

## Bronze Horizontal Lift Type - PN32

Integral Reinforced PTFE Seat, Screwed BSPP Female BS21

### 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 198°C	Shell	Seat
1/2" - 2"	32.0	14.0	48.0	35.2

### Pressure Equipment Directive Category

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

### Flow Rates

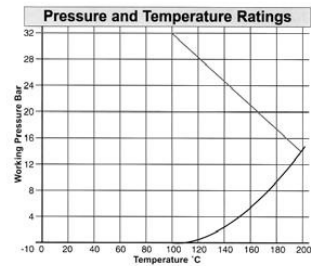
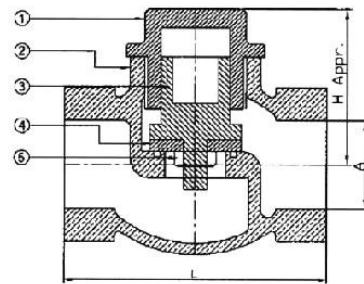
	1/2"				3/4"			
	Flow (l/s)	0.025	0.050	0.100	0.200	0.075	0.100	0.150
Cv	1.0	1.7	2.2	3.0	2.8	3.5	3.9	4.0
Kv	0.8	1.5	1.9	2.6	2.4	2.9	3.4	3.5
	1"				1 1/4"			
	Flow (l/s)	0.050	0.100	0.200	0.400	0.060	0.080	0.200
Cv	2.2	4.1	7.3	9.8	2.5	3.4	7.9	16.1
Kv	1.9	3.6	6.3	8.5	2.2	2.9	6.8	13.9
	1 1/2"				2"			
	Flow (l/s)	0.100	0.300	0.500	0.700	0.200	0.400	0.800
Cv	4.6	12.4	19.4	24.8	8.0	15.5	29.4	45.9
Kv	3.9	10.7	16.8	21.4	6.9	13.4	25.4	39.7

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

\*Kv - flow rate in m<sup>3</sup> per hour at a pressure drop of 1 bar.

### Material List

Part No.	Qty.	Description	Material	Specification
1	1	Bonnet	Bronze	BS 1400 LG2
2	1	Body	Bronze	BS 1400 LG2
3	1	Disc Holder	Bronze	BS 1400 LG2
4	1	Disc	Teflon	Glass Filled PTFE
5	1	Nut	Brass	CZ114 OF BS 2872 / 2874



### Dimensions

Size	A	L	H
15	1/2" BSP	57	38
20	3/4" BSP	67	44
25	1" BSP	79	51
32	1 1/4" BSP	88	52
40	1 1/2" BSP	101	62
50	2" BSP	123	77