

# **VR6 Series High Pressure Regulator Valves**

VR6 Series Pressure Rating up to 413bar (6,000 psig)

#### **Features**



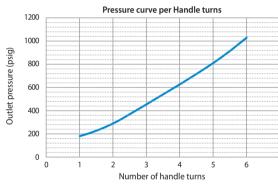
• The High Pressure Regulator valve is featured by controlling the pressure toward downstream from zero to 1,000 psig (68.9 barg) precisely and keeping the downstream pressure constantly after adjusting, though the upstream pressure may be fluctuated unexpectedly.

• The diaphragm made of thin plate of stainless steel is positioned between the body and housing to make sure of stable sealing characteristics and keep the control volume.

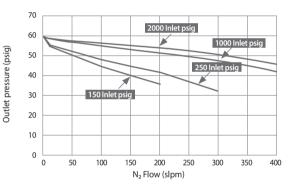
#### **Technical Data**

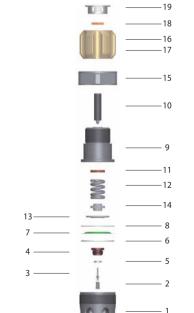
Body Material	Seat Material	Temperature Rating °F (°C)	Pressure Rating @ -40 ~ 160 °F (-40 ~ 70°C)	Control Volume
SS316L/A276	PCTFE	-40 ~ 160 (-40 ~ 70)	0 ~ 6,000 psig (420 barg)	4 cc

#### Graph 1. Control Pressure per Handle turns



#### Graph 2. Flow Curves





# **Material of Construction**

Components	VR6 Series (Standard)		
1. BODY	SS316L/A276		
2. SPRING-RETURN	SS316L		
3. VALVE	SS316L		
4. SEAT HOUSIG	SS316L		
5. SEAT	PCTFE		
6. SEAL BODY	EPDM		
7. DIAPHRAGM	SS316L		
8. WASHER	SS316L		
9. HOUSING	SS316L/A276		
10. ADJUST SCREW	SS316L		
11. CAP SCREW	BRASS		
12. SPRING CONTROL	SS316L		
13. STOPPER	SS316L		
14. PLUNGER	BRASS		
15. NUT HOUSING	SS316L		
16. HANDLE	ABS		
17. HANDLE NUT	SS316L		
18. LOCK NUT	SS316L		
19. HANDLE CAP	ABS		

#### Quality System Approvals Quality System App

# **IDK-LOK**

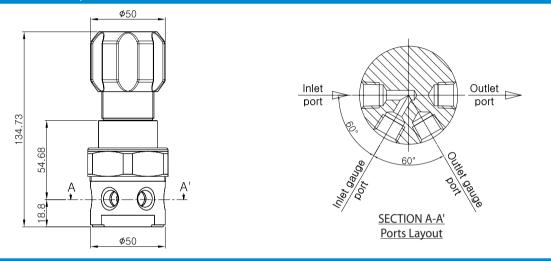
#### **Factory Test**

Every valve is factory tested with nitrogen gas @1,000 psig (68.9 barg) for leakage to a maximum allowable leak rate of 0.1 SCCM at seat. Hydraulic shell test is optionally performed at 1.5 times the working pressure to a requirement of no detectable leakage with a liquid leak detector.

#### **Cleaning and Packaging**

Every valve is cleaned and packaged in accordance with DK-Lok cleaning standard DC-01. Special cleaning and packaging in accordance with DK-Lok DC-11 ensures compliance with product cleaning of ASTM G93 Level C is available on request for valves with PCTFE and PTFE seats.

#### **Dimensions and Port Layout**



## **Designation for Port Layout**

Port Layout	IN OUT Gauge OUT Gauge			IN Gauge
Designation	Nil	0	3	X4

#### How to order

Select applicable valve basic ordering number, options and body material designator listed below.

#### VR6-F-4N

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Port Layout	Seat Materials	Self-Vent Options	Body Material
Nil : 4 ports (60° per port)	Nil : Standard PCTFE	Nil : None	S: 316L Stainless steel
<b>0</b> : None of gauge port	PK : PEEK		
<b>3</b> : 3 port (1 for Gauge)			
X4 : 4 ports (90° per port)			

### **Safe Valve Selectionn**

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 retain the sole responsibility of the system designer and the user. DK-Lok accepts no liability for any improper selection, installation, operation or maintenance.

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