

VALVULAS Y PROCESOS 2007, S.L.

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Diaphragm valve T4 [direct pneumatic actuated]







General:

Body material: PVC-U, PP Seals: EPDM, FPM Diaphragm: EPDM, FPM Dimensions: DN15 - DN50 d20 - d63

1/2"-2"

Connections:

DIN / ASTM Union /

Solvent socket

PVC-U

Solvent spigot DIN

PVC-U

Union / DIN

Fusion socket

DIN Fusion spigot

Operating pressure: PN₆

Technical features:

- opening due to medium pressure, therefore easy assembly
- corrosion resistant
- maintenance free operation over a long working life
- suitable for aggressive and dirty media
- radial installation or removal
- easy replacement of the diaphragm
- connection G 1/4" for direct screw in of a solenoid valve or a pneumatic couple

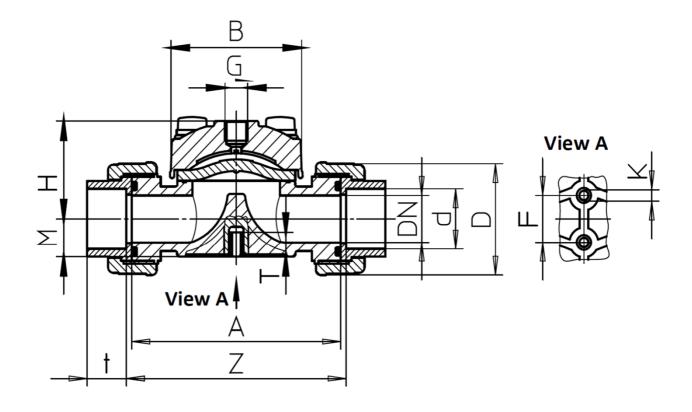
Accessories:

3/2 solenoid valve

This document does not constitute a guarantee, it is for initial information purposes only. The product range is constantly upgraded therefore the designs and types only reflect the state of the art at the time of printing.







PVC-U / PP

Connector type

PVC-U union / solvent socket

PP union / fusion socket

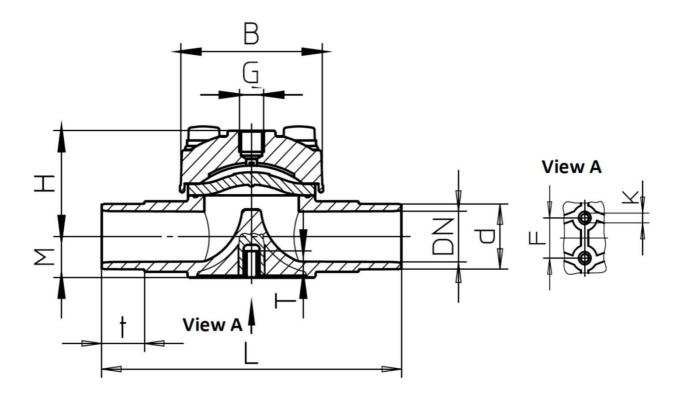
DN	15	20	25	32	40	50	
d	20	25	32	40	50	63	

inch	1/2"	3/4"	1"	1 ¼"	1 ½"	2"	
Α	90,0	108,0	116,0	136,0	154,0	184,0	
В	64,0	64,0	74,0	101,0	101,0	117,0	
D	43,0	53,0	60,0	74,0	83,0	103,0	
F	25,0	25,0	25,0	45,0	45,0	45,0	
G	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	
н	47,0	47,0	53,0	70,0	70,0	78,0	
K	M6	M6	M6	M8	M8	M8	
M	17,0	17,0	21,0	33,0	33,0	40,5	
t (PVC)	16,0	19,0	22,0	26,0	31,0	38,0	
t (PP)	16,0	17,0	19,5	22,0	25,0	29,0	
T	12,0	12,0	12,0	15,0	15,0	15,0	
Z	96,0	114,0	122,0	142,0	160,0	190,0	

Dimensions in mm







PVC-U / PP Connector type

PVC-U solvent spigot

PP fusion spigot

PP Tusion spigo							
DN	15	20	25	32	40	50	
d	20	25	32	40	50	63	
inch	1/2"	3/4"	1"	1 ¼"	1 ½"	2"	
В	64,0	64,0	74,0	101,0	101,0	117,0	
F	25,0	25,0	25,0	45,0	45,0	45,0	
G	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	
H	47,0	47,0	53,0	70,0	70,0	78,0	
K	M6	M6	M6	M8	M8	M8	
L	124,0	144,0	154,0	174,0	194,0	224,0	
M	17,0	17,0	21,0	33,0	33,0	40,5	
t (PVC)	16,0	19,0	22,0	26,0	31,0	38,0	
t (PP)	16,0	17,0	19,5	22,0	25,0	29,0	
T	12,0	12,0	12,0	15,0	15,0	15,0	

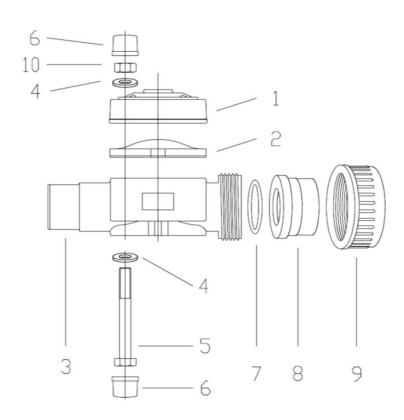
Dimensions in mm





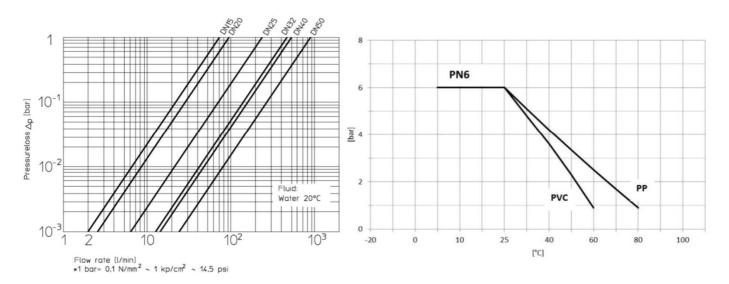
Exploded drawing

- 01. Pneumatic top
- 02. Diaphragm
- 03. Spigot
- 04. Shim
- 05. Screw
- 06. Cover
- 07. O-Ring
- 08. Socket
- 09. Union nut
- 10. Hex nut



Flow - Pressure loss diagram

Pressure - Temperature diagram PVC-U and PP



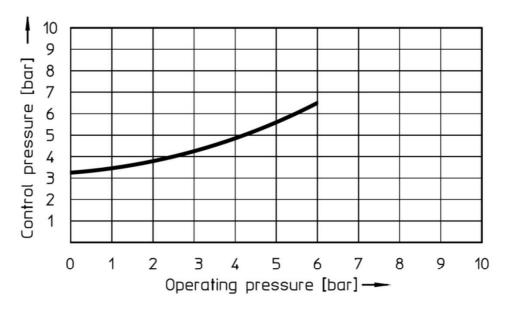
Cv value table

Pressure loss	DN15	DN20	DN25	DN32	DN40	DN50	DN65	DN80	DN100	DN125
1 bar	70	95	250	450	500	880	1.100	1.700	2.700	4.000
	l/min	I/min	l/min							





Control pressure - Operating pressure - Diagram



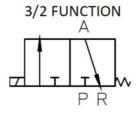
Note

- ⇒ To protect the diaphragm do not choose the control pressure higher than necessary (see diagramm above)!
- Due to the direct actuated diaphragm, the operating pressure of the diaphragm valve is PN6 and not PN10 as stated at the diaphragm body!

Accessories:

3/2 SOLENOID VALVE





General

- Solenoid valve with 3/2-way function and with standard coil
- Protection class IP65 with cable plug
- Emergency manual override
- Service port G 1/4" and plug-in connector Ø6mm

Material

- Body: Polyamide (PA)
- Bolt: Brass nickel plated
- Seal: NBR

Power Supply:

- 24 V DC Item no. 50063 - 230 V AC Item no. 50050



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