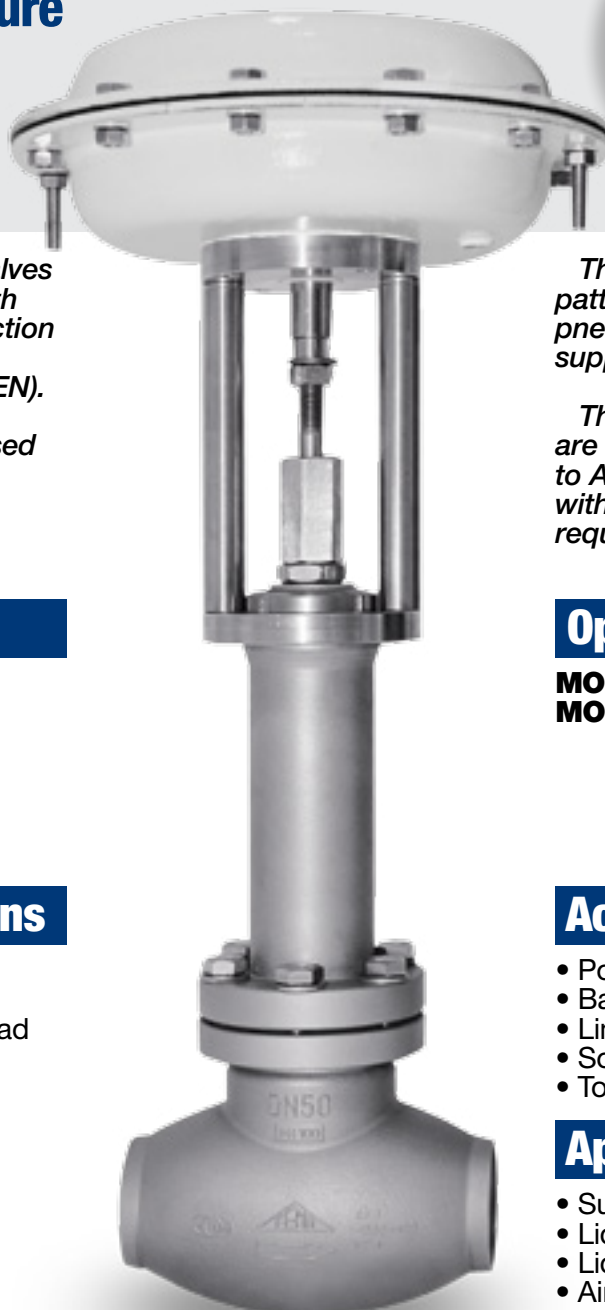


Pneumatic Cryogenic Control Valve

ST-204E Rev.0.0

VDFPR

Maximum Pressure
100 Barg
Temperature
-196/+100°C



The VDFPR pneumatic valves are globe control valves with pneumatic actuator air function OPEN (Normally CLOSED) or air CLOSE (normally OPEN).

They are suitable to be used with cryogenic fluids up to -196°C with the extended bonnet and bellow or stem packing.

The body is globe straight pattern type with the diaphragm pneumatic actuator with max supply pressure of 3.5 barg.

The VDFPR valves are manufactured according to ASME B16.34 and comply with 97/23/EC (PED) Standards requirements.

Materials

Body	ASTM A351 CF3/CF8
Extension	AISI 304
Disc	AISI 316
Bellows	AISI 316
Seal	PTFE

Operating Conditions

MOP Max Op. Press. NP 100 Barg.
MOT Max Operative Temperature
 -196/+100°C

Models/Connections

VDF-PR 7375 BW
VDF-PR 7376 SW
VDF-PR 7377 Female thread
VDF-PR 7378 Male thread
VDF-PR 7379 Flanged

Accessories

- Positioner P/P, I/P
- Balanced Plug
- Limit Switch
- Solenoid valve
- Top manual hand-wheel

Applications

- Suitable for cryogenic fluids
- Liquid Oxygen -196°C
- Liquid Nitrogen -196°C
- Air
- LPG & LNG

Characteristics

- Globe valve
- Upper Guide
- Bellow Seal Stem
- Suitable for Cryogenic Fluids
- AISI 316 Disc
- PTFE Soft Seal VI Class
- EQP%-LN-PT Characteristic Disc
- Diaphragm Pneumatic Actuator type: S275, S335, S430
- Spring Action N.C
- Spring Action N.O
- Max. Supply 3,5 bar

VDFPR - Pneumatic Cryogenic Control valve

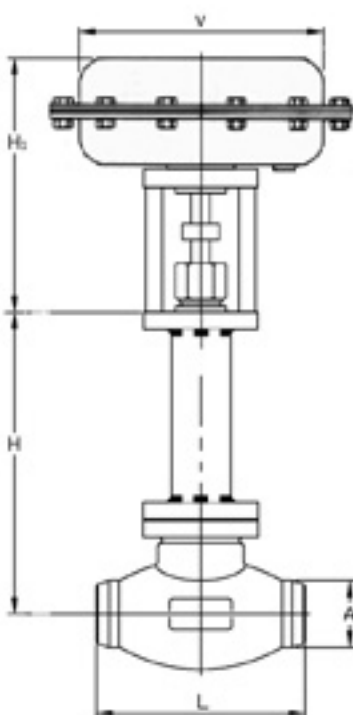
Flow Coefficient

DN (inch)	15 (1/2")	20 (3/4")	25 (1")	32 (1 1/4")	40 (1 1/2")	50 (2")
KV	3.8	5.1	8.5	13.7	22.2	36.7
CV	4.5	6	10	16	26	43

Differential Pressure (Barg)

DN	INC.	Cvs	S.275		S.335		S.430	
			Air Open (NC)		Air Open (NC)		Air Open (NC)	
			3-15 PSI	6-30 PSI	3-15 PSI	6-30 PSI	3-15 PSI	6-30 PSI
15	1/2"	4.5	28	40				
20	3/4"	6	25	40				
25	1"	10	16	25	30	40		
32	1 1/4"	16	8	16	20	40		
40	1 1/2"	26	6	12	16	25		
50	2"	43	3.5	6	10	16	25	40

Overall Dimensions (mm.)



DN	Inch	A	L	H
15	1/2"	21.3	100	247
20	3/4"	26.9	110	247
25	1"	33.7	120	247
32	1 1/4"	42.4	143	322
40	1 1/2"	48.3	158	356
50	2"	60.3	175	356

Actuator	H1	V
S.275	243	275
S.335	300	335
S.430	334	430



Certifications

