IRUA TECH Ind.
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AXIAL FLOW CHECK VALVE

2018

Axial Flow Check Valves (Nozzle Check)

Description

Silent check valves designed to prevent reverse flow automatically.

The valve shall open when upstream pressure exceeds downstream pressure by 0,2 bar approx.

An internal spring shall close the valve just prior to equalizing of pressure on both sides of the plug providing a quiet and non-slamming valve closure. Figure 288 check valve is the ideal valve to combat water hammer and protect the water lines.

Fast response to flow changes

Very short closing stroke

Specifications

Sizes from DN50 to DN1000

Rating PN16/ 25/ 40/ 64/ 100

150/ 300/ 400/ 600 acc to ANSI

Materials

Body: Ductile Iron EN GJS 500-7

Plug: Stainless Steel A304 up to DN350

WCB + A304 in seat area from DN400

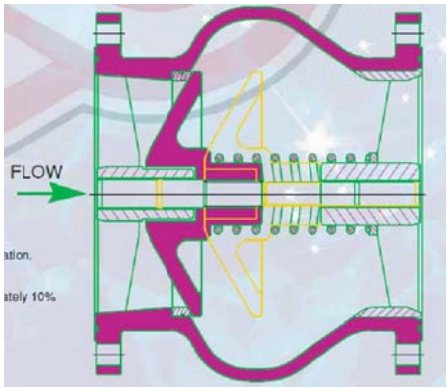
Shaft: Stainless Steel A304

Bushings: Bronze Rg5

Spring: Stainless Steel A303

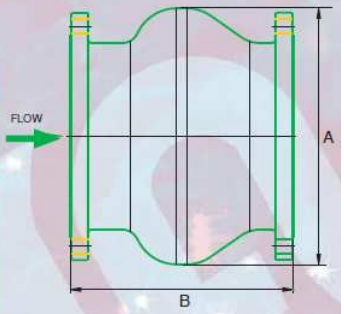
Coating: Body and Plug Internal and External minimum 200 microns (FBE)

Other materials and coatings available under request.



DIMENSIONS (MM) AND WEIGHTS (KG)

DN	50	80	100	150	200	250	300	350	400	450	500	600	700	800	900	1000
A	107	200	220	285	340	425	519	560	625	700	772	918	1.030	1.406	1.600	1.750
B	75	150	184	248	318	400	362	388	549	600	686	813	900	960	1.050	1.200
Weight	4	13	23	45	68	92	115	170	220	330	415	720	890	1.210	1.480	1.820
Connection	Wafer	Flange	Flange	Flange	Flange	Flange	Flange	Flange	Flange	Flange	Flange	Flange	Flange	Flange	Flange	Flange



FLOW RATE / Kv FACTOR

DN	DN50	DN80	DN100	DN150	DN200	DN250	DN300	DN350	DN400	DN450	DN500	DN600	DN700	DN800
Kv	59	150	234	526	935	1461	2105	2865	3914	4972	6131	8382	11426	14880

$$\Delta P = \left(\frac{Q}{Kv} \right)^2$$

PRESSURE DROP IN VALVE

The Kv factor represents the flow capacity (Q) in m^3/h of water, flowing across the valve with a pressure drop (ΔP) of 1 bar.