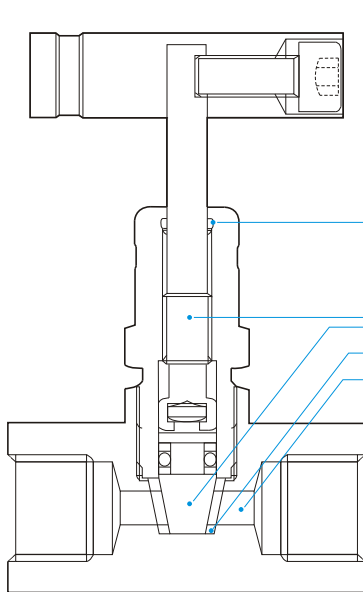


D-Pro

V96 Series Rising Plug Valves

Valves for Pressure Ratings up to 6000 psig
Catalog No. V96-2 Oct. 2003

Design Features



- Internal bonnet O-ring protects threads from external contamination
- Isolated threads located above sealing packing prevents media contamination and thread lubricant washout
- Non-rotating Stem Tip for positive sealing and maximum soft seat life
- Replaceable seat design: DELRIN seat standard, optional PEEK and PFA
- Straight-through orifice, hence roddable for easy cleaning

Materials of Construction

Component	Material / ASTM Specification
Handle	S316 / A276
Wiper O-ring	Fluorocarbon FKM
Bonnet	S316 / A276
Lock Nut	S316 / A276
Stem Shank	S316 / A564
Stem tip	S316 / A276
O-ring	Fluorocarbon FKM
Backup Rings	PTFE/D1710
Seat	DELRIN, optional PEEK, PFA
Body	S316 / A479

Wetted components are listed in bold letters.
Lubrication: Fluorocarbon base on threads, silicone base on soft parts

Technical Data

Ratings are based on valves with fluorocarbon FKM O-rings and PTFE backup rings.

Valve Material	Seat Material		Valve Temperature Rating, F(C)	Pressure Rating at 100F(37C), psig (bar)	Pressure Rating at 400F(204C), psig (bar)
	Material	Designator			
S316	Standard DELRIN	DL	-20 to 250 (-28 to 121)	6000 (413)	N/A
	Optional PEEK	PK	-20 to 400 (-28 to 204)		1000 (68.9)
	Optional TFE PFA	PA		750 (52)	100 (6.8)

S316 Valve Pressure-Temperature Ratings

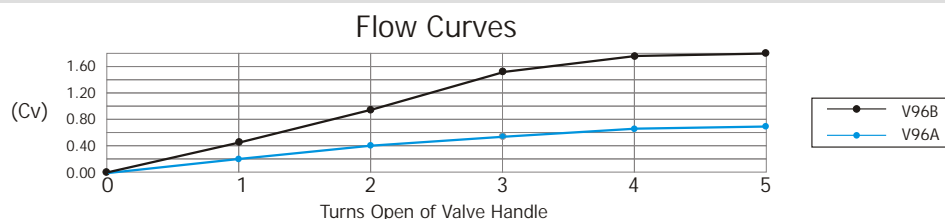
with standard Delrin seat

Temperature, F(C)	Working Pressure
-65 to 100 (-53 to 37)	6000 psig (413 bar)
200 (93)	2650 psig (182 bar)
250 (121)	1000 psig (68.9 bar)

Optional Stem O-ring

O-ring Material	Designator	Temperature Rating F(C)
Buna-N	BN	-28 to 121 (-20 to 250)
EPDM	EP	
Kalrez	KZ	-28 to 204 (-20 to 400)

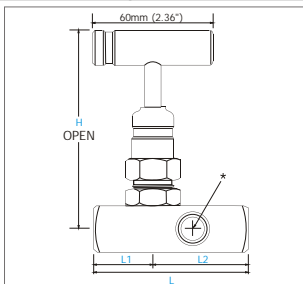
Flow Coefficiency at 100F(37C)



Testing

Every valve is factory tested with the nitrogen @ 1000 psig (68 bar) for leakage at the seat to a maximum allowable leak rate of 0.1 scc/min. Stem seals are tested to a requirement of no detectable leakage using a liquid leak detector.

Ordering information



Gage Port Model:
V96-G4- and V96-G8-



Standard Model

Ordering Number	End Connections		Orifice mm(in.)	Cv	Dimensions, mm(in.)			
	Inlet	Outlet			L	L1	L2	H
V96A-	F-4N	1/4" Female NPT		4.8	0.63	56.9 (2.24)	28.4 (1.12)	95.8 (3.77)
	MF-4N	1/4" Male NPT	1/4" Female NPT			73.4 (2.90)	45.2 (1.78)	
	MF-8N4N	1/2" Male NPT	1/4" Female NPT			76.5 (3.01)	48.0 (1.89)	
V96A-G4-*	F-4N	1/4" Female NPT		(-0.187)	0.63	72.9 (2.87)	28.4 (1.12)	44.4 (1.75)
	MF-8N4N	1/2" Male NPT	1/4" Female NPT			124 (4.87)	79.2 (3.12)	
	F-8N	1/2" Female NPT				67.6 (2.66)	33.8 (1.33)	
V96B-	MF-8N	1/2" Male NPT	1/2" Female NPT	6.4 (-0.25)	1.8	88.6 (3.49)	54.9 (2.16)	33.8 (1.33)
	MF-12N8N	3/4" Male NPT	1/2" Female NPT			90.9 (3.58)	33.8 (1.33)	
	F-8N	1/2" Female NPT				142 (5.58)	84.6 (3.33)	
V96B-G8-*	MF-8N	1/2" Male NPT	1/2" Female NPT	6.4 (-0.25)	1.8	88.6 (3.49)	54.9 (2.16)	57.2 (2.25)
	MF-12N8N	3/4" Male NPT	1/2" Female NPT			90.9 (3.58)	33.8 (1.33)	
	F-8N	1/2" Female NPT				142 (5.58)	84.6 (3.33)	

All dimensions shown are for reference only and are subject to change.

* - G4- for 1/4" Female NPT gage ports, and -G8- for 1/2" Female NPT gage ports.

* Gage port models with extended body allowing 50.8mm(2.0") pipe insulation are listed in bold letter

Panel Mounting option

Panel Hole drill size is 19.8mm (25/32") and Max. panel thickness is 12.7mm (1/2"). To order, use -PM as a suffix to the valve ordering number. Example: V96A-F-4N-PM

Sour Gas Service option

Materials are selected in accordance with NACE MR0175 and wetted stainless steel parts are annealed. To order, use -SG as a suffix to the ordering number. Example: V96A-F-4N-SG

How to order

Select valve ordering number, and applicable options from designators listed below.

Example : V96A-F-4N

-PK **-EP** **-PM** **-SG** **-S**

Seat Designator	O-ring Designator	Panel mounting Designator	Sour Gas Service Designator	Body Material Designator
Nil: DELRIN PK: PEEK PA: Teflon PFA	Nil: FKM O-ring EP: EPDM KZ: Kalrez	PM: Panel Mounting	SG: Sour Gas	S: S316

Safe Valve Selection

The selection of a valve for any application or system design must be considered to ensure safe performance. Valve function, valve rating, material compatibility, proper installation, operation and maintenance remain the sole responsibility of the system designer and the user. Dk Tech accepts no liability for any improper selection, installation, operation or maintenance.

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