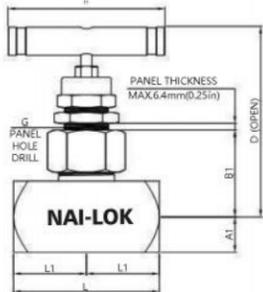




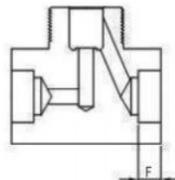
Features

- Maximum working pressures: Stainless steel 6000 psig (414 bar)
- Working temperature: PTFE: -65 °F to 450 °F (-54°C to 232 °C)
PEEK: -65 °F to 600 °F (-54°C to 315°C)
- Leak-tight performance testing for every valve with nitrogen at the maximum working pressure

Dimensions



• In-line pattern



• Socket weld end

Basic Ordering Number	End connections		Orifice mm(in)	Cv	Dimensions, mm(inch)							
	Inlet	Outlet			L	L1	B1	A1	H	G	D	F
NB-	F-2N	1/8" Female NPT	4.0 (0.156)	0.35	57.2(2.25)	28.7(1.13)	34.0(1.34)	12.7(0.50)	63.5(2.50)	20.6(0.81)	77.2(3.04)	-
	F-4N	1/4" Female NPT			57.2(2.25)	28.7(1.13)	34.0(1.34)	12.7(0.50)	63.5(2.50)	20.6(0.81)	77.2(3.04)	-
	M-4N	1/4" Male NPT			57.2(2.25)	28.7(1.13)	34.0(1.34)	12.7(0.50)	63.5(2.50)	20.6(0.81)	77.2(3.04)	-
	M-F-4N	1/4" Male to Female NPT			57.2(2.25)	28.7(1.13)	34.0(1.34)	12.7(0.50)	63.5(2.50)	20.6(0.81)	77.2(3.04)	-
	N-4T	1/4" NAI-LOK	71.6(2.82)	35.8(1.41)	34.0(1.34)	12.7(0.50)	63.5(2.50)	20.6(0.81)	77.2(3.04)	-		
	F-8N	1/2" Female NPT	6.4 (0.25)	0.86	82.6(3.25)	41.4(1.63)	48.2(1.90)	19.8(0.78)	88.9(3.50)	26.9(1.06)	111(4.36)	-
	M-8N	1/2" Male NPT			79.5(3.13)	39.6(1.56)	46.0(1.81)	16.0(0.63)	88.9(3.50)	26.9(1.06)	108(4.27)	-
	M-F-8N	1/2" Male to Female NPT			82.6(3.25)	41.4(1.63)	48.2(1.90)	19.8(0.78)	88.9(3.50)	26.9(1.06)	111(4.36)	-

All dimensions shown are for reference only and are subject to change. Dimensions with NAI-LOK nuts are in finger-tight position.

- Non-rotating globe disc providing repetitive leak tight shut-off is standard.
- To order Dimensions are for reference only and subject to change.

Pressure-Temperature Ratings

NB Series (High Pressure)

ASME Class	N/A
Material Group	N/A
Material Name	SS316
Temperature, °F (°C)	Working pressure, psig(bar)
-65(-53) to 100(38)	10000 (689)
200 (93)	9290 (640)
300 (148)	8390 (578)
400 (204)	7705 (530)
500 (260)	7165 (493)
600 (315)	6770 (466)
700 (371)	6480 (446)
800 (426)	6230 (429)
900 (482)	5905 (406)
1000 (537)	5450 (375)
1100 (593)	4835 (333)
1200(648)	3085 (212)

Grafoil Packing Information

Grafoil is a high temperature packing material that requires a load on the material to generate a seal. In air, Grafoil maximum temperature is 973 °F (523°C) in steam, Grafoil goes up to the maximum temperature of 1,200 °F (648°C). Grafoil packing is not for use with pneumatic actuating valves.

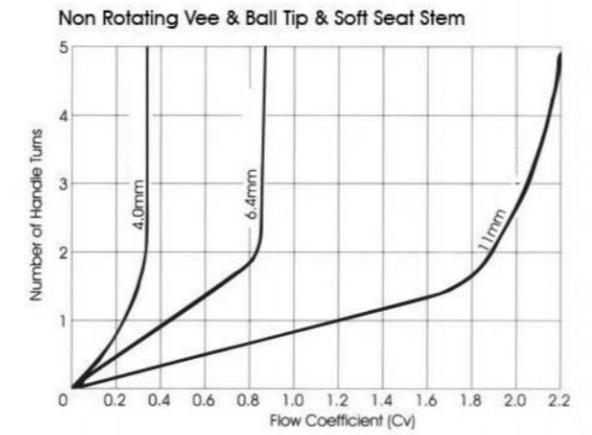
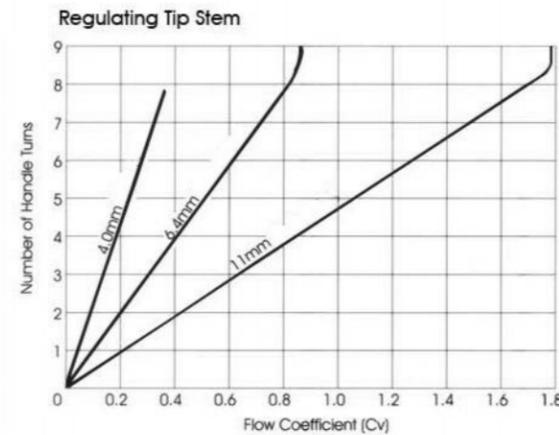
Valve Ratings With Optional PEEK Packing

SS316 and C276 valve with PEEK packing is limited to maximum 600 °F (315 °C) rating ; Alloy 400 valve with PEEK packing is limited to maximum 500 °F (260 °C) rating.

Valve Ratings With Nai-Lok End Connections

Valve ratings may be limited to the maximum working pressure of connective pipe and tubing. For valve rating with NAI-LOK tube fitting end connections, refer to NAI-LOK catalog providing suggested working pressures in various tubing OD, wall thicknesses, and materials.

Flow Data @ 100 °F (38°C) for valves with regulating disc



Globe and Ball Disc

Valve with standard globe and ball disc is designed for use in a fully open or fully closed position.

Cv Reduction

Valve flow may be reduced by the restriction of pipe and tubing connected.

Ordering Information

Example: $\frac{NB}{1} - \frac{N-2T}{2} - \frac{SS}{3}$

1. Valve Series

NB

2. End Connection

N= NAI-LOK Tube Fitting
F= Female Thread
M= Male Thread

3. Body Material

SS= SS316
HC= Hastelloy

4. Packing Material

P= PEEK
G= Graphite