Tank Sight Glass Fittings
Sight Flow Indicators
Strainers

TRUST IN WHAT YOU SEE.
With Flange Connection

- **BF 880**
  - Description: DIN 3237
  - Pressure: PN 16 - PN 40
  - Size: DN 15 - DN 200

- **BF 885**
  - Description: DIN 3236
  - Pressure: PN 16 - PN 40
  - Size: DN 15 - DN 150

- **BF 112**
  - Description: without residual fluid
  - Pressure: PN 16
  - Size: DN 15 - DN 400

- **BF 912**
  - Description: high-pressure design
  - Pressure: up to PN 160
  - Size: DN 15 - DN 100

- **BF 106-B**
  - Description: loose flanges
  - Pressure: PN 10
  - Size: DN 15 - DN 80

*All flanges available in ANSI design (see data sheet)*

With Thread

- **BF 881**
  - Description: G- (BSP) or NPT- thread
  - Pressure: PN 16 - PN 40
  - Size: 1/4" - 2"

In Angle- or Multiway-Line

- **BF 920**
  - Description: angle-line
  - Pressure: PN 10 - PN 40
  - Size: DN 15 - DN 200

- **BF 972**
  - Description: 3-way-line
  - Pressure: PN 16 - PN 40
  - Size: DN 15 - DN 200

- **BF 974**
  - Description: 4-way-line
  - Pressure: PN 16 - PN 40
  - Size: DN 15 - DN 200

With Welding Ends

- **BF 880-S**
  - Description: butt weld ends
  - Pressure: PN 16 - PN 40
  - Size: DN 15 - DN 200

- **BF 880-SOW**
  - Description: socket weld ends
  - Pressure: PN 16 - PN 40
  - Size: DN 15 - DN 100

- **BF 112-S**
  - Description: without residual fluid
  - Pressure: PN 16
  - Size: DN 15 - DN 100

- **BF 912-S**
  - Description: high-pressure design
  - Pressure: up to PN 160
  - Size: DN 15 - DN 100
Additional Equipment

- Heating jacket
- Safety double windows
- Double windows
- Vacuum sealing
- Spray washer

- Flap indication
- Spinner
- Light fitting: standard or EX-design
- Wiper BF190-T / 190-F: with T-handle or freewheel
- Protective grid

Materials

- Casting materials:
  - GG-25
  - GS-C 25
  - 1.4408
  - Other materials on request

- Welding materials:
  - Carbon steel
  - 1.4571
  - Other materials on request

Tubular Sight Glasses

- BF 20: Standard
  - Pressure: up to 6 bar
  - Size: DN 15 - DN 200
  - Materials: Carbon steel / 1.4571

- BF 25: Safety sealing
  - Pressure: up to 6 bar
  - Size: DN 15 - DN 200
  - Materials: Carbon steel / 1.4571

- BF 25-B: With ball indication
  - Pressure: up to 6 bar
  - Size: DN 25 - DN 100
  - Materials: Carbon steel / 1.4571

NORIS tubular sight glasses available with:
- DIN / ANSI flanges (see data sheet)
- Thread
- Welding ends
To Be Welded Directly to Tanks

<table>
<thead>
<tr>
<th>Type</th>
<th>BF 120</th>
<th>BF 118</th>
<th>BF 220</th>
<th>BF 225</th>
<th>BF 127</th>
<th>BF 230</th>
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<tbody>
<tr>
<td>Description</td>
<td>DIN 28120</td>
<td>Light design</td>
<td>Rectangular</td>
<td>Oblound</td>
<td>Similar to DIN 11851</td>
<td>With welding end</td>
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<tr>
<td>Pressure</td>
<td>PN 6 - PN 16</td>
<td>PN 2.5</td>
<td>PN 16</td>
<td>PN 3 - PN 25</td>
<td>PN 6</td>
<td>PN 10 - PN 63</td>
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<tr>
<td>Size</td>
<td>DN 25 - DN 200</td>
<td>DN 50 - DN 200</td>
<td>See data sheet</td>
<td>See data sheet</td>
<td>DN 50 - DN 125</td>
<td>DN 25 - DN 200</td>
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<tr>
<td>Materials</td>
<td>C-Steel / 1.4541 / 1.4571</td>
<td>Carbon steel / 1.4571</td>
<td>Carbon steel / 1.4571</td>
<td>Carbon steel / 1.4571</td>
<td>1.4404 / 1.4301</td>
<td>C-Steel / 1.4541 / 1.4571</td>
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</table>

To Be Mounted to Existing Flanges

<table>
<thead>
<tr>
<th>Type</th>
<th>BF 121</th>
<th>BF 1205</th>
<th>BF 232</th>
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<tbody>
<tr>
<td>Description</td>
<td>DIN 28121</td>
<td>Manhole sight glass</td>
<td>With male thread</td>
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<tr>
<td>Pressure</td>
<td>PN 10 - PN 25</td>
<td>Acc. to arrangement</td>
<td>Up to PN 40</td>
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<tr>
<td>Size</td>
<td>DN 40 - DN 200</td>
<td>DN 150 - DN 800</td>
<td>G (BSP)</td>
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<tr>
<td>Materials</td>
<td>Carbon steel / 1.4571</td>
<td>C-Steel / 1.4541 / 1.4571</td>
<td>Carbon steel / 1.4571</td>
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</tbody>
</table>

Further Opportunities:
- BF 121 and BF 1205 available in ANSI design
- All tank sight glass fittings available in special materials
- Special flanges on request

Materials

Welding Materials:
- HII / C 22.8
- 1.4541
- 1.4571
- Other materials on request
Additional Equipment

**description**

- high-temperature: $T_{max} > 200 \, ^\circ C$  
- safety double windows: also with heating system  
- double windows: also with heating system  
- vacuum sealing: with O-ring sealing  

**description**

- spray washer BF121-I  
- spray washer BF198  
- standard light fitting  
- EX light fitting  

**description**

- wiper with T-handle BF190-T  
- wiper with freewheel BF190-F  
- wiper pressure-resistant BF195  
- protective grid  

### Available Additional Equipment

<table>
<thead>
<tr>
<th></th>
<th>high temp.</th>
<th>safety dbl. win.</th>
<th>dbl. windows</th>
<th>vacuum</th>
<th>BF121-I</th>
<th>BF198</th>
<th>light fitting</th>
<th>BF190-T/F</th>
<th>BF195</th>
<th>prot. grid</th>
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</tbody>
</table>

*all tank sight glass fittings are available with quartz glass for temperatures > 300 °C  

* with graphite sealing up to 280 °C, with quartz glass more than 300 °C
**NORIS Strainers**

**Strainers DIN / ANSI**

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
<th>Pressure</th>
<th>Size</th>
<th>Materials</th>
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</thead>
<tbody>
<tr>
<td>BF 140</td>
<td>Y-type</td>
<td>PN 16 - PN 40</td>
<td>DN 15 - DN 250</td>
<td>GE-C 25, 1.4408, 1.4571</td>
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<tr>
<td>BF 141</td>
<td>Threaded connection</td>
<td>PN 16 - PN 40</td>
<td>G (BSP) 1/4&quot; - 2&quot;</td>
<td>Carbon steel, other materials on request</td>
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<tr>
<td>BF 150</td>
<td>Basket strainer</td>
<td>PN 6 - PN 40</td>
<td>DN 15 - DN 200</td>
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<tr>
<td>BF 155</td>
<td>Pot strainer</td>
<td>PN 6 - PN 40</td>
<td>DN 50 - DN 400</td>
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<td>BF 146</td>
<td>Flat sieve</td>
<td>PN 16 - PN 40</td>
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<td>BF 148</td>
<td>Hat sieve</td>
<td>PN 16 - PN 40</td>
<td>DN 15 - DN 400</td>
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</table>

**NORIS Accessories**

**Sight Glass Plates**

<table>
<thead>
<tr>
<th>Description</th>
<th>Soda-lime glass</th>
<th>Borosilicate Glass</th>
<th>Borosilicate, Long, Reflex</th>
<th>Borosilicate, Long, Transparent</th>
<th>META Glass</th>
<th>Quartz Glass</th>
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</thead>
<tbody>
<tr>
<td>Norm</td>
<td>DIN 8902</td>
<td>DIN 7080</td>
<td>DIN 7081</td>
<td>DIN 7081</td>
<td>DIN 7079</td>
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<tr>
<td>Temperature</td>
<td>up to 150 ° C</td>
<td>up to 280 ° C</td>
<td>up to 280 ° C</td>
<td>up to 280 ° C</td>
<td>up to 280 ° C</td>
<td>&gt; 300 ° C</td>
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</table>

**Gaskets**

<table>
<thead>
<tr>
<th>Description</th>
<th>Gasket, Round</th>
<th>Gasket, Long</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size</td>
<td>see data sheet</td>
<td>see data sheet</td>
</tr>
</tbody>
</table>

**Available Materials**

- Aramid fibre
- Graphite
- PTFE / GYLON® or similar
- Viton®
- Silicone
- EPDM
- Perbunan®
- Other materials available on request
We manufacture all fittings individual according to your specifications and wishes as a special design.

Feel free to contact our experts for further information.
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