

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

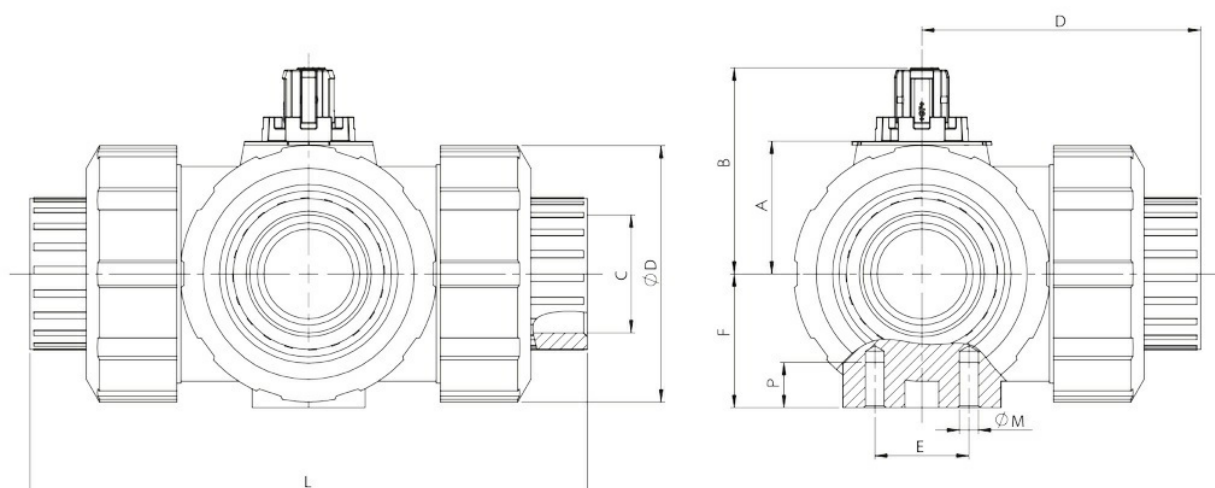
GENERAL FEATURES:

- 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:

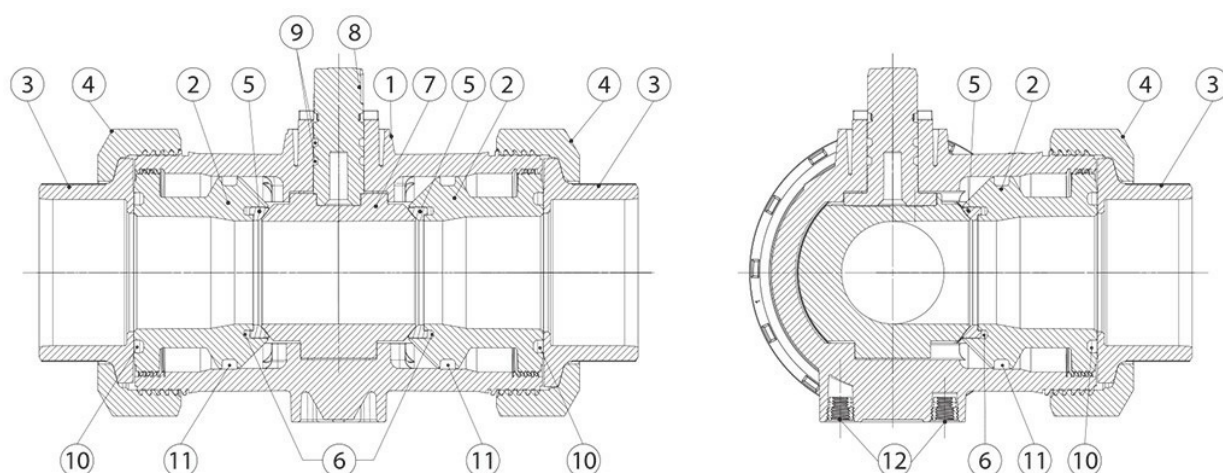
- Please contact our sales department.

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 |

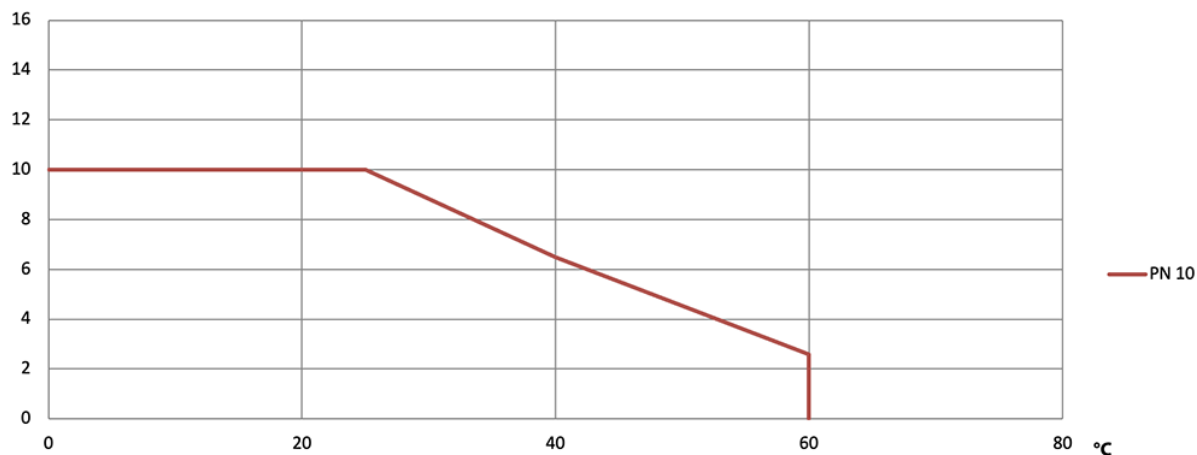
materials



| 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

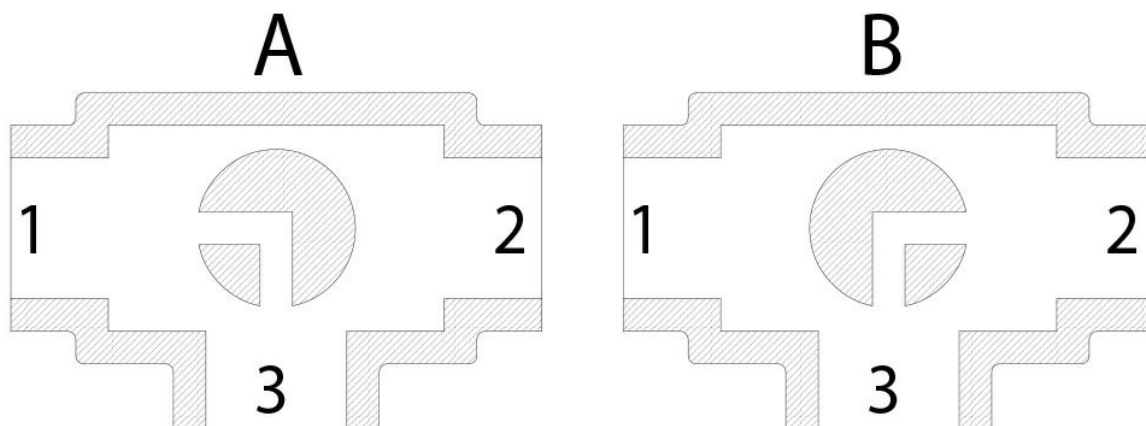
Plan for "L" port

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

