



Cost Effective and Reliable Source For Instrumentation Needle Valves For High Pressure Applications

SERIES - BS99



www.sealexcel.com

*Advanced Technology in design, development and production of world class quality Fittings and Valves for Instrumentation, Process Tubing etc. ensure
A TOTAL CUSTOMER SATISFACTIONS*



SEALEXCEL (INDIA) PVT. LTD. A fast growing manufacturing company having over 25 years of experience and expertise with advanced technology in Design, Development and Manufacturing World Class consistent and reliable quality Tube Fittings and Valves used in Fluid/Gas Control System in Industries like Automobile, Chemicals, Petrochemicals, Oil & Gas, Marine, Food, Biotechnology, Pharmaceutical, Packaging and Printing Industries etc.

We have two well-equipped modern manufacturing plant including in-house product performance testing facilities to check and verify the maximum safety and consistent reliable performance under adverse, harsh, stressful environments like vibrations, high pressure, deep vacuum and thermal shock etc.

RESEARCH & DEVELOPMENT

By continuous Research & Development with advanced technology and high tech cutting edge machineries. SEALEXCEL produce best quality products for its customers.

QUALITY

SEALEXCEL's total quality system and control from incoming raw material inspection through ongoing quality assurance during production, final inspection, assembly, testing, packing and dispatch ensure high standard quality products which has earned us various quality certifications such as

- ISO 9001:2015
- PED 2014/68/EU
- ATEX
- OHSAS 18001 (Safety)
- ISO 14001 (Environment)

SEALEXCEL products are validated by type testing in accordance with

- ASTM F 1387-99(2012)
- ECE R110, ISO 15500
- BS4368:4:1984
- MSS SP-99-2010
- Helium Leak Test
- ARAI Test Report

CUSTOMER SATISFACTION

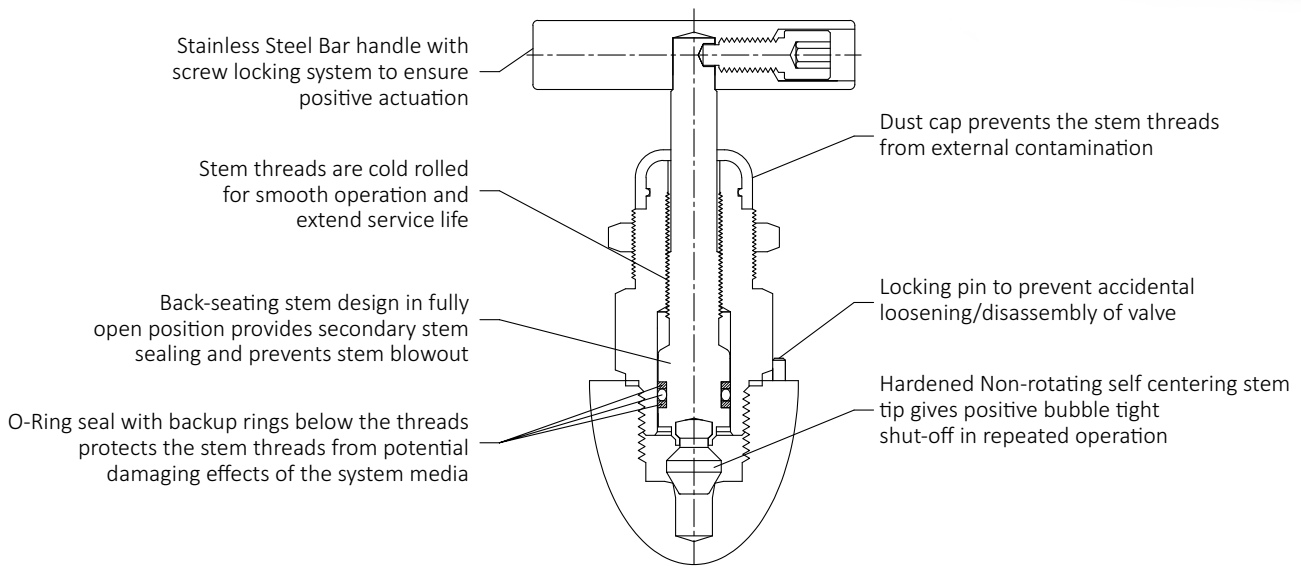
We strive for Total Customer Satisfaction and continuously work to set of goals to provide the best quality and delivery of products and services in the best interest of our customers.

NEEDLE VALVES : SERIES - BS99 (For High Pressure Applications)



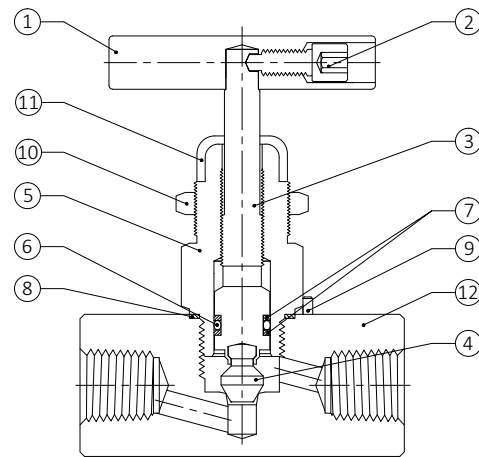
FEATURES / BENEFITS

- Available in material SS316.
- Heat Code Traceable to certified material test report
- Low operating torque
- Bar Stock Body in Straight Pattern, Panel mountable
- Variety of stem tips to provide greater flexibility
- Orifice size : 0.156" (4mm) and 0.250" (6.4mm)
- Flow coefficients (Cv) from 0.35 to 0.86
- Variety of end configurations includes Male/Female NPT, BSP, BSPT pipe connections.
- Every valve is factory tested.



MATERIAL OF CONSTRUCTIONS

No.	Component	Material
1	Bar Handle	SS316
2	Set Screw	SS316
3	Stem	SS316
4	Bonnet	SS316
5	'O' Ring	Viton®
6	Back-up Ring	PTFE
7	Washer	SS316
8	Bonnet Safety Pin	SS316
9	Panel Nut	SS316
10	Dust Cap	Nylon
11	Valve Body	SS316



'O' RINGS

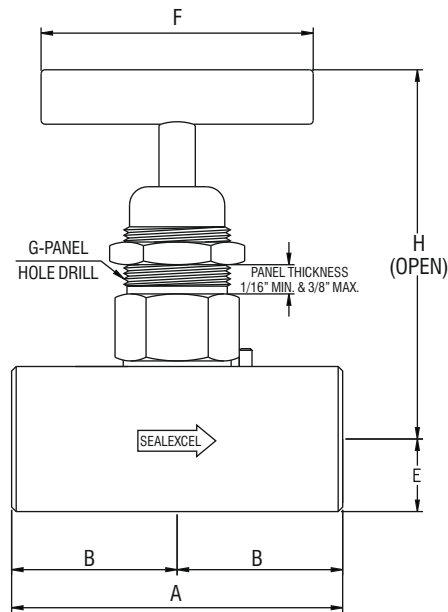
'O' Ring Material	Temperature Rating °F(°C)
Buna - N	-10 to 250 (-23 to 121)
EPDM	-77 to 250 (-55 to 121)
Viton® (Fluorocarbon)	-10 to 375 (-23 to 121)

OPERATING PARAMETERS

Pressure Rating : Upto 10,000 psig (680 bar) at CWP
 Temperature Rating : Upto 120°C (depend on O-ring seal)

APPLICATIONS

- General Plant Service
- Hydraulic and Pneumatic
- Pressure measurement devices
- Venting



STANDARD CONFIGURATION DIMENSIONS

End Connections		Orifice	Cv	Dimensions (mm)						Ordering Number
Inlet	Outlet			A	B	E	F	G	H (Open)	
1/4" Female NPT	1/4" Female NPT	4.0	0.35	57.2	28.6	12.7	52.5	15.1	70	BS99-FF4N
3/8" Female NPT	3/8" Female NPT	6.4	0.86	60.4	30.2	14.3	63.5	19.9	73	BS99-FF6N
1/2" Female NPT	1/2" Female NPT	6.4	0.86	79.4	39.7	15.9	63.5	19.9	76.2	BS99-FF8N
1/4" Male NPT	1/4" Female NPT	4.0	0.35	57.2	28.6	12.7	52.5	15.1	70	BS99-MF4N
3/8" Male NPT	3/8" Female NPT	6.4	0.86	60.4	30.2	14.3	63.5	19.9	73	BS99-MF6N
1/2" Male NPT	1/2" Female NPT	6.4	0.86	79.4	39.7	15.9	63.5	19.9	76.2	BS99-MF8N
1/4" Male NPT	1/4" Male NPT	4.0	0.35	57.4	28.6	12.7	52.5	15.1	70	BS99-MM4N
3/8" Male NPT	3/8" Male NPT	6.4	0.86	60.4	30.2	14.3	63.5	19.9	73	BS99-MM6N
1/2" Male NPT	1/2" Male NPT	6.4	0.86	79.4	39.7	15.9	63.5	19.9	76.2	BS99-MM8N

TESTING

- Standard Test : Each valve is factory tested with nitrogen at 1000 psig (69 bar) for leakage at the seat and packing.
- Optional Hydrostatic test : This test is performed with de-ionised water at 1.5 time the working pressure.

Dimensions are for reference only and subject to change

VALVE DESCRIPTION	ORDERING NUMBER FOR PIPE END CONNECTIONS
NEEDLE VALVES	<u>BS99-FF 8 N-E T-NR</u> 1 2 3 4 5 6 7

1. VALVE SERIES CODE DESCRIPTION

NEEDLE VALVES : STRAIGHT PATTERNS - BS99

2. END CONNECTION TYPE CODE DESCRIPTION

MM - Male pipe thread
 FF - Female pipe thread
 MF - Male pipe thread to Female pipe thread

5. MATERIAL OF CONSTRUCTIONS

E - SS316
 EL - SS316 to NACE MR01-75
 C - Carbon Steel

3. PIPE THREAD SIZE

SIZE	CODE	SIZE	CODE
1/8"	2	1/2"	8
1/4"	4	3/4"	12
3/8"	6	1"	16

6. O-RING SEAL MATERIAL

V - Viton®

7. STEM TYPE

NR - Non Rotating

4. PIPE THREAD TYPE CODE DESCRIPTION

N - Male / Female NPT
 RT - Male / Female BSPT
 RG - Female BSP
 SE - SAE Straight Thread

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TANGENTIAL BENEFITS OF OUR PRODUCTS:

- Brings world Class quality products indigenously developed.
- The products meeting all the international manufacturing standards and are supported by our qualitative product engineering services.
- Products are designed and manufacturing methodology follows advanced technology in our well – equipped ultra-modern design and manufacturing facility.
- The Products are manufactured by cutting-edge technology concept machineries, In-house performance, endurance and quality testing facilities resulting in sustained quality consistant products.
- The commercial price competitiveness saves substantial cost without any compromise in quality and services.

PRODUCT RANGE



 <p>Twin/Single Ferrule Tube Fittings</p>	 <p>37° Flare Tube Fittings To SAE J514</p>	 <p>Instrument Threaded & Welded Pipe Fittings</p>	 <p>Tube Fittings With Integral Flange</p>	 <p>Low /Medium PressureBall Valves</p>
 <p>High Pressure Ball Valve</p>	 <p>High Pressure 2/3 Way Ball Valve</p>	 <p>Needle Valve</p>	 <p>Needle Valves (Panel Mountable)</p>	 <p>High Pressure Needle Valve</p>
 <p>Rising Stem Plug Valves</p>	 <p>Gauge/Root Valves</p>	 <p>Instrument 2/3/5 Manifold Valves</p>	 <p>Monoflange Valves</p>	 <p>Single / Double Block & Bleed</p>
 <p>Purge Valves</p>	 <p>Bleed Valves</p>	 <p>Toggle Valves</p>	 <p>Relief Valves</p>	 <p>Check Valves</p>
 <p>Micron In-line Filters</p>	 <p>Quick Connect Couplings</p>	 <p>Stainless Steel Pneumatics Fittings & Valves</p>		



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