L40

WRAS APPROVED PRODUCT

Bronze Globe Valve

PN20

Size ½" to 2" only

TECHNICAL DATASHEET

Specifications:

IVAL® Bronze Globe Valve with Body, Bonnet of Bronze to EN1982 CC491K, Brass Stem and Disc to EN12164 CW617N, PN20 rated.

Design according to BS 5154:1991

Design incorporates a bronze 35-degree wide angle disc retained on stem by a threaded ring; body seat is integral of the narrow contact angled type.

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

WRAS approved

Features:

- High quality bronze body with robust spherical shape
- PTFE Seal Ring.
- Suitable for industrial applications where flow of water must be regulated or controlled on opening.
- Rising Stem and Screwed Bonnet.
- Assures accurate flow regulation/control.
- Suitable for water -10°C to 110°C.

Pressure/Temperature Ratings:

Temperature (°C)	-20 to +110	110
Pressure (Bar)	20	18.3

Intermediate pressure ratings shall be determined by interpolation.

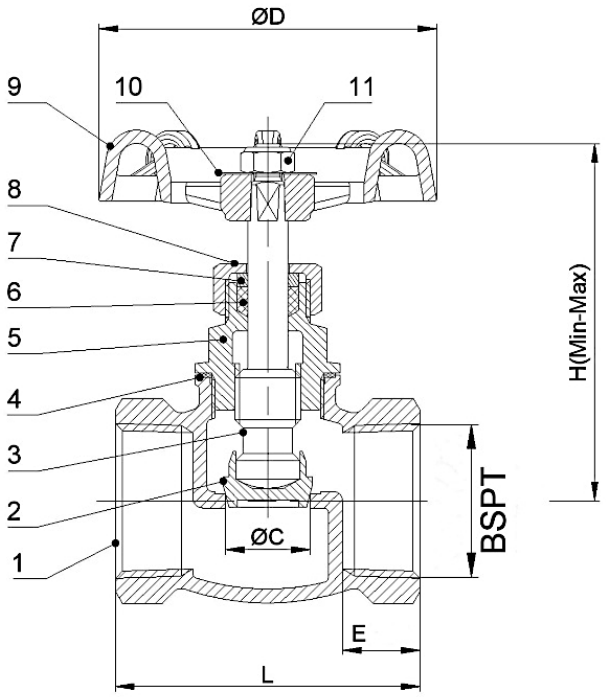
Test Pressures:

Each valve is individually hydrostatically / air tested at the following test:
(PNEUMATIC) Shell: 6 bar - **Seat:** 6 bar
(HYDRAULIC) Shell: 30 bar - **Seat:** 22 bar

Materials:

No.	Description	Material	Specification
1	Body	Bronze	EN 1982 CC491K
2	Disk	Brass	EN12164 CW617N
3	Stem	Brass	EN12164 CW617N
4	Seal Ring	PTFE	-
5	Bonnet	Bronze	EN 1982 CC491K
6	Packing	PTFE	-
7	Gasket	Brass	EN12164 CW617N
8	Packing Gland	Brass	EN12164 CW617N
9	Handwheel	Cast Iron	EN-GJL-200
10	Nameplate	L2	-
11	Nut	Stainless Steel	AISI 304

This valve is not suitable for use on group 1 gases or unstable group 1 fluids, as defined by the Pressure Equipment Directive 2014/68/EU.



Dimensions:

Size	L	C	D	E	H	Wt.
DN15	50	10.5	60	13.5	62.5-69.5	266
DN20	56	13	60	14.5	69.5-77	333
DN25	65	18	72	16.5	76.7-85	547
DN32	74	23	72	18	88.6-99	776
DN40	80	30	78	18	98.1-109	1,011
DN50	100	38	100	22.5	114.6-131	1,665

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

ISOLATION VALVES

Email: info@ival-hydronics.co.uk – **Website:** www.ival-hydronics.co.uk

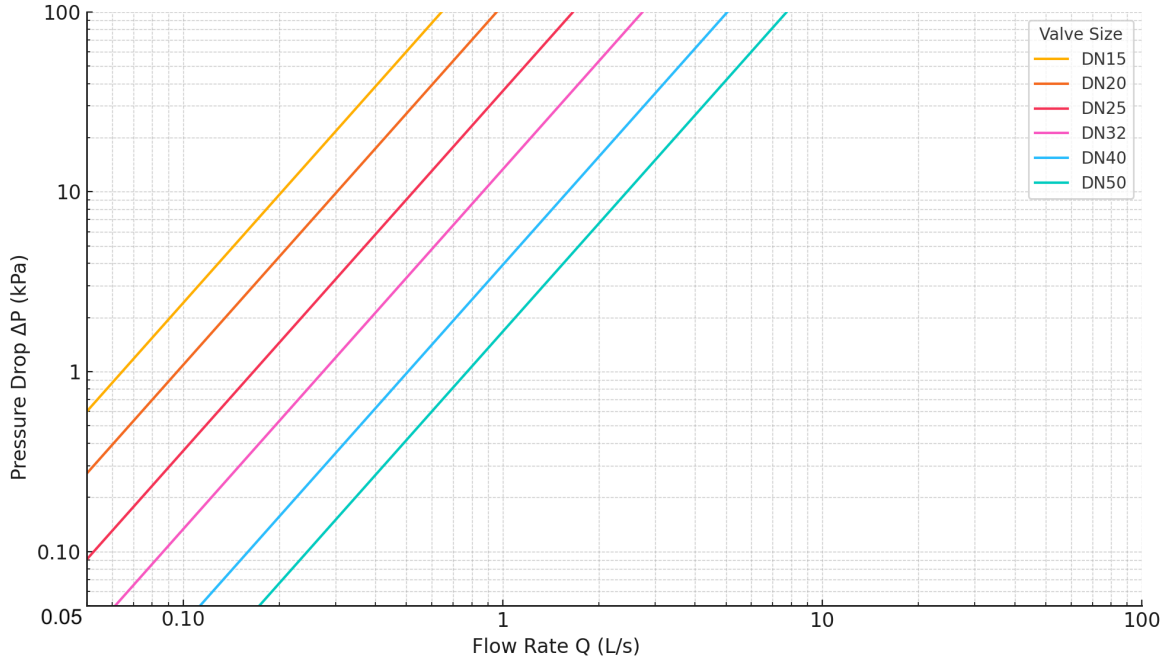
Flow Characteristics:

Size	DN15 - 1/2"	DN20 – 3/4"	DN25 – 1"	DN32 – 1.1/4"	DN40 – 1.1/2"	DN50 – 2"
Kv (m³/h)	2.06	3.41	5.97	9.48	15.36	27.6

Formula linking flow **Q (in l/s)** and theoretical valve head loss **ΔP (in KPa)**:

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

Pressure Loss vs. Flow Rate Chart:



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