

Bronze Swing Check Valve

PN20

Size ½" to 2" only

Specifications:

IVAL® Bronze check valve, Swing type, Rubber seated, Threaded Ends, with bronze body and bronze disc to EN1982 CC491K, S. S 304 pin, PN20 rated.

Suitable for mounting in horizontal and vertical pipe (with vertical flow upwards).

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

WRAS approved

Features:

- Bronze body for increased strength and durability, suitable for installations in corrosive environments.
- Simple swing mechanism.
- Bronze material of construction and robust design ensuring longevity
- EPDM Rubber seat.
- Rated 2.0 MPa.

Pressure/Temperature Ratings:

Temperature (°C)	-10 to +100	110
Pressure (Bar)	20	18

Intermediate pressure ratings shall be determined by interpolation.

Test Pressures:

Each valve is individually hydrostatically / air tested at the following test:

Shell: 6 bar (Pneumatic)

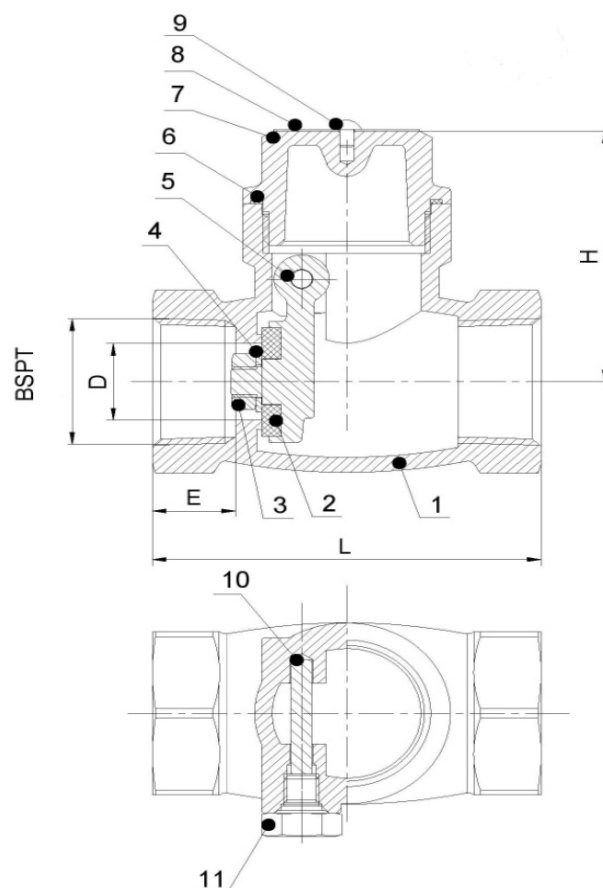
Seat: 22 bar (Hydraulic)

Materials:

No.	Description	Material	Specification
1	Valve Body	Bronze	EN 1982 CC491K
2	Washer	Rubber	EPDM
3	Nut	Stainless Steel	AISI 304
4	Washer Ring	Stainless Steel	AISI 304
5	Disk	Bronze	EN 1982 CC491K
6	Gasket	PTFE	-
7	Bonnet	Bronze	EN 1982 CC491K
8	Nameplate	L2	-
9	Rivets	Stainless Steel	AISI 304
10	Pin	Stainless Steel	AISI 304
11	Screw	Brass	EN12164 CW617N

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



Dimensions:

Size	Thread	L	H	D	E	Weight
DN15	½"	56	41.5	12.7	12	230
DN20	¾"	66	44	19	14	342
DN25	1"	76	52.5	24	15	495
DN32	1 ¼"	88	58.5	31	17	858
DN40	1 ½"	96	67	38	18	1,060
DN50	2"	112	74	49	20	1,580

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



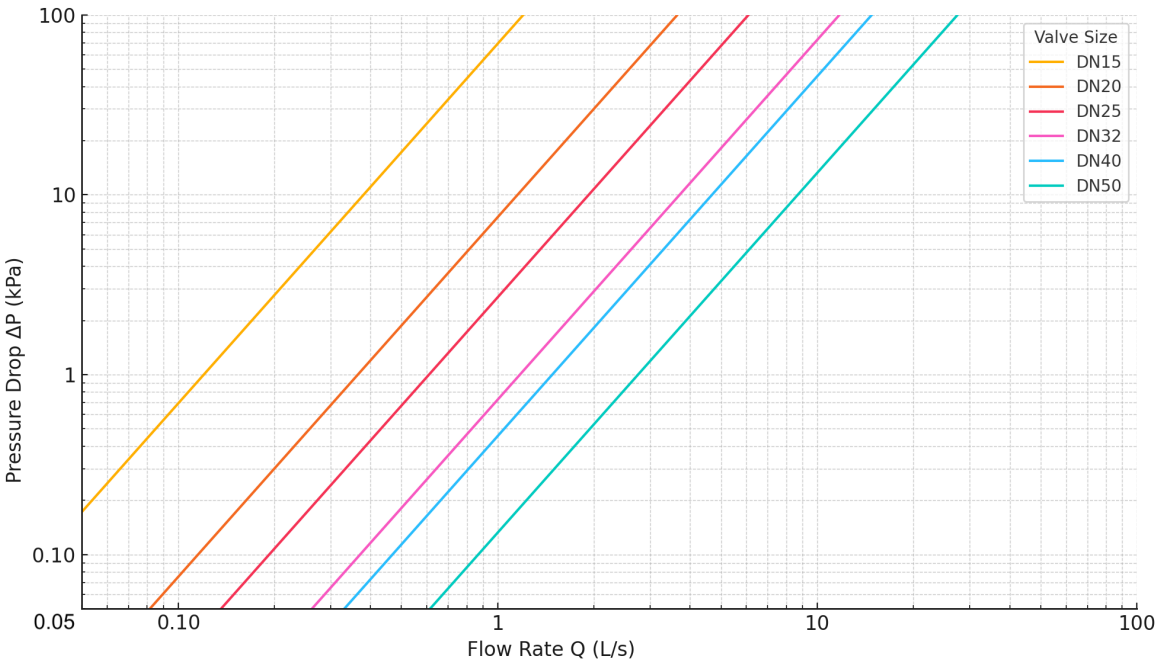
Flow Characteristics:

Size	DN15 - 1/2"	DN20 - 3/4"	DN25 - 1"	DN32 - 1.1/4"	DN40 - 1.1/2"	DN50 - 2"
Kv (m³/h)	4.33	13.14	21.94	42.24	53.33	98.94

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:



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