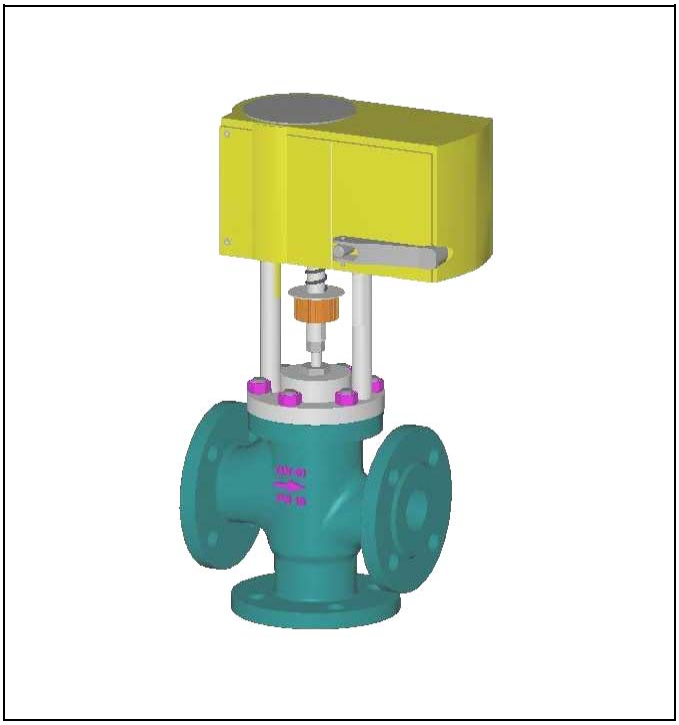
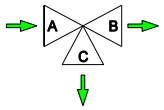
THREE WAY DIVERTING CONTROL VALVES CE



TYPE 2700 EPR

Without supply closes "B"
DN 15 – DN 20 actuator AVF234SF132
DN 25 – DN 100 actuator AVF234SF232

Face to face EN 558-1



DESCRIPTION

The "UNIWORLD" series type 2700 EPR are equipped with EN "straight-through" pattern bodies with EN flanges and and an electric powered actuator which closes without power (without power closes "B").
Type 2700 EPR 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 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

BODY GROUP MATERIAL (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 :

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

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

- 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
- 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

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 bore plug		DN 15 Ø 1/2"	DN 20 Ø 3/4"	DN 25 Ø 1"		DN 32 Ø 1.1/4"		DN 40 Ø 1.1/2"		DN 50 Ø 2"		DN 65 Ø 2.1/2"		DN 80 Ø 3"		DN 100 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		107.3		129.3		175.4	
	KV	2.9	5.7	11.9		26.1		33.4		44.8		92.5		111.5		151.2	
Red.bores*		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 type (PL/LV only)

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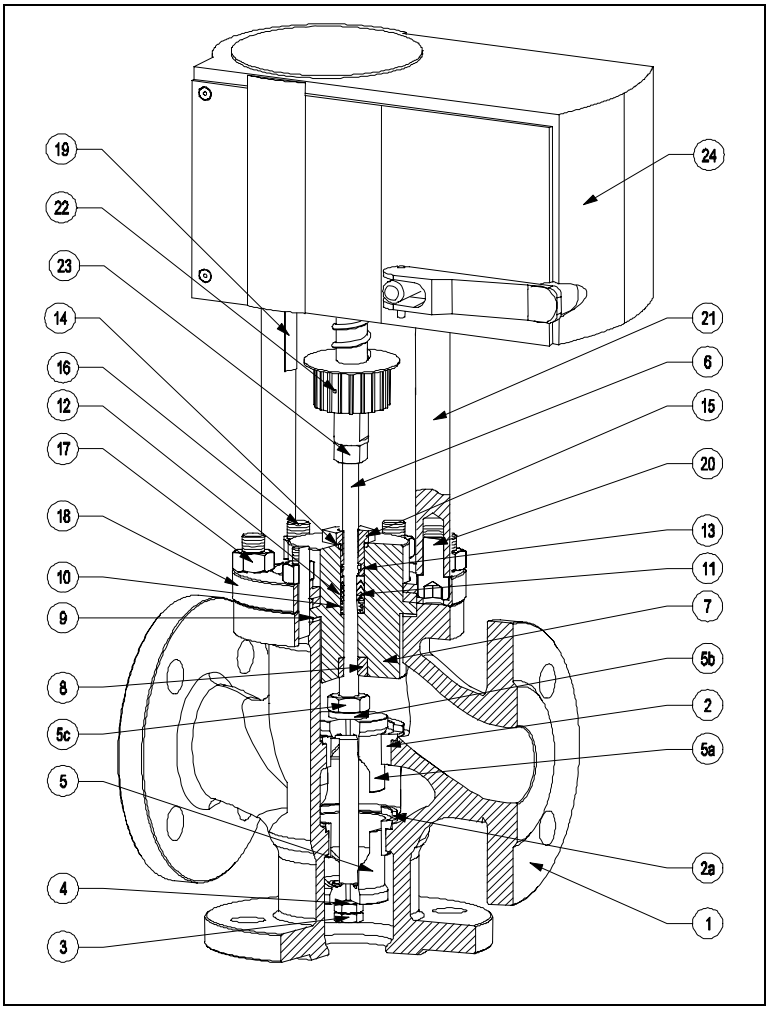
Maximum permissible pressure drops in Kg/cm2 (fluid opens) with alive motor Power and Current absorbed – Speed in second for total stroke in mm

Actuator Type / Power absorbed		DIAMETER								
		DN15	DN20	DN25	DN32	DN40	DN50	DN65	DN80	DN100
AVF234SF132 18 VA	Kg/cm2	**102.0**	**64.0**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
	Speed sec	22	22	-	-	-	-	-	-	-
	Stroke mm	11	11	-	-	-	-	-	-	-
AVF234SF232 18 VA	Kg/cm2	-	-	**36.0**	**23.0**	**16.0**	**9.3**	**5.8**	**4.0**	**2.3**
	Speed sec	-	-	22	38	38	38	56	56	56
	Stroke mm	-	-	11	19	19	19	28	28	28

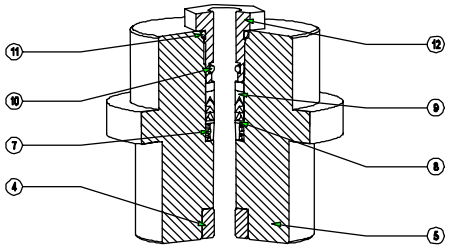
1. The values given are referred to the force of the actuator and they can be used within the limit of the body rating.

COMPONENTS LIST and MATERIALS

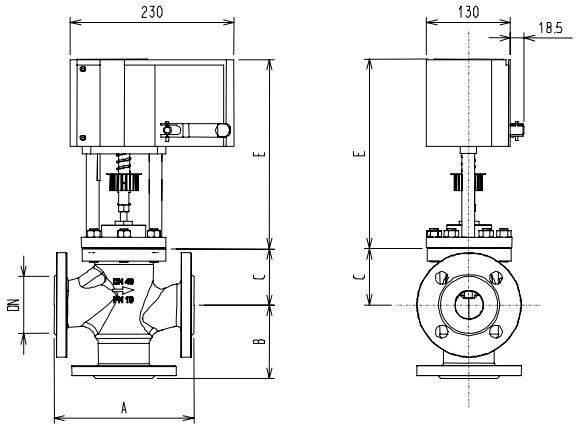


	COMPONENTS	MATERIALS
1.	Body	See note (1) I° pag.
2.	Upper seat	Stainless Steel AISI 316
2a.	Lower seat	Stainless Steel AISI 316
3.	Plug locknuts	Stainless Steel AISI 304
4.	Plug washer	Stainless Steel AISI 304
5.	Lower plug profile	Stainless Steel AISI 316
5a.	Upper plug profile	Stainless Steel AISI 316
5b.	Upper plug washer	Stainless Steel AISI 304
5c.	Upper plug locknut	Stainless Steel AISI 304
6.	Stem	Stainless Steel AISI 316
7.	Bonnet	See note (1) (2) I° pag.
8.	Bush	Stainless Steel AISI 304
9.	Body gasket	Europil WS 3640 or PTFE
10.	Packing spring	Stainless Steel AISI 302
11.	Packing washer	Stainless Steel AISI 304
12.	Packing rings	See note (3) I° pag.
13.	Internal “O” ring	Viton FPM 70
14.	External “O” ring	Viton FPM 70
15.	Packing adjusting nut	Stainless Steel AISI 303
16.	Stud-bolts	Galvanized steel
17.	Body locknuts	Galvanized steel DIN 934
18.	Upper bonnet flange	C40
19.	Travel indicator plate	Polycarbonate
20.	N° 2 screws columns for actuator	Galvanized steel DIN 912
21.	Columns	Stainless Steel AISI 430
22.	Grub screw	Galvanized steel DIN 914
23.	Stem locknut	Galvanized steel DIN 934
24.	Actuator	See I°pag

BONNET DETAIL



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 manifacturer who reserve the right to carry-out any modifications deemed necessary without prior notice. **All data sheets by CONFLOW SpA, are available last update on our internet web site www.conflow.it.**