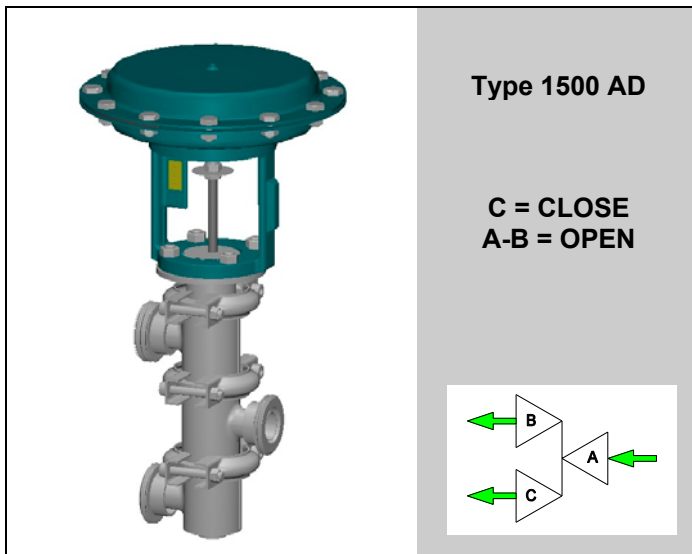


THREE WAY DIVERTING CONTROL VALVES PED 97/23/CE Art.3 Section.3



TYPE 1500 AD

Normally closed port "C" on air failure

DESCRIPTION

The 1500 "HYGIENIC" pneumatic control valves are with three way diverting body with revolving connections. They are suggested for modulating service in food and pharmaceutical where very high levels of flexibility and hygienic conditions are normally required. The three way diverting control valves are with one inlet port and two outlet ports with fluid opens. Modulating plug suitable for control of virtually all line media. Compact construction assembled with "UNIWORLD" multisprings pneumatic actuator having 3 - 15 psi ...6 - 18 psi... 6 - 30 psi standard control signals. On request they can be equipped with a pneumatic or electro-pneumatic pilot positioner.

SIZES : from DN 15 to DN 100

BODY CONNECTIONS :

- Smooth welding caps according to DIN (Standard) A316 L
- Male tapped according to DIN 11851 A316L
- Female screwed according to DIN 11851 A316L
- Complete union according to DIN 11851 A316L
- Snap - clamp system according to DIN 405 A316L
- Flanged UNI 2277/78 PN 10-16 A316L

MATERIALS OF BODY GROUP :

- Stainless steel AISI 316 L - X2 Cr Ni Mo 1712 PN 10
Polished version or satin version

PLUG :

- PL = linear class IV°
- On request reduced bores and microflow

BONNET : Standard for temperature from -5 to + 160 °C

PACKING : N° 2 "O" rings FPM 70 ≤ 160°C

TECHNICAL CHARACTERISTICS OF PNEUMATIC ACTUATOR:

- Actuator : diaphragm type
- Control signals : 3-15 psi ...6-18 psi ...6-30 psi
- Max air supply pressure : 35 psi (2,5 bar)
- Ambient temperature : -20 ... +70 °C
- Painted actuator casing mat. : Fe P11
- S.S. actuator casing material : Stainless steel AISI 304
- Diaphragm material : EPDM 70
- Painted yoke material : GGG 50
- S.S. yoke material : Stainless steel CF8 (AISI 304)
- Pneumatic connections : ISO 7 Rp - 1/8"

MAX WORKING CONDITIONS :

- Max inlet pressure and temperature : 10 bar -15°C...+ 160°C
- Valve sizing : see leaflet 100/VP
- Rangeability : see leaflet GRAFICI/I

ON REQUEST :

- Soft viton insert ≤160°C classe VI°
- Reduced bores (see below table)
- Pneumatic Pilot Positioner 3-15 psi ... 3-9 psi ... 9-15 psi
- Electro pneumatic pilot positioner 4-20 mA...4-12 mA...12-20 mA
- Air filter regulator
- Proximity limit switches
- 3-way solenoid valve
- Top - work manual handwheel

CV = american unit (flowrate in US GPM With 1 psi of differential pressure)

Kv = metric unit (flowrate in m3/h with 1 bar of differential pressure)

Plug Full bore	DN 15	DN 20	DN 25	DN 32	DN 40	DN 50	DN 65	DN 80	DN 100	
	Ø 1/2"	Ø 3/4"	Ø 1"	Ø 1.1/4"	Ø 1.1/2"	Ø 2"	Ø 2.1/2"	Ø 3"	Ø 4"	
PL	CV	5	8	13	18	26	45	72	105	160
	KV	4.26	6.82	11.08	15.34	22.15	38.34	61.34	89.46	136.32
Reduced bore*	n.a.	1/2"	1/2" 3/4"	3/4" 1"	1" 1.1/4"	1.1/4" 1.1/2"	1.1/2" 2"	2" 2.1/2"	2.1/2" 3"	

n.a. = not applicable * CV and KV values are referred to the selected diameter and plug time (PL only)

