



REDUCED FLOW BALL VALVES: ORIENT

114 Orient ball valve, reduced flow

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

ORIENT



SIZE	PRESSURE	CODE	PACKING
1/4" (DN 8)	50bar/725psi	0930014	15/180
3/8" (DN 10)	50bar/725psi	0930038	15/180
1/2" (DN 15)	50bar/725psi	1140012	12/144
3/4" (DN 20)	40bar/580psi	1140034	8/96
1" (DN 25)	40bar/580psi	1140100	5/60

CERTIFICATIONS



TECHNICAL SPECIFICATIONS

Male/female threads.

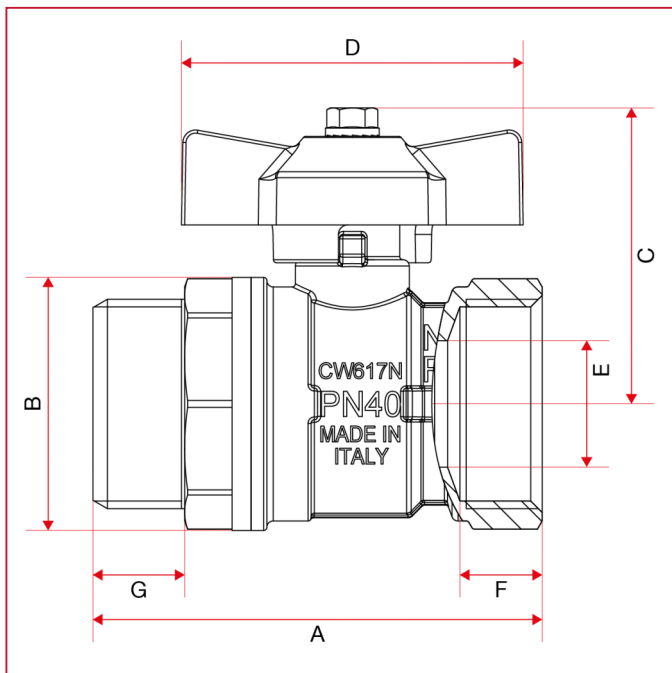
T handle in aluminium.

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).

OVERALL DIMENSIONS

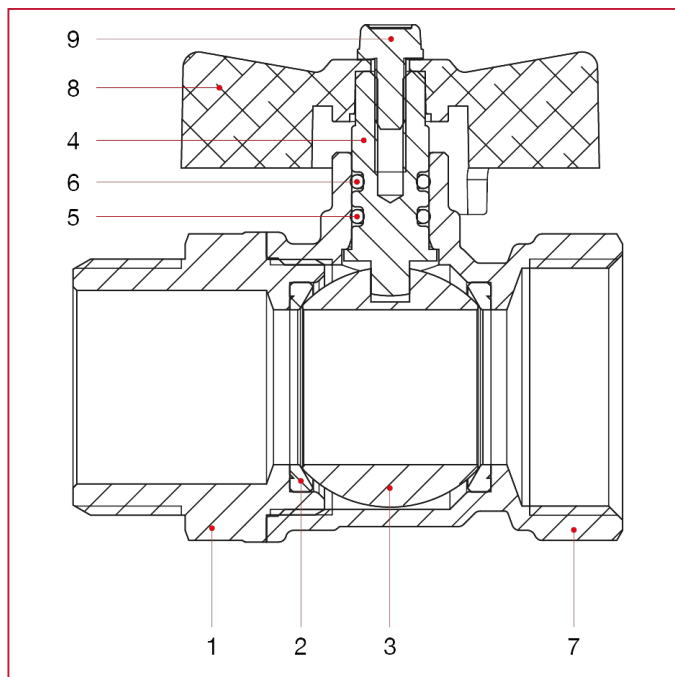




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	1/4"	3/8"	1/2"	3/4"	1"
DN	8	10	15	20	25
A	53,9	53,9	58,5	63,5	71
B	23,5	24	27	34	40
C	37,3	37,3	39,3	43,8	46,8
D	47	47	47	54	54
E	8	10	12	15	20
F	10	10	11	12	13
G	10,5	10,5	11,5	12,5	14,5
Kg/cm ² bar	50	50	50	40	40
LBS - psi	725	725	725	580	580

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	T handle	1	Varnished aluminium
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 adapter) 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-adaptor, 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 then 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.



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LOSS DIAGRAM (With water)

	1/4"	3/8"	1/2"	3/4"	1"
KV	3,33	4,92	8,14	12,26	23,45

