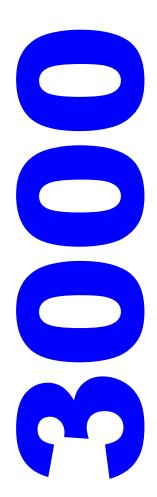
SCREWED BONNET NEEDLE VALVE

1/8" - 1/2" NPT

Globe and Block Configuration Brass, 303 and 316 Stainless Steel



Description

Series 3000 bar stock, screwed bonnet type needle valves are available in brass, 303 and 316 stainless steel with working pressures to 5000 Psig in 1/8" to 1/2" sizes. The unique, externally adjustable, wear compensating, virgin PTFE stem packing offers long trouble free service life in most liquid or gas applications. A wide variety of options including panel mounting, metal to metal seat, soft stem tip and taper proof cap, the Series 3000 provides economical, quality solutions for the most demanding applications. Valves can be ordered cleaned and packaged for oxygen service.

Features

- Adjustable PTFE Stem Packing
- Excellent Gauge Isolation Valve
- Wide variety of options to suit many diverse applications
- Available in 303 SS as an economical alternative to 316 SS (where applicable)
- 100% factory tested

Technical Data

Maximum Operating Pressure @ 100° F (38 ° C) Brass: 3000 Psig (207 Bar) Stainless: 5000 Psig (345 Bar)

Flow Coefficient

Globe (.187" Orifice): 0.40 Cv Block (.312" Orifice): 0.90 Cv



Metal to Metal Stem: -320° F to 400°F (-195° C to 204°C) Kel-F Tip Stem: -65° F to 200°F (-54° C to 93°C)

Leakage

External leakage – zero. Maximum allowable seat leakage – 0.1 cc/min @ 3000 psig (207 Bar) Nitrogen

Materials of Construction

	Valve Body Material				
Component	Brass	303 Stainless	316 Stainless		
Valve Body, Bonnet Packing Nut		303 SS, ASTM A582	316 SS, ASTM A479		
Stem ¹	Brass, ASTM B16	303 SS, ASTM A582/Kel-F (CTFE)	316 SS, ASTM A479/Kel-F (CTFE)		
Handle ²		Brass, ASTM B16, (Nickel Plated, ASTM 689)			
Set Screw	ANSI B18.3 (Alloy Steel)				
Packing	Virgin TFE				
Panel Nut	Brass,	Brass, ASTM B16, (Nickel Plated, ASTM 689)			
Tamper Proof Cap	ASTM B16	N/A			

[&]quot;Q", see ordering information. Block valves not available with soft stem tip option.



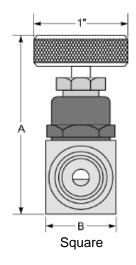
(Panel Mount Option Shown)

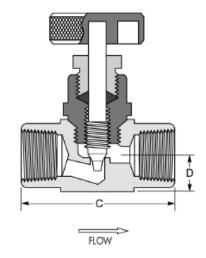


Block

^{2.} Optional black phenolic knob, option code "M"

SCREWED BONNET NEEDLE VALVE





Dimensional Data

Valve Pipe	PORT CONFIGURATION			_	Α	В	_		
Number	Size (NPT)	INLET	OULET	Orifice	Cv	(Open)	(Square)	С	D
1		Fei	male					1-5/8"	
2	1/8"	М	ale						
3		Male	Female						3/8"
4		Fei	male	.187"	0.40	2-1/4"	3/4"	4"	3/6
5	1/4"	M	ale						
6		Male	Female					13/16"	
7		M	ale						
8	3/8"	Female							
9		Male	Female						1/2"
10		Female		.312"	0.90	2-7/16"	1"	2-3/16"	1/2
11	1/2"	M	ale						
12		Male	Female						

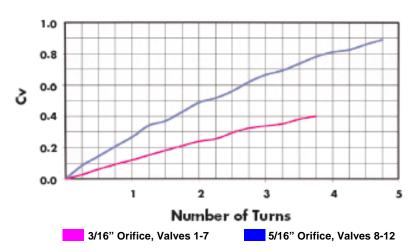
Ordering Information

<u>3000</u> - <u>4SS</u> - <u>X</u>

Part Number

Valve Number	Port Configuration	Part Number		
1	1/8" Female x 1/8" Female	3000-1		
2	1/8" Male x 1/8" Male	3000-2		
3	1/8" Male x 1/8" Female	3000-3		
4	1/4" Female x 1/4" Female	3000-4		
5	1/4" Male x 1/4" Male	3000-5		
6	1/4" Male x 1/4" Female	3000-6		
7	3/8" Male x 3/8" Male	3000-7		
8	3/8" Female x 3/8" Female	3000-8		
9	3/8" Male x 3/8" Female	3000-9		
10	1/2" Female x 1/2" Female	3000-10		
11	1/2" Male x 1/2" Male	3000-11		
12	1/2" Male x 1/2" Female	3000-12		
NPT threads per ANSO/ASME B1.20.1. For other thread configurations, consult factory.				

Flow Coefficient (Cv) @ Turns Open



Material Code

B - Brass

SS-303 Stainless Steel

SSS - 316 Stainless Steel

Options

P - Panel Mount (9/16" Hole, 3/16" Max. Panel Thickness)

M - Plastic Knob (1-3/8" Diameter)

N - Kel-F Soft Stem Tip (Standard with SS valves)

T-PTFE Soft Stem Tip

Q - Stainless Steel Stem

QN - Stainless Steel Stem with Kel-F Soft Stem Tip

C - Screw Driver Slotted Stem

QC - Stainless Steel Screw Driver Slotted Stem

X - Cleaned and Packaged for Oxygen Service

Shaded Options are available for Globe Valves Only (1-7)

PROPER COMPONENT SELECTION – When specifying a component, the total system design must be considered to ensure safe and trouble-free performance. Intended component function, materials compatibility, pressure ratings, installation, environment and maintenance are the responsibility of the system designer.



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