C72

WRAS APPROVED PRODUCT

Ductile Iron Dual Plate Wafer Check Valve

PN16

Size 2½" to 16"

TECHNICAL DATASHEET

CHECK VALVES

Specifications:

IVAL® Dual Plate Wafer type Check Valve, in. accordance with BS EN 16767. Ductile Iron Body, SS316 Disc, SS420 Stem and SS304 spring, EPDM seat.

Suitable for installation in vertical and horizontal pipelines. When installed in vertical pipelines the flow must be in an upward direction.

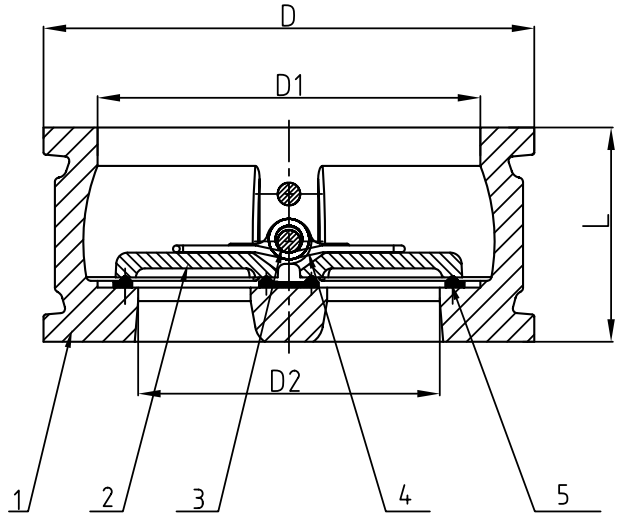
Valve has C550 corrosion level epoxy coating.

Minimum Opening Pressure: 4kPa

WRAS approved.

Features:

- Check valves permit flow in one direction only and close automatically if flow reverses, depending upon pressure and velocity of flow to perform the functions of the opening and closing.
- EPDM rubber seat to facilitate quiet operation and improve disk seating.
- Non-Slam design as a result of rubber seat and spring-assisted closure.
- Design and construction lend itself to pump duty applications.



Pressure/Temperature Ratings:

Temperature (°C)	-10 to +100
Pressure (Bar)	16

Test Pressures:

Each valve is individually hydrostatically tested EN12266-1 at the following test:
(HYDRAULIC) Shell: 24 bar

Materials:

No.	Description	Material	Specification
1	Body	Ductile Iron	EN-GJS-450-10
2	Disc	Stainless Steel	AISI 316
3	Stem	Stainless Steel	AISI 420
4	Spring	Stainless Steel	AISI 304
5	Rubber Seat	EPDM	-

This valve is suitable for use on Group 2 liquids only, as defined by the Pressure Equipment Directive 2014/68/EU.

Dimensions:

DN		Dimensions (mm)				Wt. (Kg)
Inch	mm	L	D	D1	D2	
2.5"	**65**	60	127	78	60	2.02
3"	**80**	57	134	102	70	2.46
4"	**100**	67	162	117	84	3.93
5"	**125**	83	194	145	115	5.97
6"	**150**	95	218	170	134	7.71
8"	**200**	127	277	226	184	13.99
10"	**250**	140	336	265	220	23.29
12"	**300**	181	406	310	260	36.54
14"	**350**	184	447	360	302	61.11
16"	**400**	191	505	410	350	79.95

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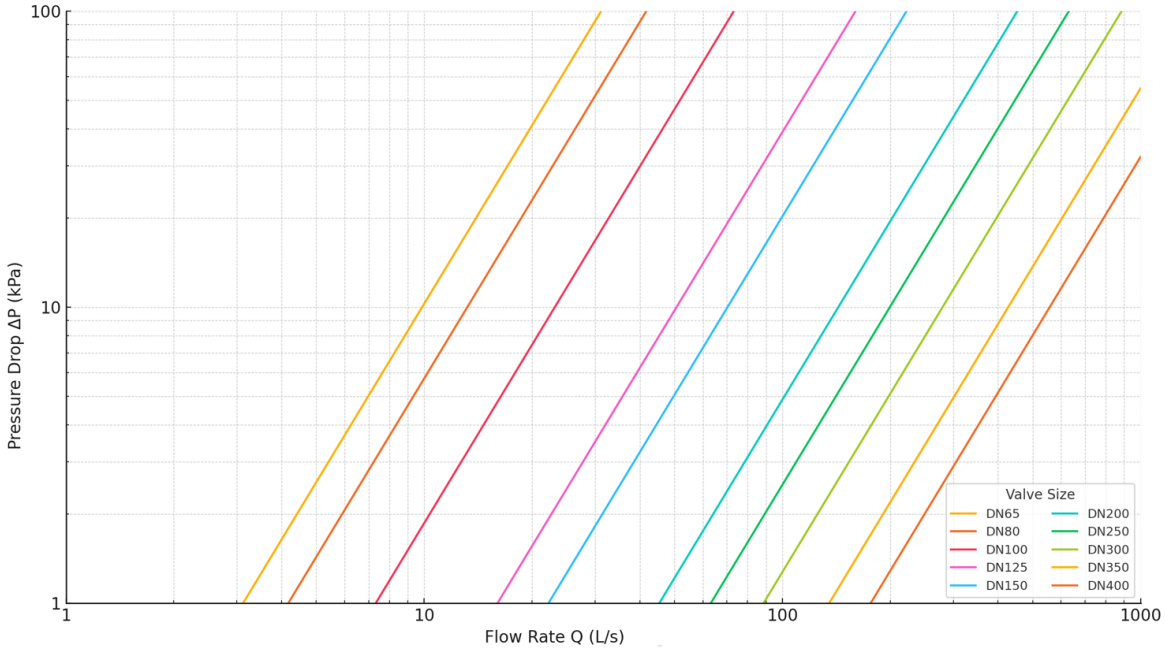
Flow Characteristics:

Size	Kv (m³/h)
DN65 – 2.1/2”	112.37
DN80 – 3”	150.27
DN100 – 4”	263.72
DN125 – 5”	576.75
DN150 – 6”	800.43
DN200 – 8”	1,631.85
DN250 – 10”	2,272.63
DN300 – 12”	3,189.63
DN350 – 14”	4,864.01
DN400 – 16”	6,350.4

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

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

Pressure Loss vs. Flow Rate Chart:



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