



Bronze Full Port Ball Valve

PN40 Size ½" to 2" only

Specifications:

IVAL® Bronze Ball Valve with EN1982 CC491K Body, two-piece construction, PN40 rating.

Anti-blow out stem, adjustable packing.

Full Bore Chrome Plated Brass (CW617N) Ball. PTFE seat and stem seal.

Operator: Lever, Quarter turn.

UK END CONNECTION: BSPT Taper Threaded to BS EN 10226-1, compatible with ISO 7/1.

WRAS approved.

Features:

- Ball Valves are light, compact units which are easy to install and operate, yet their robust construction ensures long, trouble-free service life.
- PN40 Pressure rating to suit demanding system pressures.
- 90° handle operation for simple use
- Full bore design to facilitate optimal flow rates with minimum turbulence
- Conforms to MSS-SP-110.

Pressure/Temperature Ratings:

Temperature (°C)	-10 to +100	140	
Pressure (Bar)	40	18	

Intermediate pressure ratings shall be determined by interpolation.

Test Pressures:

Each valve is individually Pneumatic / air tested to BS EN12266 undergoes the standard 6 bar air test.

(PNEUMATIC) Shell: 6 bar - Seat: 6 bar

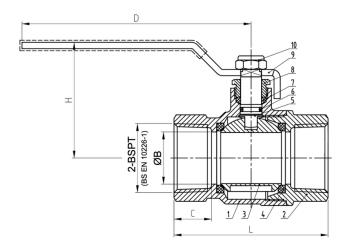
Materials:

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No.	Description	Material	Specification	
1	Valve Body	Bronze	EN1982 CC491K	
2	Bonnet	Bronze	EN1982 CC491K	
3	Ball	Chrome pl. Brass	EN12165 CW617N	
4	Seat	PTFE	-	
5	Stem	Brass	EN12164 CW617N	
6	O-Ring	NBR	-	
7	Packing	PTFE	-	
8	Packing Nut	Brass	EN12164 CW617N	
9	Handle	Carbon Steel	Zinc Plated	
10	Hex Nut	Stainless Steel	AISI 304	

TECHNICAL DATASHEET





Dimensions:

Size	L	С	ØB	Н	D	Weight
1/2"	54	14.5	15	42.5	95	225
3/4"	62	15	20	51	110	350
1"	74	18	25	55.5	110	535
1.1/4"	85	18.5	32	82	141	805
1.1/2"	94	18.5	40	87.5	141	1,110
2"	109.5	19.5	50	98	165	1,765

All dimensions in mm and Weight (Wt.) is in grams unless otherwise stated.

Suitable for use on Group 2 Gas and Group 2 Liquids as defined by Pressure Equipment Directive 2014/68/EU, and Pressure Equipment (Safety) Regulations 2016, as amended. Not suitable for use on Group 1 Gases or liquids.





Flow Characteristics:

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Size	DN15 - 1/2"	DN20 - 3/4"	DN25 – 1"	DN32 - 1.1/4"	DN40 - 1.1/2"	DN50 – 2"
Kv (m³/h)	13.16	28.4	35.67	72.09	98.73	187.66

Formula linking flow $\bf Q$ (in I/s) and theoretical valve head loss $\bf \Delta P$ (in KPa):

$$\Delta P = \left(\frac{36.\,\mathrm{Q}}{K_v}\right)^2$$

Pressure Loss vs. Flow Rate Chart:

