

Item 635-636-637-638 PVC ball valve



Macro [Ball valves](#)

Category [Other PVC ball valves](#)

3-way full-bore PVC ball valve, threaded or glued ends, "T" or "L" port

ITEM 635

Connection: threaded
Valve "T" port

ITEM 636

Connection: threaded
Valve "L" port

ITEM 637

Connection: to be glued
Valve "T" port

ITEM 638

Connection: to be glued
Valve "L" port

features

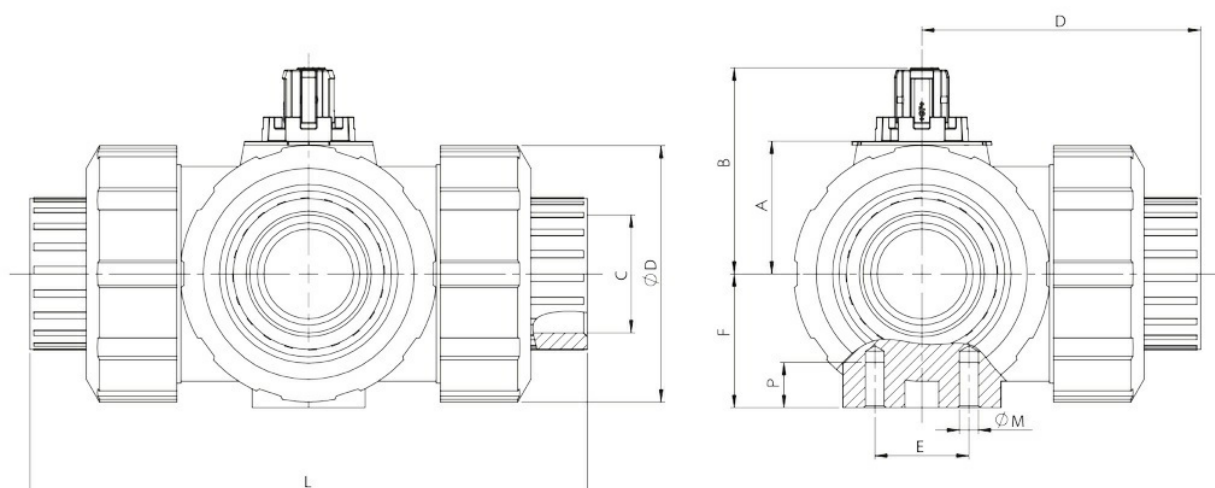
GENERAL FEATURES:

- Valve with 3 seats for mixing and diverting processes. It's possible to select two ways and shut off flow in the third way.
- Working temperature: from 0°C to +60°C
- Working pressure: see diagram.
- Applications: chemicals and all kind of fluids compatible with PVC.
- Connections:
 - Female threaded as per DIN/ISO 228/1;
 - to be glued as per ISO 727 UNI EN 1452
- PN 10 till 25°C if classified chemical resistant with the used fluid

ON REQUEST:

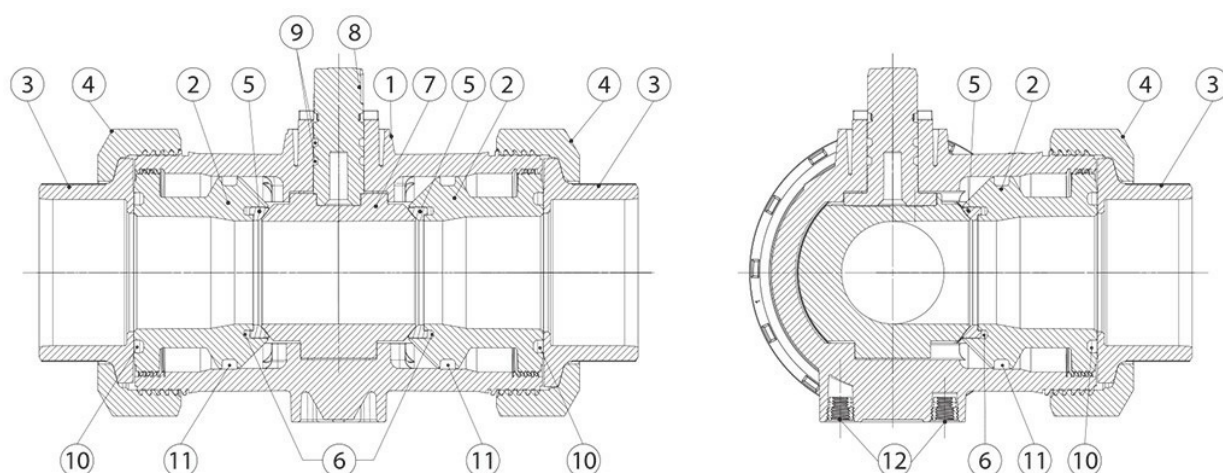
- Please contact our sales department.

dimensions



DIMENSIONS														
SIZE		A	B	C Threaded	C Glued	D Threaded	D Glued	E	F	L Threaded	L Glued	øM	P	øQ
DN [mm]	[inch]													
DN 10	3/8"	26,1	41	3/8"	16	54	52	25	28	113	109	6	8	50
DN 15	1/2"	26,1	41	1/2"	20	56	54	25	28	117	112	6	8	50
DN 20	3/4"	30	48,5	3/4"	25	66	64	25	32	135	131	6	8	58
DN 25	1"	35,2	55	1"	32	74	72	25	36	155	151	6	8	68
DN 32	1" 1/4	44	66,9	1" 1/4	40	89	90	45	45	179	181	8	9	84
DN 40	1" 1/2	50,2	73,1	1" 1/2	50	102,5	105	45	51	201	205	8	9	97
DN 50	2"	62	89,4	2"	63	130,5	133,5	45	65	255	261	8	9	124

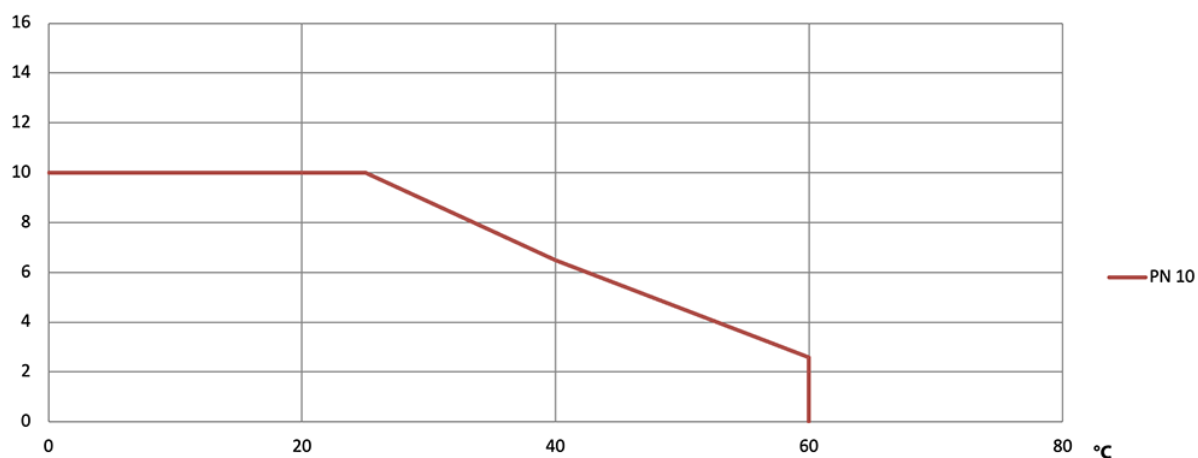
materials



MATERIALS		
1	Body	PVC-U
2	Ball sealing support	PVC-U
3	End	PVC-U
4	Nut ring	PVC-U
5	Ball sealing	PTFE
6	Backing seal	EPDM
7	Ball	PVC-U
8	Stem	PVC-U
9	Shaft o-ring	EPDM
10	Valve end seal	EPDM
11	Body seal	EPDM
12	Mounting insert	S.S.

diagrams and breakaway torque

Pressure/temperature diagram



Flow-pressure loss diagram and Kv nominal coefficient

"L" PORT								
	DN10	DN15	DN20	DN25	DN32	DN40	DN50	
Kv100	50	75	150	280	480	620	1230	Kv100 liters per minute
KV	3	4,5	9	16,8	28,8	37,2	73,8	KV cubic meters / hour

"T" PORT								
	DN10	DN15	DN20	DN25	DN32	DN40	DN50	
Kv100	140	200	470	793	1290	1910	3100	Kv100 liters per minute
KV	8,4	12	28,2	47,2	77,4	114,6	186	KV cubic meters / hour

Kv is the coefficient, expressed in m³/h (with water at 15°C) causing a pressure loss of 1 bar.

BREAKAWAY TORQUES Nm							
SIZE	DN 10 3/8"	DN 15 1/2"	DN 20 3/4"	DN 25 1"	DN 32 1 1/4"	DN 40 1 1/2"	DN 50 2"
PN 10 bar	2	2	3	4	5,5	7,5	10

Torque can vary depending on temperature and type of fluid; a safety factor of 1.4 must be applied. Torque can drop on high frequency of operations. The actuator/valve sizing, indicated on the following pages, are based for valves to be used with liquids or gaseous fluids, clean, and for medium temperatures. For further information, or different uses please contact our sales department.

specifications

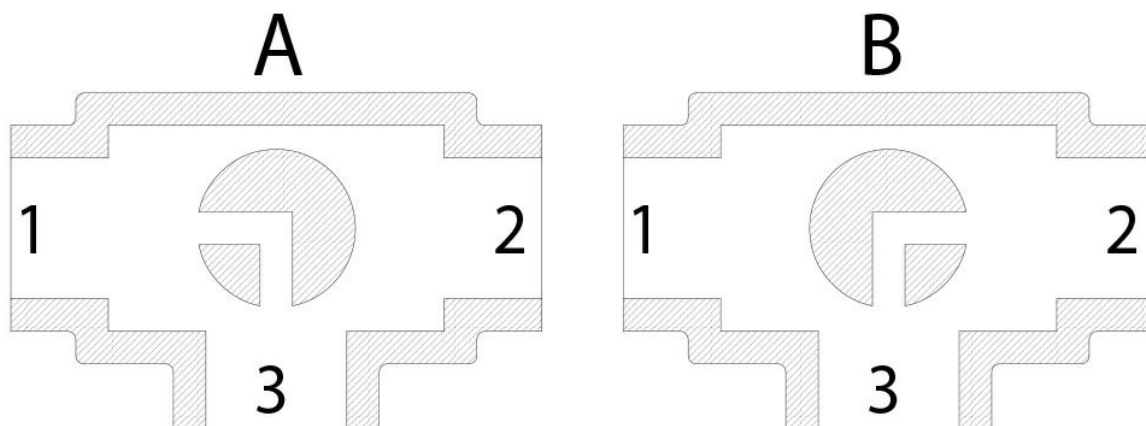
Plan for "L" port

N.B.:

"A" must be the rest position of the ball with **SR FAIL CLOSE** actuator.

"B" must be the rest position of the ball with **SR FAIL OPEN** actuator.

View from above



Plan for "T" port

With actuator 2 positions with 90° rotation are possible only: the configuration of the ball must always be communicated at our sales department.

N.B.:

Choose the rest position of the ball with **SR FAIL CLOSE** actuator; whenever supplied with air, actuator turns in an anticlockwise direction.

Choose the rest position of the ball with **SR FAIL OPEN** actuator; whenever supplied with air, actuator turns in a clockwise direction.

View from above

