



## STANDARD FLOW BALL VALVES: VIENNA

### 216 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	2160014	12/192
3/8" (DN 10)	50bar/725psi	2160038	12/192
1/2" (DN 15)	30bar/435psi	2160012	15/120
3/4" (DN 20)	30bar/435psi	2160034	8/64
1" (DN 25)	30bar/435psi	2160100	8/64
1"1/4 (DN 32)	25bar/362.5psi	2160114	4/32
1"1/2 (DN 40)	25bar/362.5psi	2160112	4/24
2" (DN 50)	25bar/362.5psi	2160200	2/18

#### 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.

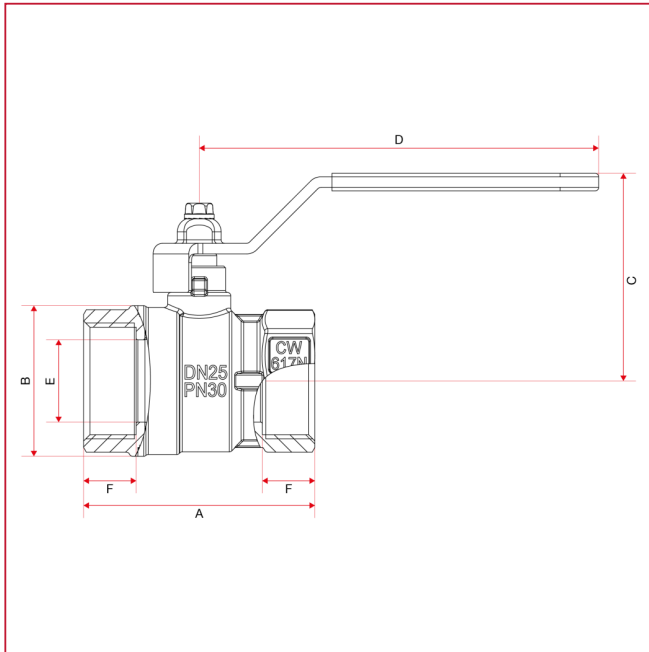
Minimum and maximum working temperatures: -20°C, 150°C in absence of steam.

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



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### OVERALL DIMENSIONS

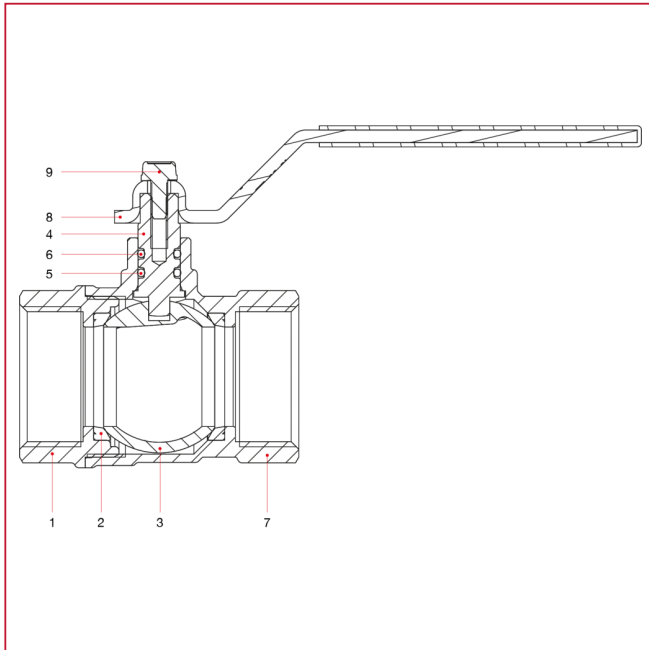


	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
DN	8	10	15	20	25	32	40	50
A	44,4	44,4	48	53	66	76	88	103
B	23,5	24	29	36	43	53	63	79
C	42,3	42,3	44,8	55,8	59,3	74,3	79,3	95,8
D	86	86	86	114	114	138,5	138,5	158
E	10	10	14	18,5	23,5	30	37	47
F	10	10	12	12	15	16	18	19
G	10							
Kg/cm <sup>2</sup> bar	50	50	30	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	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	Flat lever handle	1	Zinc-plated and plastic coated 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 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

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## STANDARD FLOW BALL VALVES: VIENNA

### 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

