

Series 8 pneumatic operated cartridge valves

2/2-way - Normally Closed (NC) 3/2-way - Normally Closed (NC)









Series 8 pneumatic operated valves are particularly suitable for applications requiring high flow combined wtih compact design.

The valve is pneumatic operated by electro-pilots which are dimensioned according to the size.

The cartridge design, which is ideal for manifold assembly, allows to reduce both dimensions and the number of pneumatic connections. The standard function of the valve is 2/2-way NC.

It can however fulfill the 3/2-way NC function if inserted in a proper seat (see the following pages).

- » New versions with PPS body
- » High flow
- » Manifold assembly
- » Oxygen use
- » Suitable also for general purpose

GENERAL DATA

TECHNICAL FEATURES	
Function Operation Pneumatic connections Orifice diameter Nominal flow Flow coefficient kv (l/min) Operating pressure Piloting pressure Operating temperature Media Installation	2/2 NC - 3/2 NC pneumatic operated poppet type cartridge seat in manifold 5 9 mm 420 1480 Nl/min (air at 6 bar ΔP 1 bar) 6.5 23 3 ÷ 6 bar (0 ÷ 6 bar with external pilot supply) 3 ÷ 6 bar 0 ÷ 50 °C filtered air class [5:4:4] according to ISO 8573-1:2010 (max oil viscosity 32 cSt), inert gas, oxigen in any position

MATERIALS IN CONTACT WITH THE MEDIUM

Body Internal parts Seals PPS - brass aluminium FKM

SERIES 8 CARTRIDGE VALVES

CODING EXAMPLE

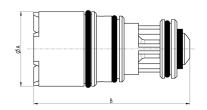
8	10 C5	5 1	00	_	F1	3	2	_	0X2					
0	10 03		00			5	L		UNL					
8	SERIES													
10	SIZE 10 = size 1 - Ø 10.0 mm 20 = size 2 - Ø 14.5 mm 30 = size 3 - Ø 22.0 mm	ı												
C5	BODY DESIGN C5 = cartridge													
1	NUMBER OF WAYS - FUNCTIONS 1 = 2/2 or 3/2-way - NC													
	NOTE: the function 2/2 of	o 3/2-way depends on	he seat used (see th	e following page	25)									
00	PNEUMATIC CONNECTION 00 = cartridge	VS												
F1	ORIFICE DIAMETER F1 = Ø 5.0 mm - size 1 only G7 = Ø 6.6 mm - size 2 only K1 = Ø 9.0 mm - size 3 only													
3	SEAL MATERIAL 3 = FKM													
2	BODY MATERIAL 2 = brass B = PPS - size 2 and size	3 only												
0X2	0X2 = for use with oxyg NOTE: the 0X2 suffix mu		_											

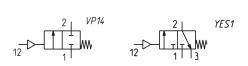
Series 8 pneumatic cartridge valve - 2/2-way NC and 3/2-way NC





For 2/2-way (pneumatic symbol VP14) or 3/2-way (pneumatic symbol YES1) function, see the seat dimensioning in the next pages.

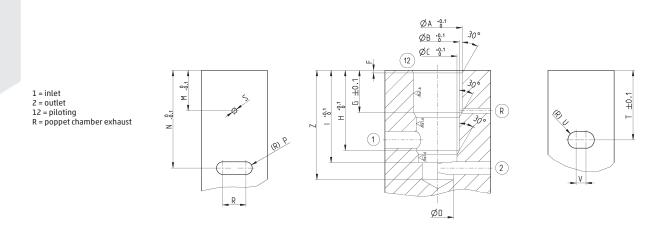




Mod.	Function	Orifice Ø (mm)	kv (l/min)	Min ÷ max pressure (bar)	Min ÷ max pilot pressure (bar)	Body material	A Ø (mm)	B (mm)
810C5100-F132-OX2	2/2 - 3/2 NC	5.0	6.5	0 ÷ 6	3 ÷ 6	brass	10	26.7
820C5100-G73B-OX2	2/2 - 3/2 NC	6.6	12.5	0 ÷ 6	3 ÷ 6	PPS	14.5	30.3
820C5100-G732-OX2	2/2 - 3/2 NC	6.6	12.5	0 ÷ 6	3 ÷ 6	brass	14.5	30.3
830C5100-K13B-OX2	2/2 - 3/2 NC	9.0	23	0 ÷ 6	3 ÷ 6	PPS	22	34.8
830C5100-K132-OX2*	2/2 - 3/2 NC	9.0	23	0 ÷ 6	3 ÷ 6	brass	22	34.8

*On request pressure 0 ÷ 8 bar

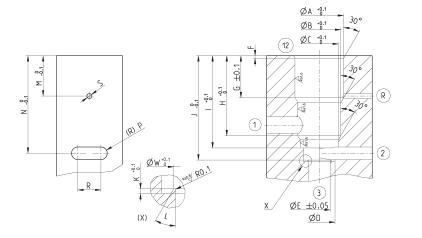
Series 8 pneumatic cartridge valve - 2/2-way NC - valve seat dimensions

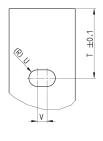


SERIE	S 8																
Size	А	В	С	D	F	G	Н	I	М	Ν	Р	R	S	Т	U	V	Z
1	10.4	9.7	9	8.2	0.8	14.5	20.7	25	13.2	26.2	1.5	5	1.5	19.1	1.5	5	30
2	14.65	12.95	11.55	9.5	0.8	12.8	24.2	27.9	12.2	29.3	1.9	7	1.5	20.5	2.5	4	33
3	22.1	20.6	19.6	16.2	0.5	15	28.7	33.4	12.5	37.1	4	4.4	2.5	24.8	3.75	5	41

Series 8 pneumatic cartridge valve - 3/2-way NC - valve seat dimensions

1 = inlet 2 = outlet 3 = exhaust 12 = piloting R = poppet chamber exhaust





SERIE	S 8																				
Size	А	В	С	D	E	F	G	Н	I	J	К	L	м	N	Р	R	S	Т	U	V	W
1	10.4	9.7	9	8.2	5	0.8	14.5	20.7	25	28	0.3	45	13.2	26.2	1.5	5	1.5	19.1	1.5	5	5.4
2	14.65	12.95	11.55	9.5	6.6	0.8	12.8	24.2	27.9	31.55	0.5	45	12.2	29.3	1.9	7	1.5	20.5	2.5	4	7
3	22.1	20.6	19.6	16.2	9	0.5	15	28.7	33.4	38.05	1	60	12.5	37.1	4	4.4	2.5	24.8	3.75	5	10