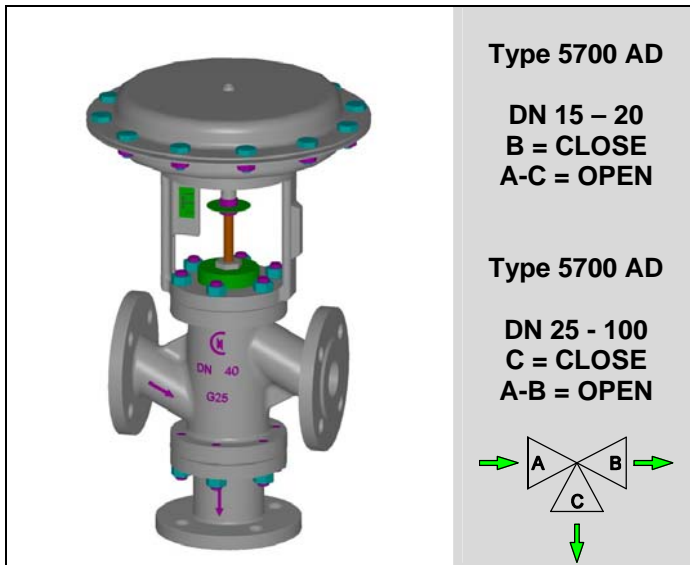


THREE-WAY DIVERTING CONTROL VALVES

PED 2014/68/UE / ATEX 2014/34/UE / MACHINERY DIRECTIVE 2006/42/CE



Type 5700 AD

DN 15 – 20
B = CLOSE
A-C = OPEN

Type 5700 AD

DN 25 - 100
C = CLOSE
A-B = OPEN

TYPE 5700 AD

Normally closed port "B" DN15-20
Normally closed port "C" DN25-100

Face-to-face ASME / ANSI B16.10

DESCRIPTION

The "UNIWORLD" series type 5700 AD are equipped with "straight-through" pattern bodies having ANSI face-to-face dimensions and EN – ANSI – JIS flanges.

Type 5700 AD 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 multisprings pneumatic actuator having 3-15 psi ... 6-18 psi ... 6-30 psi standard control signals

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

SIZES : from DN 15 to DN 100

BODY CONNECTIONS : flanged EN 1092-1 PN16 PN40
flanged ANSI B 16.5 150 RF 300 RF
flanged JIS B2220 10K 20K

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 ASTM A216 WCB PN16/40 ANSI 150/300 JIS10/20**
AISI 316 st. st. trim – C40 nickel plated steel bonnet
- **Stainless steel AISI 316 CF8M PN16/40 ANSI 150/300 JIS10/20**
AISI 316 st. st. trim – AISI 316 st. st. bonnet

PLUGS :

- **PL (DN15-20) LV (DN25-100)** = linear classe IV°
- **PT (DN15-20) VPT (DN25-100)** = quick lift cl. IV°

TIPI DI BONNET (2) :

- Standard : from -5 to + 200 °C
- Finned : > 200 °C
- Extended : < 5 °C
- Bellows sealed for thermal oil or hazardous media with PN16-25-40 standard safety gland arrangement

GLAND ARRANGEMENT (PACKING) (3) with safety "O" rings:

- PTFE 100% for temperatures ≤150 °C
- PTFE 85% caricato GRAPHITE 15% for temp. ≤ 200 °C
- PURE GRAPHITE 100% per temp. 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 ... 6-18 psi ... 6-30 psi
- Max air supply pressure : 35 psi (2,5 bar)
- Ambient temperature : -20 ... +70 °C *see on request
- Actuator casings material : Fe P11 carbon steel
- Diaphragm material : EPDM 70
- Yoke material : EN-GJS500-7 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
- Rangeability : see leaflet n° GRAFICI/I

ON REQUEST :

- PTFE/GR soft seal for ≤190°C class VI°
- PTFE soft seal for ≤150°C class VI°
- Lapping on seat and plug class V°
- Stellite degree 6° on seat, plug and 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
- ATEX 94/9/CE dedicated configuration according to the fluid
- Kit diaphragm and actuator seals certified for a.t. ≥ - 50 °C

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

Otturatori		DN15	DN 20	DN25	DN32	DN40	DN50	DN65	DN80	DN100
		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"
LV	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
Reduced bore *		n.a.	1/2"	3/4"	1"	1 1/4"	1 1/2"	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)

CONFLOW s.p.a.

COMPANY WITH
QUALITY SYSTEM
CERTIFIED BY DNV GL
= ISO 9001 =

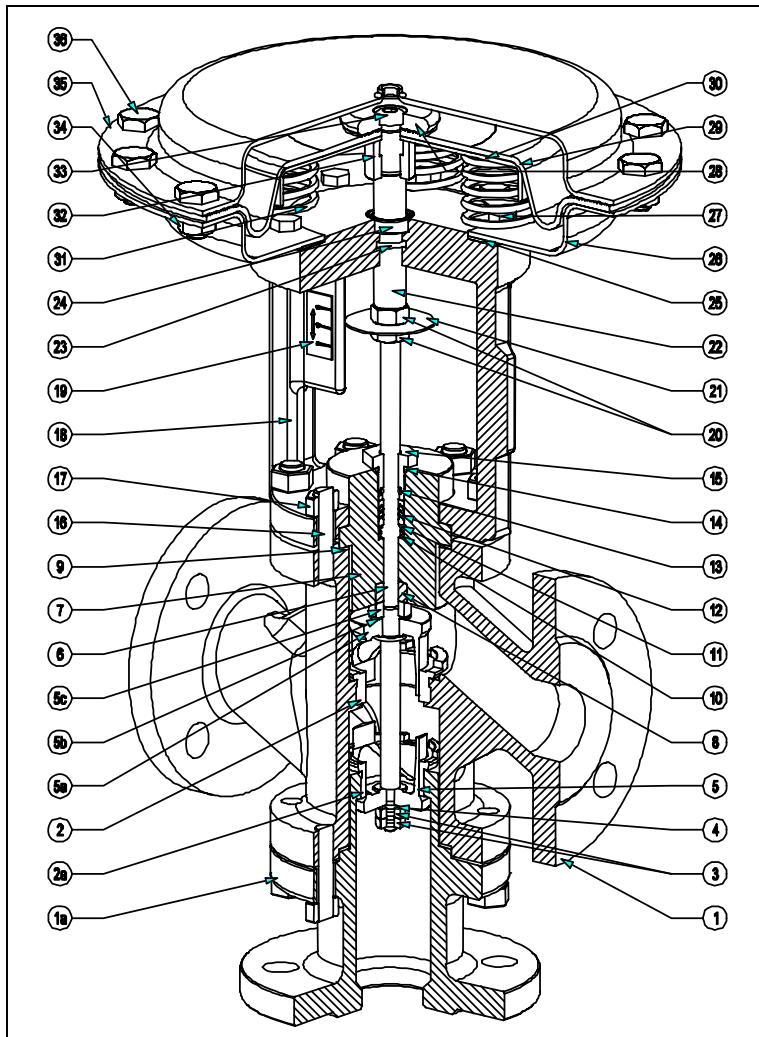
Via Lecco, 69/71
20864 AGRATE BRIANZA (MB)
Tel. 039/651.705 - 650.397
Fax 039/654.018
www.conflow.it

Maximum permissible pressure drops in Kg/cm2 (fluid opens) Strokes in mm – Signals in psi

Type	Signal	DN15	DN20	DN25	DN32	DN40	DN50	DN65	DN80	DN100
Actuator	psi	Stroke 11	Stroke 11	Stroke 11	Stroke 19	Stroke 19	Stroke 19	Stroke 28	Stroke 28	Stroke 28
T200	3-15 psi	12	8	5	3	-	-	-	-	-
	6-18 psi	25	16	9	5.2	-	-	-	-	-
	6-30 psi	65	40	22	11	-	-	-	-	-
T250	3-15 psi	27	17	9	6	4	2.4	-	-	-
	6-18 psi	55	34	19	12	8	3	-	-	-
	6-30 psi	110	68	38	20	14.5	7	-	-	-
T310	3-15 psi	-	-	15.5	10	7	3.5	2.5	1.7	0.9
	6-18 psi	-	-	31	20	14	7	4.2	2.8	1.3
	6-30 psi	-	-	62	30	21	12	6.5	4.7	2.6
T400	3-15 psi	-	-	-	14.5	10.5	5	3.8	2.5	1.4
	6-18 psi	-	-	-	29.5	20.5	12	6.7	4	2.8
	6-30 psi	-	-	-	45	31.5	18	16	11	6.3
T500	3-15 psi	-	-	-	24.5	17.5	9.5	5.5	4.2	2.4
	6-18 psi	-	-	-	49	34.5	19.5	12.2	7	4.9
	6-30 psi	-	-	-	75	52.5	30.3	26	16	10.5

1. The values given are referred to the force of actuator and they can be used within the limit of the body rating
2. The actuator DELTA-PI (PRESSURE DROPS with CLOSED VALVE) are obtained without a residual thrust of air into the actuator
3. The actuator DELTA-PI given in the column 6-30 psi are also valid for ON-OFF service with air supply at 30/35 psi

COMPONENTS LIST AND MATERIALS



COMPONENTS LIST

1. Body
- 1a. Stud pipe
2. Upper seat
- 2a. Lower seat
3. Lower plug locknuts
4. Lower spring washer
5. Lower plug
- 5a. Upper plug
- 5b. Upper spring washer
- 5c. Upper plug locknuts
6. Stem
7. Bonnet
8. Guide 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. Yoke
19. Travel indicator plate
20. Position indicator locknuts
21. Position indicator
22. Diaphragm rod
23. "O" ring
24. Airtight
25. Yoke gasket
26. Lower diaphragm casing
27. Diaph. casing internal bolts
28. Diaphragm spacer
29. Diaphragm
30. Diaphragm plate
31. Springs
32. Diaphragm bush
33. Diaphragm locknut
34. Diaphragm casing bolts
35. Upper diaphragm casing
36. Diaphragm casing locknuts

MATERIALS

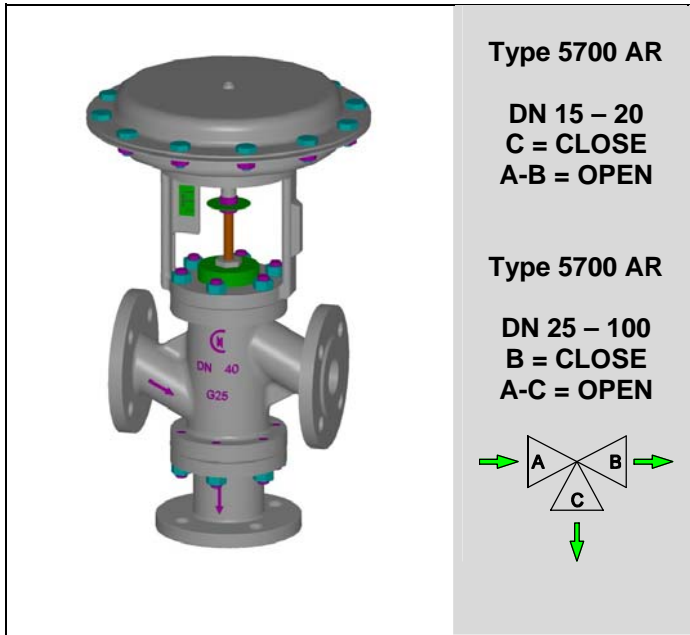
1. See note (1) at page 1
- 1a. C40 carbon steel
2. AISI 316 stainless steel
- 2a. AISI 316 stainless steel
3. AISI 304 stainless steel
4. AISI 304 stainless steel
5. AISI 316 stainless steel
- 5a. AISI 316 stainless steel
- 5b. AISI 304 stainless steel
- 5c. AISI 304 stainless steel
6. AISI 316 stainless steel
7. See note (1)-(2) at page 1
8. AISI 304 stainless steel
9. Europil WS 3640 or PTFE
10. AISI 302 stainless steel
11. AISI 304 stainless steel
12. See note (3) at page 1
13. Viton FPM 70
14. Viton FPM 70
15. AISI 303 stainless steel
16. Galvanized steel
17. DIN 934 galvanized steel
18. GGG50 spheroidal c. iron
19. Polycarbonate
20. DIN 936 galvanized steel
21. Aluminium
22. AISI 303 stainless steel
23. NBR
24. NBR
25. Cork – rubber
26. P11 steel
27. DIN 933 galvanized steel
28. Galvanized steel
29. EPDM 70
30. P01 steel
31. C98 UNI 3823
32. AISI 303 stainless steel
33. ISO 7380 galvanized steel
34. DIN 934 galvanized steel
35. P11 steel
36. DIN 933 galvanized steel

DIMENSIONS in mm.

DN	Ø	A(1)	A(2)	B	C - Bonnet			D	V	V1	Actuator	E	Ø F
					Std	Finned	Bellows						
15	1/2 "	184	190	132	49	181	181	147	166	11	200	70	210
20	3/4 "	184	194	134	58	190	190	147	166	11			
25	1 "	184	197	135	68	200	200	147	166	11	250	70	292
32	1.1/4 "	200	212	134	70	202	202	147	166	19			
40	1.1/2 "	222	235	165	82	214	214	160	166	19	310	95	336
50	2 "	254	267	185	86	218	218	160	166	19			
65	2.1/2 "	276	292	220	111	309	309	160	166	28	400	119	408
80	3 "	298	317	222	135	333	333	160	166	28			
100	4 "	352	368	241	160	363	363	204	166	28	500	119	520

A(1) cast iron = PN16-ANSI150-JIS10K A(2) carbon and st. steel = PN16-PN40-ANSI150-ANSI300-JIS10K - JIS20K
 Specifications given are only indicative and not binding for the manufacturer 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.conflo.it.

THREE-WAY DIVERTING CONTROL VALVES CE PED 2014/68/UE / ATEX 2014/34/UE / MACHINERY DIRECTIVE 2006/42/CE

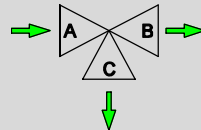


Type 5700 AR

DN 15 – 20
 C = CLOSE
 A-B = OPEN

Type 5700 AR

DN 25 – 100
 B = CLOSE
 A-C = OPEN



TIPO 5700 AR

Normally closed port "C" DN15-20
 Normally closed port "B" DN25-100

Scartamento ASME / ANSI B16.10

Face-to-face ASME / ANSI B16.10

DESCRIPTION

The "UNIWORLD" series type 5700 AD are equipped with "straight-through" pattern bodies having ANSI face-to-face dimensions and EN – ANSI – JIS flanges.

Type 5700 AD 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 multisprings pneumatic actuator having 3-15 psi ... 6-18 psi ... 6-30 psi standard control signals

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

SIZES : from DN 15 to DN 100

BODY CONNECTIONS : flanged EN 1092-1 PN16 PN40
 flanged ANSI B 16.5 150 RF 300 RF
 flanged JIS B2220 10K 20K

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 ASTM A216 WCB PN16/40 ANSI 150/300 JIS10/20**
 AISI 316 st. st. trim – C40 nickel plated steel bonnet
- **Stainless steel AISI 316 CF8M PN16/40 ANSI 150/300 JIS10/20**
 AISI 316 st. st. trim – AISI 316 st. st. bonnet

PLUGS :

- **PL** (DN15-20) **LV** (DN25-100) = linear classe IV°
- **PT** (DN15-20) **VPT** (DN25-100) = quick lift cl. IV°

TIPI DI BONNET (2) :

- Standard : from -5 to + 200 °C
- Finned : > 200 °C
- Extended : < 5 °C
- Bellows sealed for thermal oil or hazardous media with PN16-25-40 standard safety gland arrangement

GLAND ARRANGEMENT (PACKING) (3) with safety "O" rings:

- PTFE 100% for temperatures ≤ 150 °C
- PTFE 85% caricato GRAPHITE 15% for temp. ≤ 200 °C
- PURE GRAPHITE 100% per temp. 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 ... 6-18 psi ... 6-30 psi
- Max air supply pressure : 35 psi (2,5 bar)
- Ambient temperature : -20 ... +70 °C *see on request
- Actuator casings material : Fe P11 carbon steel
- Diaphragm material : EPDM 70
- Yoke material : EN-GJS500-7 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
- Rangeability : see leaflet n° GRAFICI/I

ON REQUEST :

- PTFE/GR soft seal for ≤ 190 °C class VI°
- PTFE soft seal for ≤ 150 °C class VI°
- Lapping on seat and plug class V°
- Stellite degree 6° on seat, plug and 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
- Lubrificatore on finned bonnet for temperatures ≥ 250 °C
- Top-work manual handwheel
- ATEX 94/9/CE dedicated configuration according to the fluid
- Kit diaphragm and actuator seals certified for a.t. $\geq - 50$ °C

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

Otturatori	DN15	DN 20	DN25	DN32	DN40	DN50	DN65	DN80	DN100
	$\varnothing 1/2''$	$\varnothing 3/4''$	$\varnothing 1''$	$\varnothing 1.1/4''$	$\varnothing 1.1/2''$	$\varnothing 2''$	$\varnothing 2.1/2''$	$\varnothing 3''$	$\varnothing 4''$
LV	CV	3.4	6.6	10	23.4	28	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"	1.1/4" 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)

CONFLOW s.p.a.

COMPANY WITH
 QUALITY SYSTEM
 CERTIFIED BY DNV GL
 = ISO 9001 =

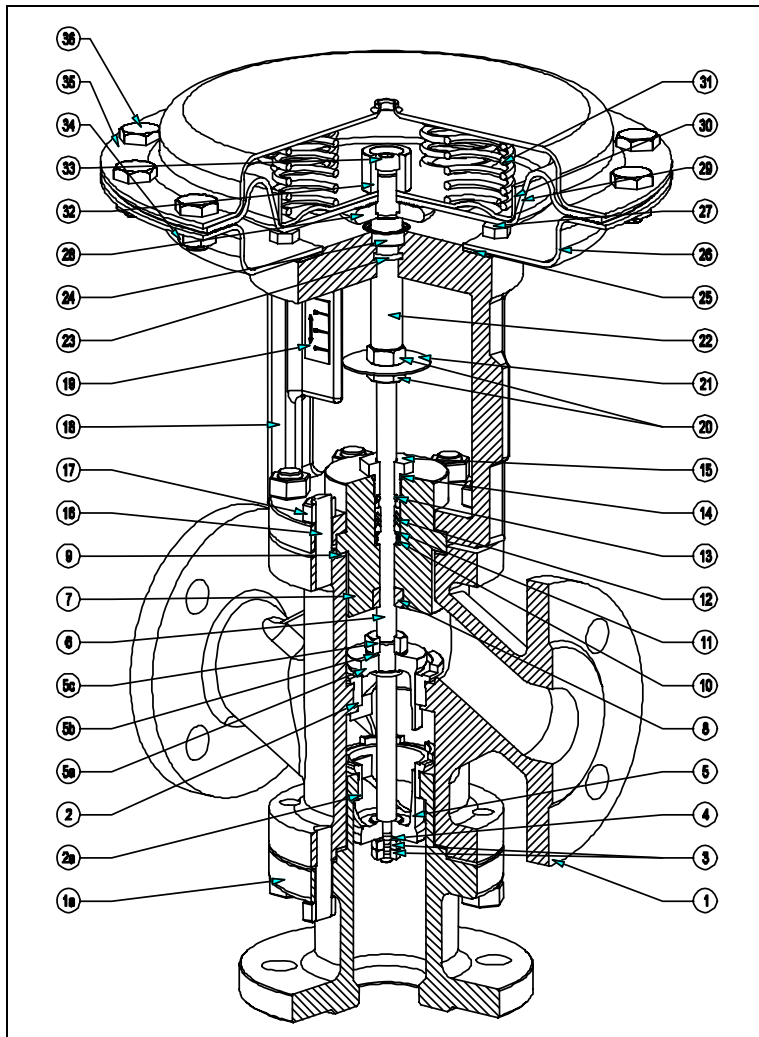
Via Lecco, 69/71
 20864 AGRATE BRIANZA (MB)
 Tel. 039/651.705 - 650.397
 Fax 039/654.018
 www.conflow.it

Maximum permissible pressure drops in Kg/cm2 (fluid opens) Strokes in mm – Signals in psi

Type	Signal	DN15	DN20	DN25	DN32	DN40	DN50	DN65	DN80	DN100
Actuator	psi	Stroke 11	Stroke 11	Stroke 11	Stroke 19	Stroke 19	Stroke 19	Stroke 28	Stroke 28	Stroke 28
T200	3-15 psi	12	8	5	3	-	-	-	-	-
	6-18 psi	25	16	9	5.2	-	-	-	-	-
	6-30 psi	65	40	22	11	-	-	-	-	-
T250	3-15 psi	27	17	9	6	4	2.4	-	-	-
	6-18 psi	55	34	19	12	8	3	-	-	-
	6-30 psi	110	68	38	20	14.5	7	-	-	-
T310	3-15 psi	-	-	15.5	10	7	3.5	2.5	1.7	0.9
	6-18 psi	-	-	31	20	14	7	4.2	2.8	1.3
	6-30 psi	-	-	62	30	21	12	6.5	4.7	2.6
T400	3-15 psi	-	-	-	14.5	10.5	5	3.8	2.5	1.4
	6-18 psi	-	-	-	29.5	20.5	12	6.7	4	2.8
	6-30 psi	-	-	-	45	31.5	18	16	11	6.3
T500	3-15 psi	-	-	-	24.5	17.5	9.5	5.5	4.2	2.4
	6-18 psi	-	-	-	49	34.5	19.5	12.2	7	4.9
	6-30 psi	-	-	-	75	52.5	30.3	26	16	10.5

1. The values given are referred to the force of actuator and they can be used within the limit of the body rating
2. The actuator DELTA-PI (PRESSURE DROPS with CLOSED VALVE) are obtained without a residual thrust of air into the actuator
3. The actuator DELTA-PI given in the column 6-30 psi are also valid for ON-OFF service with air supply at 30/35 psi

COMPONENTS LIST AND MATERIALS



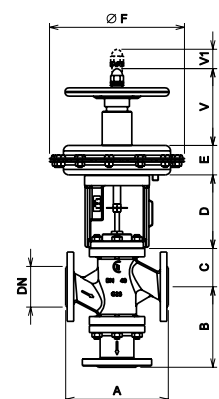
COMPONENTS LIST

1. Body
- 1a. Stud pipe
2. Upper seat
- 2a. Lower seat
3. Lower plug locknuts
4. Lower spring washer
5. Lower plug
- 5a. Upper plug
- 5b. Upper spring washer
- 5c. Upper plug locknuts
6. Stem
7. Bonnet
8. Guide 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. Yoke
19. Travel indicator plate
20. Position indicator locknuts
21. Position indicator
22. Diaphragm rod
23. "O" ring
24. Airtight
25. Yoke gasket
26. Lower diaphragm casing
27. Diaph. casing internal bolts
28. Diaphragm spacer
29. Diaphragm
30. Diaphragm plate
31. Springs
32. Diaphragm bush
33. Diaphragm locknut
34. Diaphragm casing bolts
35. Upper diaphragm casing
36. Diaphragm casing locknuts

MATERIALS

1. See note (1) at page 1
- 1a. C40 carbon steel
2. AISI 316 stainless steel
- 2a. AISI 316 stainless steel
3. AISI 304 stainless steel
4. AISI 304 stainless steel
5. AISI 316 stainless steel
- 5a. AISI 316 stainless steel
- 5b. AISI 304 stainless steel
- 5c. AISI 304 stainless steel
6. AISI 316 stainless steel
7. See note (1)-(2) at page 1
8. AISI 304 stainless steel
9. Europil WS 3640 or PTFE
10. AISI 302 stainless steel
11. AISI 304 stainless steel
12. See note (3) at page 1
13. Viton FPM 70
14. Viton FPM 70
15. AISI 303 stainless steel
16. Galvanized steel
17. DIN 934 galvanized steel
18. GGG50 spheroidal c. iron
19. Polycarbonate
20. DIN 936 galvanized steel
21. Aluminium
22. AISI 303 stainless steel
23. NBR
24. NBR
25. Cork – rubber
26. P11 steel
27. DIN 933 galvanized steel
28. Galvanized steel
29. EPDM 70
30. P01 steel
31. C98 UNI 3823
32. AISI 303 stainless steel
33. ISO 7380 galvanized steel
34. DIN 934 galvanized steel
35. P11 steel
36. DIN 933 galvanized steel

DIMENSIONI in mm.

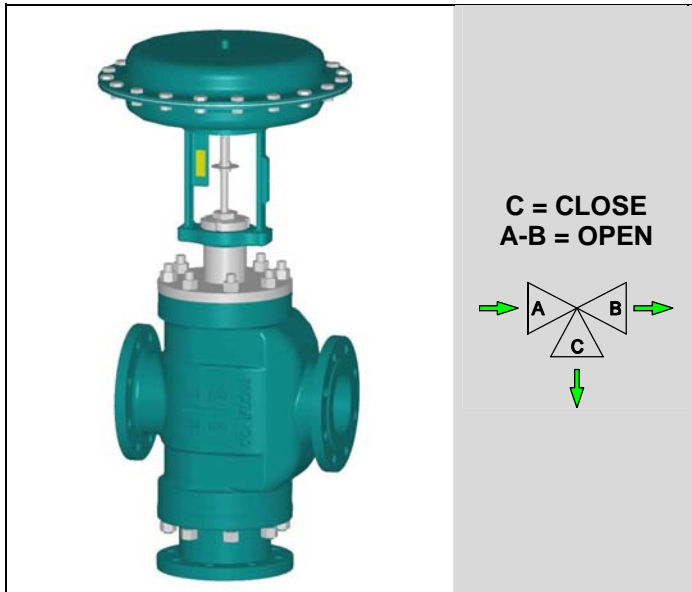


DN	Ø	A(1)	A(2)	B	C – Bonnet			D	V	V1
					Std	Finned	Bellows			
15	1/2 "	184	190	132	49	181	181	147	166	11
20	3/4 "	184	194	134	58	190	190	147	166	11
25	1 "	184	197	135	68	200	200	147	166	11
32	1.1/4 "	200	212	134	70	202	202	147	166	19
40	1.1/2 "	222	235	165	82	214	214	160	166	19
50	2 "	254	267	185	86	218	218	160	166	19
65	2.1/2 "	276	292	220	111	309	309	160	166	28
80	3 "	298	317	222	135	333	333	160	166	28
100	4 "	352	368	241	160	363	363	204	166	28

Actuator	E	Ø F
200	70	210
250	70	292
310	95	336
400	119	408
500	119	520

A(1) cast iron = PN16-ANSI150-JIS10K A(2) carbon and st. steel = PN16-PN40-ANSI150-ANSI300-JIS10K – JIS20K
 Specifications given are only indicative and not binding for the manufacturer 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.conflo.it.

THREE-WAY DIVERTING CONTROL VALVES CE PED 2014/68/UE / ATEX 2014/34/UE / MACHINERY DIRECTIVE 2006/42/CE



TYPE 5700 AD

Normally closed port "C" DN125-200

Face-to-face ASME / ANSI B16.10

DESCRIPTION

The "UNIWORLD" series type 5700 AD are equipped with "straight-through" pattern bodies having ANSI face-to-face dimensions and EN - ANSI - JIS flanges.

Type 5700 AD 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 multisprings pneumatic actuator having 3-15 psi ... 6-18 psi ... 6-30 psi standard control signals

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

SIZES : from DN 125 to DN 200

BODY CONNECTIONS : flanged EN 1092-1 PN16 PN40
 flanged ANSI B 16.5 150 RF 300 RF
 flanged JIS B2220 10K 20K

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 ASTM A216 WCB PN16/40 ANSI 150/300 JIS10/20**
 AISI 316 st. st. trim - C40 nickel plated steel bonnet
- **Stainless steel AISI 316 CF8M PN16/40 ANSI 150/300 JIS10/20**
 AISI 316 st. st. trim - AISI 316 st. st. bonnet

PLUGS :

- **LV** = linear class IV°
- **LVPT** = quick lift cl. IV°

BONNET (2) :

- Standard : from -5 to + 200 °C
- Finned : > 200 °C
- Extended : < 5 °C
- Bellows sealed for thermal oil or hazardous media with PN16-25-40 standard safety gland arrangement

GLAND ARRANGEMENT (PACKING) (3) with safety "O" rings:

- PTFE 100% for temperatures ≤ 150 °C
- PTFE 85% caricato GRAPHITE 15% for temp. ≤ 200 °C
- PURE GRAPHITE 100% per temp. 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 ... 6-18 psi ... 6-30 psi
- Max air supply pressure : 35 psi (2,5 bar)
- Ambient temperature : -20 ... +70 °C *see on request
- Actuator casings material : Fe P11 carbon steel
- Diaphragm material : EPDM 70
- Yoke material : EN-GJS500-7 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
- Rangeability : see leaflet n° GRAFIC/I/

ON REQUEST :

- PTFE/GR soft seal for ≤ 190 °C class VI°
- PTFE soft seal for ≤ 150 °C class VI°
- Lapping on seat and plug class V°
- Stellite degree 6° on seat, plug and 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
- Lubrifier on finned bonnet for temperatures ≥ 250 °C
- Top-work manual handwheel
- ATEX 94/9/CE dedicated configuration according to the fluid
- Kit diaphragm and actuator seals certified for a.t. $\geq - 50$ °C

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

Plugs		DN 125		DN 150		DN200	
Full bore		$\varnothing 5''$		$\varnothing 6''$		$\varnothing 8''$	
LV	CV	290.9		357.3		578.1	
	KV	250.8		308		498.3	
LVPT	CV	355.3		429.8		658.6	
	KV	306.3		370.5		567.7	
Reduced bore *		3"	4"	4"	5"	5"	6"

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

CONFLOW s.p.a.

COMPANY WITH
 QUALITY SYSTEM
 CERTIFIED BY DNV GL
 = ISO 9001 =

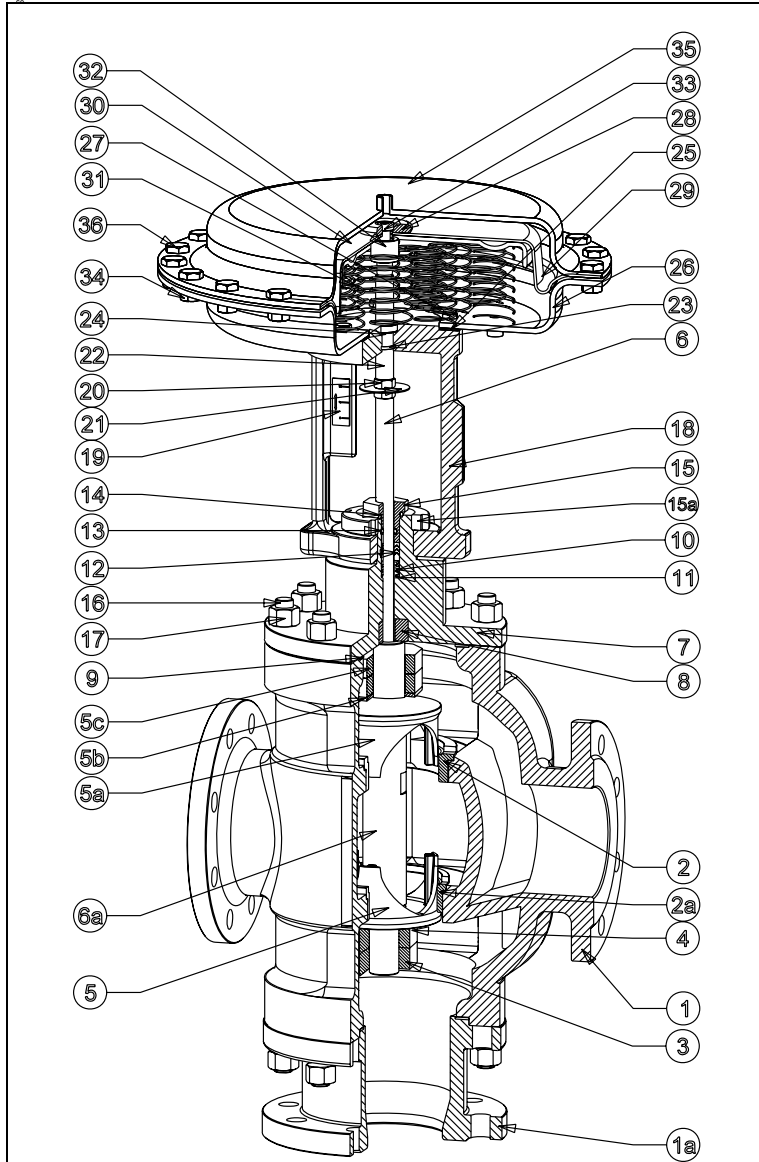
Via Lecco, 69/71
 20864 AGRATE BRIANZA (MB)
 Tel. 039/651.705 - 650.397
 Fax 039/654.018
 www.conflow.it

Maximum permissible pressure drops in Kg/cm2 (fluid opens) Strokes in mm – Signals in psi

Type Actuator	Signal psi	DN125	DN150	DN200
		Stroke 50	Stroke 50	Stroke 50
T400	3-15 psi	0.9	0.65	0.35
	6-18 psi	1.85	1.3	1.05
	6-30 psi	4.5	3.2	1.8
T500	3-15 psi	1.55	1.1	0.95
	6-18 psi	3.1	2.2	1.25
	6-30 psi	5.5	4	2.2

1. The values given are referred to the force of actuator and they can be used within the limit of the body rating
2. The actuator DELTA-PI (PRESSURE DROPS with CLOSED VALVE) are obtained without a residual thrust of air into the actuator
3. The actuator DELTA-PI given in the column 6-30 psi are also valid for ON-OFF service with air supply at 30/35 psi

COMPONENTS LIST AND MATERIALS



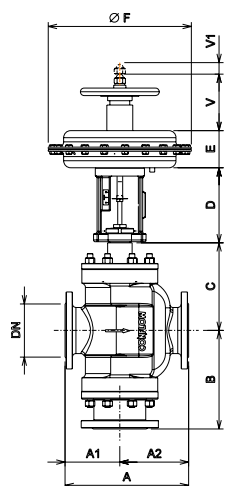
COMPONENTS LIST

1. Body
- 1a. Stud pipe
2. Upper seat
- 2a. Lower seat
3. Lower plug locknuts
4. Lower spring washer
5. Lower plug
- 5a. Upper plug
- 5b. Upper spring washer
- 5c. Upper plug locknuts.
6. Stem
- 6a. Plug shaft
7. Bonnet
8. Guide 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. Yoke
19. Travel indicator plate
20. Position indicator locknuts
21. Position indicator
22. Diaphragm rod
23. "O" ring
24. Airtight
25. Yoke gasket
26. Lower diaphragm casing
27. Diaph. casing internal bolts
28. Diaphragm spacer
29. Diaphragm
30. Diaphragm plate
31. Springs
32. Diaphragm bush
33. Diaphragm locknut
34. Diaphragm casing bolts
35. Upper diaphragm casing
36. Diaphragm casing locknuts

MATERIALS

1. See note (1) at page 1
- 1a. C40 carbon steel
2. AISI 316 stainless steel
- 2a. AISI 316 stainless steel
3. AISI 304 stainless steel
4. AISI 304 stainless steel
5. AISI 316 stainless steel
- 5a. AISI 316 stainless steel
- 5b. AISI 304 stainless steel
- 5c. AISI 304 stainless steel
6. AISI 316 stainless steel
7. See note (1)-(2) at page 1
8. AISI 304 stainless steel
9. Europil WS 3640 or PTFE
10. AISI 302 stainless steel
11. AISI 304 stainless steel
12. See note (3) at page 1
13. Viton FPM 70
14. Viton FPM 70
15. AISI 303 stainless steel
16. Galvanized steel
17. DIN 934 galvanized steel
18. GGG50 spheroidal c. iron
19. Polycarbonate
20. DIN 936 galvanized steel
21. Aluminium
22. AISI 303 stainless steel
23. NBR
24. NBR
25. Cork – rubber
26. P11 steel
27. DIN 933 galvanized steel
28. Galvanized steel
29. EPDM 70
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31. C98 UNI 3823
32. AISI 303 stainless steel
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35. P11 steel
36. DIN 933 galvanized steel

DIMENSIONS in mm.

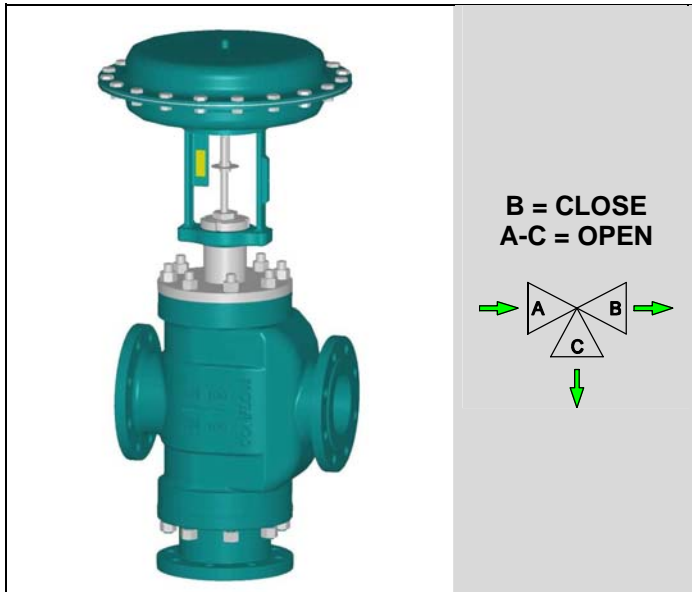


DN	Ø	A	A1	A2	B	C - Bonnet			D	V	V1
						Std	Finned	Bellows			
125	5 "	425	186	239	344	252	435	435	213	166	50
150	6 "	473	206	267	375	258	442	442	213	166	50
200	8 "	568	234	334	430	283	465	465	213	166	50

Actuator	E	Ø F
400	119	408
500	119	520

Specifications given are only indicative and not binding for the manufacturer 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.conflo.it.

THREE-WAY DIVERTING CONTROL VALVES CE PED 2014/68/UE / ATEX 2014/34/UE / MACHINERY DIRECTIVE 2006/42/CE



TYPE 5700 AR

Normally closed port "B" DN125-200

Face-to-face ASME / ANSI B16.10

DESCRIPTION

The "UNIWORLD" series type 5700 AR are equipped with "straight-through" pattern bodies having ANSI face-to-face dimensions and EN - ANSI - JIS flanges.

Type 5700 AD 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 multisprings pneumatic actuator having 3-15 psi ... 6-18 psi ... 6-30 psi standard control signals

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

SIZES : from DN 125 to DN 200

BODY CONNECTIONS : flanged EN 1092-1 PN16 PN40
 flanged ANSI B 16.5 150 RF 300 RF
 flanged JIS B2220 10K 20K

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 ASTM A216 WCB PN16/40 ANSI 150/300 JIS10/20**
 AISI 316 st. st. trim - C40 nickel plated steel bonnet
- **Stainless steel AISI 316 CF8M PN16/40 ANSI 150/300 JIS10/20**
 AISI 316 st. st. trim - AISI 316 st. st. bonnet

PLUGS :

- **LV** = linear class IV°
- **LVPT** = quick lift cl. IV°

BONNET (2) :

- Standard : from -5 to + 200 °C
- Finned : > 200 °C
- Extended : < 5 °C
- Bellows sealed for thermal oil or hazardous media with PN16-25-40 standard safety gland arrangement

GLAND ARRANGEMENT (PACKING) (3) with safety "O" rings:

- PTFE 100% for temperatures ≤ 150 °C
- PTFE 85% caricato GRAPHITE 15% for temp. ≤ 200 °C
- PURE GRAPHITE 100% per temp. 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 : a diaframma
- Control signals : 3-15 psi ... 6-18 psi ... 6-30 psi
- Max air supply pressure : 35 psi (2,5 bar)
- Ambient temperature : -20 ... +70 °C *see on request
- Actuator casings material : Fe P11
- Diaphragm material : EPDM 70
- Yoke material : EN-GJS500-7 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
- Rangeability : see leaflet n° GRAFIC/I/I

ON REQUEST :

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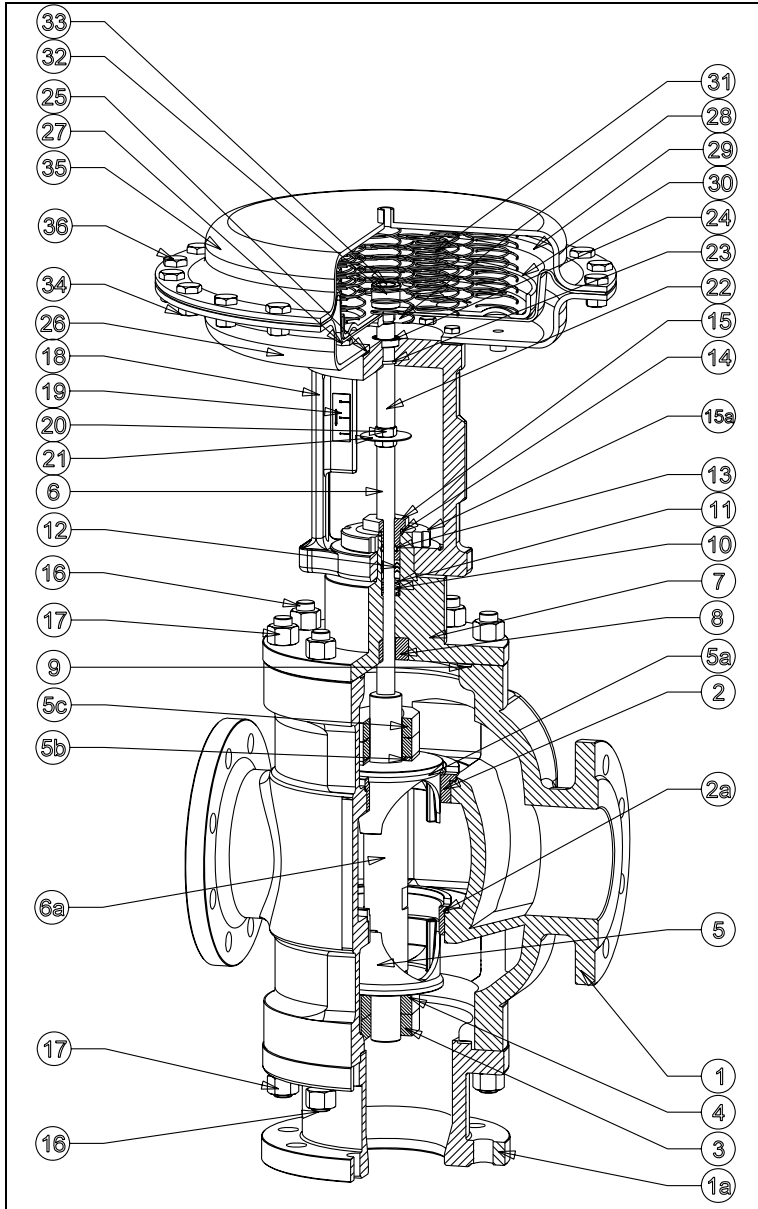
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