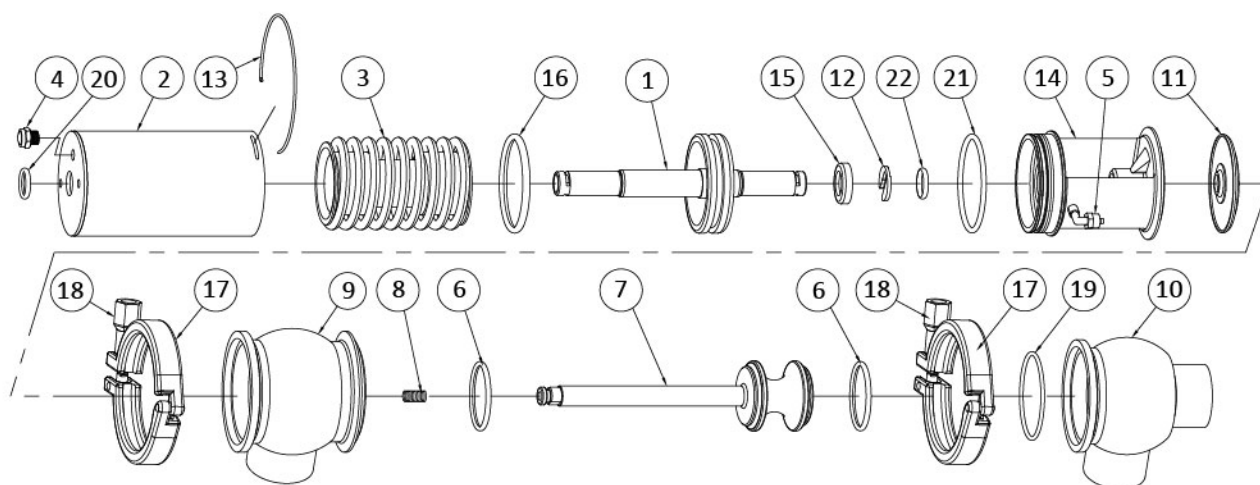


CSE Auto Control Divert Valve

F type construction assembly drawing & items list

Parts list

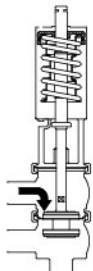
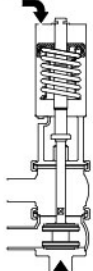
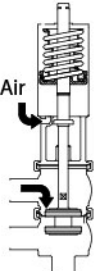
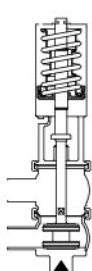
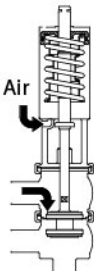
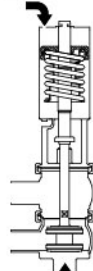
Item	Parts name	QTY	Material	Item	Parts name	QTY	Material	Item	Parts name	QTY	Material
1	Piston	1	St.St 304	9	Valve body-upper	1	St.St 316L	17	Clamp	2	St.St 304
2	Cylinder	1	St.St 304	10	Valve body-lower	1	St.St 316L	18	Wing nut	2	St.St 304
3	Spring assembly	1	St.St 304	11	Lip seal	1	304/EPDM	19	Valve body-seal ring	1	EPDM
4	Silencer	1	Cupler	12	Clip complete	1	St.St 304	20	O-ring	1	NBR
5	Air connect	1	Cupler	13	Lock wire clip	1	St.St 304	21	O-ring	1	NBR
6	O-Ring	2	EPDM	14	Bracket	1	St.St 304	22	O-ring	1	NBR
7	Stem-F	1	St.St 316L	15	Stop ring	1	PE				
8	Screws	1	St.St 304	16	O-ring	1	NBR				



10. SA. Pneumatic downward movement, spring return (NO-lower seat)

Actuator type / function: 20. AS. Pneumatic upward movement, spring return (NC-lower seat)

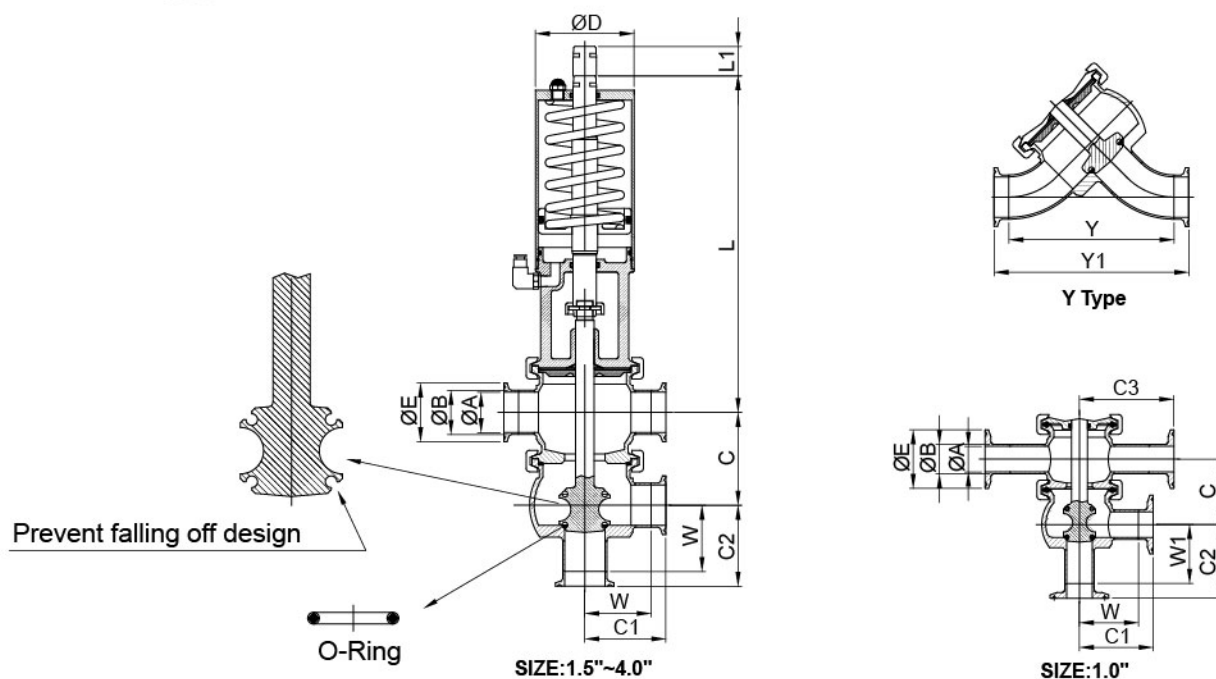
30. AA. Pneumatic upward and downward movement (A/A)

<p>Actuator/Valve Body combination and direction of pressure</p> <p>NO : Normal open NC : Normal close A/A : Air/Air double action</p> <p>Stop and change-over valves- Max. pressure without leakage at the valve seat</p> <p>○ = Max. air input pressure as 8 bar ➔ = Tube-Line flow Pressure</p>											
		Spring closes	Air closes		Air closes	Spring closes	Air closes		Air closes		
		Air pressure (bar)		5	8	5		5	8	5	6
		Actuator Type/Function	10 (NO)	10	(NO)	20 (NC)	20 (NC)	30	30	30	30
		Valve size (Max. Pressure)									
1"	9.5	10	10	9.5	10	10	10	10	10		
	1 1/2"	4.5	7.0	10	4.5	7.0	9.0	10	10	10	
	2"	4.5	4.0	5.0	4.5	4.0	9.0	10	9.0	10	
	2 1/2"	3.0	3.0	4.0	3.0	2.5	8.0	9.0	6.0	7.0	
	3"	5.0	4.0	6.0	4.5	5.0	10	10	10	10	

CSE Auto Control Divert Valve



Opening/closing time will be effected by the following
 The air supply(air pressure).
 The length and dimensions of the air hose.
 Number of valves connected to same air hose.
 Use of single solenoid valve for serial connected
 air actuator functions.
 Product pressure.
 Air connections
 Compressed air:
 R1/8"(BSP), internal thread.
 Technical data
 Air pressure:----- 5 to7 bar.



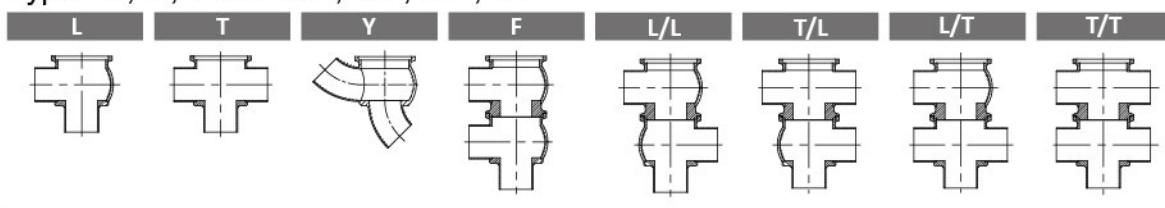
SIZE	in.	1" mm	in.	1 1/2" mm	in.	2" mm	in.	2 1/2" mm	in.	3" mm	in.	4" mm
ØA	0.870	22.1	1.370	34.8	1.870	47.5	2.370	60.2	2.870	72.9	3.835	97.4
ØB	1.000	25.4	1.500	38.1	2.000	50.8	2.500	63.5	3.000	76.2	4.000	101.6
C	2.232	56.7	3.150	80	3.638	92.4	4.724	120	5.039	128	5.937	150.8
C1	2.303	58.5	3.197	81.2	3.374	85.7	4.059	103.1	4.583	116.4	4.500	114.3
C2	1.992	50.6	2.402	61	2.575	65.4	2.839	72.1	3.138	79.7	4.500	114.3
C3	3.205	81.4										
W	2.000	59.9	2.697	68.5	2.874	73	3.559	90.4	4.083	103.7	3.878	98.5
W1	2.000	52	2.260	57.4	2.630	66.8	3.130	79.5	3.783	96.1	3.878	98.5
ØD	2.362	60	3.346	85	3.346	85	5.236	133	5.236	133	5.236	133
L	6.047	153.6	11.417	290	11.665	296.3	14.402	365.8	14.524	368.9	25.421	645.7
L1	0.669	17	0.984	25	0.984	25	1.260	32	1.417	36	1.496	38
Y	3.783	96.1	5.602	142.3	6.638	168.6	8.331	211.6	9.634	244.7	11.933	303.1
Y1	4.783	121.5	6.602	167.7	7.638	194	9.331	237	10.634	270.1	13.177	334.7

CSE Auto Control Divert Valve

(Drawing A)



Type : L , T , Y and L/L , T/L , L/T , T/T



Operation Instruction

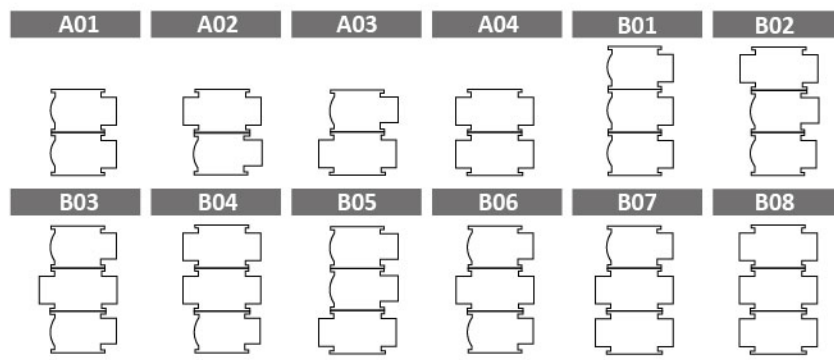
1. CSE pneumatic valve can be equipped with different type of flow design,(as drawing A) to get various flow control.
2. Available for SMS, DIN, IDF, RJT, 3A....., Welding; Clamp; Unions.....connect end.
3. Material:
 - 3-1. All parts connect with fluid are made of stainless steel AISI 316/316L(1.4401/1.4404).
 - 3-2. The other parts in AISI 304 (1.4301).
 - 3-3. The valve stem is sealed by a special EPDM/ Silicone/ Viton (FKM)/ PTFE seal and according to international standard for using on food or pharmaceutical.
4. Operating air pressure: 5bar-8bar compressed air.
5. Control ways:
 - a. Designed different types for controlling control various flow, as type L; T; F...etc.
 - b. Choose appropriate dimensions and type, as 2".....clamp or welding.
 - c. Choose appropriate control ways (manual or pneumatic):
 - c-1. Manual control valve to be equipped with a rapid pitch screw with protection against unscrewing.
 - c-2. Or choose air/spring(simple effect); or air/air (double effect) for pneumatic control.
 - c-3. Can use CSE automatic control box to get signal transfer and complete individual valve control.
 - c-3-1. Signal transfer:
 - a. with 10-30VDC proximity switch connection:1 or 2pcs (PNP OR NPN)
 - b. Or 3A 125VAC,30VDC micro switch connection: 1 or 2pcs
 - c-3-2. Complete individual valve control:

Choose (a) or (b) +DC24 3.0W electric valve:1pc & air manifold (for complete control box).

CSE Auto Control Divert Valve

Option

- Various end connection.
 - Weld End /Clamp End /KF End *
 - 3A /DIN /SMS /IDF /RJT standard *
- CSE seals with EPDM/FKM/PTFE in compliance with FDA 21 CFR 177.2600.
- Available for easily installed control box.



SIZE		A	B	A1	B1	C	OD	Id	L	H1	H2	J
Imperial size (DN/OD)	25	338	350	386	397	47.8	25	21.8	50	12	11	60
	38	355	376	420	436	60.8	38	34.8	49.5	21	16	85
	51	411	437	489	511	73.8	51	47.8	61	26	22	85
	63.5	436	462	526	548	86.3	63.5	60.3	81	26	22	133
	76.1	483	514	586	613	98.9	76.1	72.9	86	31	27	133
	101.6	532	563	660	687	123.6	101.6	97.6	119	31	27	133
DIN tubing size (DN tubes)	25	346	358	398	409	52	29	26	50	12	11	60
	40	361	382	429	445	64	41	38	49.5	21	16	85
	50	416	442	496	518	76	53	50	62	26	22	85
	65	448	474	544	566	92	70	66	78	26	22	133
	80	500	531	611	638	107	85	81	87	31	27	133
	100	538	569	668	695	126	104	100	120	31	27	133



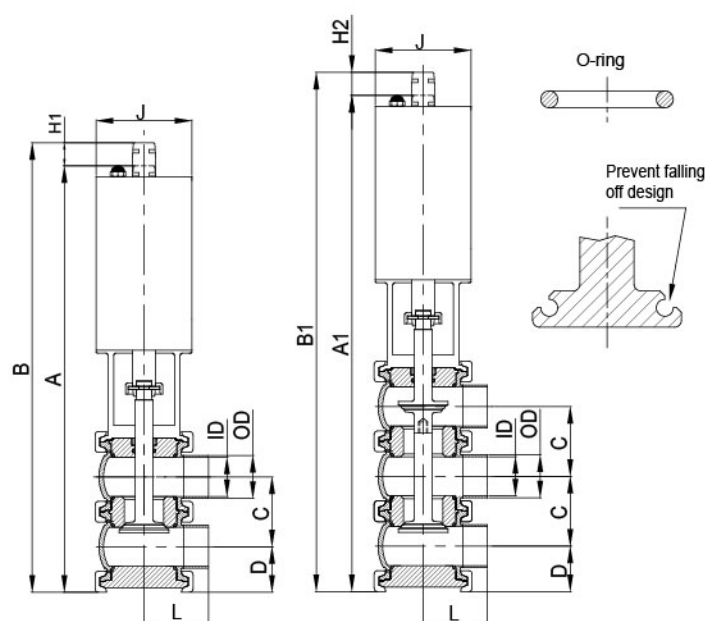
*Additional options available upon request.

Notice!

- For more detailed information, please refer to CSE.
- Other seat valves have not are with the same basic design, including manual valve and tank bottom valve.

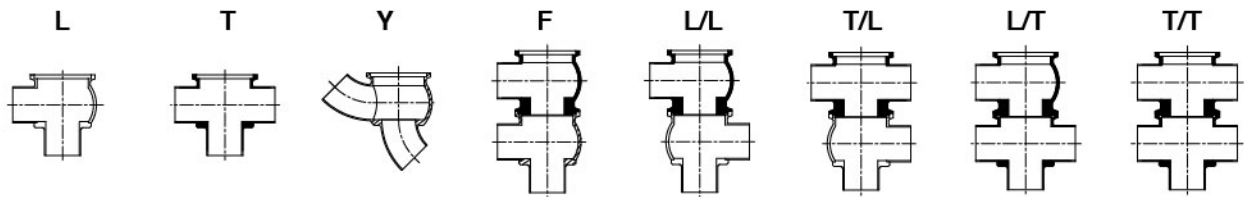
Operating time is affected by :

- Inlet air pressure.
- Length and size of air hose
- The number of valves connected to the same air hose
- Single solenoid valve used for actuator.
- Pipeline working pressure



CSE Manual Divert Valve

Type: L, T, Y and L/L, T/L, L/T, T/T



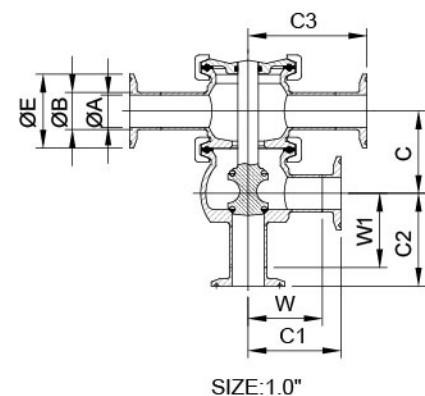
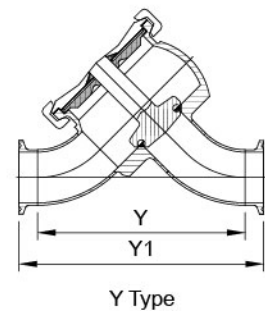
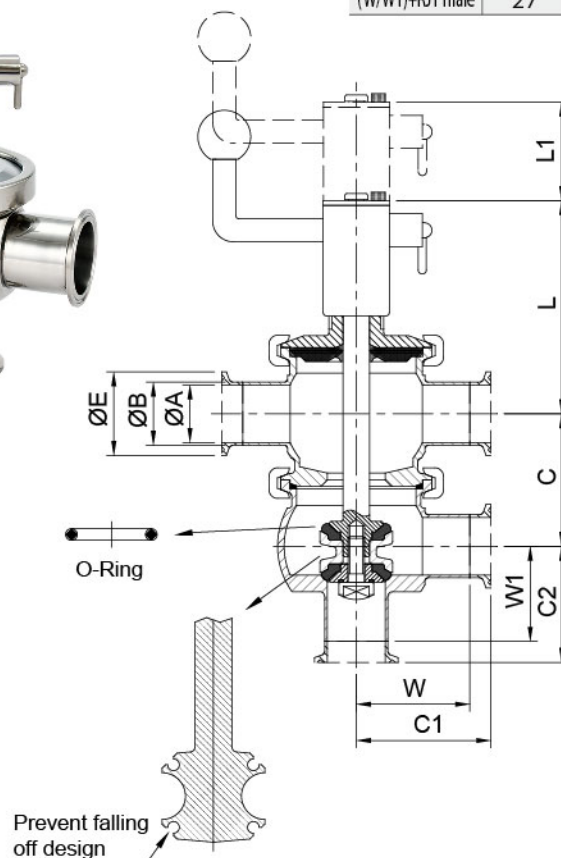
Materials:

- Flow area : AISI 316L
- Other steel parts : AISI 304
- Plug stem : AISI 316L with Chromium
Plated Surface
- Gasket for Flow Area : EPDM/NBR/FKM/PTFE
- Other seals : NBR and EPDM
- OD Surface : Mirror/Satin/Sand Blaste

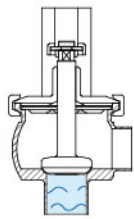
Technical data:

- Max. production pressure : 1000kpa(10bar).
- Temperature range : -10°C to +95°C (EPDM).

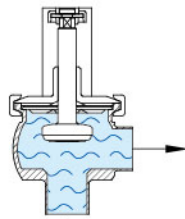
SIZE	1"	1.5"	2"	2.5"	3"	4"
ØA	22.1	34.8	47.5	60.2	72.9	97.4
ØB	25.4	38.1	50.8	63.5	76.2	101.6
C	56.7	80	92.4	120	128	150.8
C1	63.5	69.9	88.9	88.9	95.3	114.3
C2	63.5	69.9	88.9	88.9	95.3	114.3
C3	81.4	—	—	—	—	—
E	50.5	50.5	64	77.5	91	119
L	101	126	135	167	170	645.7
L1	17	25	25	32	36	38
W	50.8	57.2	76.2	76.2	82.6	98.5
W1	50.8	57.2	76.2	76.2	82.6	98.5
Y	96.1	142.3	168.6	211.6	244.7	303.1
Y1	121.5	167.7	194	237	270.1	334.7
(W/W1)+SMS male	19	23	23	27	27	—
(W/W1)+IDF male	21.5	21.5	21.5	21.5	21.5	—
(W/W1)+RJT male	27	27	27	27	27	—



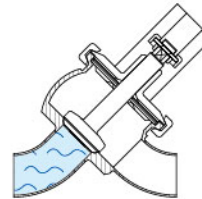
Configuration and Flow Direction



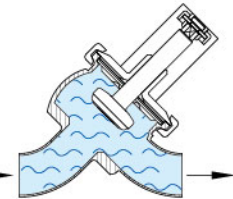
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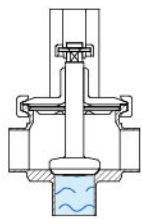
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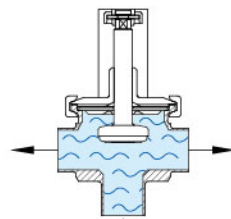
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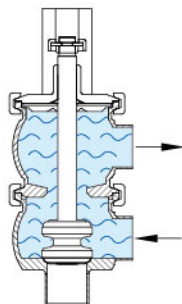
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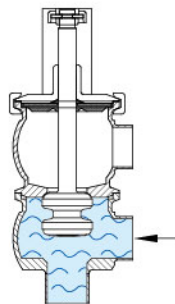
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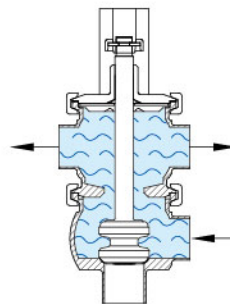
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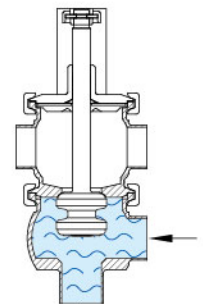
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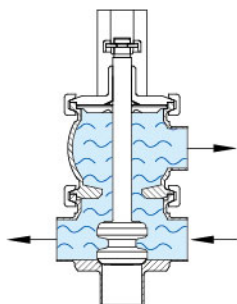
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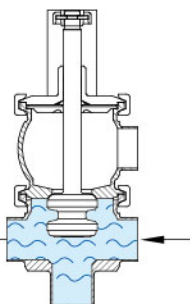
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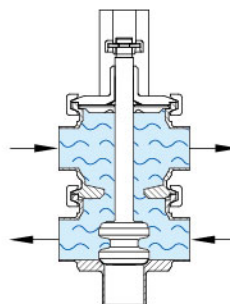
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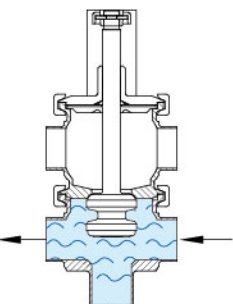
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