



# WEKA Stainless Steel Needle Valves



Certified according  
ISO 9001:2000



Certified according  
PED 97/23/EC



Certified according  
ATEX 94/9/EC

Member of the **ARCA FLOW** Group



## Stainless Steel Needle Valves: high reliability thanks to high quality

WEKA Stainless Steel Valves are based on know-how meticulously acquired over years of development and manufacturing of critical stainless steel components for industry and science. WEKA constantly works with customers to develop new solutions for special applications and process requirements. Our technological strength is the result from our wide experience for applications in specialised fields.

WEKA Stainless Steel Valves are widely used in chemical process industries, hydraulic power equipment, thermal power plants, petrochemical industries, cryogenic processes for liquid air separation as well as in cryogenic high pressure gas purification.

WEKA Stainless Steel Valves are the preferred choice for applications involving temperatures extremes (down to  $-250\text{ }^{\circ}\text{C}$ , up to  $+240\text{ }^{\circ}\text{C}$  or higher) and high pressures (up to 700 bar).

- **Completely manufactured with stainless steel**
- **Easy fine-tuning also under extreme pressure**
- **Adjusted flow rate remains constant at all times**
- **No jamming of the spindle thread possible**
- **Adjustable sealing**
- **Always pressure and air tight with pivotable conical seat plug**
- **Free choice of connection type**

### 1 Choice of process connections:

- butt weld end
- female thread ISO 7-1 or ISO 228-1 (cylindrical), NPT ANSI B1.20.1 (conical)
- male thread ISO 7-1 (conical), ISO 228-1 (cylindrical), NPT ANSI B1.20.1 (conical)

### 2 Spindle sealing with PTFE roof-collar seals and graphite box-packing for high temperature operation. Bellows-sealed valves also included in the standard product range

### 3 Execution with bellows-sealing for clean gases or cryogenic liquids

### 4 Pivoting conical seat plug and seat (both metallic) ensure leak-tight shut-off

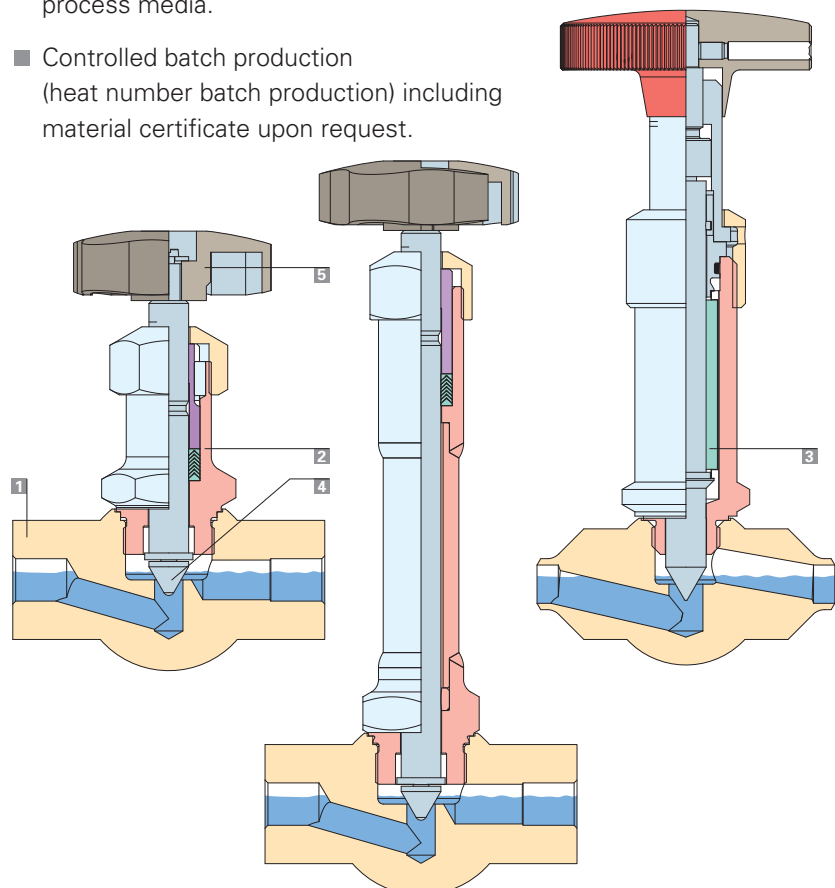
### 5 Hand wheels ergonomically designed for Operator comfort. Thermoset polymer, or aluminium/stainless steel for high temperature applications

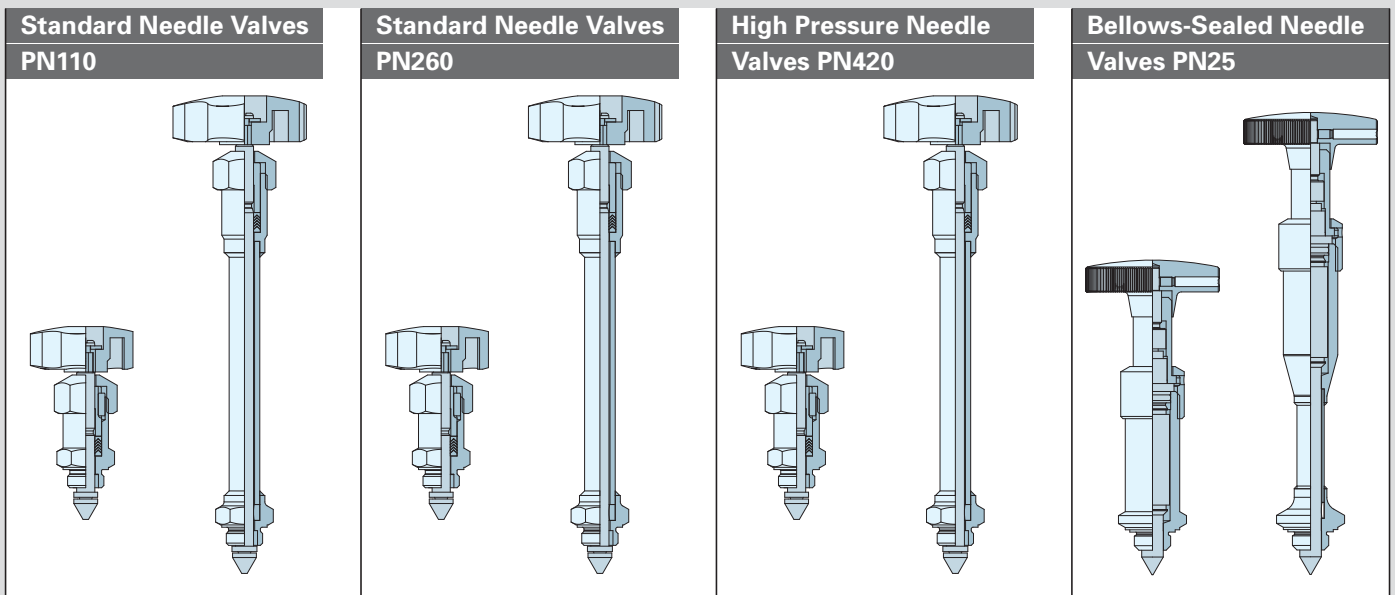
### ■ All parts with media contact made of stainless steel (316&316L)

### ■ Supplied completely oil- and grease-free (per ISO 21010): suitable for oxygen duty

### ■ Low maintenance design of manual drive. Spindle thread isolated from process media.

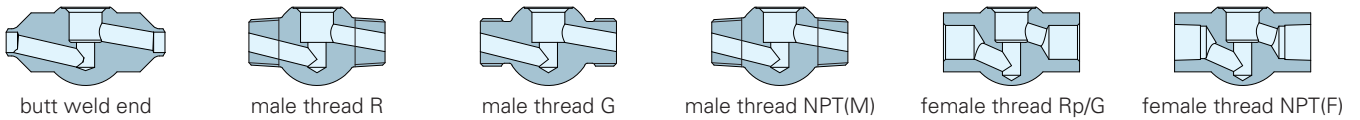
### ■ Controlled batch production (heat number batch production) including material certificate upon request.





**Operating temperature** from -60 °C up to +240 °C resp. from -250 °C up to +240 °C with stem extension

**Process connections**



**Pipe diameter** DN4 to DN15

<b>Nominal pressure</b> up to 110 bar	<b>Nominal pressure</b> up to 260 bar	<b>Nominal pressure</b> up to 420 bar	<b>Nominal pressure</b> up to 25 bar
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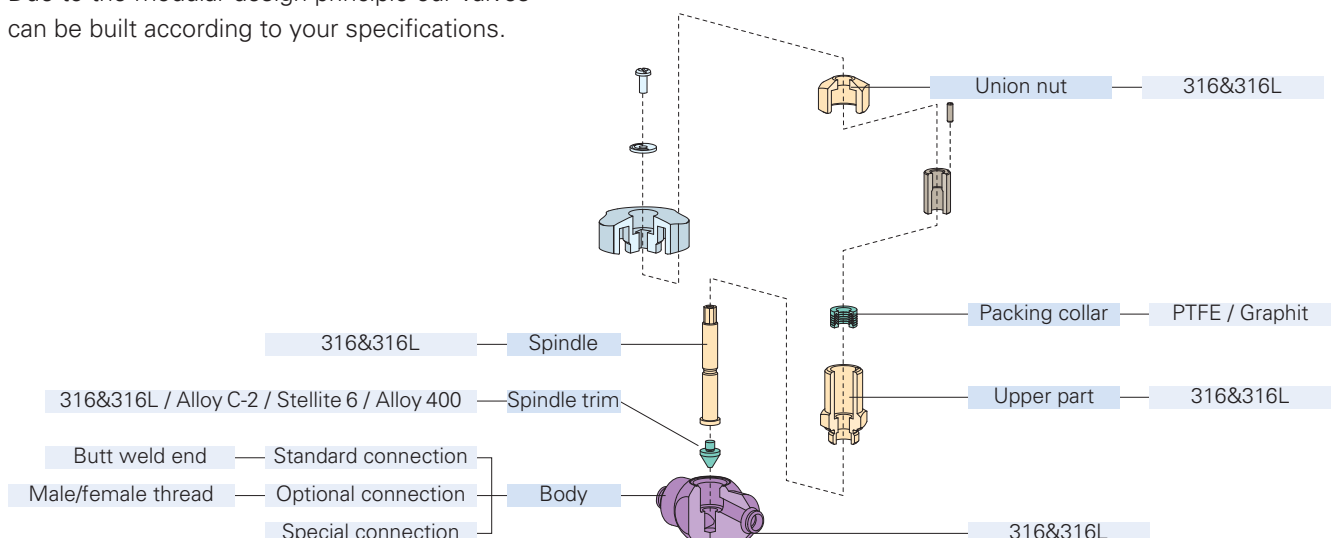
<p>These standard needle valves are suitable for a wide field of applications. The use of valves with stem extension is recommended for low temperatures down to -250 °C (e. g. for use with liquefied gases such as H<sub>2</sub>, N<sub>2</sub>, Ar, O<sub>2</sub> etc.).</p>	<p>Upon special request we manufacture valves with operating pressure ratings up to 700 bar.</p>	<p>Higher pressure is possible with special bellows-sealing.</p>
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**Materials**

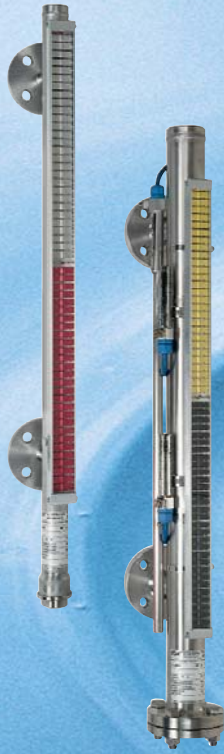
Standard: A4 stainless steel, particularly Type Nr. 1.4401 & 1.4404 (X5CrNiMo17-12-2 & X2CrNiMo17-12-2) or 316&316L.  
 Optional: stainless steel, e. g. No. 1.4435 or 1.4571 (316Ti) or 1.4541 (321), 1.4301&1.4307 (304&304L) and high grade corrosion-resistant stainless steel e. g. No. 1.4539 (X1NiCrMoCu25-20-5) 904L or 254 SMO.  
 Custom-built: Titanium (pure titanium or Titanium alloy), Hastelloy® (Types C-22/C276; B-2), Monel®, Inconel® or Incoloy®.

**Modular design principle**

Due to the modular design principle our valves can be built according to your specifications.



Visual Level Indicators



Tank Level Instruments



Visual Level Indicators

Tank Level Instruments

Cryogenic Components

Stainless Steel Valves

MicroFlow Valves

Cryogenic Components



Stainless Steel Valves



MicroFlow Valves



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