

Phoenix Precision's N6G series needle valves are designed for both the engineer and instrumentation technician. The N6G series gas needle valve is a best in class valve designed with a double Viton O-ring stem seal and backup PTFE seal below the threads, a metal to metal, bonnet to body seal in compression, and full back-seating capability. These features ensure that gas samples remain in the sample bottle while providing low torque operation. The N6G is designed to provide years of consistent, low maintenance operation.



Phoenix Precision has taken the guess work out of specifying valves. Phoenix Precision valves are designed and tested to meet or exceed the specifications below:

- ▶ ASME B31.1 Power Piping
- ▶ ASME B31.3 Process Piping
- ▶ MSS SP-61 & ASME B16.34
- ▶ API 598 Valve Inspection and Testing
- ▶ MSS-SP105 Instrument Valves for Code Applications
- ▶ MSS-SP99 Instrument Valves
- ▶ MSS-SP25 Standard Marking Systems for Valves, Fittings, and Flange Unions
- ▶ NACE MR0175/ISO 15156 for all 316SS valves and A105CS body/316SS bonnet (SC-Material Code) valves in services with less than 50 ppm of Chlorides

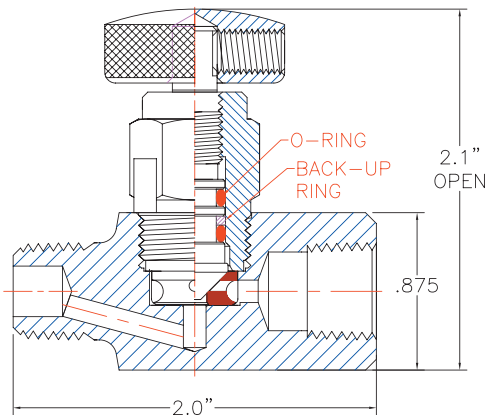
- ▶ ISO 9001:2000(E) Certified
- ▶ ABSA Design Registered CRN# 0C06740.2

- ▶ All valve assemblies are hydrotested at 150% of rated pressure as standard (shell test)
- ▶ All valves assemblies pass a seat leakage test at 110% of rated pressure as standard (seat test)
- ▶ MTR's on body, bonnet, and stem as standard
- ▶ All pressure component materials are sourced from U.S., Canada or Europe
- ▶ All packing below stem threads to prevent corrosion and contamination
- ▶ Back-seating to prevent stem blowout and provide a metal to metal secondary stem seal in full open position.
- ▶ All stem threads are rolled for superior strength and to prevent galling



Materials of Construction

CODE	SS	SC	CS
Body	ASTM A182 316SS	ASTM A105CS	ASTM A108CS
Bonnet	ASTM A182 316SS	ASTM A182 316SS	ASTM A108CS
Stem	ASTM A182 316SS	ASTM A182 316SS	ASTM A582 303SS
Handle	Aluminum	Aluminum	Aluminum

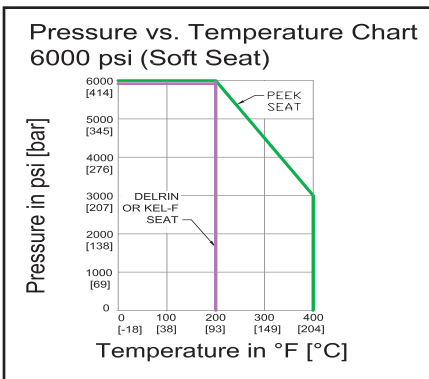


Specifications:

Type: Mini-valve, Globe Pattern
 Rating: up to 6000 psi @ 100°F
 (41370 kPa @ 38°C)
 Stem: Needle tip
 Packing: FKM, AflasTM
 Seat: DelrinTM, PeekTM or Kel-FTM
 Handle: 1" Round, Removable
 Bore Size: 1/8"
 Inlet Connections: 1/4" NPT
 Outlet Connections: 1/4" NPT
 Body Stock: .875" sq.
 Weight: 0.3 lbs

MODEL NUMBERING SYSTEM

Phoenix	Orifice Size	Type	Inlet Size	Inlet Type	Outlet Size	Outlet Type	Material	Packing	Seat	Stem Tip
P	2=1/8"	N6G	4=1/4"	F=FNPT	4=1/4"	F=FNPT	SS=ASTM A182 316/316L	A=Aflas TM	D=Delrin TM	Needle Tip
				M=MNPT		M=MNPT	SC=ASTM A105CS	V=FKM	P=Peek TM	
							CS=ASTM A108CS		K=Kel-F TM	
EXAMPLE: P2N6G4M4FSSVD = 1/8" Orifice, 1/4" MNPT Inlet, 1/4" FNPT Outlet, 316SS Body, Viton TM O-ring, Delrin TM Seat										
P	2	N6G	4	M	4	F	CS	V	D	



SEAL & SEAT MATERIAL TEMPERATURE RATING

Code	Description	MIN. TEMP	MAX. TEMP
A	Aflas TM	15°F (-10°C)	400°F (204°C)
V	FKM	-20°F (-29°C)	400°F (204°C)
D	Delrin TM	-40°F (-40°C)	200°F (93°C)
P	Peek TM	-40°F (-40°C)	400°F (204°C)
K	Kel-F TM	-100°F (-73°C)	200°F (93°C)

Note: Packing materials based on manufacturer's specifications. Approximations only. Phoenix does not represent these values as finite. They are provided only as representative values.

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