

28 SUPERLOK

High Pressure Bar Stock Needle Valves



High Pressure Bar Stock Needle Valves

SHBNV Series

Features

- Bar stock body
- Compact design
- Low operating torques
- Variety of End Connections
- Straight and Angle flow patterns
- Each and every valve is tested at the factory

Specifications



Maximum Working Pressure rating	10000psig (689bar) @100°F(38°C)
Temperature rating	-65 to 450°F (-54 to 232 °C) with PTFE packing
Body material	316 stainless steel, Carbon steel
Orifice	0.197 in. (5.0mm)

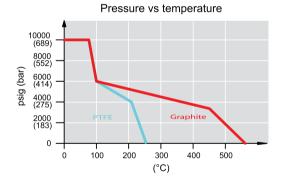
Testing

2

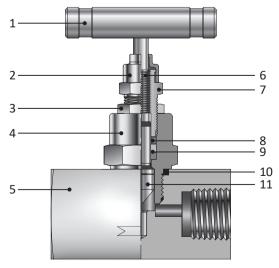
- Each Valve is tested with nitrogen at 1000psig(69bar) to maximum allowable leak rate of 0.1 SCCM.
- Hydrostatic shell test is porformed at 1.5 times of the working pressure. (OPTION)

Technical Data

Body Material	Stainless Steel	Carbon Steel				
Temperature Rating	-65 °F ~ 450 °F (-54 °C ~ 232 °C)	-20 °F ~ 350 °F (-29 °C ~ 176 °C)				
Pressure Rating @ 100 °F	10000 psig (689bar)	10000 psig (689bar)				
Pressure Rating @ Max Temperature	4000 psig @ 500 °F 276 bar @ 260 °C	5230 psig @ 350 °F 360 bar @ 176 °C				



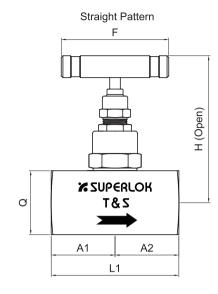
Materials of Construction



No	No. Component	Material Grade / ASTM Specification							
No.	Component	Stainless Steel	Carbon Steel						
1	Bar Handle	Stainless Steel							
2	Dust Cap	Nylon							
3	Lock Nut	Stainless Steel							
*4	Bonnet	SS316 / A479	A105						
*5	Body	SS316 / A479	A105						
*6	Stem	SS316 / A479							
7	Packing Bolt	SS316 / A276							
8	Packing Gland	SS316 / A276							
*9	Packing	PTFE, Graphite							
10	Bonnet Seal	PTFE, Graphite							
*11	Vee Tip	SS630 / A564							

* Wetted components

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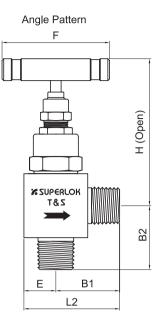


Table of Dimensions

Part No.		Orifice Cv	<u>Cu</u>	End Connections		Dimensions									
			LV	Inlet	Outlet	L1	A1	A2	Q	L2	B1	B2	Е	F	Н
SHBNV	F4N		4.0 0.52	1/4 Female NPT		60.4	30.2	30.2							
	M4N-F4N			1/4 Male NPT	1/4 Female NPT	60.4	30.2	30.2							
	F6N	60		3/8 Female NPT		61.0	30.5	30.5	22.0	F1 0	25.0	25.0	10.0	64.0	05.5
	M6N-F6N	4.0		3/8 Male NPT	3/8 Female NPT	61.0	30.5	30.5	32.0	51.0	35.0	35.0	16.0	64.0	85.5
	F8N			1/2 Female NPT		68.0	34.0	34.0							
	M8N-F8N			1/2 Male NPT	1/2 Female NPT	68.0	34.0	34.0							

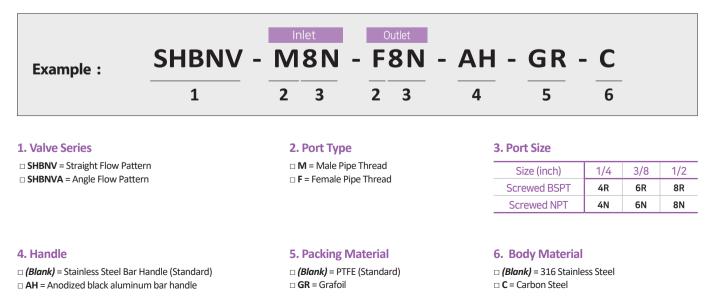
- Dimensions and Drawings are for reference only and are subject to change without prior notice.

- Unless otherwise specified, all dimensions are in millimeters.

- Sizes, pressure classes, and end connections not listed are available upon request.

- Dimensions shown with SUPERLOK nuts finger-tight, where applicable.

Ordering Information



% For special sizes and configurations, please consult BMT (SUPERLOK) sales representative.