## Visual Level Indicators (VLI)
### High Pressure - Power Series

<table>
<thead>
<tr>
<th>Series</th>
<th>Type</th>
<th>Material</th>
<th>Pipe O.D. x s (mm)</th>
<th>Operating Pressure</th>
<th>Operating Temperature</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>High Pressure - Power 80</td>
<td>36800-A</td>
<td>316/316L</td>
<td>57.0 x 2.9</td>
<td>max. 80bar@20° C</td>
<td>-10…400° C</td>
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<td>36800-B</td>
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<td>Float selection diagram for High Pressure - Power 80</td>
<td>7</td>
</tr>
<tr>
<td>High Pressure - Power 100</td>
<td>26411-A</td>
<td>316/316L</td>
<td>57.0 x 2.9</td>
<td>max. 100bar@20° C</td>
<td>-10…400° C</td>
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<td>Float selection diagram for High Pressure - Power 100</td>
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<tr>
<td>High Pressure - Power 150</td>
<td>25683-A</td>
<td>316/316L</td>
<td>60.33 x 3.91</td>
<td>max. 150bar@20° C</td>
<td>-10…400° C</td>
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<td>Float selection diagram for High Pressure - Power 150</td>
<td>19</td>
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<tr>
<td>High Pressure - Power 200</td>
<td>32806-A</td>
<td>316/316L</td>
<td>60.33 x 5.54</td>
<td>max. 200bar@20° C</td>
<td>-10…400° C</td>
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<td>High pressure VLI &gt;200bar</td>
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<td>Free form data sheet for VLI &gt;200bar</td>
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</table>
**High Pressure - Power 80**

**Design meets the requirements of PED 97/23/EC and harmonized standards**

### Purchase Order Data:
- **Company:**
- **Project:**
- **Purchase order no.:**
- **Quantity:**
- **Tag no.:**

### Operating Conditions

<table>
<thead>
<tr>
<th>Fluid</th>
<th>Density</th>
<th>Viscosity</th>
<th>Operating pressure</th>
<th>Design pressure</th>
<th>Design temperature</th>
<th>Operating temperature</th>
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<tbody>
<tr>
<td></td>
<td>≥ 0.65g/cm³</td>
<td>≤ 600cSt</td>
<td>max. 80bar(g) @ 20°C *1)</td>
<td>bar(g)</td>
<td>bar(g)</td>
<td>-10°C ... 400°C *1)</td>
</tr>
</tbody>
</table>

### Design and Materials:

- **Float chamber:** 316/316L
- **Float:** Ti-alloy
- **Bolts DIN 2510 L:** 21CrMoV57-DIN17240 (double end bolt with antifatigue shaft)
- **Hex nut DIN2510 NF:** 21CrMoV57-DIN17240
- **Option:** Bolts and nuts in A2-70 (AISI 304) for operating temp. -80°C … +300°C
- **Damping spring top and bottom, 1.4401**
- **Gaskets:**
  - Fibres compound Aramid/NBR (≤ 150°C)
  - Standard pure PTFE non reinforced (≤ 250°C)
  - Graphit incl. reinforcing net in ss 316/316L (≤ 400°C)

### Process connections:

- **DN15:** - buttweld ends acc. to ISO/EN; 21.3 x 2mm; h = 25mm
- **DN20:** - buttweld ends acc. to ISO/EN; 26.9 x 2mm; h = 25mm
- **DN25:** - buttweld ends acc. to ISO/EN; 33.7 x 2mm; h = 30mm
- **DN25:** - buttweld ends acc. to ANSI B 36.10; 21.34 x 2.77mm; h = 38mm
- **DN25:** - buttweld ends acc. to ANSI B 36.10; 26.67 x 2.67mm; h = 41.5mm
- **DN25:** - buttweld ends acc. to ANSI B 36.10; 33.40 x 3.38mm; h = 44.5mm
- **DN25:** - female thread acc. ISO7-1 resp.ISO 228-1, without plug Rp1/2" resp. G1/2":
- **DN25:** - female thread acc. ISO7-1 resp.ISO 228-1, without plug Rp3/4" resp. G3/4":
- **DN25:** - female thread acc. ISO7-1 resp.ISO 228-1, without plug Rp1" resp. G1":
- **DN25:** - female thread acc. ANSI, without plug NPT 1/2":
- **DN25:** - female thread acc. ANSI, without plug NPT 3/4":
- **DN25:** - female thread acc. ANSI, without plug NPT 1":

### Indication Rail:

- **Standard**
- **200**
- **150**
- **PC, IP65 (≤ 150°C)** Flaps: red-silver
- **PC, IP66, inert gas (≤ 150°C)** Flaps: red-silver
- **Al/PC, IP54 (≤ 250°C)** Flaps: black-silver
- **Al/glass, IP54 (≤ 400°C)** Flaps: black-silver
- **Special**

### Accessories:

**Fixation bracket no. 26936:**

- **Magnetic switch:**
- **Transmitter:** resolution [mm]:
- **Converter:**

**Further accessories:**

### Notes:

*1) Refer to pressure-temperature rating! Lowest pressure-temperature rating of any connecting flange or fitting will set the limitation! Test pressure will be specified according to WEKA specification AW 2.1.2.

All indicated dimensions in mm. All dimensions are only valid on VLI in standard execution.

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**DS_HighPressure_E_2009_09_07**

Subject to change without notice!

Revised 05.08.2009 Ct
High Pressure - Power 80

Type: 36800-B

Design meets the requirements of PED 97/23/EC and harmonized standards

Purchase Order Data:
Company:
Purchase order no.:
Quantity:
Tag no.:

Operating Conditions
Fluid:
Density: \( \geq 0.65 \text{g/cm}^3 \)
Viscosity: \( \leq 600 \text{cSt} \)
Operating pressure: max. 80bar(g) @ 20°C *1)
Design pressure: “
Operating temperature: -10°C ... 400°C *1)
Design temperature: “
Connecting Distance "L": max. 5800mm (one-piece design)

Design and Materials:
standard execution:
Float chamber: 316/316L
Float: Ti-alloy
type no.:
Bolts DIN 2510 L:
Hex nut DIN2510 NF:
Option: Bolts and nuts in A2-70 (AISI 304) for operating temp. -80°C … +300°C
Damping spring top and bottom, 1.4401

Gaskets:
fibres compound Aramid/NBR (\( \leq 150\)° C)
Standard pure PTFE non reinforced (\( \leq 250\)° C)
Graphit incl. reinforcing net in ss 316/316L (\( \leq 400\)° C)

Process connections:
- butt weld ends acc. to ISO/EN; 21.3 x 2 mm; h = 25 mm DN15:
- butt weld ends acc. to ISO/EN; 26.9 x 2 mm; h = 25 mm DN20:
- butt weld ends acc. to ISO/EN; 33.7 x 2 mm; h = 30 mm DN25:
- butt weld ends acc. to ANSI B.36.10; 21.34 x 2.77 mm; h = 38 mm 1/2" (Sch40):
- butt weld ends acc. to ANSI B.36.10; 26.67 x 2.87 mm; h = 41.5mm 3/4" (Sch40):
- butt weld ends acc. to ANSI B.36.10; 33.40 x 3.38 mm; h = 44.5mm 1" (Sch40):
- female thread acc. ISO7-1 resp.ISO 228-1, without plug Rp1/2" resp. G1/2":
- female thread acc. ISO7-1 resp.ISO 228-1, without plug Rp1" resp. G1":
- female thread acc. ANSI, without plug NPT 1/2":
- female thread acc. ANSI, without plug NPT 3/4":
- female thread acc. ANSI, without plug NPT 1":

Other Connections

Indication Rail:
PC, IP65 (\( \leq 150\)°C)
PC, IP68, inert gas (\( \leq 150\)°C)
Al/PC, IP54 (\( \leq 250\)°C)
Al/glass, IP54 (\( \leq 400\)°C)

Flaps: red-silver No.: 34837 standard
Flaps: red-silver No.: 41008 standard
Flaps: red-silver No.: 34560 standard
Flaps: black-silver No.: 37100 standard
Flaps: No.;

Fixation bracket no. 26936:
Magnetic switch:
Transmitter:
Converter:

Test reports and certificates:
EN10204:2004-3.1 certificate for used materials of the float chamber:

Notes:
*1) Refer to pressure-temperature rating! Lowest pressure-temperature rating of any connecting flange or fitting will set the limitation!
Test pressure will be specified according to WEKA specification AW 2.1.2.

All indicated dimensions in mm. All dimensions are only valid on VLI in standard execution.

Subject to change without notice!
High Pressure - Power 80  
Type: 36800-K

Design meets the requirements of PED 97/23/EC and harmonized standards

**Purchase Order Data:**

- **Company:**
- **Purchase order no.:**
- **Quantity:**
- **Tag no.:**

**Operating Conditions**

- **Fluid:**
  - Density: \( \geq 0.65 \text{g/cm}^3 \)
  - Viscosity: \( \leq 600 \text{cSt} \)
- **Operating pressure:** max. 80bar(g) @ 20°C *
- **Design pressure:**
- **Operating temperature:** -10°C ... 400°C *
- **Design temperature:**

**Connecting Distance "L":** max. 5600mm (one-piece design)

**Design and Materials:**

- **Float chamber:** 316/316L
- **Float:** Ti-alloy
- **Bolts DIN 2510 L:** 21CrMoV57-DIN17240 (double end bolt with antifatigue shaft)
- **Hex nut DIN2510 NF:** 21CrMoV57-DIN17240
- **Gaskets:**
  - Fibres compound Aramid/NBR (≤150°C)
  - Standard pure PTFE non reinforced (≤250°C)
  - Graphit incl. reinforcing net in ss 316/316L (≤400°C)
- **Process connections:**
  - **EN-Connecting Flanges acc. EN1092-1 (Standard):**
    - DN15:
    - DN20:
    - DN25:
- **ANSI/class600 (= ISO/PN100) - connecting flanges:**
  - ANSI 1/2" resp. ISO DN15:
  - ANSI 3/4" resp. ISO DN20:
  - ANSI 1" resp. ISO DN25:

**Indication Rail:**

- **PC, IP65 (≤150°C):** Flaps: red-silver No.: 34837
- **PC, IP68, inert gas (≤150°C):** Flaps: red-silver No.: 41008
- **AI/PC, IP54 (≤250°C):** Flaps: red-silver No.: 34560
- **AI/glass, IP54 (≤400°C):** Flaps: black-silver No.: 37100
- **Special:** Flaps: No.:

**Accessories**

- **Fixation bracket no. 26936:**
- **Transmitter:**
  - Resolution [mm]:
  - Measuring length [mm]:
- **Converter:**
- **Further accessories:**

**Test reports and certificates:**

- EN10204:2004-3.1 certificate for used materials of the float chamber:

**Special executions and notes:**

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**Notes:**

1) Refer to pressure-temperature rating! Lowest pressure-temperature rating of any connecting flange or fitting will set the limitation!
2) Test pressure will be specified according to WEKA specification AW 2.1.2.
3) Depending on size of connecting flanges.

All indicated dimensions in mm. All dimensions are only valid on VLI in standard execution.

Subject to change without notice!

Revised 05.08.2009 Ot
High Pressure - Power 80
Type: 36800-O
Design meets the requirements of PED 97/23/EC and harmonized standards

Purchase Order Data:
Company:
Purchase order no.:
Quantity:
Tag no.:

Operating Conditions
Fluid:
Density: \( \geq 0.65 \frac{g}{cm^3} \)
Viscosity: \( \leq 600 \frac{cSt}{g} \)
Operating pressure: max. 80bar(g) @ 20°C *1)
Design pressure: 
Operating temperature: -10°C ... 400°C *1)
Design temperature: 
Connecting Distance "L": max. 5600mm (one-piece design)

Design and Materials:
standard execution:
Float chamber: 316/316L
Float: Ti-alloy
Bolts DIN 2510 L:
21CrMoV57-DIN17240 (double end bolt with antifatigue shaft)
Hex nut DIN2510 NF:
21CrMoV57-DIN17240
Option: Bolts and nuts in A2-70 (AISI 304) for operating temp. -80°C … +300°C
Damping spring top and bottom, 1.4401
Gaskets:
fibres compound Aramid/NBR (\( \leq 150°C \))
Standard pure PTFE non reinforced (\( \leq 250°C \))
Graphit incl. reinforcing net in ss 316/316L (\( \leq 400°C \))

Process connections:
EN-Connecting Flanges acc. EN1092-1 (Standard):
- EN1092-1/11 B1/DNxx/PN100/316L
- wn-flange, RF, Rz=12,5 … 50µm, turning

ANSI/class600 (= ISO/PN100) - connecting flanges:
- ANSI/ASME B16.5 / ISO-DIS7005-1.2, type 11/B1
- wn-flanges, RF SF, Rz=12,5 … 50µm, turning

Other Connections

Notes:
*1) Refer to pressure-temperature rating! Lowest pressure-temperature rating of any connecting flange or fitting will set the limitation!
*2) Test pressure will be specified according to WEKA specification AW 2.1.2.
*3) Depending on size of connecting flanges.
All indicated dimensions in mm. All dimensions are only valid on VLI in standard execution.

Subject to change without notice!
Revised 05.08.2009 Ot
Pressure-temperature-rating for VLI High Pressure - Power 80, type 36800

Max. 80bar(g) @ 20°C, up to max. 400°C for VLI bypass float chamber in SS EN 1.4401, 1.4436 / 1.4404, 1.4435 resp. ANSI 316/316L

Note: Tolerated max pressure@specified temperature of the VLI is given either by the bypass tube or by the connection flanges --- Lower value sets the limitation! ---

EN 1092-1 PN100 flanges in SS 1.4404/1.4435
Note: EN flanges PN64 and PN100 up to DN40 have identical interface dimensions (acc. to EN1092-1)
--- Applied flanges are PN100! ---

ANSI class600 flanges, material group 2.2. Applied flanges are double certified 316/316L (acc. to ANSI/ASME B16.5 and also acc. to ISO 7005-1:1992 PN100)

Other flanges on request!
These data apply for an operating temperature of \( \leq 20^\circ C \).
For higher operating temperatures, please check the max. permissible float pressure on the respective data sheet.

Comments:
KS = ball float
Example: 34466-X = number of balls
Interior diameter of the float chamber = 51.2mm
For steam or condensate applications, please check the use of damping springs
Additional charge for densities < 0.55g/cm³ due to extended length of bottom float extension and ball float with more than 4 balls
Additional charge for densities < 0.65g/cm³ and > 1.50g/cm³ due to ball float and possibly extended length of bottom float extension
**High Pressure - Power 100**

Type: 26411-A

Design meets the requirements of PED 97/23/EC and harmonized standards

### Purchase Order Data:
- **Company:**
- **Project:**
- **Purchase order no.:**
- **Quantity:**
- **Tag no.:**

### Operating Conditions

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<th>Fluid</th>
<th>Density:</th>
<th>Viscosity:</th>
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<td>≥ 0.65g/cm³</td>
<td>≤ 600cSt</td>
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<tr>
<th>Operating pressure:</th>
<th>Design pressure:</th>
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</thead>
<tbody>
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<td>max. 100bar(g) @ 20°C *1)</td>
<td>bar(g):</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Operating temperature:</th>
<th>Design temperature:</th>
</tr>
</thead>
<tbody>
<tr>
<td>-10°C ... 400°C *1)</td>
<td>° C:</td>
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</table>

<table>
<thead>
<tr>
<th>Connecting Distance &quot;L&quot;:</th>
<th>max. 5800mm (one-piece design)</th>
</tr>
</thead>
</table>

### Design and Materials:

- **Float chamber:** 316/316L
- **Float:** Ti-alloy

**Bolts DIN 2510 L:**
- 21CrMoV57-DIN17240 (double end bolt with antifatigue shaft)

**Hex nut DIN2510 NF:**
- 21CrMoV57-DIN17240

**Option:**
- Bolts and nuts in A2-70 (AISI 304) for operating temp. -80°C … +300°C
- Damping spring top and bottom, 1.4401 No.: 27399

- **Gaskets:**
  - fibres compound Aramid/NBR (≤ 150°C)
  - Standard pure PTFE non reinforced (≤ 250°C)
  - Graphit incl. reinforcing net in ss 316/316L (≤ 400°C)

### Process connections:

- **- butt weld ends acc. to ISO/EN:**
  - 21.3 x 2mm; h = 25mm
  - 33.7 x 2mm; h = 30mm
  - 26.9 x 2mm; h = 25mm
  - ≥ 38mm
  - 41.5mm
  - 44.5mm
  - 41mm
  - 44.5mm
  - 45mm

- **- butt weld ends acc. to ANSI B.36.10:**
  - 21.34 x 2.77mm; h = 38mm
  - 26.67 x 2.87mm; h = 41.5mm
  - 33.40 x 3.38mm; h = 44.5mm
  - 3/4" (Sch40);
  - 1" (Sch40);
  - 1" (Sch40);
  - 3/4" (Sch40);
  - 1" (Sch40);

- **- female thread acc. ISO7-1 resp.ISO 228-1, without plug:**
  - Rp1/2" resp. G1/2";
  - Rp3/4" resp. G3/4";
  - Rp1" resp. G1";
  - Rp3/4" resp. G3/4";
  - Rp1" resp. G1";

- **- female thread acc. ANSI, without plug:**
  - NPT 1/2";
  - NPT 3/4";
  - NPT 1/2";
  - NPT 3/4";
  - NPT 1/2";

### Indication Rail:

- **PC, IP65 (≤ 150°C)**
- **PC, IP68, inert gas (≤ 150°C)**
- **Al/PC, IP54 (≤ 250°C)**
- **Al/glass, IP54 (≤ 400°C)**

**Special Flaps:**
- Flaps: red-silver
- Flaps: black-silver

**On request:**
- c1, c2 shorter or longer, depending on float!

### Other Connections:

- **Fixation bracket no. 26936:**
- **Magnetic switch:**
- **Transmitter:**
- **Converter:**

### Accessories (installation instructions see spec. no. 20010501)

- **Fixation bracket no. 26936:**
- **Transmitter:**
- **Converter:**

### Test reports and certificates:

- **EN10204:2004-3.1 certificate for used materials of the float chamber:**

### Special executions and notes:

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**Notes:**

*1) Refer to pressure-temperature rating! Lowest pressure-temperature rating of any connecting flange or fitting will set the limitation! Test pressure will be specified according to WEKA specification AW 2.1.2.

All indicated dimensions in mm. All dimensions are only valid on VLI in standard execution.

---

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Phone +41 43 833 43 43 - Fax +41 43 833 43 29
info@weka-ag.ch - www.weka-ag.ch
High Pressure - Power 100
Type: 26411-B

Design meets the requirements of PED 97/23/EC and harmonized standards.

Purchase Order Data:
Company: 
Purchase order no.: 
Quantity: 
Tag no.: 

Operating Conditions:
Fluid:
Density: $\geq 0.65 \text{g/cm}^3$
Viscosity: $\leq 600 \text{cSt}$
Operating pressure: max. 100 bar (g) @ 20°C *1)
Design pressure: 
Operating temperature: -10°C ... 400°C *1)
Design temperature: 

Connecting Distance “L”: max. 5800 mm (one-piece design)

Design and Materials:
Float chamber: 316/316L
Float: Ti-alloy
Bolts DIN 2510 L: 21CrMoV57-DIN17240 (double end bolt with antifatigue shaft)
Hex nut DIN2510 NF: 21CrMoV57-DIN17240
Option: Bolts and nuts in A2-70 (AISI 304) for operating temp. -80°C … +300°C
Damping spring top and bottom, 1.4401
Gaskets:
fibres compound Aramid/NBR ($\leq 150°C$)
Standard pure PTFE non reinforced ($\leq 250°C$)
Graphit incl. reinforcing net in ss 316/316L ($\leq 400°C$)

Process connections:
- butt weld ends acc. to ISO/EN; 21.3 x 2 mm; h = 25 mm
- butt weld ends acc. to ISO/EN; 26.9 x 2 mm; h = 25 mm
- butt weld ends acc. to ISO/EN; 33.7 x 2 mm; h = 30 mm
- butt weld ends acc. to ANSI B.36.10; 21.34 x 2.77 mm; h = 38 mm
- butt weld ends acc. to ANSI B.36.10; 26.67 x 2.87 mm; h = 41.5 mm
- butt weld ends acc. to ANSI B.36.10; 33.40 x 3.38 mm; h = 44.5 mm
- female thread acc. ISO/EN; Rp1/2" resp. G1/2" without plug
- female thread acc. ISO/EN; Rp3/4" resp. G3/4" without plug
- female thread acc. ISO/EN; Rp1" resp. G1" without plug
- female thread acc. ANSI, without plug
- female thread acc. ANSI, without plug
- female thread acc. ANSI, without plug
- female thread acc. ANSI, without plug

Indication Rail:
Standard 200 150
On request: c1, c2 shorter or longer, depending on float!

Other Connections:

Accecssories (installation instructions see spec. no. 20010501)
Fixation bracket no. 26936: 
Magnetic switch: 
Transmitter: resolution [mm]: 
Converter: type:

Further accessories:

Test reports and certificates:
EN10204:2004-3.1 certificate for used materials of the float chamber:

Special executions and notes:

Notes:
*1) Refer to pressure-temperature rating! Lowest pressure-temperature rating of any connecting flange or fitting will set the limitation!
Test pressure will be specified according to WEKA specification AW 2.1.2.

All indicated dimensions in mm. All dimensions are only valid on VLI in standard execution.

WEKA AG - Schürlistrasse 8 - CH-8344 Bäretswil
Phone +41 43 833 43 43 - Fax +41 43 833 43 29
info@weka-ag.ch - www.weka-ag.ch
High Pressure - Power 100
Type: 26411-K

Design meets the requirements of PED 97/23/EC and harmonized standards

Purchase Order Data:
Company: 
Project: 
Purchase order no.: 
Quantity: 
Tag no.: 

Operating Conditions
Fluid:
Density: ≥ 0.65 g/cm³
Viscosity: ≤ 600 cSt
Operating pressure: max. 100 bar (g) @ 20°C (*1)
Design pressure: " (g)
Operating temperature: -10°C ... 400°C (*1)
Design temperature: " (g)
Connecting Distance "L": max. 5600 mm (one-piece design)

Design and Materials:
Float chamber: 316/316L
Float: Ti-alloy
Bolts DIN 2510 L: 21CrMoV57-DIN17240 (double end bolt with antifatigue shaft)
Hex nut DIN2510 NF: 21CrMoV57-DIN17240
Option: Bolts and nuts in A2-70 (AISI 304) for operating temp. -80°C ... +300°C
Damping spring top and bottom, 1.4401 No.: 27399
Gaskets: fibres compound Aramid/NBR (≤ 150°C)
Standard pure PTFE non reinforced (≤ 250°C)
Graphit incl. reinforcing net in ss 316/316L (≤ 400°C)

Process connections:
EN-Connecting Flanges acc. EN1092-1 (Standard):
- EN1092-1/11 B1/DNxx/PN100/316L
- wn-flange, RF, Rz=12.5 ... 50 µm, turning

ANSI/class600 (= ISO/PN100) - connecting flanges:
- ANSI/ASME B16.5 / ISO-DIS7005-1.2, type 11/B1
- wn-flanges, RF SF, Rz=12.5 ... 50 µm, turning

Other Connections
Float extension lower / upper:
c1: 200
On request: c1, c2 shorter or longer, depending on float!

table - 0.65 g/cm³

Standard Flange Connections:
DIN/EN ANSI/ISO
Connection pieces, d*s:
DN15: 21.3*2.65 21.34*2.77
DN20: (26.9*2.65) 26.7*2.87
DN25: 33.7*3.25 33.40*3.38
DN32 (*2): 33.7*3.25 33.40*3.38
Dimension t:
DN15: 150 150
DN20: (150) 150
DN25: (150) 150
DN32 (*2): tba (*3)

Indication Rail:
PC, IP65 (≤ 150°C)
PC, IP68, inert gas (≤ 150°C)
Al/PC, IP54 (≤ 250°C)
Al/glass, IP54 (≤ 400°C)

Flaps: red-silver
No.: 34837
Flaps: red-silver
No.: 41008
Flaps: black-silver
No.: 37100

Fixation bracket no. 26936:

Fixation bracket no. 26936:

Dimension "A" [mm]:
Magnetic switch:
Transmitter:

5 / 10
Converter:

Further accessories:

Test reports and certificates:
EN10204:2004-3.1 certificate for used materials of the float chamber:

Special executions and notes:

Notes:
*1) Refer to pressure-temperature rating! Lowest pressure-temperature rating of any connecting flange or fitting will set the limitation!
*2) With special reduction flanges
*3) Depending on size of connecting flanges.

All indicated dimensions in mm. All dimensions are only valid on VLI in standard execution.

WEKA AG - Schürlistrasse 8 - CH-8344 Bäretswil
Phone +41 43 833 43 43 - Fax +41 43 833 43 29
info@weka-ag.ch - www.weka-ag.ch
High Pressure - Power 100  
Type: 26411-O

Design meets the requirements of PED 97/23/EC and harmonized standards

Purchase Order Data:
Company: 
Purchase order no.: 
Quantity: 
Tag no.: 

Operating Conditions
Fluid:
Density: ≥ 0.65 g/cm³
Viscosity: ≤ 600 cSt
Operating pressure: max. 100 bar (g) @ 20°C
Design pressure: 
Operating temperature: -10°C ... 400°C
Design temperature: 
Connecting Distance "L": max. 5600 mm (one-piece design)

Design and Materials:
Float chamber: 316/316L
Float: Ti-alloy
Bolts DIN 2510 L: 21CrMoV57-DIN17240 (double end bolt with antifatigue shaft)
Hex nut DIN2510 NF: 21CrMoV57-DIN17240

Gaskets:
- Fibres compound Aramid/NBR (≤ 150°C)
- Standard pure PTFE non reinforced (≤ 250°C)
- Graphit incl. reinforcing net in ss 316/316L (≤ 400°C)

Process connections:
- EN-Connecting Flanges acc. EN1092-1 (Standard):
  - DN15: 
  - DN20: 
  - DN25: 

- ANSI/class600 (= ISO/PN100) - connecting flanges:
  - ANSI 1/2" resp. ISO DN15:
  - ANSI 3/4" resp. ISO DN20:
  - ANSI 1" resp. ISO DN25:

Other Connections

Indication Rail:
- PC, IP65 (≤ 150°C)
- PC, IP68, inert gas (≤ 150°C)
- Al/PC, IP54 (≤ 250°C)
- Al/glass, IP54 (≤ 400°C)

Fixation bracket no. 26936:
- Dimension "A" [mm]:
  - DN15: 
  - DN20: 
  - DN25: 

Magnetic switch:
- Transmission type:
  - Transmitter: resolution [mm]: 5 / 10
  - Measuring length M₀ [mm]:

Further accessories:

Test reports and certificates:
- EN10204:2004-3.1 certificate for used materials of the float chamber:

Special executions and notes:

Notes:
1) Refer to pressure-temperature rating! Lowest pressure-temperature rating of any connecting flange or fitting will set the limitation!
2) Test pressure will be specified according to WEKA specification AW 2.1.2.
3) Depending on size of connecting flanges.

All indicated dimensions in mm. All dimensions are only valid on VLI in standard execution.

DS_HighPressure_E_2009_09_07
Subject to change without notice!
Revised 05.08.2009 Ot

WEKA AG - Schürlistrasse 8 - CH-8344 Bäretswil
Phone +41 43 833 43 43 - Fax +41 43 833 43 29
info@weka-ag.ch - www.weka-ag.ch
Pressure-temperature-rating for VLI High Pressure - Power 100, type 26411
Max. 100bar(g) @ 20°C, up to max. 400°C for VLI bypass float chamber in SS EN 1.4401, 1.4436 / 1.4404, 1.4435 resp. ANSI 316/316L

--- Lower value sets the limitation! ---

EN 1092-1 PN100 flanges in SS 1.4404/1.4435
Note:
EN flanges PN63 and PN100 up to DN40 have identical interface dimensions (acc. to EN1092-1)
--- Applied flanges are PN100! ---

Equal graph as VLI High-Pressure-Power PN100

ANSI class600 flanges, material group 2.2. Applied flanges are double certified 316/316L (acc. to ANSI/ASME B16.5 and also acc. to ISO 7005-1:1992 PN100)

Other flanges on request!
These data apply for an operating temperature of \( \leq 20^\circ C \).
For higher operating temperatures, please check the max. permissible float pressure on the respective data sheet.

Limit of application:
VLI @ 20°C
Observe P-T diagram!

Comments:
KS = ball float  
Example: 36815-X  = number of balls  
Material = Titan alloy

Density of the fluid [g/cm³]
High Pressure - Power 150  Type: 25683-A

Design meets the requirements of PED 97/23/EC and harmonized standards

Purchase Order Data:
Company: 
Purchase order no.: 
Quantity: 
Tag no.: 

Operating Conditions
Fluid:
Density: ≥ 0.65g/cm³
Viscosity: ≤ 6000cSt
Design pressure:
Operating pressure: max. 150bar(g) @ 20°C *1)
Design temperature:
Operating temperature: -10°C ... 400°C *1)

Connecting Distance "L": max. 5800mm (one-piece design)

Design and Materials:
standard execution:
Float chamber: 316/316L
Float: Ti-alloy

Process connections:
- butt weld ends acc. to ISO/EN; 21.3 x 2mm; h = 25mm
- butt weld ends acc. to ISO/EN; 26.9 x 2mm; h = 25mm
- butt weld ends acc. to ISO/EN; 33.7 x 2mm; h = 30mm
- butt weld ends acc. to ANSI B.36.10; 21.3 x 2.77mm; h = 38mm
- butt weld ends acc. to ANSI B.36.10; 26.6 x 2.87mm; h = 41.5mm
- butt weld ends acc. to ANSI B.36.10; 33.4 x 3.38mm; h = 44.5mm
- female thread acc. ISO7-1 resp.ISO 228-1, without plug Rp1/2" resp. G1/2"
- female thread acc. ISO7-1 resp.ISO 228-1, without plug Rp1" resp. G1"
- female thread acc. ANSI, without plug NPT 1/2"
- female thread acc. ANSI, without plug NPT 3/4"
- female thread acc. ANSI, without plug NPT 1"

Other Connections

Indication Rail:
PC, IP65 (≤ 150°C)
PC, IP68, inert gas (≤ 150°C)
Al/PC, IP54 (≤ 250°C)
Al/glass, IP54 (≤ 400°C)

Special

Accessories (installation instructions see spec. no. 20010501)
Fixation bracket no. 26936:
Magnetic switch:
Transmitter:
Converter:
Further accessories:

Test reports and certificates:
EN10204:2004-3.1 certificate for used materials of the float chamber:

Special executions and notes:

Notes:
*1) Refer to pressure-temperature rating! Lowest pressure-temperature rating of any connecting flange or fitting will set the limitation!
Test pressure will be specified according to WEKA specification AW 2.1.2.

All indicated dimensions in mm. All dimensions are only valid on VLI in standard execution.

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info@weka-ag.ch - www.weka-ag.ch

Subject to change without notice!
Revised 05.08.2009
High Pressure - Power 150

Type: 25683-B

Design meets the requirements of PED 97/23/EC and harmonized standards

Purchase Order Data:

- Company:
- Project:
- Purchase order no.:
- Quantity:
- Tag no.:

Operating Conditions

- Fluid:
  - Density: \( \geq 0.65 \text{ g/cm}^3 \)
  - Viscosity: \( \leq 600 \text{ cSt} \)
- Operating pressure: max. 150 bar (g) @ 20°C *1)
- Design pressure:
- Operating temperature: -10°C...400°C *1)
- Design temperature:
- Connecting Distance "L": max. 5800 mm (one-piece design)

Design and Materials:

- Float chamber: 316/316L
- Float: Ti-alloy
- Bolts DIN 2510 L: 21CrMoV57-DIN17240 (double end bolt with antifatigue shaft)
- Hex nut DIN 2510 NF: 21CrMoV57-DIN17240
- Gaskets: fibres compound Aramid/NBR (\( \leq 150°C \))
  - Standard pure PTFE non reinforced (\( \leq 250°C \))
  - Graphit incl. reinforcing net in ss 316/316L (\( \leq 400°C \))
- Float extension lower / upper:
  - c1:
  - c2:
- Indication Rail:
  - Standard 200 150
  - On request: c1, c2 shorter or longer, depending on float!

Process connections:

- butt weld ends acc. to ISO/EN: 21.3 x 2 mm; h = 25 mm
- butt weld ends acc. to ISO/EN: 26.9 x 2 mm; h = 25 mm
- butt weld ends acc. to ISO/EN: 33.7 x 2 mm; h = 30 mm
- butt weld ends acc. to ANSI B.36.10: 21.34 x 2.77 mm; h = 38 mm
- butt weld ends acc. to ANSI B.36.10: 26.67 x 2.87 mm; h = 41.5 mm
- butt weld ends acc. to ANSI B.36.10: 34.30 x 3.38 mm; h = 44.5 mm
- female thread acc. ISO7-1 resp. ISO 228-1, without plug Rp 1/2”
- female thread acc. ISO7-1 resp. ISO 228-1, without plug Rp 3/4”
- female thread acc. ISO7-1 resp. ISO 228-1, without plug Rp 1”
- female thread acc. ANSI, without plug NPT 1/2”
- female thread acc. ANSI, without plug NPT 3/4”
- female thread acc. ANSI, without plug NPT 1”

Other Connections

- Fixation bracket no. 26936:
- Magnetic switch:
  - quantity:
  - Transmitting: 5 / 10
  - Measuring length: [mm]:
- Converter:
- Further accessories:

Test reports and certificates:

- EN10204:2004-3.1 certificate for used materials of the float chamber:

Special executions and notes:

Notes:

*1) Refer to pressure-temperature rating! Lowest pressure-temperature rating of any connecting flange or fitting will set the limitation!
Test pressure will be specified according to WEKA specification AW 2.1.2.

All indicated dimensions in mm. All dimensions are only valid on VLI in standard execution.
High Pressure - Power 150  Type: 25683-K

Design meets the requirements of PED 97/23/EC and harmonized standards

Purchase Order Data:

Company: 

Purchase order no.: 

Quantity: 

Tag no.: 

Operating Conditions

Fluid:

Density: ≥ 0.65g/cm³

Viscosity: ≤ 600cSt

Operating pressure: max. 150bar(g) @ 20°C *1)

Design pressure: 

Operating temperature: -10°C ... 400°C *1)  

Design temperature: 

Connecting Distance "L": max. 5600mm (one-piece design) 

Design and Materials:

Float chamber: 316/316L

Float: Ti-alloy type no.: 

Bolts DIN 2510 L: 21CrMoV57-DIN17240 (double end bolt with antifatigue shaft) 

Hex nut DIN2510 NF: 21CrMoV57-DIN17240

Damping spring top and bottom, 1.4401 No.: 27399

Gaskets:

fibres compound Aramid/NBR (≤ 150°C) 

Standard pure PTFE non reinforced (≤ 250°C) 

Graphit incl. reinforcing stainless 316/316L (≤ 400°C)

Process connections:

EN-Connecting Flanges acc. EN1092-1 (Standard): 

- EN1092-1/11 B1/DNxx/PN160/316L 

- EN1092-1/11 B1/DNxx/PN160/316L

ANSI/class1500 (≤ ISO/PN260) - connecting flanges: ANSI 1/2" resp. ISO DN15 :


- ANSI 1" resp. ISO DN25 :

Other Connections

Indication Rail:

PC, IP65 (≤ 150°C) 

PC, IP68, inert gas (≤ 150°C) 

PC, IP54 (≤ 250°C)

AI/PC, IP54 (≤ 250°C) 

AI/glass, IP54 (≤ 400°C)

Special Flaps: 

PC, IP54 (≤ 250°C)

Fixation bracket no. 26936: dimension "A" [mm]: 

Magnetic switch: quantity: 

Transmitter: resolution [mm]: 

Conveyor: 

Further accessories:

Test reports and certificates:

EN10204:2004-3.1 certificate for used materials of the float chamber:

Special executions and notes:

Notes:

*1) Refer to pressure-temperature rating! Lowest pressure-temperature rating of any connecting flange or fitting will set the limitation!

Test pressure will be specified according to WEKA specification AW 2.1.2.

*2) With special reduction flanges.

*3) Depending on size of connecting flanges.

All indicated dimensions in mm. All dimensions are only valid on VLI in standard execution.
High Pressure - Power 150  Type: 25683-O

Design meets the requirements of PED 97/23/EC and harmonized standards

Purchase Order Data:

<table>
<thead>
<tr>
<th>Company:</th>
<th>Project:</th>
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<tbody>
<tr>
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<table>
<thead>
<tr>
<th>Quantity:</th>
<th>Tag no.:</th>
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<tbody>
<tr>
<td></td>
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Operating Conditions

<table>
<thead>
<tr>
<th>Fluid:</th>
<th>Density:</th>
<th>Viscosity:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>≥ 0.65g/cm³</td>
<td>≤ 600cSt</td>
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<table>
<thead>
<tr>
<th>Operating pressure:</th>
<th>Design pressure:</th>
</tr>
</thead>
<tbody>
<tr>
<td>max. 150bar(g) @ 20°C *1)</td>
<td></td>
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<tr>
<td>bar(g):</td>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>Operating temperature:</th>
<th>Design temperature:</th>
</tr>
</thead>
<tbody>
<tr>
<td>-10°C ... 400°C *1)</td>
<td></td>
</tr>
<tr>
<td>°C:</td>
<td>°C:</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Connecting Distance &quot;L&quot;:</th>
<th>max. 5600mm (one-piece design)</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Design and Materials:</th>
<th>standard execution:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Float chamber:</td>
<td>316/316L</td>
</tr>
<tr>
<td>Float:</td>
<td>Ti-alloy</td>
</tr>
<tr>
<td>Type no.:</td>
<td></td>
</tr>
<tr>
<td>Bolts DIN 2510 L:</td>
<td>21CrMoV57-DIN17240</td>
</tr>
<tr>
<td>Hex nut DIN2510 NF:</td>
<td>21CrMoV57-DIN17240</td>
</tr>
<tr>
<td>Option:</td>
<td>Bolts and nuts in A2.70 (AISI 304) for operating temp. -80°C ... +300°C</td>
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<td></td>
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<tr>
<td>Damping spring top and bottom, 1.4401 No.:</td>
<td>27399</td>
</tr>
</tbody>
</table>

Gaskets:

| fibres compound Aramid/NBR (≤ 150° C) |
| Standard |
| pure PTFE non reinforced (≤ 250° C)   |
| Graphit incl. reinforcing net in ss 316/316L (≤ 400° C) |

Process connections:

<table>
<thead>
<tr>
<th>EN-Connecting Flanges acc. EN1092-1 (Standard):</th>
</tr>
</thead>
<tbody>
<tr>
<td>- EN1092-1/11 B1/DNxx/PN160/316L</td>
</tr>
<tr>
<td>- wn-flange, RF, Rz=12,5 ... 50µm, turning</td>
</tr>
<tr>
<td>- ANSI/class1500 (= ISO/PN260) - connecting flanges:</td>
</tr>
<tr>
<td>- ANSI/ASME B16.5 / ISO-DIS7005-1.2, type 11/B1</td>
</tr>
<tr>
<td>- wn-flanges, RF SF, Rz=12,5 ... 50µm, turning</td>
</tr>
<tr>
<td>ANSI 1/2&quot; resp. ISO DN15 :</td>
</tr>
<tr>
<td>ANSI 3/4&quot; resp. ISO DN20 :</td>
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</table>

<table>
<thead>
<tr>
<th>Other Connections</th>
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</thead>
</table>

<table>
<thead>
<tr>
<th>Standard Flange Connections:</th>
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</thead>
<tbody>
<tr>
<td>DIN/EN ANSI/ISO</td>
</tr>
<tr>
<td>Connection pieces, d*s:</td>
</tr>
<tr>
<td>DN15: 21.3<em>2.65 21.34</em>2.77</td>
</tr>
<tr>
<td>DN20: 26.9<em>2.65 26.7</em>2.87</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Dimension t:</th>
</tr>
</thead>
<tbody>
<tr>
<td>DN15: 150 150</td>
</tr>
<tr>
<td>DN20: (150) 150</td>
</tr>
<tr>
<td>DN25: 150 150</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Indication Rail:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flaps: red-silver No.: 34837 Standard</td>
</tr>
<tr>
<td>Flaps: red-silver No.: 41008</td>
</tr>
<tr>
<td>Flaps: red-silver No.: 34560</td>
</tr>
<tr>
<td>Flaps: black-silver No.: 37100</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Accessories (installation instructions see spec. no. 20010501)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Magnetic switch: resolution [mm]: 5 / 10</td>
</tr>
<tr>
<td>Measuring length M [mm]:</td>
</tr>
<tr>
<td>Converter: type:</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Test reports and certificates:</th>
</tr>
</thead>
<tbody>
<tr>
<td>EN10204:2004-3.1 certificate for used materials of the float chamber:</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Special executions and notes:</th>
</tr>
</thead>
</table>

Notes:

*1) Refer to pressure-temperature rating! Lowest pressure-temperature rating of any connecting flange or fitting will set the limitation!

*2) With special reduction flanges.

*3) Depending on size of connecting flanges.

All indicated dimensions in mm. All dimensions are only valid on VLI in standard execution.
Pressure-temperature-rating for VLI High Pressure - Power 150, type 25683
Max. 150 bar(g) @ 20°C, up to max. 400°C for VLI bypass float chamber in SS EN 1.4401, 1.4436 / 1.4404, 1.4435 resp. ANSI 316/316L

Note: Tolerated max pressure@specified temperature of the VLI is given either by the bypass tube or by the connection flanges
--- Lower value sets the limitation! ---

EN 1092-1 PN160 flanges in SS 1.4404/1.4435 (acc. to EN1092-1:2008)
EN 1092-1 PN250 flanges in SS 1.4404/1.4435 (acc. to EN1092-1:2008)
ANSI class900 flanges, material group 2.2. Applied flanges are double certified 316/316L (acc. to ANSI/ASME B16.5 and also acc. to ISO 7005-1:1992 PN150)
Note:
Equal graph as VLI High-Pressure-Power PN150

ANSI class1500 flanges, material group 2.2. Applied flanges are double certified 316/316L (acc. to ANSI/ASME B16.5 and also acc. to ISO 7005-1:1992 PN260)

Other flanges on request!
These data apply for an operating temperature of \( \leq 20^\circ C \).
For higher operating temperatures, please check the max. permissible float pressure on the respective data sheet.

Comments:

KS = ball float
Example: 36815-X = number of balls
Interior diameter of the float chamber = 50mm
For steam or condensate applications, please check the use of damping springs
Additional charge for densities < 0.55g/cm\(^3\) due to extended length of bottom float extension and ball float with more than 4 balls
Additional charge for densities < 0.65g/cm\(^3\) and > 1.50g/cm\(^3\) due to ball float and possibly extended length of bottom float extension
High Pressure - Power 200

Type: 32806-A

Design meets the requirements of PED 97/23/EC and harmonized standards

Purchase Order Data:
Company:  
Purchase order no.:  
Quantity:  
Tag no.:  

Operating Conditions

Fluid:
Density: \( \geq 0.65 \text{g/cm}^3 \) 
Viscosity: \( \leq 600 \text{cSt} \) 
Design pressure:  
Operating pressure: max. 200 bar (g) @ 20°C *1) 
Operating temperature: -10°C ... 400°C *1) 
Design temperature:  
Connecting Distance "L": max. 5800 mm (one-piece design)

Design and Materials:

Float chamber: 316/316L
Float: Ti-alloy
Bolts DIN 2510: 21CrMoV57-DIN17240 (double end bolt with antifatigue shaft)
Hex nut DIN2510 NF: 21CrMoV57-DIN17240

Option: Bolts and nuts in A2-70 (AISI 304) for operating temp. -80°C … +300°C
Damping spring top and bottom, 1.4401
Gaskets: fibres compound Aramid/NBR (≤ 150°C)
Standard pure PTFE non reinforced (≤ 250°C)
Graphit incl. reinforcing net in ss 316/316L (≤ 400°C)

Process connections:
- butt weld ends acc. to ISO/EN; 21.3 x 2 mm; h = 25 mm
- butt weld ends acc. to ISO/EN; 26.9 x 2 mm; h = 25 mm
- butt weld ends acc. to ISO/EN; 33.7 x 2 mm; h = 30 mm
- butt weld ends acc. to ANSI B.36.10; 21.34 x 2.77 mm; h = 38 mm
- butt weld ends acc. to ANSI B.36.10; 26.67 x 2.87 mm; h = 41.5 mm
- butt weld ends acc. to ANSI B.36.10; 33.40 x 3.38 mm; h = 44.5 mm
- female thread acc. ISO7-1 resp.ISO 228-1, without plug Rp 1/2" resp. G 1/2" (Sch40)
- female thread acc. ISO7-1 resp.ISO 228-1, without plug Rp3/4" resp. G 3/4" (Sch40)
- female thread acc. ISO7-1 resp.ISO 228-1, without plug Rp1" resp. G 1" (Sch40)

Indication Rail:
PC, IP65 (≤ 150°C)
PC, IP68, inert gas (≤ 150°C)
A/PC, IP54 (≤ 250°C)
Al/glass, IP54 (≤ 400°C)
Special

Flaps: red-silver
Flaps: red-silver
Flaps: red-silver
Flaps: black-silver

Other Connections

Float extension lower / upper:
c1: 205  
c2: 155

Indication Rail:

Standard 205 155
On request: c1, c2 shorter or longer, depending on float!

Notations:
- \( *1) \) Refer to pressure-temperature rating! Lowest pressure-temperature rating of any connecting flange or fitting will set the limitation!
- Test pressure will be specified according to WEKA specification AW 2.1.2.

All indicated dimensions in mm. All dimensions are only valid on VLI in standard execution.

Notes:

* All data subject to change without notice!
* Revised 05.08.2009 Ot
* info@weka-ag.ch - www.weka-ag.ch
High Pressure - Power 200 Type: 32806-B

Design meets the requirements of PED 97/23/EC and harmonized standards

Purchase Order Data:
- Company:
- Project:
- Purchase order no.:
- Quantity:
- Tag no.:

Operating Conditions
- Fluid:
  - Density: \( \geq 0.65 \text{g/cm}^3 \)
- Viscosity: \( \leq 600 \text{cSt} \)
- Operating pressure: max. 200bar(g) @ 20°C (*1)
- Design pressure: 
- Operating temperature: -10°C ... 400°C (*1)
- Design temperature: 
- Connecting Distance "L": max. 5800mm (one-piece design)

Design and Materials:
- Standard execution:
  - Float chamber: 316/316L
  - Float: Ti-alloy
  - Bolts DIN 2510 L: 21CrMoV57-DIN17240 (double end bolt with antifatigue shaft)
  - Hex nut DIN2510 NF: 21CrMoV57-DIN17240
  - Option: Bolts and nuts in A2-70 (AISI 304) for operating temp. -80°C … +300°C
  - Damping spring top and bottom, 1.4401
  - Gaskets:
    - Fibres compound Aramid/NBR (≤ 150°C)
    - Standard pure PTFE non reinforced (≤ 250°C)
    - Graphit incl. reinforcing net in ss 316/316L (≤ 400°C)

Process connections:
- - butt weld ends acc. to ISO/EN; 21.3 x 2 mm; h = 25mm
- - butt weld ends acc. to ISO/EN; 26.9 x 2 mm; h = 25mm
- - butt weld ends acc. to ISO/EN; 33.7 x 2 mm; h = 30mm
- - butt weld ends acc. to ANSI B.36.10; 21.34 x 2.77 mm; h = 38mm
- - butt weld ends acc. to ANSI B.36.10; 26.67 x 2.87 mm; h = 41.5mm
- - butt weld ends acc. to ANSI B.36.10; 33.40 x 3.38 mm; h = 44.5mm
- - female thread acc. ISO7-1 resp.ISO 228-1, without plug Rp1/2" resp. G1/2"
- - female thread acc. ISO7-1 resp.ISO 228-1, without plug Rp1" resp. G1"
- - female thread acc. ANSI, without plug NPT 1/2"
- - female thread acc. ANSI, without plug NPT 3/4"
- - female thread acc. ANSI, without plug NPT 1"

Other Connections
- Float extension lower / upper: c1: c2:
- Standard 205 155
- On request: c1, c2 shorter or longer, depending on float!

Indication Rail:
- PC, IP65 (≤ 150°C)
- Flaps: red-silver
- No.: 34837
- Standard
- PC, IP68, inert gas (≤ 150°C)
- Flaps: red-silver
- No.: 41008
- PC/IPC, IP54 (≤ 250°C)
- Flaps: red-silver
- No.: 34560
- Flaps: black-silver
- No.: 37100
- Special Flaps: No.:

Accessories (installation instructions see spec. no. 20010501)
- Fixation bracket no. 26936: dimension "A" [mm]:
- Magnetic switch: quantity:
- Transmitter: resolution [mm]:
- Measuring length M_me [mm]:
- Converter: type:
- Further accessories:

Test reports and certificates:
- EN10204:2004-3.1 certificate for used materials of the float chamber:

Special executions and notes:
Design meets the requirements of PED 97/23/EC and harmonized standards.

**Purchase Order Data:**
- Company: 
- Project: 
- Purchase order no.: 
- Tag no.: 

**Operating Conditions**

<table>
<thead>
<tr>
<th>Fluid</th>
<th>Density: $\geq 0.65\text{g/cm}^3$</th>
<th>Viscosity: $\leq 600\text{cSt}$</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design pressure:</td>
<td>$\text{bar(g)}$</td>
<td>$\text{bar(g)}$</td>
</tr>
<tr>
<td>Operating temperature:</td>
<td>$-10^\circ\text{C} ... 400^\circ\text{C}$</td>
<td>$^\circ\text{C}$</td>
</tr>
<tr>
<td>Design temperature:</td>
<td>$\text{bar(g)}$</td>
<td>$^\circ\text{C}$</td>
</tr>
<tr>
<td>Connecting Distance &quot;L&quot;:</td>
<td>$\text{max. 5600mm (one-piece design)}$</td>
<td>$\text{mm}$</td>
</tr>
</tbody>
</table>

**Design and Materials:**

- **Float chamber:** 316/316L
- **Float:** Ti-alloy
- **Bolts DIN 2510 L:** 21CrMoV57-DIN17240 (double end bolt with antifatigue shaft)
- **Hex nut DIN2510 NF:** 21CrMoV57-DIN17240
- **Option:** Bolts and nuts in A2-70 (AISI 304) for operating temp. -80°C … +300°C
- **Damping spring top and bottom, 1.4401 No.:** 27399
- **Gaskets:**
  - fibres compound Aramid/NBR ($\leq 150^\circ\text{C}$)
  - Standard pure PTFE non reinforced ($\leq 250^\circ\text{C}$)
  - Graphit incl. reinforcing net in ss 316/316L ($\leq 400^\circ\text{C}$)

**Process connections:**

- **EN-Connecting Flanges acc. EN1092-1 (Standard):**
  - EN1092-1/11 B1/DNxx/PN250/316L
  - wn-flange, RF, Rz=12.5 … 50µm, turning
- **ANSI/class1500 (= ISO/PN260) - connecting flanges:**
  - ANSI 1/2" resp. ISO DN15 :
  - wn-flanges, RF SF, Rz=12.5 … 50µm, turning
- **DIN/EN ANSI/ISO**

**Other Connections**

- **Indication Rail:**
  - PC, IP65 ($\leq 150^\circ\text{C}$) Flaps: red-silver No.: 34837 Standard
  - PC, IP68, inert gas ($\leq 150^\circ\text{C}$) Flaps: red-silver No.: 41008
  - Al/IP, IP54 ($\leq 250^\circ\text{C}$) Flaps: red-silver No.: 34560
  - Al/glass, IP54 ($\leq 400^\circ\text{C}$) Flaps: black-silver No.: 37100

**Accessories**

- **Fixation bracket no. 26936:** dimension "A" [mm]:
  - Magnetic switch: quantity:
    - Transmitter: resolution [mm]:
      - Measuring length $M_m$ [mm]:
        - Converter: type:

**Test reports and certificates:**

- **EN10204:2004-3.1 certificate for used materials of the float chamber:**

**Special executions and notes:**

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**Notes:**

1) Refer to pressure-temperature rating! Lowest pressure-temperature rating of any connecting flange or fitting will set the limitation!
2) Test pressure will be specified according to WEKA specification AW 2.1.2.
3) Depending on size of connecting flanges.

All indicated dimensions in mm. All dimensions are only valid on VLI in standard execution.
High Pressure - Power 200 Type: 32806-O

Design meets the requirements of PED 97/23/EC and harmonized standards

Purchase Order Data:
Company:
Purchase order no.:
Quantity:
Tag no.:

Operating Conditions
Fluid:
Density: \( \geq 0.65 \text{ g/cm}^3 \)
Viscosity: \( \leq 600 \text{ cSt} \)
Operating pressure: \( \text{max. 200 bar (g) @ 20°C} \)
Design pressure: 
Operating temperature: \( -10°C ... 400°C \)
Design temperature: 
Connecting Distance "L": \( \text{max. 5600 mm (one-piece design)} \)

Design and Materials:
Float chamber: 316/316L
Float: Ti-alloy
Bolts DIN 2510 L: 21CrMoV57-DIN17240 (double end bolt with antifatigue shaft)
Hex nut DIN2510 NF: 21CrMoV57-DIN17240
Option: Bolts and nuts in A2-70 (AISI 304) for operating temp. -80°C ... +300°C
Damping spring top and bottom, 1.4401
Gaskets: fibres compound Aramid/NBR (\( \leq 150°C \)), Standard pure PTFE non reinforced (\( \leq 250°C \)), Graphit incl. reinforcing net in ss 316/316L (\( \leq 400°C \))

Process connections:
EN-Connecting Flanges acc. EN1092-1 (Standard):
- EN1092-1/11 B1/DNxx/PN250/316L
- wn-flange, RF, Rz=12,5 ... 50µm, turning
ANSI/class1500 (= ISO/PN260) - connecting flanges:
- ANSI 1/2” resp. ISO DN15:
- ANSI 3/4” resp. ISO DN20:
- wn-flanges, RF SF, Rz=12.5 ... 50µm, turning

Other Connections
Floating extension lower / upper:
c1: standard 205, on request: c1, c2 shorter or longer, depending on float!
c2: 155
Indication Rail:
PC, IP65 (\( \leq 150°C \)) Flaps: red-silver No. : 34837 Standard
PC, IP68, inert gas (\( \leq 150°C \)) Flaps: red-silver No.: 41068
Al/IP, IP54 (\( \leq 250°C \)) Flaps: red-silver No.: 34560
Al/glass, IP54 (\( \leq 400°C \)) Flaps: black-silver No.: 37100

Test reports and certificates:
EN10204:2004-3.1 certificate for used materials of the float chamber:

Special executions and notes:

Notes:
*1) Refer to pressure-temperature rating! Lowest pressure-temperature rating of any connecting flange or fitting will set the limitation!
*2) With special reduction flanges.
*3) Depending on size of connecting flanges.

All indicated dimensions in mm. All dimensions are only valid on VLI in standard execution.
Pressure-temperature-rating for VLI High Pressure - Power 200, type 32806

Max. 200bar(g) @ 20°C, up to max. 400°C for VLI bypass float chamber in SS EN 1.4401, 1.4436 / 1.4404, 1.4435 resp. ANSI 316/316L

Note: Tolerated max pressure@specified temperature of the VLI is given either by the bypass tube or by the connection flanges — Lower value sets the limitation! —

- EN 1092-1 PN250 flanges in SS 1.4404/1.4435 (acc. to EN1092-1:2008)
- ANSI class1500 flanges, material group 2.2, Applied flanges are double certified 316/316L (acc. to ANSI/ASME B16.5 and also acc. to ISO 7005-1:1992 PN260)

Other flanges on request!
These data apply for an operating temperature of \( \leq 20^\circ \text{C} \).
For higher operating temperatures, please check the max. permissible float pressure on the respective data sheet.

**Density of the fluid [g/cm\(^3\)]**

**KS = ball float**
**Example: 36815-X = number of balls**
**Material = Titan alloy**

Interior diameter of the float chamber = 50mm

For steam or condensate applications, please check the use of damping springs

Additional charge for densities < 0.55g/cm\(^3\) due to extended length of bottom float extension and ball float with more than 4 balls

Additional charge for densities < 0.65g/cm\(^3\) and > 1.50g/cm\(^3\) due to ball float and possibly extended length of bottom float extension
WEKA has also manufactured magnetic level indicators (VLI) in the pressure classes > 200bar for many years. During this time, we have accumulated the specific and extensive expertise which is necessary for the design and manufacturing of high-pressure magnetic level indicators. This knowledge and skill is demonstrated by the several hundred devices which are in effective use every day, in a wide variety of countries and under very different service conditions.

General standardisation for high pressure applications is exceptionally difficult due to the great variety of demands on high-pressure Visual Level Indicators.

Demands could include:
- Excessive temperature and pressure conditions.
- Special mounting onto vessel or tank could be complex with fittings, flanges or specially designed high-pressure coupling clamps.
- Local rules for pressure vessels and special regulations may influence the type of design and manufacturing.
- Extreme environmental conditions, e.g. on offshore rigs or oil production platforms, for hydraulic forging presses, large steam boilers, etc.
- Exotic materials for chamber and float due to high corrosive and dangerous liquids.

For preparation of an accurate offer explicit details and data must be provided as well as all relevant information described above.

Some applications may be designed according to the sketches below:

**Design with clamp service connection**
- for high temperature applications, e.g. steam
- metal sealing
- low weight in comparison to flanged connections
- reduced requirements of bolting as pressure bearing parts
- radial bolting allows 360° orientation of clamp
- quick and easy assembly and disassembly

**Weka design with threaded service connection**
- for low temperature applications, e.g. hydraulic or hydrostatic
- O-ring sealing
- low weight in comparison to flanged connections
- no bolting required
- slim design
- quick and easy assembly and disassembly
Free form data sheet for VLI >200bar

Design meets the requirements of PED 97/23/EC and harmonized standards

Purchase Order Data:
Company: 
Purchase order no.: 
Quantity: 
Tag no.: 

Operating Conditions
Fluid:
Density: 
Viscosity: 
Operating pressure: 
Design pressure: 
Operating temperature: 
Design temperature: 
Connecting distance "L": 
Measuring length "M": 
Lower float extension "C1": 
Upper float extension "C2": 

Design and Materials:
Float chamber: 
Float: 
Bolting: 
Damping spring top and bottom, 1.4401 
Gaskets: 
fibres compound Aramid/NBR (≤ 150°C) 
Standard 
pure PTFE non reinforced (≤ 250°C) 
Graphit incl. reinforcing net in ss 316/316L (≤ 400°C) 

Process connections:

Indication Rail:
PC, IP65 (≤ 150°C) Flaps: red-silver No.: 34837 
PC, IP68, inert gas (≤ 150°C) Flaps: red-silver No.: 41008 
Al/PC, IP54 (≤ 250°C) Flaps: red-silver No.: 34560 
Al/glass, IP54 (≤ 400°C) Flaps: black-silver No.: 37100 Special Flaps: No.: 

Accessories (installation instructions see spec. no. 20010501)
Fixation bracket no. 26936: dimension "A" [mm]: 
Magnetic switch: quantity: type: 
Transmitter: resolution [mm]: measuring length Mm [mm]: 
Converter: type: 
Further accessories: 

Test reports and certificates:
EN10204:2004-3.1 certificate for used materials of the float chamber: 

Special executions and notes:

Notes:
Refer to pressure-temperature rating! Lowest pressure-temperature rating of any connecting flange or fitting will set the limitation!
Test pressure will be specified according to WEKA specification AW 2.1.2.

All indicated dimensions in mm. All dimensions are only valid on VLI in standard execution.