

Bronze Swing Check Valve - PN25

Screwed in Bonnet, Integral Seat
Screwed Female BSP Parallel Threads to BS 21

Minimum Operating Conditions

Sizes 1/2" to 1" require 0.5 bar (7.25psi) minimum line pressure with a differential pressure of 1 to 1.5psi to allow the valve to open and close.

Maximum Pressure Conditions

	Max Pressure Conditions (bar)		Test Pressures (bar)	
	Temperatures up to 100°C	Temperatures up to 186°C	Shell	Seat
1/2" - 2"	25.0	10.5	37.5	27.5

Pressure Equipment Directive Category

1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
SEP	SEP	SEP	SEP	SEP	SEP

Category 2 carries CE mark.

Flow Rates

	1/2"				3/4"			
Flow (l/s)	0.04	0.10	0.20	0.40	0.04	0.10	0.40	1.00
Cv	2.1	4.3	5.9	6.5	3.1	6.3	15.6	17.6
Kv	1.8	3.7	5.1	5.7	2.7	5.5	13.6	15.3
	1"				1 1/4"			
Flow (l/s)	0.01	0.20	0.30	1.00	0.20	0.30	0.10	1.00
Cv	8.8	16.0	21.1	29.1	17.2	23.7	29.1	37.5
Kv	7.7	13.9	18.4	25.3	15.0	20.6	25.3	32.6
	1 1/2"				2"			
Flow (l/s)	0.40	0.60	0.80	3.00	0.60	0.80	1.50	4.00
Cv	34.8	46.2	55.7	62.5	48.3	62.0	99.0	112.6
Kv	30.3	40.2	48.5	54.4	42.0	54.0	86.2	98.0

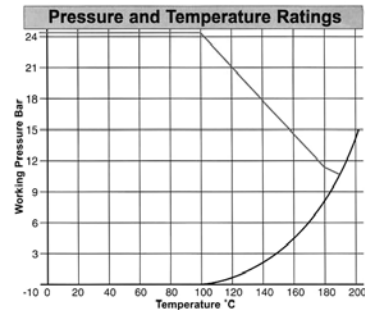
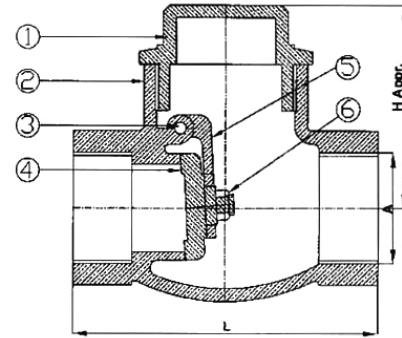
*Cv - Flow rate in US GPM at a pressure drop of 1 psi.

*Kv - flow rate in m³ per hour at a pressure drop of 1 bar.

Note*: 2 1/2", 3" and 4" information available on request.

Material List

Part No.	Qty.	Description	Material	Specification
1	1	Bonnet	Bronze	BS 1400 LG2
2	1	Body	Bronze	BS 1400 LG2
3	1	Hinge Pin	Brass	CZ114 OF BS 2872 / 2874
4	1	Disc	Bronze	BS 1400 LG2
5	1	Lever	Bronze	BS 1400 LG2
6	1	Nut	Brass	CZ114 OF BS 2872 / 2874



Dimensions

Size	A	L	H
15	1/2" BSP	60	47
20	3/4" BSP	70	51
25	1" BSP	80	55
32	1 1/4" BSP	95	63
40	1 1/2" BSP	110	67
50	2" BSP	125	82
65	2 1/2" BSP	151	103
80	3" BSP	180	114
100	4" BSP	216	136