

LIV NEEDLE VALVE

SERIES 2L
With 2 valves



Principle

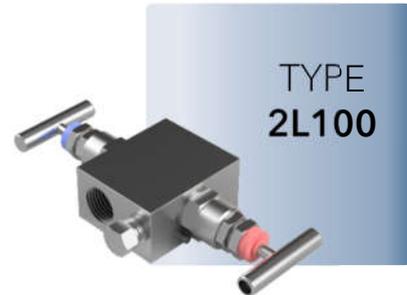
LIV Needle Valve has 2 valves for isolating and vent/drain.

Construction

- The valve body is machined from a square or rectangular bar stock material.
- The raw material of the valve can be supplied according to NORSOK M 630 or to customer's specific requirements.
- The valve spindle thread is external to stuffing box.
- The valve has back seating and non-rotating valve tip
- The dust cover is coloured for application indication (blue isolate, red vent)
- The valves are designed for PED 2014/68/EC.

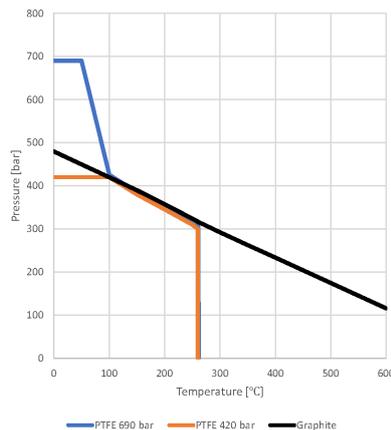
Technical Data

Material	AISI 316 (standard), 22Cr Duplex, 25Cr Duplex, Other materials on request
Size	1/4" - 1/2".
Connection	NPT (standard), BSPP tread int. or ext., Socket Weld
Packing	PTFE, Graphite
Pressure rating	6000 psi (420 bar), 10000 psi (690 bar)
Temperature	±100 to +260 °C PTFE, ±50 to +500 °C graphite.
Operation	T-bar, Anti tamper, Anti tamper lockable
Valve tip	Hardened
Types	See next pages

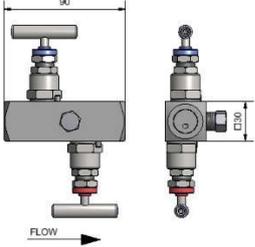
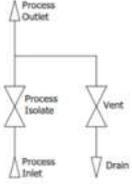
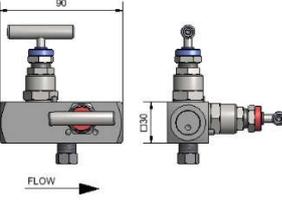
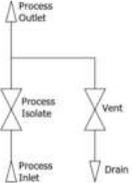
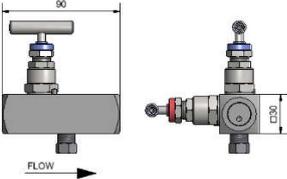
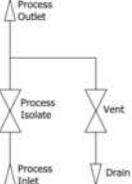
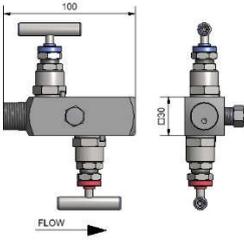
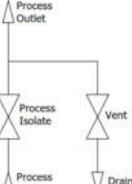
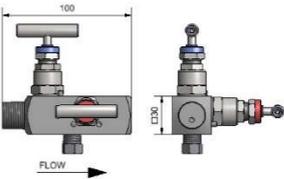
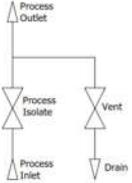


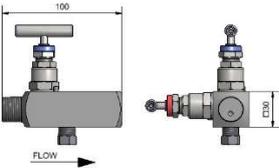
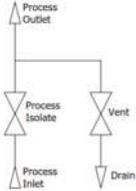
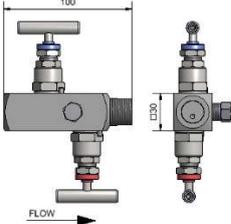
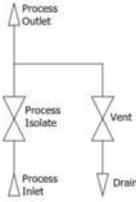
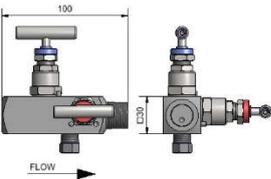
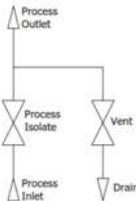
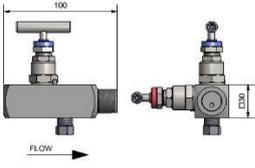
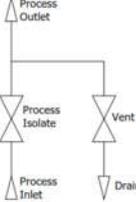
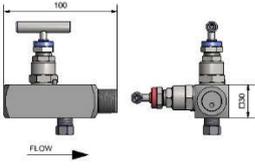
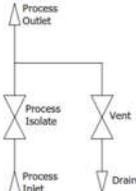
Testing and Documentation

- Material certificate to EN 10204-3.1
- Certificate of compliance to NACE MR 01-75 or EN 15156
- Optional: cleaned for oxygen and hydrogen
- Pressure test certificate

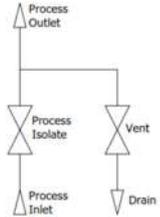
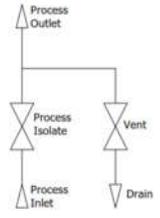
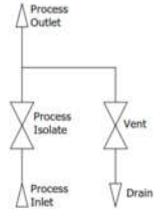
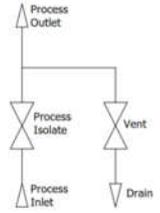


Types

<p>2L000 Internal thread in-or outlet or socket weld ends. Angle between valves 180°.</p>			<p>FLOW DIAGRAM</p> 
<p>2L001 Internal thread in-or outlet or socket weld ends. Angle between valves 90°. Vent valve on right hand side.</p>			<p>FLOW DIAGRAM</p> 
<p>2L002 Internal thread in-or outlet or socket weld ends. Angle between valves 90°. Vent valve on left hand side.</p>			<p>FLOW DIAGRAM</p> 
<p>2L010 External thread inlet. Internal thread outlet Isolate and vent valve: top and bottom.</p>			<p>FLOW DIAGRAM</p> 
<p>2L011 External thread inlet. Internal thread outlet. Angle between valves 90°. Vent valve on right hand side.</p>			<p>FLOW DIAGRAM</p> 

<p>2L012 External thread inlet. Internal thread outlet. Isolate valve: side Angle between valves 90°. Vent valve on left hand side.</p>			<p>FLOW DIAGRAM</p> 
<p>2L020 Internal thread or socket weld end inlet. External thread outlet. Angle between valves 180°.</p>			<p>FLOW DIAGRAM</p> 
<p>2L021 Internal thread or socket weld end inlet. External thread outlet. Angle between valves 90°. Vent valve on right hand side.</p>			<p>FLOW DIAGRAM</p> 
<p>2L022 Internal thread or socket weld end inlet. External thread outlet. Angle between valves 90°. Vent valve on left hand side.</p>			<p>FLOW DIAGRAM</p> 
<p>2L100 Vertical mounting Internal thread in- and outlet. Isolate valve: top Vent valve: bottom</p>			<p>FLOW DIAGRAM</p> 



<p>2L110 Horizontal mounting Internal thread in- and outlet. Isolate and vent valve: top.</p>			<p>FLOW DIAGRAM</p> 
<p>2L112 Vertical mounting Internal thread in- and outlet. Isolate valve: top Vent valve: side</p>			<p>FLOW DIAGRAM</p> 
<p>2L113 Vertical mounting Internal thread in- and outlet. Isolate valve: side Vent valve: side Wall mounting</p>			<p>FLOW DIAGRAM</p> 
<p>2L200 Vertical mounting Internal thread in- and outlet. Isolate valve: top Vent valve: side Inlet: bottom</p>			<p>FLOW DIAGRAM</p> 



HOW TO ORDER

Choose a code for each of the configuration steps. For special orders, please reach out to our sales team.

1 VALVE TYPE					
2L000	-	2L012	-	2L110	-
2L001	-	2L020	-	2L112	-
2L002	-	2L021	-	2L113	-
2L010	-	2L022	-	2L200	-
2L011	-	2L100	-		
2 VALVE SIZE		3 VALVE CONNECTION			
1	¼"	A	NPT		
2	3/8"	B	BSPP (G)		
3	½"	C	Socket Weld		
4 MATERIAL					
	<i>Body material</i>	<i>Trim material</i>			
01	A350 LF2	AISI 316			
02	A479 316	AISI 316			
04	A479 22Cr. Duplex	22Cr. Duplex			
06	A479 25Cr. Duplex	25Cr. Duplex			
08	A479 6Mo	6Mo			
12	Titanium	Titanium			
13	Monel 400	Monel 400			
14	Hastelloy C-276	Hastelloy C-276			
7 VALVE OPERATION		6 PRESSURE RATING		5 SEALS	
01	2 x T-bar	06	6000 psi	T	PTFE solid
02	1 x T-bar, 1 x Anti tamper	10	10000 psi	G	Graphite
03	2 x Anti tamper				
04	1 x T-bar, 1 x Anti tamper				
05	2 x Anti tamper lockable				

Example: Type 2L000.3A.02T0601

Needle valve, isolate and vent, ½" NPT, AISI 316, PTFE, 6000 psi, 2 x T-bar