 1 500 mm

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

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

Dimension p max. 1 500 mm

Dimensions F 716 PP1-230
Version with support tube

Three-phase motors:
dimension X, Ø Y and Z see page 42

Basic model
dimension e
max. 500 mm

Dimension p max. 1 500 mm

Dimensions 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
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 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.

**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
Centrifugal Immersion Pump F 726 PP in polypropylene and F 726 PVDF in polyvinylidenfluoride, version with support bars, without drive motor

- **Drive motors for Centrifugal Immersion Pump F 726 PP and F 726 PVDF**, three-phase motors protected to IP 55, with cable terminable box

<table>
<thead>
<tr>
<th>Capacity kW</th>
<th>Flange Ø</th>
<th>Voltage</th>
<th>Frequency</th>
<th>Nominal speed</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.37 kW</td>
<td>120 mm</td>
<td>230/400 V</td>
<td>50 Hz</td>
<td>2 850 rpm</td>
<td>10-001 00 004</td>
</tr>
<tr>
<td>0.55 kW</td>
<td>120 mm</td>
<td>230/400 V</td>
<td>50 Hz</td>
<td>2 850 rpm</td>
<td>10-001 00 005</td>
</tr>
<tr>
<td>0.75 kW</td>
<td>120 mm</td>
<td>230/400 V</td>
<td>50 Hz</td>
<td>2 850 rpm</td>
<td>10-001 03 376</td>
</tr>
</tbody>
</table>

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 115 and 135

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

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

Three-phase motors:
dimension X, Ø Y
and Z see page 42

- Basic model
dimension e max. 500 mm

- Variant 1
  with extension tube
dimension p max. 1 000 mm

- Variant 2
  with suction strainer

- Variant 3
  with extension tube
  and suction strainer

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

Three-phase motors:
dimension X, Ø Y
and Z see page 42

- Basic model
dimension e max. 500 mm

- Variant 1
  with extension tube
dimension p max. 1 000 mm

- Variant 2
  with suction strainer

- Variant 3
  with extension tube
  and suction strainer

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

- 2 antifriction bearings located in a pedestal
- seal kit prevents vapours entering the pedestal
- robust pump shaft with protective coating
- version with support bars for temperatures of up to 80 °C (PP) or 100 °C (PVDF)
- centrifugal impeller in differing diameters
Centrifugal Immersion Pump F 726 PP in polypropylene and F 726 PVDF in polyvinylidenfluoride, version with support bars, without drive motor

<table>
<thead>
<tr>
<th>Type/Size</th>
<th>F 726 PP2-185</th>
<th>F 726 PP2-230</th>
<th>F 726 PVDF2-185</th>
<th>F 726 PVDF2-230</th>
</tr>
</thead>
<tbody>
<tr>
<td>Delivery rate Q max.</td>
<td>38 m³/h</td>
<td>45 m³/h</td>
<td>38 m³/h</td>
<td>45 m³/h</td>
</tr>
<tr>
<td>Delivery head H max.</td>
<td>23 m water column</td>
<td>35 m water column</td>
<td>23 m water column</td>
<td>35 m water column</td>
</tr>
<tr>
<td>Viscosity max.</td>
<td>150 mPas</td>
<td>150 mPas</td>
<td>150 mPas</td>
<td>150 mPas</td>
</tr>
<tr>
<td>Temperature max.</td>
<td>80 °C</td>
<td>80 °C</td>
<td>100 °C</td>
<td>100 °C</td>
</tr>
<tr>
<td>Seal material</td>
<td>no bearings nor seals in contact with the liquid</td>
<td>no bearings nor seals in contact with the liquid</td>
<td>no bearings nor seals in contact with the liquid</td>
<td>no bearings nor seals in contact with the liquid</td>
</tr>
<tr>
<td>Material</td>
<td>shaft in stainless steel 316 Ti with protective coating in PP</td>
<td>shaft in stainless steel 316 Ti with protective coating in PP</td>
<td>shaft in stainless steel 316 Ti with protective coating in PP</td>
<td>shaft in stainless steel 316 Ti with protective coating in PP</td>
</tr>
<tr>
<td>Centrifugal impeller in PP or PVDF</td>
<td>Ø 100 – 140 mm</td>
<td>Ø 130 – 160 mm</td>
<td>Ø 100 – 140 mm</td>
<td>Ø 130 – 160 mm</td>
</tr>
<tr>
<td>Pump housing</td>
<td>Ø 249 mm</td>
<td>Ø 264 mm</td>
<td>Ø 249 mm</td>
<td>Ø 264 mm</td>
</tr>
<tr>
<td>Mounting flange in PP or RCH 1 000</td>
<td>outside Ø 340 mm</td>
<td>outside Ø 340 mm</td>
<td>outside Ø 340 mm</td>
<td>outside Ø 340 mm</td>
</tr>
<tr>
<td>Thread on outlet</td>
<td>G 2¼ A</td>
<td>G 2¼ A</td>
<td>G 2¼ A</td>
<td>G 2¼ A</td>
</tr>
</tbody>
</table>

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.

Drive motor for Centrifugal Immersion Pump F 726 PP and F 726 PVDF, three-phase motors protected to IP 55, with cable terminal box

<table>
<thead>
<tr>
<th>Capacity P2</th>
<th>Flange Ø</th>
<th>Voltage</th>
<th>Frequency</th>
<th>Nominal speed</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,5 kW</td>
<td>160 mm</td>
<td>230/400 V</td>
<td>50 Hz</td>
<td>2 850 rpm</td>
<td>10-001 03 382</td>
</tr>
<tr>
<td>2,2 kW</td>
<td>160 mm</td>
<td>230/400 V</td>
<td>50 Hz</td>
<td>2 850 rpm</td>
<td>10-001 03 384</td>
</tr>
<tr>
<td>3,0 kW</td>
<td>160 mm</td>
<td>400 V</td>
<td>50 Hz</td>
<td>2 850 rpm</td>
<td>10-001 03 386</td>
</tr>
<tr>
<td>4,0 kW</td>
<td>160 mm</td>
<td>400 V</td>
<td>50 Hz</td>
<td>2 850 rpm</td>
<td>10-001 03 388</td>
</tr>
<tr>
<td>5,5 kW</td>
<td>160 mm</td>
<td>400 V</td>
<td>50 Hz</td>
<td>2 850 rpm</td>
<td>10-001 03 390</td>
</tr>
</tbody>
</table>
Technical data
Performance chart F 726 PP2-185 and F 726 PVDF2-185

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

Three-phase motors:
dimension X, Ø Y
and Z see page 42

Basic model
dimension e max. 500 mm

Variant 1
with extension tube
dimension p max. 1 500 mm

Variant 2
with suction strainer

Variant 3
with extension tube
and suction strainer

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

Three-phase motors:
dimension X, Ø Y
and Z see page 42

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. 1 500 mm

Variant 2
with suction strainer

Variant 3
with extension tube
and suction strainer
Dimensions of three-phase motors protected to IP 55

Dimensions [mm]

<table>
<thead>
<tr>
<th>Capacity P2</th>
<th>Nominal speed</th>
<th>X</th>
<th>Ø Y</th>
<th>Z</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.37 kW</td>
<td>2 850 rpm</td>
<td>201</td>
<td>143</td>
<td>183</td>
</tr>
<tr>
<td>0.55 kW</td>
<td>2 850 rpm</td>
<td>201</td>
<td>143</td>
<td>183</td>
</tr>
<tr>
<td>0.75 kW</td>
<td>2 850 rpm</td>
<td>232</td>
<td>158</td>
<td>201</td>
</tr>
<tr>
<td>1.1 kW</td>
<td>2 850 rpm</td>
<td>232</td>
<td>158</td>
<td>201</td>
</tr>
<tr>
<td>1.5 kW</td>
<td>2 850 rpm</td>
<td>244</td>
<td>176</td>
<td>227</td>
</tr>
<tr>
<td>2.2 kW</td>
<td>2 850 rpm</td>
<td>269</td>
<td>176</td>
<td>227</td>
</tr>
<tr>
<td>3.0 kW</td>
<td>2 850 rpm</td>
<td>303</td>
<td>196</td>
<td>252</td>
</tr>
<tr>
<td>4.0 kW</td>
<td>2 850 rpm</td>
<td>320</td>
<td>220</td>
<td>277</td>
</tr>
<tr>
<td>5.5 kW</td>
<td>2 850 rpm</td>
<td>405</td>
<td>246</td>
<td>313</td>
</tr>
<tr>
<td>3.0 kW</td>
<td>1 450 rpm</td>
<td>303</td>
<td>196</td>
<td>252</td>
</tr>
<tr>
<td>4.0 kW</td>
<td>1 450 rpm</td>
<td>320</td>
<td>220</td>
<td>277</td>
</tr>
<tr>
<td>5.5 kW</td>
<td>1 450 rpm</td>
<td>405</td>
<td>246</td>
<td>313</td>
</tr>
</tbody>
</table>
Questionnaire
FLUX Vertical Centrifugal Immersion Pumps

Requested version

☐ for portable application  ☐ for stationary application  ☐ for horizontal application

Liquid data

Description __________________________________________ Chemical Formula __________________________
Concentration ____________________ % Specific gravity __________________________ g/cm³
Viscosity __________________ mPas/cP at ______ °C Operating temperature __________________ °C
Solids in suspension ______ g/l  ☐ hard  ☐ soft  Size of solids __________________________ mm
Does liquid crystallize? ☐ Yes  ☐ No  at __________________________ °C
Which materials are resistant to liquid according to previous experience?

Operating data

Delivery rate __________________________ m³/h  Delivery head __________________________ m water column
Immersion length __________________________ mm  Suction strainer ☐ Yes  ☐ No
Mounting flange in special dimensions:
Outside Ø ________,  p.c. Ø ________ mm
Pressure flange ☐ Yes  ☐ No
Outside Ø ________,  p.c. Ø ________ mm
Dimension p = ________ 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? ☐ Yes  ☐ 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.

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