

Universal Ball Valve DIN-DVGW Gas and Potable Water

DIN-DVGW approved according to DIN-EN 13828 (potable water) and DIN-EN 331 (gas)



GAS
DIN-EN 331



POTABLE WATER
DIN-EN 13828



Pressure Rating:

MOP 5 (5 bar / 72,5 psi) gas

PN 40 (580 psi) water *

PN 10 (145 psi) potable water

Temperature Rating max. 100°C (212°F) water (no steam),
(depending on pressure)

For higher temperatures and steam see Fig. 594

Min. / max. ambient Temperature -20°C to 60°C (-4°F to 140°F) gas

Forged Brass Body

Threaded Ends according to ISO 7

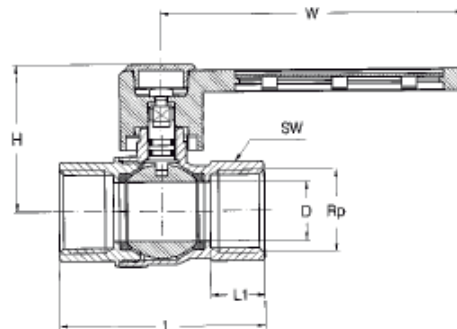
Full Port Opening

Blow Out Proof Stem

Chrome Plated Ball



* 18°C (64,4°F) water



Rp	D	L	L1	SW	H	W
1/2	15	58	15	25	44	100
3/4	20	68	16,3	31	48	100
1	25	82	19,1	38	52	100
1 1/4	32	94	21,4	47	62	120
1 1/2	40	103	21,4	53	67	120
2	50	126	25,7	66	85	150

Dimensions in mm

1	Valve body	CW617N- DIN EN 12164/5
2	Seat ring	PTFE
3	Ball	CW617N- DIN EN 12164/5
4	Body end	CW617N- DIN EN 12164/5
5	Stem	CW617N- DIN EN 12164/5
6	O-Ring	FKM
7	Handle	Aluminium AlSi12Cu2(Fe)
8	Handle screw	Steel, zinc plated



www.imt-ch.com e-mail: imt@imt-ch.com

SWITZERLAND IMT ARMATUREN AG Unterlettenstrasse 10 • CH-9443 Widnau • Tel. +41-71-7443971
ITALY IMT ARMATUREN S.R.L. Via delle Fontane, 66 • I-13011 Borgosesia • Tel. +39-0163-204555 Fax +39-0163-204556

Application

The ball valve 492 is used in residential, commercial and industrial applications.

It is designed for use on heating, potable water, gas, compressed air, oils and steam, but not on aggressive fluids. Pay attention also on additives (see also resistance table for other uses) !

The ball valve is used as a shutoff device according to DIN-EN 13828 and DIN-EN 331. It is not used as a regulating device and has to be in fully opened or fully closed position.

The IMT ball valve is DIN-DVGW certified for potable water up to 2". It can be installed in potable water systems, provided that the relevant norms are respected. It is not resistant against all types of corrosion.

The ball valve has not been heat treated.

Installation

The ball valve can be used in each direction. The handle is reversible for tight space applications. Piping should have clean threads free from dirt and debris; copper pipe applications should be cut and burrs removed before installation.

The tubing must be precisely cut in order to avoid the valve be subject to mechanical bending moment.

There are no pressure losses because the dimensions of the pipe and the valve are the same.

PTFE-based sealants are recommended for the connection. Attention! Too much seal tape can destroy the threads. See also our installation instruction for ball valves.

Maintenance

Once the valve is properly installed there is no maintenance required, but the valve should be operated regularly to maintain a smooth operation, according to DIN EN 806-5. Attention! Aggressive fluids and additives can attack the PTFE seats, "O" rings or "Loctite" connection between body and body end.

Operation

The ball valve opens by rotating the handle 90° in a counter-clockwise direction and closes by rotating the handle 90° in a clockwise direction.

The handle direction indicates whether the valve is opened or closed. If the handle is on the same line of the tubing, the valve is opened; if it's placed at 90° respect to the tubing, then the valve is closed.

Brass

IMT uses only brass according to the latest European norms DIN EN 12165 which corresponds to American norm ASTM C37700 and DIN EN 12164 which corresponds to American norm ASTM C38500.

Advantages

- Body and body end made of forging brass
- Chrome plated ball
- Full port opening
- Blow out proof stem
- Free handle position, handle can be turned 180° if there is a space problem
- Stem with 2 O-rings - double safety - stem is better supported during opening and closing operation
- Various handle types fit on this valve
- Various accessories available
- 100% electronic leakage control, additional manual leakage control according to AQL and various controls during manufacturing
- 100% made in Europe

Design

Ball valve designed to shut off fluids filled pipe systems.

DIN-DVGW approved for potable water according to DIN-EN 13828 and for gas according to DIN-EN 331.

Threads according to ISO 7 from 1/2" to 2".

Body and body end made of forging brass, chromium plated ball made of forging brass or machining brass. Stem made of machining brass with 2 "O" Rings, blow out proof assembled. Ball seats in PTFE. It is normally delivered with red MULTILOGO handle or yellow steel handle.

Versions:

Fig. 492 FF M Female Ends with MULTILOGO Handle

Fig. 492 FF ST Female Ends with yellow steel Handle

Fig. 492 FF Female Ends with red aluminum Handle

Fig. 492 FF MT Female Ends with MULTILOGO T-Handle

Fig. 492 FF MF Female Ends with MULTILOGO butterfly Handle

Accessories

Fig. 492+005	Insulation custom-made
Fig. 492+008	Locking Handle
Fig. 492+009	Memory Stop
Fig. 492+010	Stem Extension