



STANDARD FLOW BALL VALVES: VIENNA

116 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	0900014	12/192
3/8" (DN 10)	50bar/725psi	0900038	12/192
1/2" (DN 15)	30bar/435psi	1160012	15/120
3/4" (DN 20)	30bar/435psi	1160034	8/104
1" (DN 25)	30bar/435psi	1160100	8/64
1"1/4 (DN 32)	25bar/362.5psi	1160114	4/32
1"1/2 (DN 40)	25bar/362.5psi	1160112	4/32
2" (DN 50)	25bar/362.5psi	1160200	2/16
2"1/2 (DN 65)	18bar/261psi	1160212	1/9
3" (DN 80)	14bar/203psi	1160300	1/5
4" (DN 100)	12bar/174psi	1160400	1/4

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.

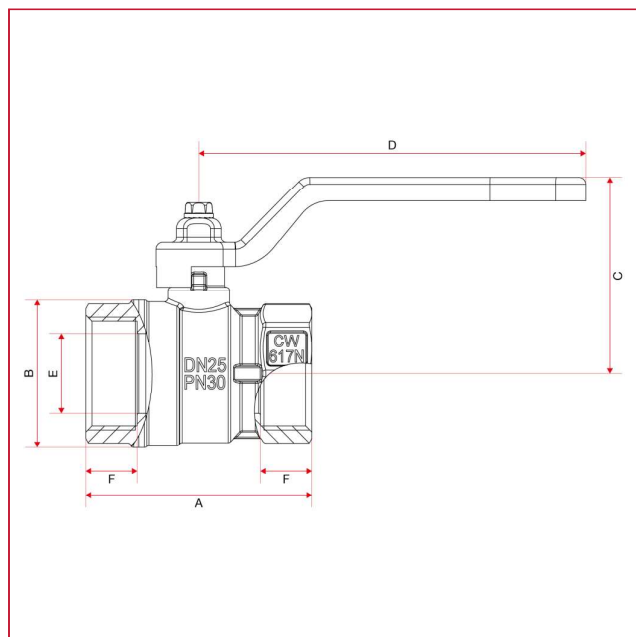
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

Available also with NPT thread in the sizes 2"1/2, 3" and 4".



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OVERALL DIMENSIONS

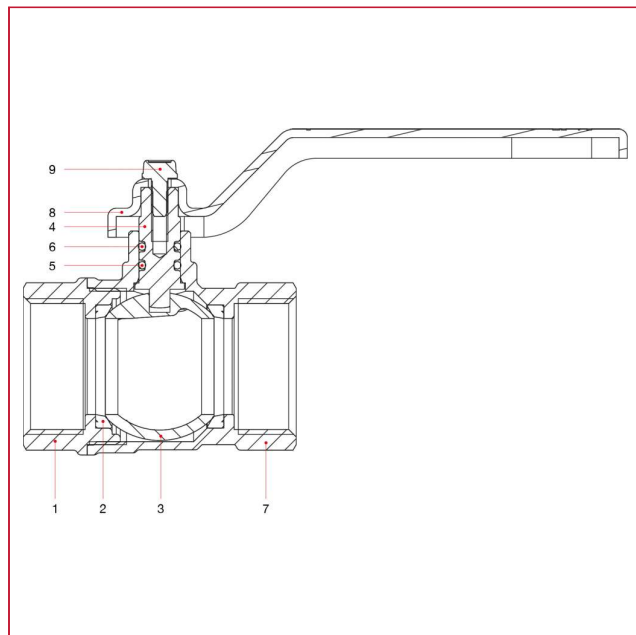


	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
DN	8	10	15	20	25	32	40	50	65	80	100
A	44,4	44,4	48	53	66	76	88	103	128,5	145	175
B	23,5	24	29	36	43	53	63	79	97	117,5	149,5
C	37,3	37,3	40	54	57	73	78	94	110	127	142
D	80	80	80	113	113	138	138	158	197	250	250
E	10	10	14	18,5	23,5	30	37	47	58	70	90
F	10	10	12	12	15	16	18	19	24	24	27
Kg/cm2 bar	50	50	30	30	30	25	25	25	18	14	12
LBS - psi	725	725	435	435	435	362,5	362,5	362,5	261	203	174



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MATERIALS sizes 1/4" through 2"

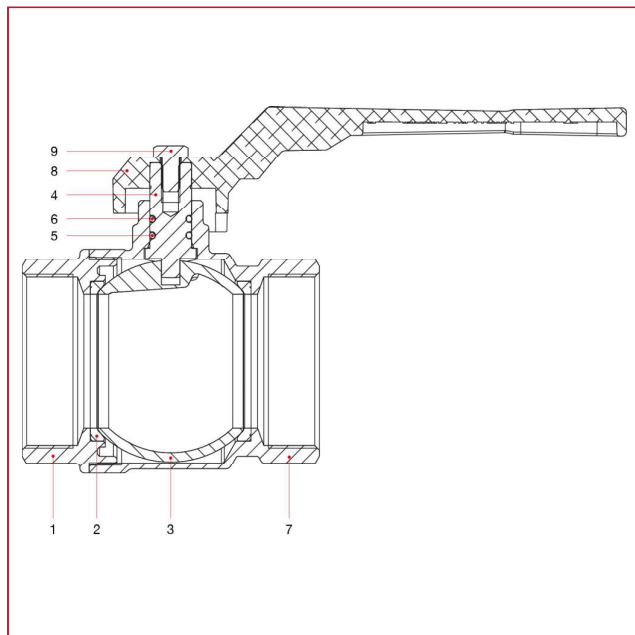


POS.	DESCRIPTION	N.	MATERIAL
1	Female end adapter	1	Nickel-plated brass CW617N
2	Seat	2	P.T.F.E.
3	Ball	1	Chrome-plated brass CW617N
4	Stem	1	Brass CW614N
5	O-ring	1	NBR
6	O-ring	1	Viton®
7	Body	1	Nickel-plated brass CW617N
8	Lever handle	1	Varnished steel P04
9	Screw	1	Zinc-plated steel C4C



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MATERIALS sizes 2"1/2 through 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	Lever handle	1	Varnished aluminium
9	Screw	1	Zinc-plated CB4 FF (C34)



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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;
- 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

ITAP S.p.A.

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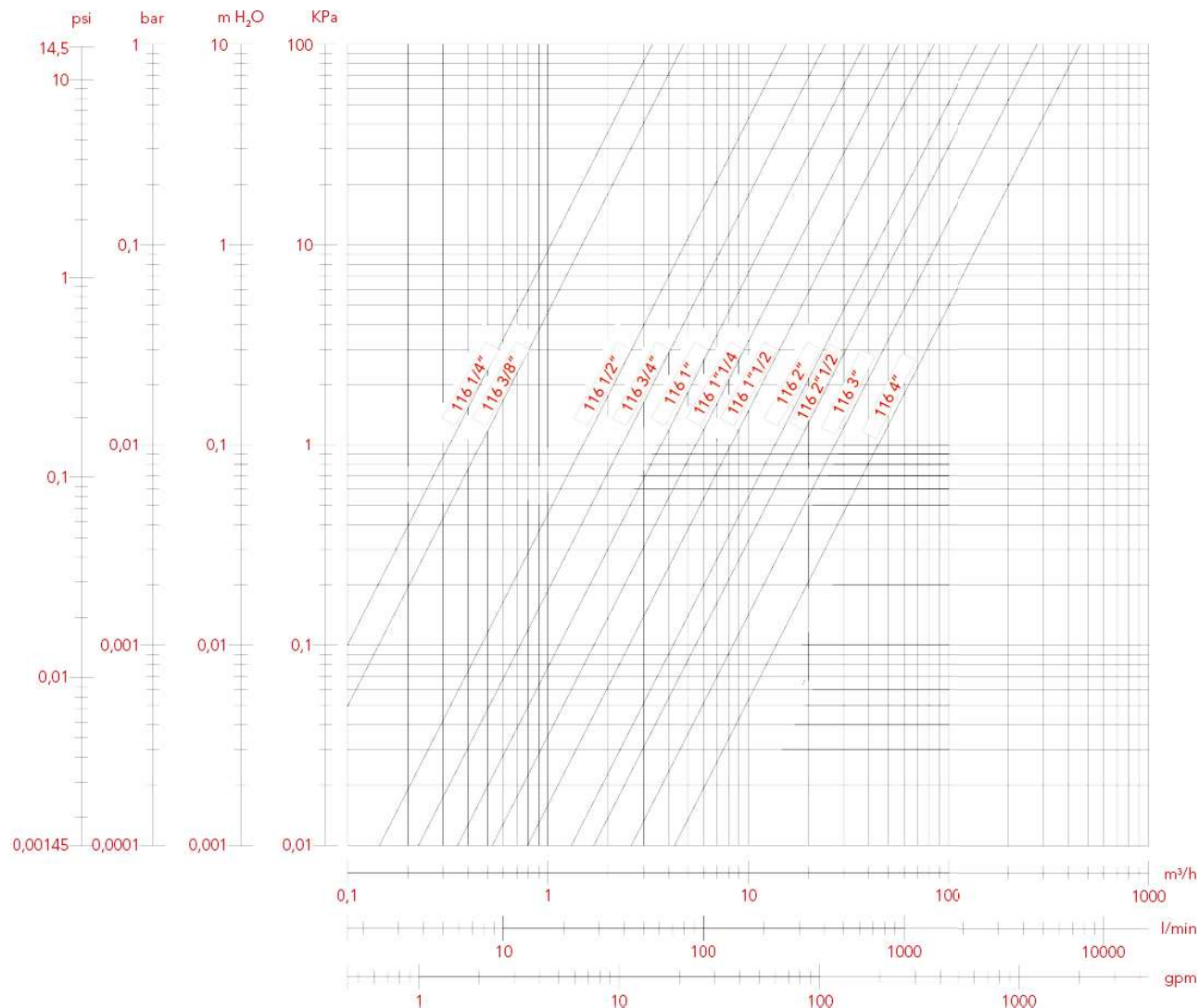
web: www.itap.it



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LOSS DIAGRAM (With water)

	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
KV	3,33	4,92	14,65	23,46	38,67	56,07	86,60	160,5	183,1	280,6	461





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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.

