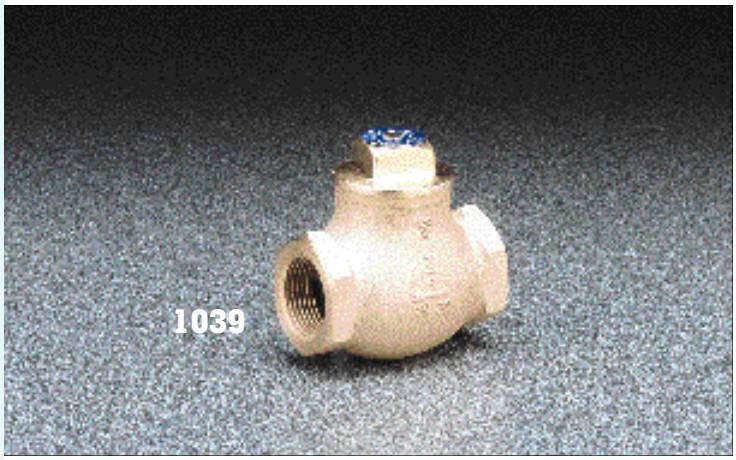
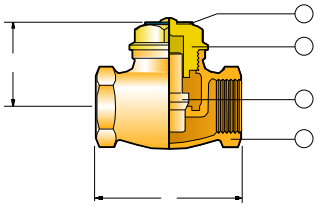
1039 BRONZE HORIZONTAL CHECK VALVE RANGE

- BS5154 PN32 Series B.
- Horizontal Fixing.
- Metal seat and prong type metal disc.
- Body arrow indicates direction of flow.
- BS21 Taper Thread.
- ANSI (NPT) American Taper Thread (AT).
- BS2779 Parallel Thread (PT).



¼ to 2



RANGE	Sizes										
	¼	⅜	½	¾	1	1¼	1½	2	2½	3	4
1039	O	O	O	O	O	O	O	O	O	O	O
1039AT	O	O	O	O	O	O	O	O		O	O
1039PT	O	O	O	O	O	O	O	O			

DIMENSIONS (mm)

A Face to Face	44	46	57	65	78	89	100	121	159	187	235
B Height	30	30	30	40	45	55	60	65	100	115	130
WEIGHT kg	0.23	0.23	0.30	0.32	0.67	1.15	1.49	1.62	5.83	8.38	16.21

FLOW RATES*

	½				¾				1			
Flow (l/s)	0.025	0.050	0.100	0.200	0.075	0.100	0.150	0.200	0.050	0.100	0.200	0.400
Cv	1.0	1.7	2.2	3.0	2.8	3.5	3.9	4.0	2.2	4.1	7.3	9.8
Kv	0.8	1.5	1.9	2.6	2.4	2.9	3.4	3.5	1.9	3.6	6.3	8.5

	1¼				1½				2			
Flow (l/s)	0.060	0.080	0.200	0.600	0.100	0.300	0.500	0.700	0.200	0.400	0.800	1.400
Cv	2.5	3.4	7.9	16.1	4.6	12.4	19.4	24.8	8.0	15.5	29.4	45.9
Kv	2.2	2.9	6.8	13.9	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^3 per hour at a pressure drop of 1 bar.
Note: Flow information on ¼, ⅜, 2½, 3 & 4 is not currently available.

MINIMUM OPERATING CONDITIONS

Sizes ¼ to 2 require 0.5 bar (7.25 psi) minimum line pressure with a differential pressure of 1 to 1.5 psi to allow the valve to open and close.
Sizes 2½ to 4 require 1 bar (14.5 psi) minimum line pressure with a differential pressure of 1.5 to 2 psi to allow the valve to open and close.

MATERIAL SPECIFICATION

No	COMPONENT	MATERIAL
1	Body	Gunmetal
2	Cap	Forged Brass (¼ to 1¼)
		Gravity Die Cast Brass (1½ to 2)
		Gunmetal (2½ to 4)
3	Valve	Gunmetal
4	Rating Disc	Tinned Iron Sheet

Size	Maximum Pressure Conditions (bar)		Test Pressures (bar)	
	Temperatures up to 100°C	Temperatures up to 198°C	Shell	Seat
¼ to 4	32.0	14.0	48.0	35.2

Size	Maximum Pressure Conditions (psi)		Test Pressures (psi)	
	Temperatures up to 212°F	Temperatures up to 389°F	Shell	Seat
¼ to 4	464.1	203.1	696.2	510.5

SUITABLE FOR

Steam	Water	Oil	Air	Gases			
				Inert	Combustible	Corrosive	Oxygen
✔	✔	✔	✘	✘	✘	✘	✘

PRESSURE AND TEMPERATURE RATINGS