

JOHN FIG 404

Cast Iron
Swing Check
Valve

The JOHN cast iron swing check valves are designed to give genuine full-bore flow on lines carrying liquids that are non-injurious to the specified materials. They operate equally well in either horizontal or vertical installations. In service, the valve disc swings away from the seat on a hinge and returns quickly and accurately to the closed position immediately flow ceases or attempts to reverse.

Valve Overview

Body Material	S.G. Cast Iron
Size Range	DN50-DN600
Max Working Pressure	Water, Oil, Gas: 2100 kPa @ 95°C
Hydrostatic test Pressure	Body: 4200kPa Seat: 2310 kPa
Flanges	Flanged AS 2129 Table F Undrilled, can be drilled to table C,D,E, F or ANSI



Materials

ITEM	PART	MATERIAL	SPECIFICATION
1	Body	S.G. Iron	AS 1831-400/15
2	Cover	S.G. Iron	AS 1831-400/15
3	Disc	S.G. Iron	AS 1831-400/15
4	Seat	Gunmetal	AS 1565-C83600
5	Hinge Pin	Stainless Steel	AS 2837-316

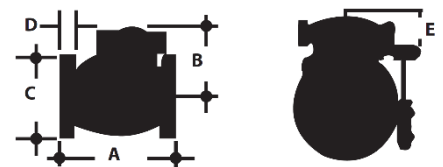
Dimensions (measurements in mm)

Size	A	B	C	D	E	Kg	Cv	Kv	K
50	240	133	150	19	120	13	123	2.9	0.95
65	260	140	165	19	130	18	194	4.6	0.93
80	260	159	185	19	145	25	284	6.7	0.90
100	330	190	230	22	166	38	519	12.3	0.85
150	410	241	305	25	210	74	1243	29.3	0.75
200	540	306	335	29	246	130	2240	52.9	0.73
225	610	335	370	29	275	165	2855	67.4	0.72
250	640	381	405	29	290	188	3574	84.3	0.70
300	700	432	455	32	385	305	5221	123	0.68
350	826	476	525	35	490	680	7269	172	0.65
375	820	476	550	35	490	680	8344	197	0.65
400	920	476	580	35	490	680	11776	278	0.65
450	970	570	640	38	550	900	12205	288	0.63
500	1070	570	705	41	550	1020	15440	364	0.60
600	1220	816	850	44	815	16650	22234	525	0.60

- Capable of temperatures up to 120°C
- Available in larger sizes upon request.
- It is recommended that valves are installed a minimum of 8-10 pipe diameters from the pump.
- It is good engineering practice to fit a counterweight to valves incorporating an extended hinge pin
- Available in other materials and trims

OPTIONAL EXTRAS

- Flanged AS 2129 Table F Undrilled, can be drilled to table C,D,E, F or ANSI
- Extended hinge pin
- Counterweight
- Open/shut indicator.
- Remote position indication
- No-flow limit switch
- Fusion bonded epoxy coating
- Special paint finish



Dimension 'E' only applies when valves are fitted with extended hinge pin.

Cv = Flow Coefficient US Gal/min. to give 1 psi pressure drop.

Kv = Flow Coefficient L/s to give 1 kPa pressure drop.

K = Dimension less resistance Coefficient. Dimensions in mm. Weights in Kg.



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