

L70

Ductile Iron Globe Valve

PN16

Size 2½" to 12"

Specifications:

IVAL® Globe Valve with Body, bonnet and disc made of ductile iron.

Rising Stem with Outside Screw & Yoke (OS&Y).

Flanged according to EN1092-2 standard.

Features:

- High quality Ductile Iron body with robust spherical shape.
- Suitable for industrial applications where flow of water must be regulated or controlled on opening.
- Assures accurate flow regulation/control.
- Suitable for water -10°C to 110°C.

Pressure/Temperature Ratings:

Temperature (°C)	-10 to +110
Pressure (Bar)	16

Materials:

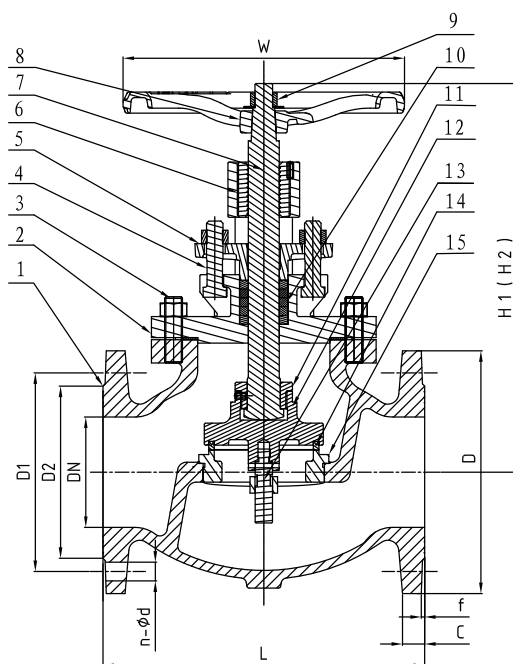
No.	Description	Material	Specification
1	Valve Body	Ductile Iron	EN-GJS-450-10
2	Bonnet	Ductile Iron	EN-GJS-450-10
3	Stud	Carbon Steel	Zinc Plated
4	Nut/Bolt	Carbon Steel	Zinc Plated
5	Gland	Ductile Iron	EN-GJS-450-10
6	Stem Nut	Brass	EN12165 CW614N
7	Stem	Stainless Steel	AISI 420
8	Handwheel	Ductile Iron	EN-GJS-450-10
9	Nut	Carbon Steel	Zinc Plated
10	Stem Packing	Graphite	-
11	Disc Cover	Ductile Iron	EN-GJS-450-10
12	Disc	Ductile Iron	EN-GJS-450-10
13	Guidepost	Stainless Steel	AISI 304
14	Disc Seal Ring	Stainless Steel	AISI 304
15	Seat Ring	Stainless Steel	AISI 304

Dimensions:

DN		Dimensions (mm)							Weight (Kg)
Inch	mm	L	H1 (Close)	H2 (Open)	D	D1	n-Ød	W	
2.5"	65	216	289	327	185	145	4-Ø19	200	18.9
3"	80	241	330	363	200	160	8-Ø19	200	23.6
4"	100	292	343	376	220	180	8-Ø19	250	38.5
5"	125	330	367	422	250	210	8-Ø19	250	47.3
6"	150	356	444	502	285	240	8-Ø23	300	69.5
8"	200	495	485	566	340	295	12-Ø23	400	113.9
10"	250	622	539	641	405	355	12-Ø28	500	172.3
12"	300	698	697	821	460	410	12-Ø28	500	235.9

This valve is not suitable for use on Gases Group 1 & 2 or unstable fluids Group 1, as defined by the Pressure Equipment Directive 2014/68/EU.

TECHNICAL DATASHEET



Test Pressures:

Each valve is individually hydrostatically tested at the following test:

(HYDRAULIC) Shell: 24 bar - **Seat:** 17.6 bar

Flow Characteristics:

Size	Kv (m³/h)
DN65 – 2.1/2"	64.5
DN80 – 3"	97.7
DN100 – 4"	152.6
DN125 – 5"	238.4
DN150 – 6"	343.4
DN200 – 8"	610.4
DN250 – 10"	953.8
DN300 – 12"	1,373.4

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

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

Pressure Loss vs. Flow Rate Chart: