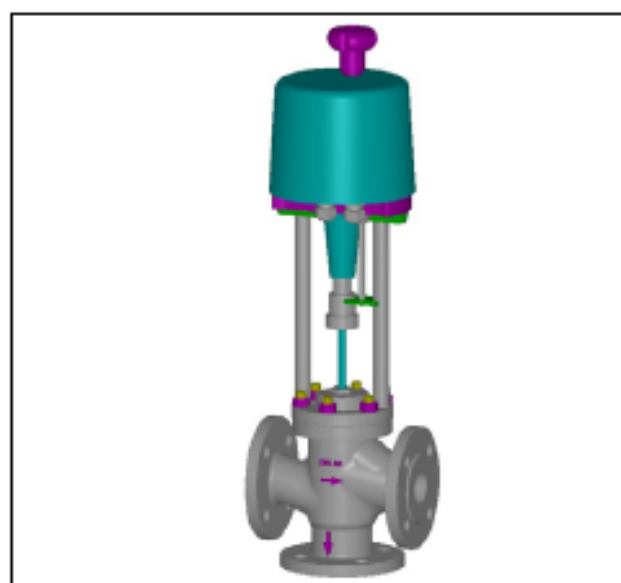


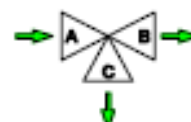
THREE-WAY DIVERTING CONTROL VALVES CE



TYPE 2700 EP

with tension opens and closes AB and AC

Face-to-face EN 558-1



DESCRIPTION

The "UNIWORLD" series type 2700 EP are equipped with EN "straight-through" pattern bodies with EN flanges. Type 2700 EP three-way diverting control valves (one inlet port and two outlet ports with fluid opens) have a modulating plug suitable for control of virtually all line media. Compact construction assembled with "made in Germany" linear electric actuator fixed to the body by means of two steel columns. The electric actuator works with standard 3 points modulating control signal or can be equipped with a potentiometer and with a pilot positioner having 0 (4) - 20 mA or 0 (2) - 10 V control signal.

SIZES : from DN 15 to DN 100

BODY CONNECTIONS : flanged EN 1092-1 PN16 ... PN40

MATERIALS OF BODY GROUP (1) :

- Cast Iron EN-GJL-250 UNI EN 1561 PN 16
AISI 316 st. st. trim - C40 nickel plated steel bonnet
- SG Iron DIN 1693 EN-GJS-18LT (GGG 40.3)
AISI 316 st. st. trim - C40 nickel plated steel bonnet
- Carbon steel 1.0619 PN 16 ... PN 40
AISI 316 st. st. trim - C40 nickel plated steel bonnet
- Stainless steel AISI 316 1.4408 PN 16 ... PN 40
AISI 316 st. st. trim - AISI 316 st. st. bonnet

PLUG :

- PL (DN15-20) LV (DN25-100) - linear class IV*
- PT (DN15-20) VPT (DN25-100) - quick lift class IV*

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 "O-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 (flow rate in USGPM with 1 psi of differential pressure)

TECHNICAL CHARACTERISTICS OF ELECTRIC ACTUATOR :

- Standard power supply : 220 V AC
- Degree of protection : IP 65 DIN 40050
- Control signal : 3 points modulating input
- Ambient temperature : -20 ... +60 °C
- Actuator case material : die cast aluminium
- Actuator cover material : polycarbonate
- Manual handwheel : standard included
- Electric connections : cable gland PG13 (2 off)

MAX WORKING CONDITIONS :

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

ON REQUEST :

- Lapping on seat and plug class V*
- Stellite (degree 6°) on seat and plug
- Stellite (degree 6°) on guide bush
- Power supply 24 V DC - 24 V AC - 110 V AC
- Potentiometer 1000 Ohm, simple or double
- Positioner 0 (4)-20 mA ... 0 (2)-10 V, 2 wires, c/w potentiometer
- Card with mechanical limit switches
- Card for 4-20 mA feedback signal (2 wires system)
- IP 67 DIN 40050 protection
- Heating resistor for ambient temperature up-to -30 °C

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

Plug	DN 15	DN 20	DN 25	DN 32	DN 40	DN 50	DN 65	DN 80	DN 100
Full bore	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	3.4	6.6	10	23.4	26	36.4	72.7	123.8
	KV	2.9	5.7	8.6	20.1	24.1	31.4	62.7	106.7
PT	CV	3.4	6.6	13.8	30.3	38.7	52	107.3	175.4
	KV	2.9	5.7	11.9	26.1	33.4	44.8	92.5	151.2
Reduced bore *	n.a.	1/2"	1/2"	3/4"	3/4"	1"	1"	1 1/4"	1 1/2"

n.a. = not applicable

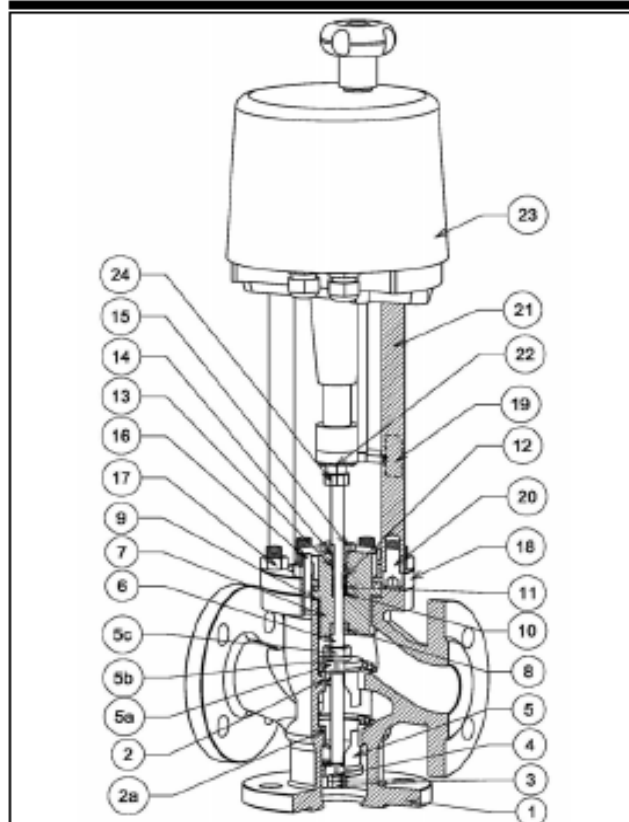
* CV and KV values are referred to the selected diameter and plug type (PL/LV only)

Maximum permissible pressure drops in Kg/cm² (fluid opens) with alive motor
Power and Current absorbed – Speed in second for total stroke in mm

Actuator Type		NOMINAL DIAMETER								
Power absorbed		DN 15	DN 20	DN 25	DN 32	DN 40	DN 50	DN 65	DN 80	DN 100
PSL201	Kg/cm ²	50	31	18	12	8	4,5	-	-	-
50/60 Hz	speed sec	44	44	44	76	76	76	-	-	-
26 VA	stroke mm	11	11	11	19	19	19	-	-	-
PSL202	Kg/cm ²	-	62	36	24	16	9	6	4	2,2
50/60 Hz	speed sec	-	22	22	38	38	38	56	56	56
37/40 VA	stroke mm	-	11	11	19	19	19	28	28	28
PSL204	Kg/cm ²	-	-	85	55	38	22	13,5	9,5	5,2
50/60 Hz	speed sec	-	-	22	38	38	38	56	56	56
44/47 VA	stroke mm	-	-	11	19	19	19	28	28	28
PSL210	Kg/cm ²	-	-	-	-	94	54	33,5	23,5	13
50/60 Hz	speed sec	-	-	-	-	38	57	84	84	84
72/68 VA	stroke mm	-	-	-	-	19	19	28	28	28

1. The values given are referred to the force of the actuator and they can be used within the limit of the body rating.
2. Electric actuators suitable for operating force up-to 25 kN are available on request.

COMPONENTS LIST and MATERIALS



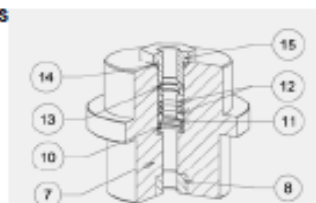
COMPONENTS LIST

- Body
- Upper seat
- Lower seat
- Lower plug locknuts
- Lower spring washer
- Lower plug
- Upper plug
- Upper spring washer
- Upper plug locknuts
- Stem
- Bonnet
- Guide bush
- Body gasket
- Packing spring
- Packing washer
- Packing rings
- Internal "O" ring
- External "O" ring
- Packing adjusting nut
- Stud-bolts
- Body locknuts
- Upper bonnet flange
- Travel indicator plate
- Column fixing screws
- Actuator columns
- Flange + locking screws
- Electric actuator
- Stem nut

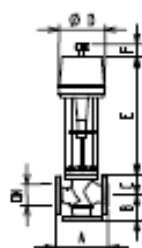
MATERIALS

- See note (1) at page 1
- AISI 316 stainless steel
- AISI 316 stainless steel
- AISI 304 stainless steel
- AISI 304 stainless steel
- AISI 316 stainless steel
- AISI 316 stainless steel
- AISI 304 stainless steel
- AISI 304 stainless steel
- AISI 316 stainless steel
- See notes (1)(2) at page 1
- AISI 304 stainless steel
- Europil VWS 3640 or PTFE on request
- AISI 302 stainless steel
- AISI 304 stainless steel
- See note (3) at page 1
- Viton FPM 70
- Viton FPM 70
- AISI 303 stainless steel
- Galvanized steel
- DIN 934 galvanized steel
- C40 nickel plated steel
- Polycarbonate
- DIN 912 galvanized steel
- AISI 430 stainless steel
- A2 stainless steel
- See technical data at page 1
- DIN 936 galvanized steel

BONNET DETAILS



DIMENSIONS in mm.



BODY GROUP

DN	Ø	A	B	C - Bonnet		
				Std	Finned	Bellows
15	1/2"	130	70	49	181	181
20	3/4"	150	80	58	190	190
25	1"	160	85	68	200	200
32	1 1/4"	180	100	70	202	202
40	1 1/2"	200	105	82	214	214
50	2"	230	120	86	218	218
65	2 1/2"	290	130	111	309	309
80	3"	310	140	135	333	333
100	4"	350	150	160	363	363

ACTUATOR

PSL201 - PSL202 PSL204 - PSL210		
Ø D	E	F
176	410	50
176	410	50
176	410	50
176	410	50
176	410	50
176	410	50
176	410	50
176	417	50
176	417	50
176	419	50