



STANDARD FLOW BALL VALVES: VIENNA

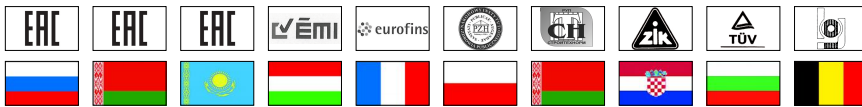
117 Vienna ball valve, standard flow

Suitable for domestic water services, heating and air-conditioning plants, compressed air systems.
VIENNA



| SIZE | PRESSURE | CODE | PACKING |
|---------------|----------------|---------|---------|
| 1/4" (DN 8) | 50bar/725psi | 0910014 | 12/192 |
| 3/8" (DN 10) | 50bar/725psi | 0910038 | 12/192 |
| 1/2" (DN 15) | 30bar/435psi | 1170012 | 15/120 |
| 3/4" (DN 20) | 30bar/435psi | 1170034 | 8/64 |
| 1" (DN 25) | 30bar/435psi | 1170100 | 8/64 |
| 1"1/4 (DN 32) | 25bar/362.5psi | 1170114 | 4/32 |
| 1"1/2 (DN 40) | 25bar/362.5psi | 1170112 | 4/24 |
| 2" (DN 50) | 25bar/362.5psi | 1170200 | 2/12 |

CERTIFICATIONS



TECHNICAL SPECIFICATIONS

Female/female or male/female threads.

Lever handle in steel (aluminium for sizes 2"1/2 - 3" - 4") or T handle in aluminium or flat lever handle in lined steel.

Body in nickel-plated brass.

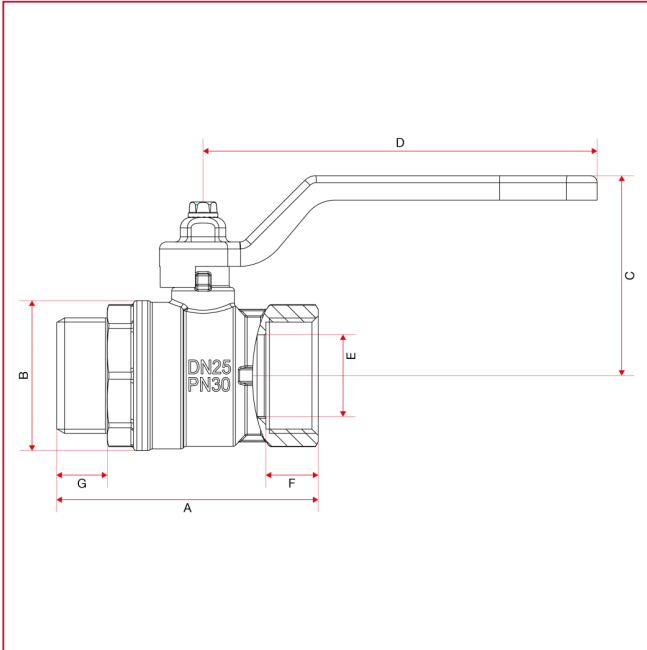
Minimum and maximum working temperatures: -20°C, 150°C in absence of steam.

Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).



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OVERALL DIMENSIONS

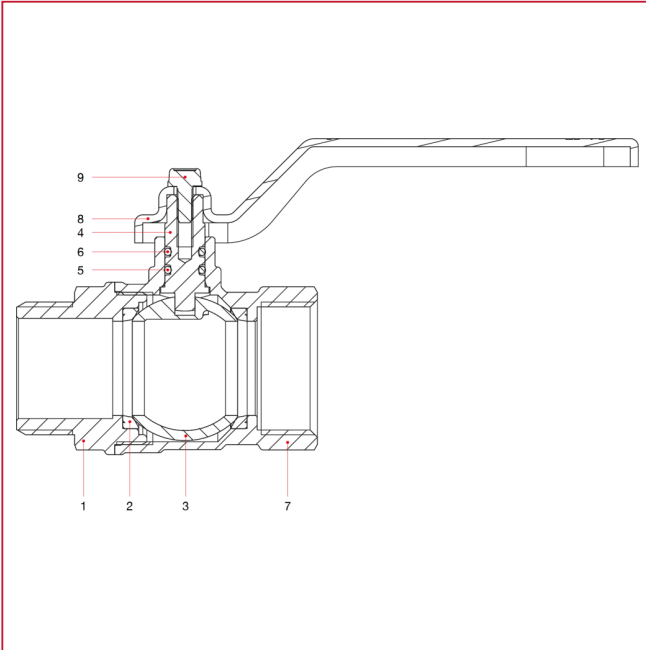


| | 1/4" | 3/8" | 1/2" | 3/4" | 1" | 1"1/4 | 1"1/2 | 2" |
|------------------------|------|------|------|------|------|-------|-------|-------|
| DN | 8 | 10 | 15 | 20 | 25 | 32 | 40 | 50 |
| A | 53,9 | 53,9 | 58 | 62,5 | 75 | 87,5 | 100,5 | 115,5 |
| B | 23,5 | 24 | 29 | 36 | 43 | 53 | 63 | 79 |
| C | 37,3 | 37,3 | 40 | 54 | 57 | 73 | 78 | 94 |
| D | 80 | 80 | 80 | 113 | 113 | 138 | 138 | 158 |
| E | 8 | 10 | 14 | 18,5 | 23,5 | 30 | 37 | 47 |
| F | 10 | 10 | 12 | 12 | 15 | 16 | 18 | 19 |
| G | 10,5 | 10,5 | 11,5 | 12,5 | 14,5 | 17 | 19 | 21 |
| Kg/cm ² bar | 50 | 50 | 30 | 30 | 30 | 25 | 25 | 25 |
| LBS - psi | 725 | 725 | 435 | 435 | 435 | 362,5 | 362,5 | 362,5 |



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MATERIALS



| POS. | DESCRIPTION | N. | MATERIAL |
|------|------------------|----|----------------------------|
| 1 | Male end adapter | 1 | Nickel-plated brass CW617N |
| 2 | Seat | 2 | P.T.F.E. |
| 3 | Ball | 1 | Chrome-plated brass CW617N |
| 4 | Stem | 1 | Brass CW614N |
| 5 | O-ring | 1 | NBR |
| 6 | O-ring | 1 | Viton® |
| 7 | Body | 1 | Nickel-plated brass CW617N |
| 8 | Lever handle | 1 | Varnished steel P04 |
| 9 | Screw | 1 | Zinc-plated steel C4C |



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INSTALLATION

The itap S.p.A.'s valves are bi-directional, that means they manage the flow in both the directions.

The valves are composed by a ball, two seal in PTFE material, one stem, two sailing rings (O-Rings), one handle and a couple of parts made of brass (body and end adopter) that contain them and that are assembled by means of thread and a sealed material to obtain their aim.

In order to avoid that the sealed material gets broken and then the valve loses the connection between the body and the end-adapter, it's necessary to avoid to submit the two parts under the influence of a torque.

For the installation normal hydraulic practices must be used, and especially:

- ones have to be sure that the two pipes are correctly aligned;
- during the assembling process the installer has to apply its assembling tools at the end that is nearest to the pipe;
- the application of the sealing materials by the fitter (PTFE or hempen cloth) must be limited at the thread zone. An excess should interfere in the ball-gasket's closure zone, compromising the tightness.
- in the case that the fluid transported presents some impurities (dust, water too hard, etc.) ones have to remove these impurities by the means of a filter. Otherwise they could damage the seals.

DISASSEMBLY

To remove the valve from the pipe line or anyhow before to unscrew the junctions linked to it:

- wear the clothing protective normally required to work with the fluid transported within the line;
- depressurize the line and operate in this way:
 - positioning the valve in opened position and than empty the line;
 - handle the valve to put down the residue pressure contained inside the space between the ball and the body before of remove it from the line;
- during the disassembly apply the screw tool at the end of the valve nearest the pipe;

MAINTENANCE

Verify the valve periodically, according to its application's field and its works' field and its work's conditions, in order to be sure that the valve works correctly.

MANUFACTURER

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LOSS DIAGRAM (With water)

| | 1/4" | 3/8" | 1/2" | 3/4" | 1" | 1 1/4" | 1 1/2" | 2" |
|-----------|------|------|-------|-------|-------|--------|--------|-------|
| KV | 3,33 | 4,92 | 14,65 | 23,46 | 38,67 | 56,07 | 86,60 | 160,5 |

