S70

WRAS APPROVED PRODUCT

Ductile Iron Y-Strainer

PN16

Size 2½" to 24"

TECHNICAL DATASHEET

Specifications:

IVAL® Y-Strainer with Body and bonnet are made of ductile iron. The mesh is made of stainless steel.

The mesh screen diameter hole sizes are as follows:

DN50 – DN125: 1.5mm diameter

DN150 – DN300: 2mm diameter

Flanged according to EN1092-2 standard.

WRAS Approved.

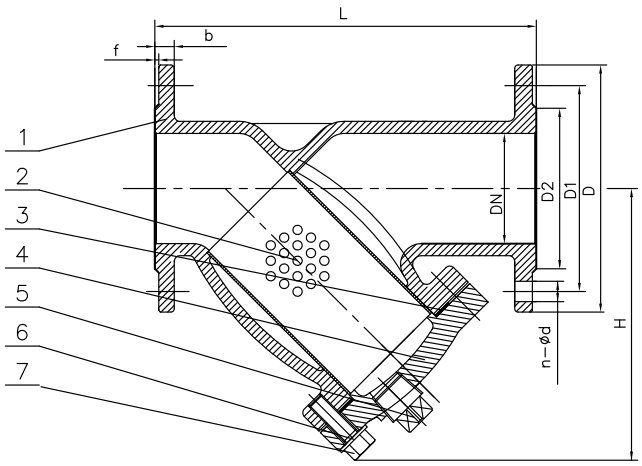
Features:

- Helps to protect the system by trapping foreign matter within piping systems.
- Drain plug in cap as standard.
- Stainless steel screen.
- Fusion Bonded Epoxy coating complies with ANSI/AWWA C550.

Pressure/Temperature Ratings:

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

This product is suitable for use on Group 2 liquids only, as defined by the Pressure Equipment Directive 2014/68/EU – Article 13.



Materials:

No.	Description	Material	Specification
1	Valve Body	Ductile Iron	EN-GJS-450-10
2	Screen	Stainless Steel	AISI 304
3	Gasket	EPDM	-
4	Bonnet	Ductile Iron	EN-GJS-450-10
5	Plug	Malleable Iron	Galvanized
6	Flat Washer	Carbon Steel	Zinc Plated
7	Bolt	Carbon Steel	Zinc Plated

Test Pressures:

Each valve is individually hydrostatically tested at the following test:

(HYDRAULIC) Shell: 24 bar

Dimensions:

DN		Dimensions (mm)							Weight (Kg)
Inch	mm	L	D	D1	D2	b	n-ØL	H	
2.5"	**65**	290	185	145	118	19	4-Ø19	175	11.8
3"	**80**	310	200	160	132	19	8-Ø19	198	13.7
4"	**100**	350	220	180	156	19	8-Ø19	229	17.5
5"	**125**	400	250	210	184	19	8-Ø19	287	29.0
6"	**150**	480	285	240	211	19	8-Ø23	304	35.1
8"	**200**	600	340	295	266	20	12-Ø23	370.5	64.1
10"	**250**	730	405	355	319	22	12-Ø28	469	94.9
12"	**300**	850	460	410	370	24.5	12-Ø28	540	155.2
14"	**350**	838	520	470	429	26.5	16-Ø28	625	207.6
16"	**400**	864	580	525	480	28	16-Ø31	715	278.6
18"	**450**	1200	640	585	548	30	20-Ø31	862	433.0
20"	**500**	1250	715	650	609	31.5	20-Ø34	926	533.8
24"	**600**	1450	840	770	720	36	20-Ø37	1057	835.5

FILTRATION

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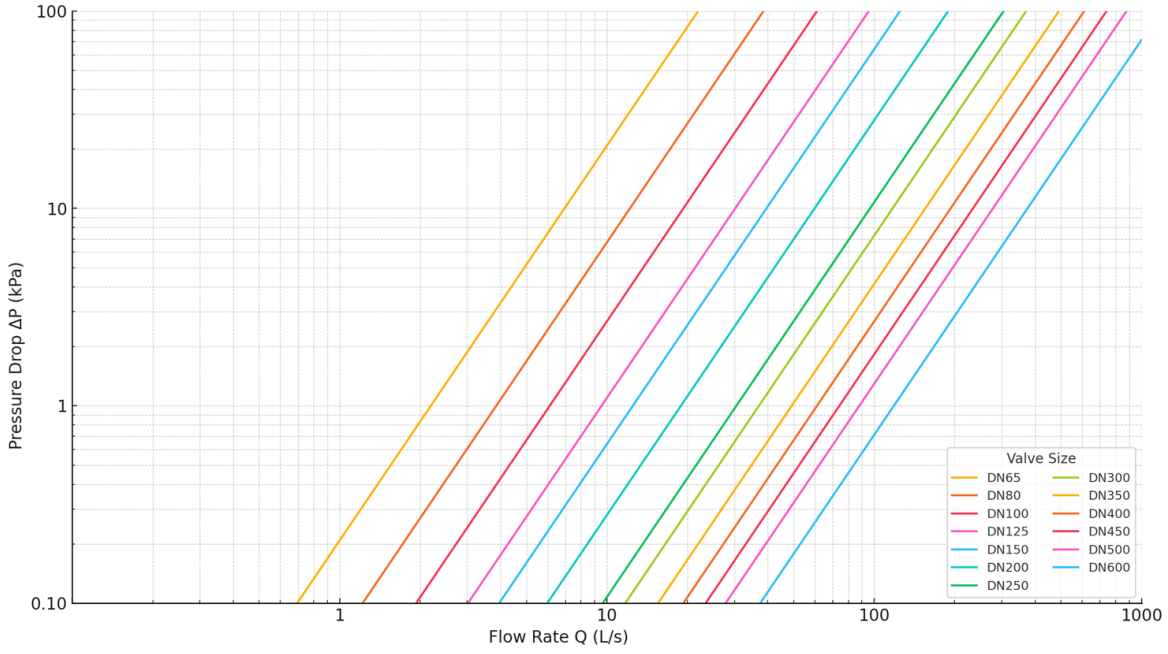
Flow Characteristics:

Size	Kv (m³/h)
DN65 – 2.1/2"	79
DN80 – 3"	138.8
DN100 – 4"	220
DN125 – 5"	343.75
DN150 – 6"	450
DN200 – 8"	680.94
DN250 – 10"	1,098.04
DN300 – 12"	1,333.44
DN350 – 14"	1,768.42
DN400 – 16"	2,199.17
DN450 – 18"	2,665.42
DN500 – 20"	3,165.66
DN600 – 24"	4,263.13

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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