The implantable port systems of pfm medical ag meet, together with the EZ Huber™ safety infusion set, the high demands of users and patients: safety, quality and selection from a broad portfolio.

Port systems
› TitaJet™ light II Contrast
› Jet Port® Plus II Contrast
› DualPort Contrast
› TitaJet™ light Low Profile Contrast
› T-Port Contrast
› T-Port Low Profile Contrast
› TitaJet™ light
› Jet Port® Plus
› T-Port
› T-Port Low Profile

Huber needle
› EZ Huber™
› JetCan™

The implantable port systems of pfm medical ag meet, together with the EZ Huber™ safety infusion set, the high demands of users and patients: safety, quality and selection from a broad portfolio.
The implantable port systems of pfm medical ag meet, together with the EZ Huber™ safety infusion cannula, the high demands of users and patients: safety, quality and selection from a broad portfolio.

**Port systems »Contrast«**

The high-pressure port systems of the product series »Contrast« represent the latest development in the field of implantable port systems. These systems allow, besides the application of common substances for chemotherapy and parenteral nutrition, the high-pressure application e.g. of contrast mediums during a follow-up examination of the tumour within the framework of the so-called staging for examinations in computed tomography. The well-known and proven advantages of implantable port systems are thereby enriched with another diagnostic possibility. These offer users and patients a high level of comfort and safety and set new standards.

**View**

- High pressure-resistant catheter made of biostable, implantation-tested polyurethane (PU)
- Radiopaque catheter
- Vessel-friendly atraumatic catheter tip
- Connectable catheter
- Highly compressed silicone membrane for secure closing of septum and secure holding of puncturing needle
- Well-palpable septum for safe identification of the puncture site
- Latex-, DEHP- and PVC-free

**Knowledge**

The required flow rate and pressure stability (during injection of contrast medium for CT examination) can be guaranteed with the 19 G (1,1 mm) Huber needle of the JetCan™ series as well as the safety infusion cannula EZ Huber™ (to avoid needlestick injuries). Both product ranges are available from pfm medical.

Test conditions: High-pressure injector with set max. pressure of 21 bar/300 psi; flow rate 5 ml/s; connection tube 1,5 m 60 sec.; contrast medium Visipaque® 320 at a temperature of 37 to 38 °C; with vascular simulation; Huber needle JetCan™ (19G, 25 mm) with extension. Instructions for use and port care advice must be strictly adhered to. Data from in-vitro test series is available on request.

**Configurations**

- 1 Port with CT marking
- 1 Catheter with atraumatic tip
- 2 Click-connectors
- 1 Rinsing needle
- 1 JetCan™ straight Huber needle (22 G, 25 mm),
- 1 Vein lifter
- 1 purple bracelet for identification of high-pressure port
- 1 Introducter kit (peel-away-sheath with dilator, guide wire 700 mm with J-tip, puncture needle)
- 1 Tunneling needle
- 1 Patient ID-card
- 2 Syringes 10 ml with DualPort Contrast

**Basic components**

- 1 Port with CT marking
- 1 Catheter with atraumatic tip
- 2 Click-connectors
- 1 Rinsing needle
- 1 JetCan™ straight Huber needle (22 G, 25 mm)
- 1 Vein lifter
- 1 purple bracelet for identification of high-pressure port
- 1 Patient ID-card

Separate introducer kit available on request (see p. 15).

*See back page for illustration
Venous port systems TitaJet™ light II Contrast and Jet Port® Plus II Contrast

The implantable port systems TitaJet™ light II Contrast and Jet Port® Plus II Contrast are used to administer systemic chemotherapy, long-term parenteral nutrition or long-term medication. This port system also permits the high-pressure application of a contrast medium as part of regular tumour staging.

**View**

![View of port system]

**Benefits**

<table>
<thead>
<tr>
<th>TitaJet™ light II Contrast</th>
<th>Reduced risk of migration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Excellent plastic-titanium combination</td>
<td>The low weight reduces the risk of migration and increases patient comfort.</td>
</tr>
<tr>
<td>Jet Port® Plus II Contrast</td>
<td>Easy placement</td>
</tr>
<tr>
<td>High-quality plastic (polyoxymethylene)</td>
<td>The oval shape of the port makes it easy to insert the port into the prepared pocket.</td>
</tr>
</tbody>
</table>

**Suitable for high-pressure applications**

The pressure resistance of the systems allows the application of certain substances with high pressure.

**Safe identification**

The radiopaque CT marking at the bottom of the port guarantees the identification as high-pressure port.

**Reduced risk of migration**

The low weight reduces the risk of migration and increases patient comfort.

**Easy placement**

The oval shape of the port makes it easy to insert the port into the prepared pocket.

**MRI-conditional**

Reduced artefact formation (up to 3.0T)

**Connection mechanism**

The transparent click-conector for the simple and easy connection as well as secure and reliable fixation of catheter and port chamber.

**Technical Data**

- Pressure stability: up to max. 21 bar/300 psi with maximum flow rate of 5 ml/s
- Length of catheter: 750 mm
- Dimensions: 32.1 x 23.6 x 13.2 mm (L x W x H)
- Weight TitaJet™ light II Contrast: 6.9 g
- Weight Jet Port® Plus II Contrast: 6.6 g
- Residual volume chamber: 0.37 ml
- Septum diameter: 12.1 mm
- Puncture frequency (non-coring 19-G needle): 1,000

**Ordering Information**

**TitaJet™ light II Contrast**

<table>
<thead>
<tr>
<th>REF Set¹</th>
<th>REF Basic¹</th>
<th>Catheter</th>
<th>ID</th>
<th>OD</th>
<th>OD</th>
<th>Flow rate²</th>
<th>Residual volume</th>
<th>PU</th>
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</thead>
<tbody>
<tr>
<td>61.636.83.077-K</td>
<td>61.635.83.077 PU soft</td>
<td>1.3 mm</td>
<td>2.2 mm</td>
<td>6.6 F</td>
<td>30 ml/min.</td>
<td>0.18 ml/10 cm Length of catheter</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>61.636.82.087-K</td>
<td>61.635.82.087 PU soft</td>
<td>1.6 mm</td>
<td>2.6 mm</td>
<td>8.0 F</td>
<td>35 ml/min.</td>
<td>0.23 ml/10 cm Length of catheter</td>
<td>1</td>
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</table>

**Jet Port® Plus II Contrast**

<table>
<thead>
<tr>
<th>REF Set¹</th>
<th>REF Basic¹</th>
<th>Catheter</th>
<th>ID</th>
<th>OD</th>
<th>OD</th>
<th>Flow rate²</th>
<th>Residual volume</th>
<th>PU</th>
</tr>
</thead>
<tbody>
<tr>
<td>61.636.73.077-K</td>
<td>61.635.73.077 PU soft</td>
<td>1.3 mm</td>
<td>2.2 mm</td>
<td>6.6 F</td>
<td>30 ml/min.</td>
<td>0.18 ml/10 cm Length of catheter</td>
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<tr>
<td>61.636.72.087-K</td>
<td>61.635.72.087 PU soft</td>
<td>1.6 mm</td>
<td>2.6 mm</td>
<td>8.0 F</td>
<td>35 ml/min.</td>
<td>0.23 ml/10 cm Length of catheter</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

¹ See page 2 for components
² 19-G needle, 0.9-%-NaCl solution, Length of catheter 40 cm, Gravitation altitude difference 100 cm
**Venous port systems DualPort Contrast**

The **DualPort Contrast** is an implantable double-chamber port with a port inlay made of titanium and a plastic casing for the simultaneous administration of incompatible medication. This port system also permits the high-pressure application of a contrast medium as part of regular tumor staging.

### View

- **Excellent plastic-titanium combination**
  - The special combination of two materials provide light weight and high safety.

- **Suitable for high-pressure applications**
  - The pressure resistance of the systems allows the application of certain substances with high pressure.

- **Ergonomic design**
  - A flat construction form for easy placement and handling.

- **Easy identification**
  - Palpation of both excellently-palpable port chambers allows for their easy localisation.

- **Minimal mixing**
  - The graduated openings of the catheter lumen ensure that mixing of applied medication is kept to a minimum.

- **MRI-conditional**
  - Reduced artefact formation (up to 3.0 T)

- **Connection mechanism**
  - Transparent click-connector for simple and easy connection as well as secure and reliable fixation of catheter and port chamber.

### Detailed view

- **Catheter tip**

### Technical Data

- Pressure stability: up to max. 21 bar/300 psi with maximum flow rate of 5 ml/s
- Length of catheter: 500 mm
- Dimensions: 41.0 x 26.0 x 12.7 mm (L x W x H)
- Weight: 9.0 g
- Residual volume per chamber: 0.37 ml
- Septum diameter: each 11.0 mm
- Puncture frequency (non-coring 19-G needle): 500 per chamber

### Ordering Information

**DualPort Contrast**

<table>
<thead>
<tr>
<th>REF Set¹</th>
<th>Catheter</th>
<th>ID</th>
<th>OD</th>
<th>OD</th>
<th>Flow rate²</th>
<th>Residual volume</th>
<th>PU</th>
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<tbody>
<tr>
<td>61.602.20.077</td>
<td>PU soft</td>
<td>2 x 1.10 mm</td>
<td>3.2 mm</td>
<td>9.0 F</td>
<td>2 x 22 ml/min.</td>
<td>2 x 0.20 ml/10 cm Length of catheter</td>
<td>1</td>
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</tbody>
</table>

¹ See page 2 for components
² 19-G needle, 0.9-%-NaCl solution, Length of catheter 40 cm, Gravitation altitude difference 100 cm
Venous port systems TitaJet™ light Low Profile Contrast

The implantable port system TitaJet™ light Low Profile Contrast is used to administer systemic chemotherapy, long-term parenteral nutrition or long-term medication. This port system also permits the high-pressure application of a contrast medium as part of regular tumour staging. The slim design allows for its use in smaller patients or as peripheral port, e.g. for placement in the arm.

View

![Image of TitaJet™ light Low Profile Contrast](image)

<table>
<thead>
<tr>
<th>Benefits</th>
<th>Slim design</th>
<th>Excellent plastic-titanium combination</th>
<th>Suitable for high-pressure applications</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>The narrow shape of the port allows for its use in smaller patients or as peripheral port, e.g. for placement in the arm.</td>
<td>The special combination of two materials provide light weight and high safety.</td>
<td>The pressure resistance of the systems allows the application of certain substances with high pressure.</td>
</tr>
<tr>
<td></td>
<td>Easy placement</td>
<td>Small dimensions for easy placement.</td>
<td>MRI-conditional</td>
</tr>
<tr>
<td></td>
<td>Connection mechanism</td>
<td>Reduced artefact formation (up to 3,0 T)</td>
<td>The transparent click-connector for easy and simple connection as well as secure and reliable fixation of catheter and port chamber.</td>
</tr>
</tbody>
</table>

Benefits

- **Excellent plastic-titanium combination**: The special combination of two materials provide light weight and high safety.
- **Suitable for high-pressure applications**: The pressure resistance of the systems allows the application of certain substances with high pressure.
- **Safe identification**: The radiopaque CT marking at the bottom of the port ensures identification as high-pressure port.
- **Reduced risk of migration**: The low weight reduces the risk of migration and increases patient comfort.
- **Slim design**: The narrow shape of the port allows for its use in smaller patients or as peripheral port, e.g. for placement in the arm.
- **Easy placement**: Small dimensions for easy placement.
- **MRI-conditional**: Reduced artefact formation (up to 3,0 T)
- **Connection mechanism**: The transparent click-connector for easy and simple connection as well as secure and reliable fixation of catheter and port chamber.

Technical Data

- Pressure stability: up to max. 21 bar/300 psi with maximum flow rate of 5 ml/s (3 ml/s with catheter 4.8 F)
- Length of catheter: 750 mm
- Dimensions: 24.0 x 20.5 x 10.3 mm (L x W x H)
- Weight: 3.5 g
- Residual volume per chamber: 0.30 ml
- Septum diameter: 8.0 mm
- Puncture frequency (non-coring 19-G needle): 600

Ordering Information

TitaJet™ light Low Profile Contrast

<table>
<thead>
<tr>
<th>REF Set¹</th>
<th>REF Basic¹</th>
<th>Catheter</th>
<th>ID</th>
<th>OD</th>
<th>OD</th>
<th>Flow rate²</th>
<th>Residual volume</th>
<th>PU</th>
</tr>
</thead>
<tbody>
<tr>
<td>61.636.09.070-K</td>
<td>61.635.09.077</td>
<td>PU soft</td>
<td>1.0 mm</td>
<td>1.6 mm</td>
<td>4.8 F</td>
<td>14 ml/min.</td>
<td>0.10 ml/10 cm Length of catheter 1</td>
<td></td>
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<tr>
<td>61.636.08.070-K</td>
<td>61.635.08.077</td>
<td>PU soft</td>
<td>1.3 mm</td>
<td>2.2 mm</td>
<td>6.6 F</td>
<td>25 ml/min.</td>
<td>0.18 ml/10 cm Length of catheter 1</td>
<td></td>
</tr>
</tbody>
</table>

¹ See page 2 for components
² 19-G needle, 0,9-%-NaCl solution, Length of catheter 40 cm, Gravitation altitude difference 100 cm
The implantable port systems **T-Port Contrast** and **T-Port Low Profile Contrast** made of titanium are used to administer systemic chemotherapy, long-term parenteral nutrition or long-term medication. This port system also permits the high-pressure application of contrast mediums as part of regular tumour staging.

### Views
- **Titanium material of proven quality**
  The excellence material ensures a highly reliable usage.
- **Suitable for high-pressure applications**
  The pressure resistance of the systems allows the application of certain substances with high pressure.
- **Safe identification**
  The radiopaque CT marking at the bottom of the port ensures identification as high-pressure port.

### Benefits
- **Small dimensions with T-Port Low Profile Contrast**
  Small version for more discreet placing of the port.
- **Connection mechanism**
  Transparent click-connector for simple and easy connection as well as secure and reliable fixation of catheter and port chamber.

### Technical Data
- **Pressure stability**: up to max. 21 bar/300 psi at maximum flow rate of 5 ml/s
- **Length of catheter**: 750 mm
- **T-Port Contrast**:
  - **Dimensions**: 27.0 mm (Ø base plate) x 13.0 mm (height)
  - **Weight**: 14.5 g
  - **Residual volume chamber**: 0.7 ml
  - **Septum diameter**: 12.0 mm
  - **Puncture frequency (non-coring 19-G needle)**: 1,000
- **T-Port Low Profile Contrast**:
  - **Dimensions**: 23.0 mm (Ø base plate) x 10.0 mm (height)
  - **Weight**: 8.0 g
  - **Residual volume chamber**: 0.2 ml
  - **Septum diameter**: 9.0 mm
  - **Puncture frequency (non-coring 19-G needle)**: 600

### Ordering Information

#### T-Port Contrast

<table>
<thead>
<tr>
<th>REF Set¹</th>
<th>REF Basic¹</th>
<th>Catheter</th>
<th>ID</th>
<th>OD</th>
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<th>Flow rate²</th>
<th>Residual volume</th>
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<tbody>
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<td>PU soft</td>
<td>1.3 mm</td>
<td>2.2 mm</td>
<td>6.6 F</td>
<td>30 ml/min.</td>
<td>0.18 ml/10 cm Length of catheter 1</td>
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<td>61.636.52.087-K</td>
<td>61.635.52.087</td>
<td>PU soft</td>
<td>1.6 mm</td>
<td>2.6 mm</td>
<td>8.0 F</td>
<td>35 ml/min.</td>
<td>0.23 ml/10 cm Length of catheter 1</td>
<td></td>
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</table>

#### T-Port Low Profile Contrast

<table>
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<tr>
<th>REF Set¹</th>
<th>REF Basic¹</th>
<th>Catheter</th>
<th>ID</th>
<th>OD</th>
<th>OD</th>
<th>Flow rate²</th>
<th>Residual volume</th>
<th>PU</th>
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<tr>
<td>61.636.63.077-K</td>
<td>61.635.63.077</td>
<td>PU soft</td>
<td>1.3 mm</td>
<td>2.2 mm</td>
<td>6.6 F</td>
<td>30 ml/min.</td>
<td>0.18 ml/10 cm Length of catheter 1</td>
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<tr>
<td>61.636.62.087-K</td>
<td>61.635.62.087</td>
<td>PU soft</td>
<td>1.6 mm</td>
<td>2.6 mm</td>
<td>8.0 F</td>
<td>35 ml/min.</td>
<td>0.23 ml/10 cm Length of catheter 1</td>
<td></td>
</tr>
</tbody>
</table>

¹ See page 2 for components
² 19-G needle, 0.9-%-NaCl solution, Length of catheter 40 cm, Gravitation altitude difference 100 cm
Port systems

The implantable port systems of pfm medical ag meet the highest international standards for more than 30 years and are used reliably for the long-term medication in the areas of oncology, e.g. with chemotherapies and parenteral nutrition.

The unique material concept of the port offers the user thereby a choice of high-quality plastic port systems, a variation in pure titanium as well as a hybrid version made of plastic and titanium.

Plastic port systems are very light so that a risk of migration is reduced. Moreover, they offer the advantage of minimal artefact formation using diagnostic methods such as magnetic resonance imaging. Port systems made of titanium are being implanted successfully and reliably for many years. The personnel in particular values the safe handling e.g. during the puncture with a suitable Huber needle.

With port systems in the hybrid version, the features and benefits of plastic and titanium are combined, resulting in significant benefits for the user and patient.

Based on long-term experience and constant optimisation processes, numerous detail solutions such as e.g. the click-connector, which provides a high level of user-friendliness, were able to be developed.

View

Details

- Catheter made of biostable, implantation-tested polyurethane (PU) or silicone
- Radiopaque catheter
- Vessel-friendly atraumatic catheter tip
- Connectable catheter
- Highly compressed silicone membrane for secure closing of septum and secure holding of puncturing needle
- Well-palpable septum for safe identification of the puncture site
- Latex-, DEHP- and PVC-free

Configurations*

Set components
- 1 Port
- 1 Catheter with atraumatic tip
- 2 Click-connectors
- 1 Rinsing needle
- 1 JetCan™ straight Huber needle (22 G, 25 mm)
- 1 JetCan™ curved Huber needle, with extension (22 G, 25 mm)
- 1 Vein lifter
- 1 Syringe 10 ml
- 1 Introducer kit (peel-away-sheath with dilator, guide wire 700 mm with J-tip, puncture needle)
- 1 Patient ID-card

Basic components
- 1 Port
- 1 Catheter with atraumatic tip
- 2 Click-connectors
- 1 Rinsing needle
- 1 JetCan™ straight Huber needle (22 G, 25 mm)
- 1 Vein lifter
- 1 Patient ID-card

Separate introducer kit available on request (see p. 15).

* See back page for illustration
Venous port systems TitaJet™ light and Jet Port® Plus

The implantable port system TitaJet™ light with a port inlay made of titanium and a plastic casing, or Jet Port® Plus made of high-quality plastic are used to administer systemic chemotherapy, long-term parenteral nutrition or long-term medication.

**View**

- TitaJet™ light: Excellent plastic-titanium combination
- Jet Port® Plus: High-quality plastic (polyoxymethylene)
- Reduced risk of migration: The low weight reduces the risk of migration and increases patient comfort.

**Benefits**

- MRI-conditional: Minimal artefact formation (up to 3,0T)
- Connection mechanism: Transparent click-connector for easy and simple connection as well as safe and reliable fixation of catheter and port chamber.

**Technical Data**

- Length of catheter: 750 mm
- Dimensions: 28.0 mm (Ø base plate) x 12.3 mm (height)
- Weight TitaJet™ light: 6.0 g
- Weight Jet Port® Plus: 5.7 g

- Residual volume chamber: 0.37 ml
- Septum diameter: 10.0 mm
- Puncture frequency (non-coring 19-G needle): 1,000

**Ordering Information**

**TitaJet™ light**

<table>
<thead>
<tr>
<th>REF Set¹</th>
<th>REF Basic¹</th>
<th>Catheter</th>
<th>ID</th>
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<td>6.6 F</td>
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<td>0.18 ml/10 cm Length of catheter</td>
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<tr>
<td>61.646.25.075</td>
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<td>61.646.21.080</td>
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<td>Silicone</td>
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<td>2.8 mm</td>
<td>8.4 F</td>
<td>30 ml/min.</td>
<td>0.23 ml/10 cm Length of catheter</td>
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**Jet Port® Plus**

<table>
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<tr>
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<th>REF Basic¹</th>
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<td>0.10 ml/10 cm Length of catheter</td>
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<td>8.4 F</td>
<td>30 ml/min.</td>
<td>0.23 ml/10 cm Length of catheter</td>
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</tbody>
</table>

¹ See page 7 for components
² 19-G needle, 0.9-%-NaCl solution, Length of catheter 40 cm, Gravitation altitude difference 100 cm
Venous port systems Jet Port® Plus Low Profile Peripheral and Portolino

The implantable port systems Jet Port® Plus Low Profile Peripheral and Portolino made of high-quality plastic are used to administer systemic chemotherapy, long-term parenteral nutrition or long-term medication. The slim design allows for the use in smaller patients or as peripheral port, e.g. for placement in the arm.

**Views**

**High-quality plastic (polyoxymethylene)**
The implantation-tested plastic material provides a reduced weight.

**Reduced risk of migration**
The low weight reduces the risk of migration and increases patient comfort.

**Slim design**
The narrow shape of the port allows for use in smaller patients or as peripheral port e.g. for placement in the arm.

**Benefits**

- Discreet placement: Small dimensions for discreet placement.
- MRI-conditional: Minimal artefact formation (up to 3.0 T)
- Connection mechanism: The transparent click-connector for simple and easy connection as well as safe and reliable fixation of catheter and port chamber.

**Technical Data**

- Length of catheter: 750 mm
- Jet Port® Plus Low Profile Peripheral:
  - Dimensions: 24.0 x 20.5 x 10.3 mm (L x W x H)
  - Weight: 3.5 g
  - Residual volume chamber: 0.3 ml
  - Septum diameter: 8.0 mm
- Portolino:
  - Dimensions: 23.0 x 17.8 x 10.0 mm (L x W x H)
  - Weight: 3.0 g
  - Residual volume chamber: 0.15 ml
  - Septum diameter: 8.0 mm
  - Puncture frequency (non-coring 19-G needle): 600

**Ordering Information**

**Jet Port® Plus Low Profile Peripheral**

<table>
<thead>
<tr>
<th>REF Set¹</th>
<th>REF Basic²</th>
<th>Catheter</th>
<th>ID</th>
<th>OD</th>
<th>OD Flow rate³</th>
<th>Residual volume</th>
<th>PU</th>
</tr>
</thead>
<tbody>
<tr>
<td>61.636.03.070</td>
<td>61.635.03.070</td>
<td>PU soft</td>
<td>1.3 mm</td>
<td>2.2 mm</td>
<td>6.6 F</td>
<td>25 ml/min.</td>
<td>0.18 ml/10 cm Length of catheter</td>
</tr>
<tr>
<td>61.646.07.070</td>
<td>61.647.07.070</td>
<td>Silicone</td>
<td>1.0 mm</td>
<td>2.2 mm</td>
<td>6.6 F</td>
<td>14 ml/min.</td>
<td>0.10 ml/10 cm Length of catheter</td>
</tr>
</tbody>
</table>

**Portolino**

<table>
<thead>
<tr>
<th>REF Basic³</th>
<th>Catheter</th>
<th>ID</th>
<th>OD</th>
<th>OD Flow rate³</th>
<th>Residual volume</th>
<th>PU</th>
</tr>
</thead>
<tbody>
<tr>
<td>61.638.15.075</td>
<td>PU soft</td>
<td>1.0 mm</td>
<td>1.6 mm</td>
<td>4.8 F</td>
<td>14 ml/min.</td>
<td>0.10 ml/10 cm Length of catheter</td>
</tr>
<tr>
<td>61.648.05.075</td>
<td>Silicone</td>
<td>0.8 mm</td>
<td>1.6 mm</td>
<td>4.8 F</td>
<td>14 ml/min.</td>
<td>0.05 ml/10 cm Length of catheter</td>
</tr>
</tbody>
</table>

¹ See page 7 for components
² 19-G needle, 0,9-%-NaCl solution, Length of catheter 40 cm, Gravitation altitude difference 100 cm
Venous port systems T-Port and T-Port Low Profile

The implantable port systems **T-Port** and **T-Port Low Profile** made of titanium are used to administer systemic chemotherapy, long-term parenteral nutrition or long-term medication.

**Views**

**Technical Data**

- Length of catheter: 750 mm
- **T-Port:**
  - Dimensions: 27.0 mm (Ø base plate) x 13.0 mm (height)
  - Weight: 14.5 g
  - Residual volume chamber: 0.7 ml
  - Septum diameter: 12.0 mm
  - Puncture frequency (non-coring 19-G needle): 1,000

- **T-Port Low Profile:**
  - Dimensions: 23.0 mm (Ø base plate) x 10.0 mm (height)
  - Weight: 8.0 g
  - Residual volume chamber: 0.2 ml
  - Septum diameter: 9.0 mm
  - Puncture frequency (non-coring 19-G needle): 600

**Benefits**

- **Titanium material of proven quality**
  The excellence material ensures a highly reliable usage.
- **Small dimensions for T-Port Low Profile**
  A small version for more discreet placing of the port.
- **Connection mechanism**
  Transparent click-connector for simple and easy connection as well as safe and reliable fixation of catheter and port chamber.

**Ordering Information**

### T-Port

<table>
<thead>
<tr>
<th>REF Set¹</th>
<th>REF Basic¹</th>
<th>Catheter</th>
<th>ID</th>
<th>OD</th>
<th>OD Flow rate²</th>
<th>Residual volume</th>
<th>PU</th>
<th>Length of catheter</th>
<th>Length of catheter</th>
</tr>
</thead>
<tbody>
<tr>
<td>61.636.55.075</td>
<td>61.635.55.075</td>
<td>PU soft</td>
<td>1.0 mm</td>
<td>1.6 mm</td>
<td>4.8 F</td>
<td>18 ml/min.</td>
<td>0.10 ml/10 cm</td>
<td>1</td>
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</tr>
<tr>
<td>61.636.53.075</td>
<td>61.635.53.075</td>
<td>PU soft</td>
<td>1.3 mm</td>
<td>2.2 mm</td>
<td>6.6 F</td>
<td>30 ml/min.</td>
<td>0.18 ml/10 cm</td>
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<tr>
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<td>61.645.55.075</td>
<td>Silicone</td>
<td>1.0 mm</td>
<td>2.2 mm</td>
<td>6.6 F</td>
<td>18 ml/min.</td>
<td>0.10 ml/10 cm</td>
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<tr>
<td>61.646.51.080</td>
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<td>Silicone</td>
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<td>2.8 mm</td>
<td>8.4 F</td>
<td>35 ml/min.</td>
<td>0.23 ml/10 cm</td>
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### T-Port Low Profile

<table>
<thead>
<tr>
<th>REF Set¹</th>
<th>REF Basic¹</th>
<th>Catheter</th>
<th>ID</th>
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<th>PU</th>
<th>Length of catheter</th>
<th>Length of catheter</th>
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</thead>
<tbody>
<tr>
<td>61.636.65.075</td>
<td>61.635.65.075</td>
<td>PU soft</td>
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<td>1.6 mm</td>
<td>4.8 F</td>
<td>11 ml/min.</td>
<td>0.10 ml/10 cm</td>
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<td>61.635.63.075</td>
<td>PU soft</td>
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<td>2.2 mm</td>
<td>6.6 F</td>
<td>12 ml/min.</td>
<td>0.18 ml/10 cm</td>
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</tr>
<tr>
<td>61.646.65.075</td>
<td>61.645.65.075</td>
<td>Silicone</td>
<td>1.0 mm</td>
<td>2.2 mm</td>
<td>6.6 F</td>
<td>11 ml/min.</td>
<td>0.10 ml/10 cm</td>
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<td></td>
</tr>
</tbody>
</table>

¹ See page 7 for components
² 19-G needle, 0.9-%-NaCl solution, Length of catheter 40 cm, Gravitation altitude difference 100 cm
The implantable arterial port system **Jet Port® Plus** is used for arterial application, in particular for regional chemotherapy of liver.

### Views

![Port system](image)

### Benefits

**Jet Port® Plus**
- High-quality plastic (polyoxymethylene)

**Catheter tip**
- Vessel-friendly and traumatic catheter tip with thickened section for securing it in artery

**Catheter material**
- Biostable, implantation-tested polyurethane (PU).

### Technical Data

- Length of catheter: 900 mm
- Dimensions: 28.0 mm (Ø base plate) x 12.3 mm (height)
- Residual volume: 0.37 ml
- Weight: 5.9 g
- Septum diameter: 10.0 mm
- Puncture frequency (non-coring 19-G needle): 1.000

### Configurations

**Jet Port® Plus Arterial**

- 1 Port
- 1 Catheter with atraumatic tip and thickened section
- 1 Rinsing needle
- 1 JetCan™ straight Huber needle (22 G, 25 mm)
- 1 Click-connector
- 1 Vein lifter
- 1 Patient ID-card

### Ordering Information

**Jet Port® Plus**

<table>
<thead>
<tr>
<th>REF</th>
<th>Version</th>
<th>Catheter</th>
<th>ID</th>
<th>OD</th>
<th>OD</th>
<th>Flow rate</th>
<th>Residual volume</th>
<th>PU</th>
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<tbody>
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<td>Arterial</td>
<td>PU soft</td>
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<td>1.6 mm</td>
<td>4.8 F</td>
<td>14 ml/min.</td>
<td>0.10 ml/10 cm Length of catheter</td>
<td>1</td>
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</table>

^1 19-G needle 0.9-%-NaCl solution, Length of catheter 40 cm, gravitation altitude difference 100 cm
**EZ Huber™ safety infusion cannula**

The **EZ Huber™** is a safety infusion cannula for puncturing implanted port systems. A safety mechanism reduces the risk of needlestick injuries and protects users from infection.

### Views

![EZ Huber™ safety infusion cannula views](image)

### Detailed views

![EZ Huber™ safety infusion cannula detailed views](image)

### Benefits

**Patented safety mechanism**
The patented EZ Huber™ safety mechanism reduces the risk of needlestick injuries and provides protection against infection. The safety mechanism is activated automatically when the cannula is extracted. An audible click indicates that the cannula is safely locked inside the housing.

**Unique protective sheath**
The unique, patented protective sheath completely covers the cannula when it is withdrawn from the port and, after usage, affords protection against contact with bodily fluids and germs. The protective sheath effectively prevents cross-contaminations.

**Biocompatible material**
The use of extra biocompatible materials - containing no latex and DEHP - affords the patient additional protection. Infusion of aggressive medication without material damage is still possible.
### Ordering Information

**EZ Huber™**, Version: Extension 180 mm

<table>
<thead>
<tr>
<th>REF</th>
<th>Size</th>
<th>Colour code</th>
<th>PU</th>
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<tbody>
<tr>
<td>SHN19-60*</td>
<td>19 G x 15 mm</td>
<td>brown</td>
<td>25</td>
</tr>
<tr>
<td>SHG19-75</td>
<td>19 G x 19 mm</td>
<td>brown</td>
<td>25</td>
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<tr>
<td>SHG19-100</td>
<td>19 G x 25 mm</td>
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<td>25</td>
</tr>
<tr>
<td>SHG19-150</td>
<td>19 G x 38 mm</td>
<td>brown</td>
<td>25</td>
</tr>
<tr>
<td>SHN20-60*</td>
<td>20 G x 15 mm</td>
<td>yellow</td>
<td>25</td>
</tr>
<tr>
<td>SHG20-75</td>
<td>20 G x 19 mm</td>
<td>yellow</td>
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<tr>
<td>SHG20-100</td>
<td>20 G x 25 mm</td>
<td>yellow</td>
<td>25</td>
</tr>
<tr>
<td>SHG20-150</td>
<td>20 G x 38 mm</td>
<td>yellow</td>
<td>25</td>
</tr>
<tr>
<td>SHN22-60*</td>
<td>22 G x 15 mm</td>
<td>black</td>
<td>25</td>
</tr>
<tr>
<td>SHG22-75</td>
<td>22 G x 19 mm</td>
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<tr>
<td>SHG22-100</td>
<td>22 G x 25 mm</td>
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<td>25</td>
</tr>
<tr>
<td>SHG22-150</td>
<td>22 G x 38 mm</td>
<td>black</td>
<td>25</td>
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</table>

* not CT-rated

**EZ Huber™**, Version: Extension with Y-side

<table>
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<tr>
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<th>PU</th>
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<tbody>
<tr>
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<td>brown</td>
<td>25</td>
</tr>
<tr>
<td>SHG19-100Y</td>
<td>19 G x 25 mm</td>
<td>brown</td>
<td>25</td>
</tr>
<tr>
<td>SHG19-150Y</td>
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<td>SHG20-75Y</td>
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<td>25</td>
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<tr>
<td>SHG20-150Y</td>
<td>20 G x 38 mm</td>
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<td>25</td>
</tr>
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<td>SHG22-75Y</td>
<td>22 G x 19 mm</td>
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</tr>
<tr>
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<tr>
<td>SHG22-150Y</td>
<td>22 G x 38 mm</td>
<td>black</td>
<td>25</td>
</tr>
</tbody>
</table>
The JetCan™ is a Huber design cannula for the safe puncture of implanted port systems. The special design prevents silicone particles being punched out of the closing port membrane.

**Views**

**Benefits**

- **Needle with high inherent stability**
  A firm fixation of the needle for proper injection canals and tight fit.

- **Optimized tube configuration**
  The DEHP-free tubing consists inside of polyethylene (PE) and outside of polyvinylchloride (PVC). Thus, the infusion does not leach out any toxic substances and is suitable for the application of aggressive cytostatics.

**Configurations**

- No tube
- Straight tube
- Tube with Y-connector

---

**Ordering Information**

**JetCan™**

<table>
<thead>
<tr>
<th>REF</th>
<th>Version</th>
<th>Form</th>
<th>Size</th>
<th>Diameter needle</th>
<th>Length</th>
<th>PU</th>
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<tbody>
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<td>without tube</td>
<td>straight</td>
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<td>0.9 mm</td>
<td>25 mm</td>
<td>20</td>
</tr>
<tr>
<td>61.512.20.125</td>
<td>without tube</td>
<td>curved</td>
<td>20 G</td>
<td>0.9 mm</td>
<td>25 mm</td>
<td>20</td>
</tr>
<tr>
<td>61.512.22.030</td>
<td>without tube</td>
<td>straight</td>
<td>22 G</td>
<td>0.7 mm</td>
<td>32 mm</td>
<td>20</td>
</tr>
<tr>
<td>61.512.22.130</td>
<td>without tube</td>
<td>curved</td>
<td>22 G</td>
<td>0.7 mm</td>
<td>25 mm</td>
<td>20</td>
</tr>
<tr>
<td>61.612.19.130</td>
<td>with tube</td>
<td>curved</td>
<td>19 G</td>
<td>1.1 mm</td>
<td>25 mm</td>
<td>20</td>
</tr>
<tr>
<td>61.612.19.132</td>
<td>with tube</td>
<td>curved</td>
<td>19 G</td>
<td>1.1 mm</td>
<td>32 mm</td>
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<tr>
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<td>20 mm</td>
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</tr>
<tr>
<td>61.612.20.130</td>
<td>with tube</td>
<td>curved</td>
<td>20 G</td>
<td>0.9 mm</td>
<td>25 mm</td>
<td>20</td>
</tr>
<tr>
<td>61.612.20.132</td>
<td>with tube</td>
<td>curved</td>
<td>20 G</td>
<td>0.9 mm</td>
<td>32 mm</td>
<td>20</td>
</tr>
<tr>
<td>61.612.22.115</td>
<td>with tube</td>
<td>curved</td>
<td>22 G</td>
<td>0.7 mm</td>
<td>15 mm</td>
<td>20</td>
</tr>
<tr>
<td>61.612.22.130</td>
<td>with tube</td>
<td>curved</td>
<td>22 G</td>
<td>0.7 mm</td>
<td>25 mm</td>
<td>20</td>
</tr>
<tr>
<td>61.612.22.132</td>
<td>with tube</td>
<td>curved</td>
<td>22 G</td>
<td>0.7 mm</td>
<td>32 mm</td>
<td>20</td>
</tr>
<tr>
<td>61.612.20.000</td>
<td>with Y-connector</td>
<td>curved</td>
<td>20 G</td>
<td>0.9 mm</td>
<td>25 mm</td>
<td>20</td>
</tr>
<tr>
<td>61.612.22.000</td>
<td>with Y-connector</td>
<td>curved</td>
<td>22 G</td>
<td>0.7 mm</td>
<td>25 mm</td>
<td>20</td>
</tr>
</tbody>
</table>
**Introducer Kit**
The splittable introducer kit is used to insert port catheters using the Seldinger technique.

**View**

**Benefits**
- **Flexible guide wire**
The flexible guide wire with straight and J-tip facilitates the optimal usage of the guide.
- **Peel-away-sheath**
The splittable introducer sheath with locking mechanism for the included dilator provides a smooth transition between dilator and sheaths for safe puncture of the vessel.

**Configurations**

- Sizes: 5 - 9 F

**Ordering Information**

<table>
<thead>
<tr>
<th>Introducer Kit</th>
<th>Dilator</th>
<th>Guide wire</th>
<th>Peel-away-sheath</th>
<th>Puncture needle</th>
<th>PU</th>
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</thead>
<tbody>
<tr>
<td>61.645.55.575</td>
<td>5 F</td>
<td>0.035&quot;, 1000 mm</td>
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<td>17 G, 80 mm</td>
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<td>12 cm</td>
<td>17 G, 80 mm</td>
<td>1</td>
</tr>
<tr>
<td>61.645.99.075</td>
<td>9 F</td>
<td>0.035&quot;, 700 mm</td>
<td>12 cm</td>
<td>17 G, 80 mm</td>
<td>1</td>
</tr>
</tbody>
</table>

**Tunneling Needle**
The tunneling needle is a metal trocar for subcutaneous tunnelling of a port catheter during port implantation.

**View**

**Benefits**
- **Stainless steel tunneling needle**
The usage of high-quality stainless steel facilitates the tunneling of the catheter.

**Configurations**

- Suitable for catheter sizes 4.8 - 9 F
- 200 to 220 mm long

**Ordering Information**

<table>
<thead>
<tr>
<th>Tunneling needle</th>
<th>Catheter diameter</th>
<th>Length</th>
<th>PU</th>
</tr>
</thead>
<tbody>
<tr>
<td>61.645.55.222</td>
<td>&lt; 5 F</td>
<td>200 mm</td>
<td>1</td>
</tr>
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<td>&lt; 7 F</td>
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<td>1</td>
</tr>
<tr>
<td>61.645.59.222</td>
<td>&lt; 10 F</td>
<td>220 mm</td>
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</table>
Accessories for port systems

1. Guide wire with J-tip 700 mm
2. Puncture needle
3. Syringe 10 ml
4. Introducer kit (peel-away-sheath with dilator)
5. Vein lifter
6. JetCan™ straight Huber needle (22 G, 25 mm)
7. JetCan™ curved Huber needle, with extension (22 G, 25 mm)
8. Rinsing needle
9. Click-connector
10. Tunneling needle

Contact person

Should you have any questions our Customer Solutions Team is happy to advice you.

service@pfmmedical.com
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Fax +49 (0)2236 9641-51