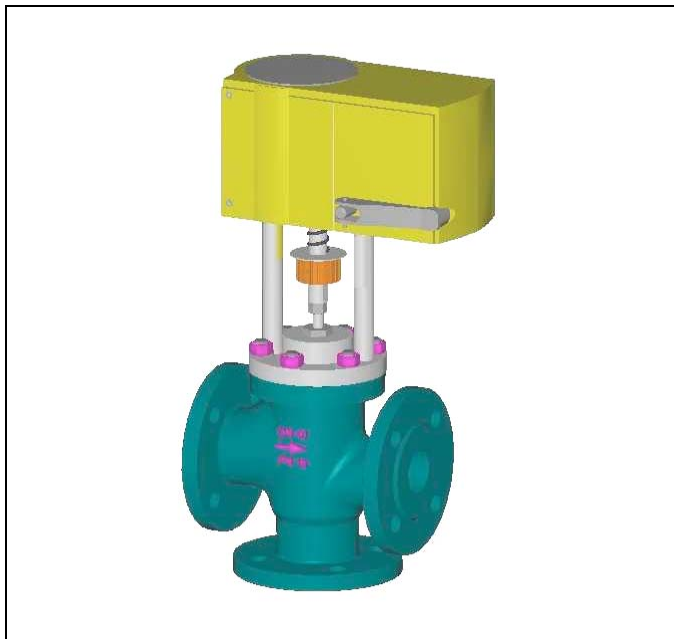


THREE WAY MIXING CONTROL VALVES 

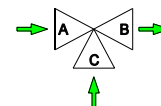


TYPE 2600 EPR

Without supply closes "A"

With supply opens and closes AB and CB

Face to face EN 558-1



DESCRIPTION

The "UNIWORLD" series type 2600 EPR are equipped with EN "straight-through" pattern bodies with EN flanges and an electric powered actuator which closes without power (without power closes "A").

Type 2600 EP three-way mixing control valves (two inlet ports and one outlet port with fluid opens) have a modulating plug suitable for control of virtually all line media.

Compact construction assembled with a linear spring return electric actuator fixed to the body by means of two steel columns.

The electric actuator works with standard 3 points modulating or 4 - 20 mA or 0 - 10 V control signal.

SIZES : from DN 15 to DN 100

BODY CONNECTIONS : flanged EN 1092-1 PN16 PN40

TIPI DI MATERIALE GRUPPO CORPO (1) :

- **Cast Iron EN-GJL-250 UNI EN 1561 PN 16**
AISI 316 st.st. trim - C40 nickel plated steel bonnet
- **SG Iron EN-GJS400-18LT (GGG 40.3) PN 16**
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 bonnet

PLUGS :

- **EQP (DN15-50) EQV (DN65-100)** = equal percentage class. IV°
- **PL (DN15-50) LV (DN65-100)** = linear classe IV°
- **PT (DN15-50) VPT (DN65-100)** = quick lift cl. IV°

TIPI DI BONNET (2) :

- Standard for temperatures from -5 to + 200 °C
- Finned for temperatures > 200 °C
- Extended for temperatures < 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 ELECTRIC ACTUATOR :

- Standard supply : 24V AC - 24V DC
- Degree of protection : IP 66 EN 60529
- Control signal : Three points modulating : 4-20 mA : 0-10 V
- Ambient temperature : -10 ... +55 °C
- Actuator case : yellow plastic
- Manual handweel : included std
- Electrical connections : 2 x PG13 not included (connections M20x1.5 n°2 M16x1.5 n°1)

MAX WORKING CONDITIONS :

- Max inlet pressure : see leaflet n° 101/VP
- Valve sizing : see leaflet n° 100/VP
- Rangeability : see leaflet GRAFICI/I

ON REQUEST :

- Soft seal PTFE/GR ≤190°C class VI°
- Soft seal PTFE ≤150°C class VI°
- Lapping plug-seat class V°
- Lapping gr. 6 on seat, plug, bush
- Reduced bores (see table CV e KV)
- Supply 220 V AC or 110 V

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

Full bore plug	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	3.4	6.6	10	23.4	28	36.4	72.7	89.3	123.8					
	KV	2.9	5.7	8.6	20.1	24.1	31.4	62.7	77.0	106.7					
PT	CV	3.4	6.6	13.8	30.3	38.7	52	99.6	116.2	162.4					
	KV	2.9	5.7	11.9	26.1	33.4	44.8	85.8	100.1	140					
Red. bore	n.a.	1/2"	1/2"	3/4"	3/4"	1"	1"	1.1/4"	1.1/4"	1.1/2"	2"	2"	2.1/2"	2.1/2"	3"

n.a. = not applicable

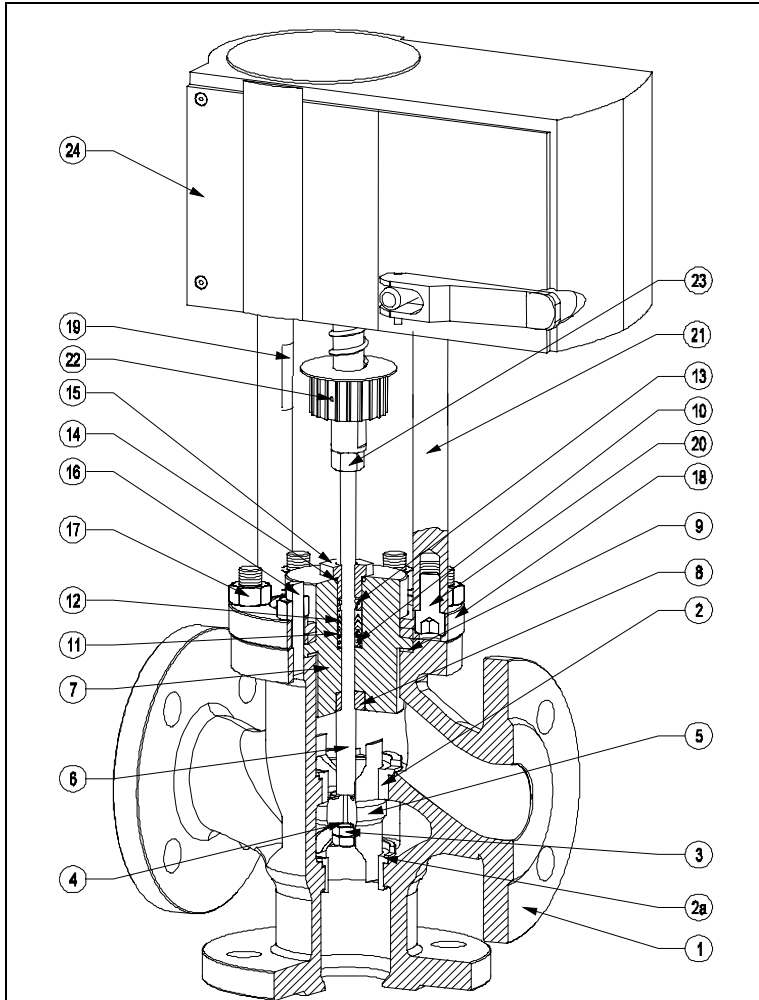
* CV and KV values are referred to the selected diameter and plug type (PL/LV only)

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 Power absorbed	DIAMETER									
	DN 15	DN 20	DN 25	DN 32	DN 40	DN 50	DN 65	DN 80	DN 100	
Kg/cm ²	102.0	64.0	36.0	23.0	16.0	9.3	5.8	4.0	2.3	
Speed sec	22	22	22	38	38	38	56	56	56	
Stroke mm	11	11	11	19	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.

COMPONENTS LIST and MATERIALS



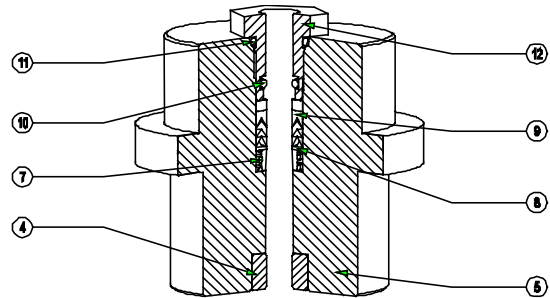
COMPONENTS

1. Body
2. Upper seat
- 2a. Lower seat
3. Plug locknuts
4. Plug washer
5. Plug
6. Steam
7. Bonnet
8. Bush
9. Body gasket
10. Packing spring
11. Packing washer
12. Packing rings
13. Internal "O" ring
14. External "O" ring
15. Packing adjusting nut
16. Stud-bolts
17. Body locknuts
18. Upper bonnet flange
19. Travel indicator plate
20. Columns fixing screws
21. Columns
22. Grub screw
23. Stem locknut
24. Actuator

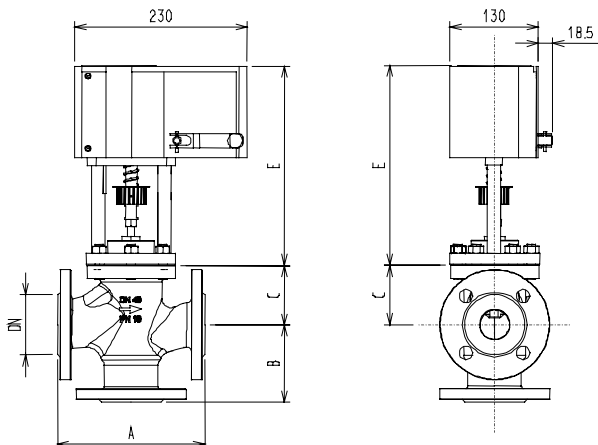
MATERIALS

1. Vedi nota (1) I° pag.
2. Acc. Inox AISI 316
- 2a. Acc. Inox AISI 316
3. Stainless steel AISI 304
4. Stainless steel AISI 304
5. Stainless steel AISI 316
6. Stainless steel AISI 316
7. See note (1) (2) I° pag.
8. Stainless steel AISI 304
9. Europil WS 3640 or PTFE
10. Stainless steel AISI 302
11. Stainless steel AISI 304
12. See note (3) I° pag.
13. Viton FPM 70
14. Viton FPM 70
15. Stainless steel AISI 303
16. Galvanized steel
17. Galvanized steel DIN 934
18. C40 polycarbonate
19. Galvanized steel DIN 912
20. Stainless steel AISI 430
21. Galvanized steel DIN 914
22. Galvanized steel 934
23. Galvanized steel 934
24. See I° pag.

BONNET DETAILS



DIMENSIONS in mm.



DN	Ø	A	B	E	C - Bonnet		
					Std	finned	bellows
15	1/2"	130	70	280	49	181	181
20	3/4"	150	80	280	58	190	190
25	1"	160	85	280	68	200	200
32	1.1/4"	180	100	280	70	202	202
40	1.1/2"	200	105	280	82	214	214
50	2"	230	120	280	86	218	218
65	2.1/2"	290	130	280	111	309	309
80	3"	310	140	280	135	333	333
100	4"	350	150	280	160	363	363

Specifications given are only indicative and not binding for the manufacturer who reserve the right to carry-out any modification deemed necessary without prior notice.