VEX110 Needle Valves Standard Sturdy Bar Handle

Maximum Working Pressure 10 000 psig (689 bar)

Pressure

000 psi)

Features

D-Pro

- Premium four (4) sealing mechanism for severe service.
- Unique pressure reacting self-adjustable sealing desig
- eliminates the need of packing adjustment during service. Sealing cup swells up in system pressure for full sealir contact in the bonnet.
- Backseat stem design prevents stem blowout.
- High precision machining provides low valve operating torque Stem packing below the threads prevents thread lubrical
- washout and media contamination.

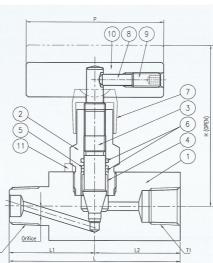
design e. ealing	Valve Material	Valve O-ring Designator	Sealing Cup Material	Rating °C (°F)	Rating @ 38 °C (100°F)	
orque. pricant	S316	KZ*	PEEK	- 30 ~ 250 (-22 ~ 482)	689 bar	
		VT*	FLLK	-30~204 (-22 ~399)	(10 000 ps	
		Perfluoroelastom inylidene fluorid		t elastomer), TM D	oupont	
In-line pattern Angle pattern						

Temperature and Pressure Ratings

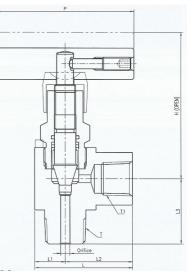
Optional Standard Temp.

Material of Construction Material /ASTM Component S316/ A479, A276 1 Body S316/ A479, A276 2 Bonnet 3 Stem S316/ A479, A276 Standard Sealing Cup 4 Polyetheretherketon-5 Packing PEEK Kalrez 6 Upper & Lower or Viton O-ring seal Poly Oxy Methylene-7 Handle Copolymer- POM C auide 8 Handle pin 9 Set screw S316/ A479, A276 10 Bar Handle 11 Bonnet Locking Pin

Lubrication: Molvbdenum disulfide lubricant Note: 1. Wetted components are marked in blue. 2. Sealing system is marked in Red.



Angle pattern



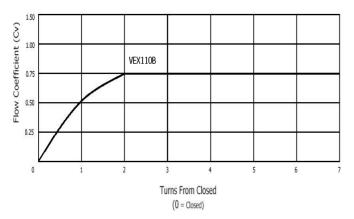
Ordering Information and Table of Dimensions

Basic Ordering Number		End Connections		Orifice		Dimensions, mm (inch)					
		Inlet	Outlet	mm (in.)	Cv	L	L1	L2	L3	Н	Ρ
In-line pattern VEX 110B-	MF-4N-*-S	1/4" Male NPT	1/4" Female NPT	4.76 (0.19)	0.75	88.9 (3.5)	44.45 (1.75)	44.45 (1.75)	-	90.0 (3.54)	71.5 (2.81)
	MF-8N-*-S	1/2" Male NPT	1/2" Female NPT			88.9 (3.5)	44.45 (1.75)	44.45 (1.75)	-	90.0 (3.54)	71.5 (2.81)
Angle pattern VEX 110B-	MF-4N-A-*-S	1/4" Male NPT	1/4" Female NPT			88.9 (3.5)	44.45 (1.75)	44.45 (1.75)	-	90.0 (3.54)	71.5 (2.81)
	MF-8N-A-*-S	1/2" Male NPT	1/2" Female NPT			50.8 (2.0)	15.87 (0.62)	34.93 (1.38)	36.6 (1.44)	90.0 (3.54)	71.5 (2.81)

*Ordering information

To order valve with Viton o-ring, insert the designator "VT" to the valve ordering number. Example: VEX110B-MF-4N-VT-S. To order valve with Kalrez o-ring, insert the designator "KZ" to the valve ordering number. Example: VEX110B-MF-8N-A-KZ-S





Flow Data

Cv is measured at the valve. Restrictions in end connections may reduce the flow.

Factory Test

Every valve is tested with the nitrogen @ 68 bar (1000psig) at the seat to a maximum allowable leak rate of 0.1 scc/min. The packing is tested for no detectable leakage.



Model Shown: Angle Pattern VEX110B-MF-8N-A-VT-S

