Centrifugal Immersion Pumps
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.

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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 620 and F 640:
with mechanical seal in vertical and horizontal version

Type F 706:
4 different sizes, sealles design with sleeve bearing, immersion length up to 2000 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
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for delivery rates of up to 23 m³/h

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for delivery rates of up to 34 m³/h

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or polyvinylidenfluoride
for delivery rates of up to 42 m³/h

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for horizontal use
for delivery rates of up to 44 m³/h

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for delivery rates of up to 74 m³/h

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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 16-17
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 18-19
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 20-21
size 185 and 230 in polypropylene
or polyvinylidenfluoride
for delivery rates of up to 45 m³/h

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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 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.

Construction features in detail

- flexible coupling
- drive shaft
- inner tube
- outer tube
- mechanical seal
- open conical impeller

F 620 S-30 with suction strainer
Measured values ± 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 1½ A, without drive motor

Drive motors for Centrifugal Immersion Pump F 620 S,
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 – 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.

Construction features in detail

flexible coupling

drive shaft

steel cored inner tube

outer tube

mechanical seal

open conical impeller
closed centrifugal impeller (Z)
Measured values ± 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

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 + 38 mm

Basic model
dimension e max. 4100 mm
Centrifugal Immersion Pump F 640 PP in polypropylene, thread on outlet G 2 ¼ 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

Three-phase motors explosion-proof to II 2 G Ex e II T3 with 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.
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
Measured values ± 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-185 and F 640 PVDF-185

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 22

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. 4100 mm

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

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 + 90 mm

Basic model dimension e
max. 4100 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 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

- Three-phase motors explosion-proof to II 2 G EEx II C T3 with 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.
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.

FLUX Centrifugal Immersion Pump F 620 S TR and F 640 PP TR
for dry installation for horizontal use
Measured values ± 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 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 rate 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>2500 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>620 25 502</td>
</tr>
</tbody>
</table>

### Accessoires

- **Base plate in polypropylene**: Part No. 001 15 024
- **Hose connection in stainless steel, complete with nut G 1½**
  - 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

<table>
<thead>
<tr>
<th>Type/Size</th>
<th>F 640 PP-30 TR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Delivery rate 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>2500 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, flange DN 65, PN 10</td>
</tr>
<tr>
<td>Discharge side</td>
<td>thread G 2½ A, flange DN 50, PN 10</td>
</tr>
<tr>
<td>Part No.</td>
<td>640 41 601 640 41 600</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 rate 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>open conical impeller 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>640 41 300</td>
</tr>
</tbody>
</table>

### Accessories

- **Base plate in polypropylene for F 640 PP-30 TR and F 640 PP-230 TR**: Part No. 001 15 023
- **Hose connection in polypropylene, complete with nut G 2¼**
  - 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 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
Technical data

**Performance chart F 706 PP-135**

- Nominal speed \( n = 1450 \) rpm

**Performance chart F 706 PP-185**

- Measured values ± 10 %
- Determined with water (20 °C).

**Performance chart F 706 PP-230**

- Nominal speed \( n = 2850 \) rpm

**Performance chart F 706 PP-350**

- 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

Basic model
dimension e
max. 1000 mm

Dimension p
max. 1500 mm

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

Variants:
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. 1000 mm

Dimension p
max. 1500 mm

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

Dimensions F 706 PP-230

Basic model
dimension e
max. 2000 mm

Dimension p
max. 1500 mm

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

Dimensions F 706 PP-350

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

<table>
<thead>
<tr>
<th>Type/Size</th>
<th>F 706 PP-135</th>
<th>F 706 PP-185</th>
<th>F 706 PP-230</th>
<th>F 706 PP-350</th>
</tr>
</thead>
<tbody>
<tr>
<td>Delivery rate Q max.</td>
<td>12 m³/h</td>
<td>43 m³/h</td>
<td>44 m³/h</td>
<td>74 m³/h</td>
</tr>
<tr>
<td>Delivery head H max.</td>
<td>15 m water column</td>
<td>23 m water column</td>
<td>33 m water column</td>
<td>23 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>60 °C</td>
<td>60 °C</td>
</tr>
<tr>
<td>Seal material</td>
<td>no 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, slide bearing in hard carbon or fluorosint</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Centrifugal Impeller in PP</td>
<td>Ø 80 – 100 mm</td>
<td>Ø 100 – 140 mm</td>
<td>Ø 130 – 160 mm</td>
<td>Ø 200 – 250 mm</td>
</tr>
<tr>
<td>Pump housing</td>
<td>Ø 174 mm</td>
<td>Ø 249 mm</td>
<td>Ø 264 mm</td>
<td>Ø 417 mm</td>
</tr>
<tr>
<td>Mounting flange in PP</td>
<td>outside Ø 250 mm</td>
<td>outside Ø 340 mm</td>
<td>outside Ø 340 mm</td>
<td>outside Ø 500 mm</td>
</tr>
<tr>
<td>Thread on outlet</td>
<td>G 1½ A</td>
<td>G 2¼ A</td>
<td>G 2¼ A</td>
<td>G 2¼ A</td>
</tr>
<tr>
<td>Motor capacity</td>
<td>0,37 – 0,75 kW n = 2850 rpm</td>
<td>1,5 – 4,0 kW n = 2850 rpm</td>
<td>3,0 – 5,5 kW n = 2850 rpm</td>
<td>3,0 – 5,5 kW n = 1450 rpm</td>
</tr>
</tbody>
</table>

**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 |

**Accessories**

- 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

<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>0,37 kW</td>
<td>120 mm</td>
<td>230/400 V</td>
<td>50 Hz</td>
<td>n = 2850 rpm</td>
<td>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>n = 2850 rpm</td>
<td>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>n = 2850 rpm</td>
<td>001 00 034</td>
</tr>
<tr>
<td>1,5 kW</td>
<td>160 mm</td>
<td>230/400 V</td>
<td>50 Hz</td>
<td>n = 2850 rpm</td>
<td>001 00 037</td>
</tr>
<tr>
<td>2,2 kW</td>
<td>160 mm</td>
<td>230/400 V</td>
<td>50 Hz</td>
<td>n = 2850 rpm</td>
<td>001 00 038</td>
</tr>
<tr>
<td>3,0 kW</td>
<td>160 mm</td>
<td>400 V</td>
<td>50 Hz</td>
<td>n = 2850 rpm</td>
<td>001 00 039</td>
</tr>
<tr>
<td>4,0 kW</td>
<td>160 mm</td>
<td>400 V</td>
<td>50 Hz</td>
<td>n = 2850 rpm</td>
<td>001 00 040</td>
</tr>
<tr>
<td>5,5 kW</td>
<td>160 mm</td>
<td>400 V</td>
<td>50 Hz</td>
<td>n = 2850 rpm</td>
<td>001 00 041</td>
</tr>
<tr>
<td>3,0 kW</td>
<td>160 mm</td>
<td>400 V</td>
<td>50 Hz</td>
<td>n = 1450 rpm</td>
<td>001 00 030</td>
</tr>
<tr>
<td>4,0 kW</td>
<td>160 mm</td>
<td>400 V</td>
<td>50 Hz</td>
<td>n = 1450 rpm</td>
<td>001 00 011</td>
</tr>
<tr>
<td>5,5 kW</td>
<td>160 mm</td>
<td>400 V</td>
<td>50 Hz</td>
<td>n = 1450 rpm</td>
<td>001 00 032</td>
</tr>
</tbody>
</table>

Three-phase motors explosion-proof to II 2 G Ex 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.

Construction features in detail
Measured values ± 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.
Technical data

Dimensions F 716 PP1-115
Version with support tube

Dimensions F 716 PP1-135
Version with support tube

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

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 22

Variant 1
with extension tube

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.

Basic model
dimension e
max. 400 mm

Dimension p max. 1000 mm

Basic model
dimension e
max. 500 mm

Dimension p max. 1000 mm

Basic model
dimension e
max. 400 mm

Dimension p max. 1000 mm

Basic model
dimension e
max. 500 mm

Dimension p max. 1000 mm
# Centrifugal Immersion Pump F 716 PP

**Centrifugal Immersion Pump F 716 PP in polypropylene,**
with integral three-phase motor

<table>
<thead>
<tr>
<th>Type/Size</th>
<th>F 716 PP-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>8 m³/h</td>
<td>12 m³/h</td>
<td>12 m³/h</td>
</tr>
<tr>
<td>Delivery head H max.</td>
<td>8 m water column</td>
<td>8 m water column</td>
<td>15 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>80 °C</td>
<td>60 °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 50 – 80 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 150 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 1¼ A</td>
<td>G 1¼ A</td>
<td>G 1½ A</td>
<td>G 1½ A</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>716 41 003</td>
<td>716 42 003</td>
<td>716 41 103</td>
<td>716 42 103</td>
</tr>
<tr>
<td>Immersion length Dimension e 400 mm</td>
<td>716 41 004</td>
<td>716 42 004</td>
<td>716 41 104</td>
<td>716 42 104</td>
</tr>
<tr>
<td>Immersion length Dimension e 500 mm</td>
<td>716 42 005</td>
<td>-</td>
<td>716 42 105</td>
<td></td>
</tr>
</tbody>
</table>

**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

<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 1¼ A</td>
<td>G 1½ A</td>
</tr>
<tr>
<td>Motor capacity P2</td>
<td>0,37 kW</td>
<td>0,55 kW</td>
</tr>
<tr>
<td>Immersion length Dimension e 400 mm</td>
<td>716 62 003</td>
<td>716 62 013</td>
</tr>
<tr>
<td>Immersion length Dimension e 500 mm</td>
<td>716 62 004</td>
<td>716 62 014</td>
</tr>
</tbody>
</table>

**Part No.**

| Motor capacity P2 | 0,75 kW | 0,75 kW | 0,75 kW | 0,75 kW |
| Immersion length Dimension e 400 mm | - | - | 716 62 123 | 716 62 123 |
| Immersion length Dimension e 500 mm | - | - | - | 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.

**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
Measured values ± 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.
Technical data

Dimensions F 716 PP1-185
Version with support tube

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

Variant 1
with extension tube

Variant 2
with suction strainer

Variant 3
with extension tube
and suction strainer

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

Basic model
dimension e
max. 500 mm

Dimension p max. 1500 mm

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

Dimensions F 716 PP1-230
Version with support tube

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

Basic model
dimension e
max. 500 mm

Dimension p max. 1500 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. 1500 mm
### Centrifugal Immersion Pump F 716 PP

**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 tube</td>
<td>with support tube</td>
<td>with support tube</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>60 °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>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Part No.</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Motor capacity P2</td>
<td>1,5 kW</td>
</tr>
<tr>
<td>Immersion length Dimension e 300 mm</td>
<td>716 41 203</td>
</tr>
<tr>
<td>Immersion length Dimension e 400 mm</td>
<td>716 41 204</td>
</tr>
<tr>
<td>Immersion length Dimension e 500 mm</td>
<td>716 41 205</td>
</tr>
<tr>
<td>Motor capacity P2</td>
<td>2,2 kW</td>
</tr>
<tr>
<td>Immersion length Dimension e 300 mm</td>
<td>716 41 213</td>
</tr>
<tr>
<td>Immersion length Dimension e 400 mm</td>
<td>716 41 214</td>
</tr>
<tr>
<td>Immersion length Dimension e 500 mm</td>
<td>716 41 215</td>
</tr>
<tr>
<td>Motor capacity P2</td>
<td>3,0 kW</td>
</tr>
<tr>
<td>Immersion length Dimension e 300 mm</td>
<td>716 41 223</td>
</tr>
<tr>
<td>Immersion length Dimension e 400 mm</td>
<td>716 41 224</td>
</tr>
<tr>
<td>Immersion length Dimension e 500 mm</td>
<td>716 41 225</td>
</tr>
<tr>
<td>Motor capacity P2</td>
<td>4,0 kW</td>
</tr>
<tr>
<td>Immersion length Dimension e 300 mm</td>
<td>716 41 233</td>
</tr>
<tr>
<td>Immersion length Dimension e 400 mm</td>
<td>716 41 234</td>
</tr>
<tr>
<td>Immersion length Dimension e 500 mm</td>
<td>716 41 235</td>
</tr>
<tr>
<td>Motor capacity P2</td>
<td>3,0 kW</td>
</tr>
<tr>
<td>Immersion length Dimension e 300 mm</td>
<td>716 41 223</td>
</tr>
<tr>
<td>Immersion length Dimension e 400 mm</td>
<td>716 41 224</td>
</tr>
<tr>
<td>Immersion length Dimension e 500 mm</td>
<td>716 41 225</td>
</tr>
</tbody>
</table>

### Centrifugal Immersion Pump F 716 PVDF in polyvinylidene fluoride,
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 RCH1000</td>
<td>outside Ø 340 mm</td>
<td>outside Ø 340 mm</td>
</tr>
<tr>
<td>Thread on outlet</td>
<td>G 3/4 A</td>
<td>G 3/4 A</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Part No.</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Motor capacity P2</td>
<td>1,5 kW</td>
</tr>
<tr>
<td>Immersion length Dimension e 300 mm</td>
<td>716 62 203</td>
</tr>
<tr>
<td>Immersion length Dimension e 400 mm</td>
<td>716 62 204</td>
</tr>
<tr>
<td>Immersion length Dimension e 500 mm</td>
<td>716 62 205</td>
</tr>
<tr>
<td>Motor capacity P2</td>
<td>3,0 kW</td>
</tr>
<tr>
<td>Immersion length Dimension e 300 mm</td>
<td>716 62 223</td>
</tr>
<tr>
<td>Immersion length Dimension e 400 mm</td>
<td>716 62 224</td>
</tr>
</tbody>
</table>

**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.**

Weight per pump: 22 – 50 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

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.

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
Measured values ± 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.
Technical data
Dimensions F 726 PP2-115 and F 726 PVDF2-115

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

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

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

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

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

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 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 terminal box

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.

**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
Measured values ± 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.
Technical data
Dimensions F 726 PP2-185 and F 726 PVDF2-185

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

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 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 1000</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>Immersion length Dimension e 300 mm</td>
<td>726 42 203</td>
<td>726 42 303</td>
<td>726 62 203</td>
<td>726 62 303</td>
</tr>
<tr>
<td>Immersion length Dimension e 400 mm</td>
<td>726 42 204</td>
<td>726 42 304</td>
<td>726 62 204</td>
<td>726 62 304</td>
</tr>
<tr>
<td>Immersion length Dimension e 500 mm</td>
<td>726 42 205</td>
<td>726 42 305</td>
<td>726 62 205</td>
<td>726 62 305</td>
</tr>
</tbody>
</table>

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>2850 rpm</td>
<td>001 00 037</td>
</tr>
<tr>
<td>2,2 kW</td>
<td>160 mm</td>
<td>230/400 V</td>
<td>50 Hz</td>
<td>2850 rpm</td>
<td>001 00 038</td>
</tr>
<tr>
<td>3,0 kW</td>
<td>160 mm</td>
<td>400 V</td>
<td>50 Hz</td>
<td>2850 rpm</td>
<td>001 00 039</td>
</tr>
<tr>
<td>4,0 kW</td>
<td>160 mm</td>
<td>400 V</td>
<td>50 Hz</td>
<td>2850 rpm</td>
<td>001 00 040</td>
</tr>
<tr>
<td>5,5 kW</td>
<td>160 mm</td>
<td>400 V</td>
<td>50 Hz</td>
<td>2850 rpm</td>
<td>001 00 041</td>
</tr>
</tbody>
</table>

Three-phase motors explosion-proof to II 2 G Ex 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

<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>2850 rpm</td>
<td>201</td>
<td>143</td>
<td>183</td>
</tr>
<tr>
<td>0.55 kW</td>
<td>2850 rpm</td>
<td>201</td>
<td>143</td>
<td>183</td>
</tr>
<tr>
<td>0.75 kW</td>
<td>2850 rpm</td>
<td>232</td>
<td>158</td>
<td>201</td>
</tr>
<tr>
<td>1.1 kW</td>
<td>2850 rpm</td>
<td>232</td>
<td>158</td>
<td>201</td>
</tr>
<tr>
<td>1.5 kW</td>
<td>2850 rpm</td>
<td>244</td>
<td>176</td>
<td>227</td>
</tr>
<tr>
<td>2.2 kW</td>
<td>2850 rpm</td>
<td>269</td>
<td>176</td>
<td>227</td>
</tr>
<tr>
<td>3.0 kW</td>
<td>2850 rpm</td>
<td>303</td>
<td>196</td>
<td>252</td>
</tr>
<tr>
<td>4.0 kW</td>
<td>2850 rpm</td>
<td>320</td>
<td>220</td>
<td>277</td>
</tr>
<tr>
<td>5.5 kW</td>
<td>2850 rpm</td>
<td>405</td>
<td>246</td>
<td>313</td>
</tr>
<tr>
<td>3.0 kW</td>
<td>1450 rpm</td>
<td>303</td>
<td>196</td>
<td>252</td>
</tr>
<tr>
<td>4.0 kW</td>
<td>1450 rpm</td>
<td>320</td>
<td>220</td>
<td>277</td>
</tr>
<tr>
<td>5.5 kW</td>
<td>1450 rpm</td>
<td>405</td>
<td>246</td>
<td>313</td>
</tr>
</tbody>
</table>

### Dimensions of three-phase motors explosion-proof to II 2 G EEx e II T3

<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>0.75 kW</td>
<td>2850 rpm</td>
<td>232</td>
<td>158</td>
<td>212</td>
</tr>
<tr>
<td>1.1 kW</td>
<td>2850 rpm</td>
<td>232</td>
<td>158</td>
<td>212</td>
</tr>
<tr>
<td>1.5 kW</td>
<td>2850 rpm</td>
<td>244</td>
<td>176</td>
<td>237</td>
</tr>
<tr>
<td>2.0 kW</td>
<td>2850 rpm</td>
<td>269</td>
<td>176</td>
<td>237</td>
</tr>
<tr>
<td>2.5 kW</td>
<td>2850 rpm</td>
<td>303</td>
<td>196</td>
<td>256</td>
</tr>
<tr>
<td>3.3 kW</td>
<td>2850 rpm</td>
<td>320</td>
<td>220</td>
<td>279</td>
</tr>
</tbody>
</table>
Questionnaire to quote on
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 cristallize?  ☐ 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 ___________ mm,  p.c. Ø ___________ mm  Extension tube  ☐ Yes   ☐ No
pressure flange ☐ Yes   ☐ No
outside Ø ___________ mm,  p.c. Ø ___________ mm  Ø of the container opening __________________________ mm
Dimension p = __________________________ 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.