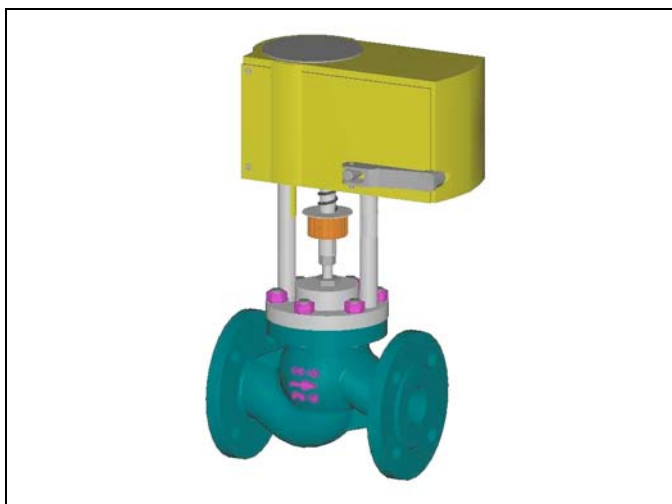


SINGLE SEAT TWO WAY ON-OFF VALVES 



TYPE 2100 EPR

Closes without supply

Face to face EN 558-1

DESCRIPTION

The "UNIWORLD" series type 2100 EPR are equipped with DIN "straight-through" pattern bodies with EN flanges and an electric powered actuator which closes without power. Quick opening plug with both standard metal seal (leakage class V) and soft seal for perfect tightness (leakage class VI). Compact construction assembled with a linear spring return electric actuator fixed to the body by means of two steel columns. The standard on-off signal is a relay contact to open and close the valve.

SIZES : from DN 15 to DN 100

BODY CONNECTIONS : flanged EN 1092-1 PN16 PN40

BODY GROUP MATERIALS (1) :

- **Cast Iron EN-GJL-250 UNI EN 1561 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

PLUG :

- **PT** – metal seal class V°
- **PT/PTFE** – soft seal class VI° for temp. ≤ 150 °C
- **PT/PTFE/GR** – soft seal class VI° for temp. ≤ 190 °C

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

TECHNICAL CHARACTERISTICS OF ELECTRIC ACTUATOR :

- Standard supply : 24V AC – 24V DC
- Degree of protection : IP 66 EN 60529
- On – off signal : Three points on-off : 4-20 mA : 0-10 V
- Ambient temperature : -10 ... +55 °C
- Actuator case : yellow plastic
- Manual handwheel : included
- 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

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

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

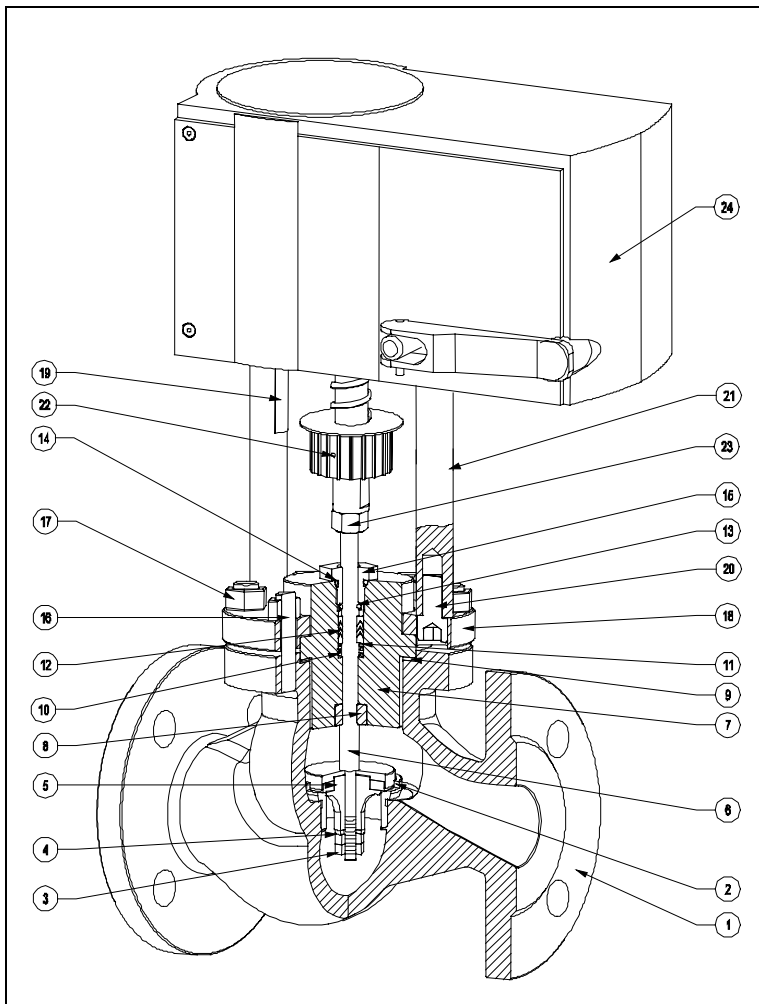
full bores plugs	DIAMETER									
	DN 15	DN 20	DN 25	DN 32	DN 40	DN 50	DN 65	DN 80	DN 100	
	Ø 1/2"	Ø 3/4"	Ø 1"	Ø 1.1/4"	Ø 1.1/2"	Ø 2"	Ø 2.1/2"	Ø 3"	Ø 4"	
PT	CV	3.4	6.6	12.1	19	24	52.7	107.3	129.3	175.4
	KV	2.9	5.7	10.4	16.4	20.7	45.3	92.5	111.5	151.2

**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	65.0	36.0	23.0	16.0	9.3	5.8	4.0	2.3	
Speed sec	22	22	22	38	38	38	38	38	38	
Stroke mm	11	11	11	19	19	19	19	19	19	

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



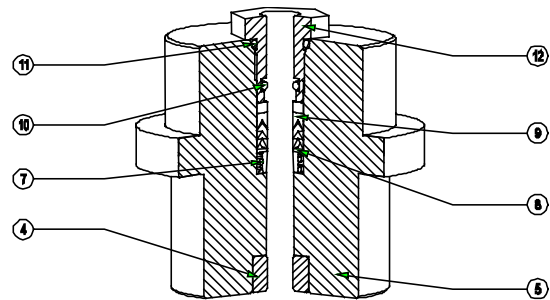
COMPONENTS

1. Body
2. 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

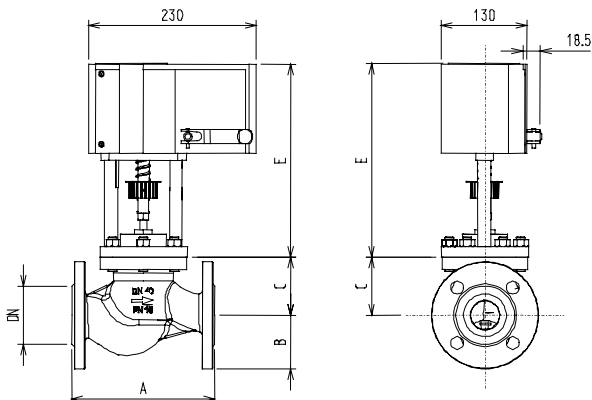
MATERIALS

1. See note (1) 1° pag.
2. Stainless steel 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) 1° 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) 1° 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 1° pag.

BONNET DETAILS



DIMENSIONS in mm.



DN	Ø	A	B	E	C - Bonnet		
					Std	finned	bellows
15	1/2"	130	47.5	280	49	181	181
20	3/4"	150	52.5	280	58	190	190
25	1"	160	57.5	280	68	200	200
32	1.1/4"	180	70	280	70	202	202
40	1.1/2"	200	75	280	82	214	214
50	2"	230	82.5	280	86	218	218
65	2.1/2"	290	92.5	280	111	309	309
80	3"	310	100	280	135	333	333
100	4"	350	118	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.