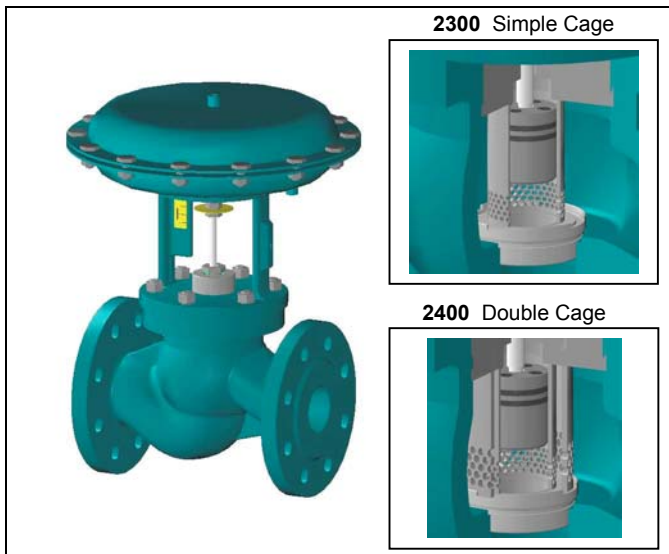


SINGLE SEAT TWO WAY CONTROL VALVES – LOW NOISE CE



TYPE **2300 AD** Simple Cage

TYPE **2400 AD** Double Cage

Normally open – air closes

Face-to-face EN 558-1 (DIN 3202)

DESCRIPTION

The "UNIWORLD" series type 2300/2400 AD are equipped with DIN "straight-through" pattern bodies with UNI / DIN flanges.

Modulating balanced piston plug (low-noise), sliding in a single or double cage for control of virtually all line media.

Compact construction assembled with multisprings pneumatic actuator having 3-15 psi ... 6-30 psi standard control signals.

On request can be equipped with a pneumatic or electro-pneumatic pilot positioner.

SIZES : from DN 65 to DN 100

BODY CONNECT. : FLANGED UNI 2223 – DIN 2501 PN16 PN40

MATERIALS OF BODY GROUP (1) :

- **Cast iron EN-GJL-250 UNI EN 1561 PN 16 ANSI 150 JIS 10**
AISI 316 st. st. trim - C40 nickel plated steel bonnet
- **Carbon steel GS-C25 (1.0619) PN 16 ... PN 40**
AISI 316 st. st. trim - C40 nickel plated steel bonnet
- **Stainless steel AISI 316 CF8M (1.4408) PN 16 ... PN 40**
AISI 316 st. st. trim – AISI 316 st. st. bonnet

PLUG :

- **SIMPLE CAGE** = linear class IV°
- **RANGEABILITY DN 65/100** = 1/100

BONNET (2) :

- Standard : -5 to +200 °C
- Finned : > 200 °C
- Extended : below -5 °C
- Bellows sealed : for thermal oil or hazardous media with (PN 16 - 25 - 40) standard safety gland arrangement

GLAND ARRANGEMENT (PACKING) (3) with safety "0-rings" :

- PTFE 100% for temperatures ≤ 150 °C
- PTFE 85% + GRAPHITE 15% for temperatures ≤ 200 °C
- PURE GRAPHITE 100% for temperatures from 200° to 400 °C to be used with finned bonnet

CV = american unit (flowrate in USGPM with 1 psi of differential pressure)

TECHNICAL CHARACTERISTICS OF PNEUMATIC ACTUATOR :

- Actuator : diaphragm type
- Control signals : 3-15 psi ... 6-30 psi
- Max air supply pressure : 35 psi (2,5 bar)
- Ambient temperature : -20 ... +70 °C
- Actuator casings material : Fe P11 carbon steel
- Diaphragm material : EPDM 70
- Yoke material : GGG 50 Spheroidal cast iron
- Pneumatic connections : ISO 7 Rp – 1/8"

MAX WORKING CONDITIONS :

- Max inlet pressure and temperature : see leaflet n° 101/VP
- Valve sizing : see leaflet n° 100/VP

ON REQUEST :

- PTFE/GR soft seal ≤ 190°C class VI°
- PTFE soft seal ≤ 150°C class VI°
- Lapping on seat and plug class V°
- Stellite (degree 6°) on seat and plug and guide bush
- Reduced bore (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
- Lubrificator on finned bonnet for temperatures ≥ 250 °C
- Top-work manual handwheel

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

Plug	DN 65		DN 80		DN 100	
	Ø 2.1/2"		Ø 3"		Ø 4"	
Full bore	Ø 2.1/2"		Ø 3"		Ø 4"	
CV	56.79		75.31		129.91	
KV	48.95		64.91		111.98	
CV	(Ø 2") *	40.82	(Ø 2.1/2")	56.79	(Ø 3")	75.31
KV	(Ø 2") *	35.19	(Ø 2.1/2")	48.95	(Ø 3")	64.91
CV	(Ø 1.1/2") *	24.15	(Ø 2") *	40.82	(Ø 2.1/2")	56.79
KV	(Ø 1.1/2") *	20.82	(Ø 2") *	35.19	(Ø 2.1/2")	48.95
CV	(Ø 1.1/4") *	16.77	(Ø 1.1/2") *	24.15	(Ø 2") *	40.82
KV	(Ø 1.1/4") *	14.46	(Ø 1.1/2") *	20.82	(Ø 2") *	35.19

* Integral plug version with simple cage only (see leaflet 2200AD/E)

CONFLOW s.p.a.

COMPANY
WITH QUALITY SYSTEM
CERTIFIED BY DNV
ISO 9001

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