

JOB NAME:	CONTRACTOR:
JOB LOCATION:	APPROVAL:
ENGINEER:	CONTRACTOR P.O.:
APPROVAL:	REPRESENTATIVE:

100012 LF

HIGH CAPACITY LEAD FREE BRASS IN-LINE CHECK VALVE WITH NBR SEATS
SIZES 1/4" TO 4"



VALVE FEATURES

- Pressure rating: 1/4" to 2" 400 WOG
- Pressure rating: 2-1/2" to 4" 175 WOG
- Soft seat for bubble tight shutoff, spring loaded for fast seating action
- Low cracking pressure 1/2 psi
- Flow pattern to minimize head loss
- Perfect sealing both at high and low pressure wide temperature range 10°F to 210°F
- High technology materials to ensure best resistance in any condition
- Patented disc to prevent side loading
- Not to be used for drinking water
- ANSI B1.20.1 connections

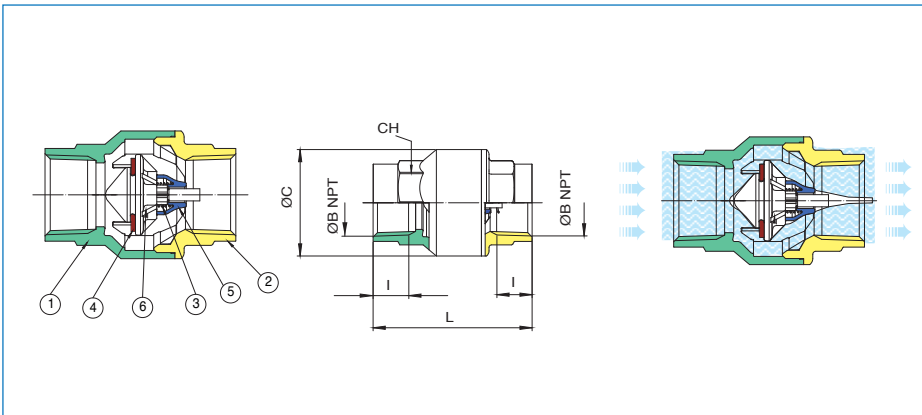
SPECIFICATIONS

The check valve shall be made from a hot forged body for higher tensile strength, and for zero porosity. The spring shall be made from stainless steel, and have a cracking pressure of .5 psi. The disc should be made from high temperature and abrasion resistant Polyetherimide. Further, the valve shall incorporate a patented disc to interior body design to prevent any potential side loading.

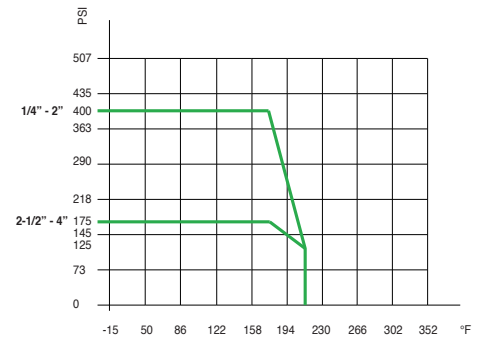
The valve shall offer bubble tight sealing under low as well as high pressure up to 400 WOG in sizes 1/2" - 2", with an elastomeric seat design, and the NPT threads must conform to ANSI B1.20.1.

All brass components shall be made from brass alloy CW510L/ASTM C28500 containing zero Bismuth, thus preventing stress cracking.

The check valve should have high flow capacity with minor restrictions, and approved for Lead Free service under NSF-372.



PRESSURE TEMPERATURE CHART FOR 100012 LF



N POS	PART NAME	MATERIAL	N PCS
1	BODY	LF BRASS C28500*	1
2	END CONNECTION	LF BRASS C28500*	1
3	SPRING	STAINLESS STEEL AISI 302	1
4	SEAT	100002 NBR	1
5	SUPPORT	POM	1
6	DISC	POLYPHENYLENE SULFIDE	1

SIZE ØB	I	L	ØC	CH	psi	Cv	Weight (Lbs.)
1/4"	0.39	1.73	1.06	0.79	400	4.28	0.22
3/8"	0.41	1.73	1.06	0.79	400	4.28	0.37
1/2"	0.54	2.22	1.36	0.98	400	6.71	0.32
3/4"	0.55	2.48	1.65	1.22	400	9.95	0.49
1"	0.66	2.85	1.93	1.50	400	15.97	0.68
1-1/4"	0.68	3.13	2.40	1.89	400	2.37	1.12
1-1/2"	0.68	3.31	2.87	2.13	400	35.75	1.61
2"	0.70	3.62	3.46	2.64	400	56.46	2.28
2-1/2"	0.93	4.37	4.39	3.27	175	91.87	4.83
3"	1.02	4.86	5.24	3.86	175	144.51	6.70
4"	1.09	5.45	6.42	5.04	175	224.92	12.43

* Lead free refers to the wetted surface of pipe, fittings and fixtures in potable water systems that have a weighted average lead content=0.25%. Source: California health & Safety code (116875). Vermont Act 193.