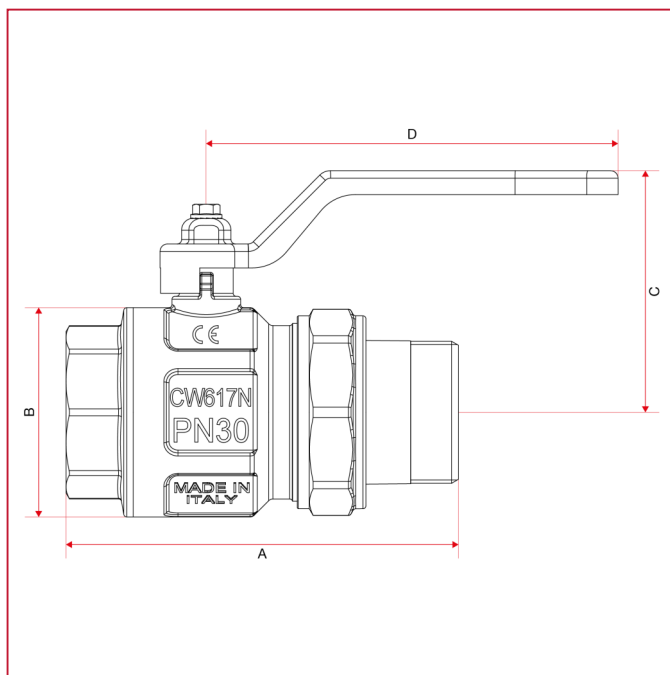
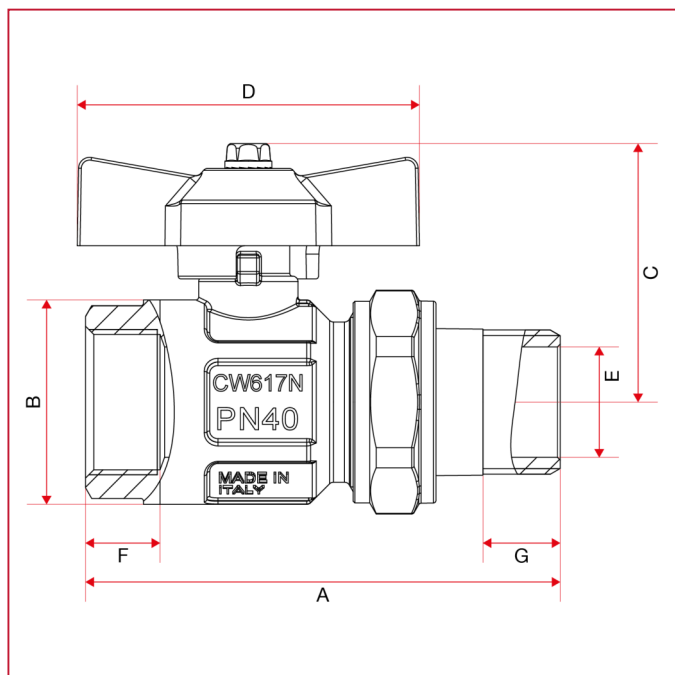




## FULL FLOW BALL VALVES: IDEAL

### 098 Ideal ball valve, full flow for manifolds

#### OVERALL DIMENSIONS



	1/2"	3/4"	1"	1"1/4	1"1/2	2"
DN	15	20	25	32	40	50
A	74	86	99	115	131,5	150,5
B	30,5	37	45,5	57	70	84
C	41	47	50,8	63,5	81	96
D	47	62	62	70	138	157,8
E	15	20	25	32	39	50
F	12,5	13,5	15	16,5	17,5	20,5
G	12	14	16	17	16	17
Kg/cm2 bar	50	40	40	30	30	25
LBS - psi	725	580	580	435	435	362,5



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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 threat and a sealed material to obtain their aim.

In order to avoid that the sealed material gets broken and then the valve looses 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 threat zone. An excess should interferes 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;
- depressurizze 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

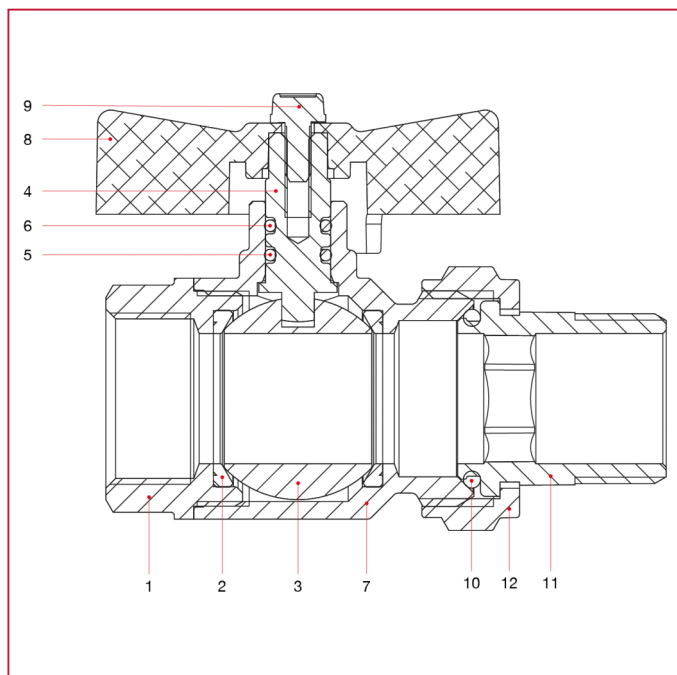
Verify the valve periodically, according to its application's field and its works' field and its work's conditions, in order to be sure that the valve works correctly.



## FULL FLOW BALL VALVES: IDEAL

### 098 Ideal ball valve, full flow for manifolds

**MATERIALS** sizes 1/2" through 1 1/4"

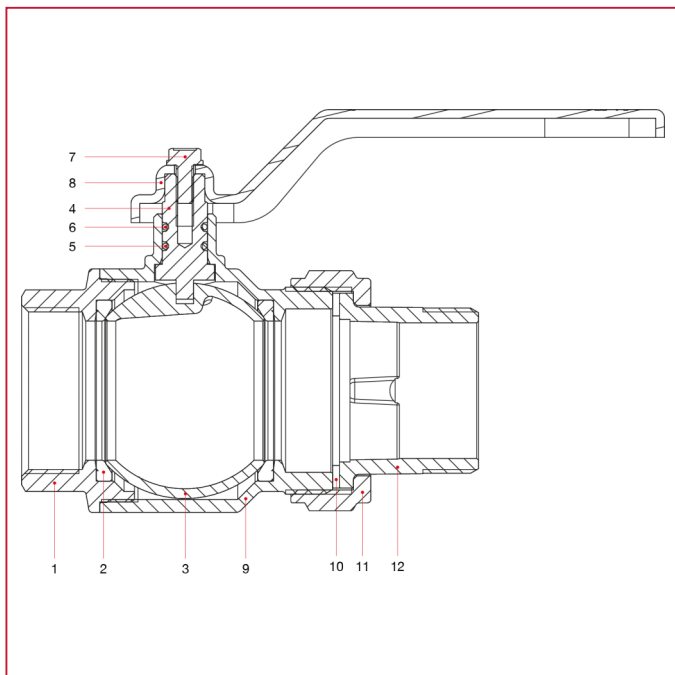


POS.	DESCRIPTION	N.	MATERIAL
1	Female end adapter	1	Nickel-plated brass CW617N
2	Seat	2	P.T.F.E.
3	Ball	1	Chrome-plated brass CW617N
4	Stem	1	Brass CW614N
5	O-ring	1	NBR
6	O-ring	1	Viton®
7	Body	1	Nickel-plated brass CW617N
8	T handle	1	Varnished aluminium
9	Screw	1	Zinc-plated steel C4C
10	O-ring	1	NBR
11	Union	1	Nickel-plated brass CW617N
12	Nut	1	Nickel-plated brass CW617N



# FULL FLOW BALL VALVES: IDEAL

**MATERIALS sizes 1"1/2 through 2"**



POS.	DESCRIPTION	N.	MATERIAL
1	Female 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	Screw	1	Zinc-plated steel C4C
8	Lever handle	1	Varnished steel P04
9	Body	1	Nickel-plated brass CW617N
10	Flat seat washer	1	NBR
11	Nut	1	Nickel-plated brass CW617N
12	Union	1	Nickel-plated brass CW617N

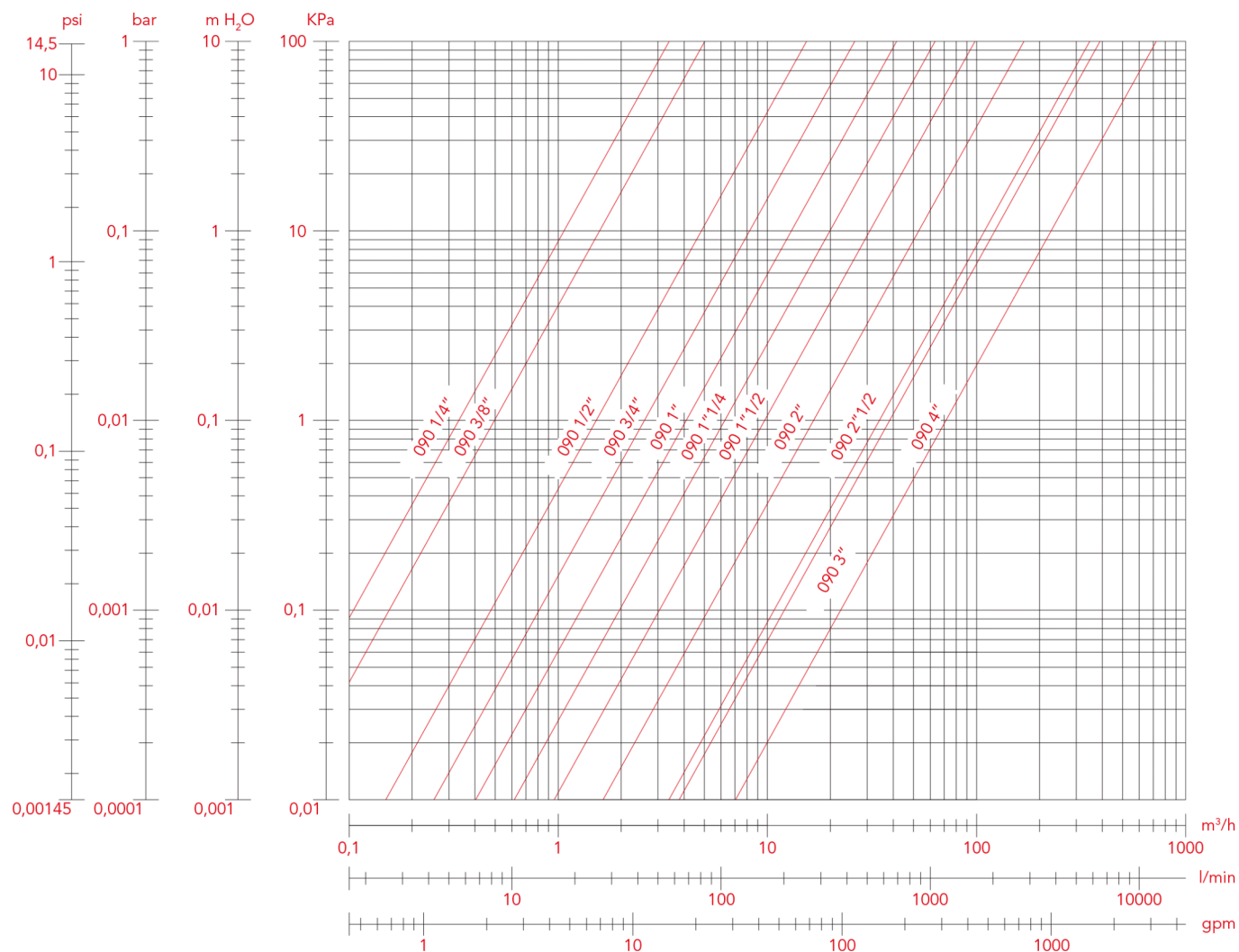


# FULL FLOW BALL VALVES: IDEAL

## 098 Ideal ball valve, full flow for manifolds

### LOSS DIAGRAM (With water)

	1/2"	3/4"	1"	1"1/4"	1"1/2"	2"
KV	15,65	26,26	41,44	63,69	101	169





# FULL FLOW BALL VALVES: IDEAL

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### PRESSURE-TEMPERATURE DIAGRAM

The values shown by the dropping lines state the maximum limit of employment of the valves.

The shown values are approximate.

