Spring Check Valves

Lead Free Brass
1/4" to 2"

SERIES
5398

Features

- Concentric spring loaded design
- C46500 lead free brass construction
- ASTM 302 stainless steel spring and retaining ring
- EPDM valve body seat
- NPT threaded ends
- Two piece construction
- NSF 61 & 372 certified lead free and suitable for potable water
- 100% tested
- Integrally cast stem supports ensure stem alignment and reduce disc chatter

Description

Concentric design, lead free brass check valves can be used in vertical and horizontal applications. Spring loaded design reduces water hammer. Suitable for non-viscous, smooth-flowing non-particulate media.

Applications

Brass check valves are typically used as a backflow preventer for water, air, oil and other media compatible with the materials of construction. Suitable for vertical installation or horizontal where self-draining is not required.

Flow rates of concentric check valves may be lower than other types of check valve designs.

Operation

The sealing disc on the check valve opens when upstream pressure is sufficient (the cracking pressure), allowing media to flow through the valve. When upstream pressure falls below the cracking pressure an internal spring re-seats the disc, preventing backflow.

Construction

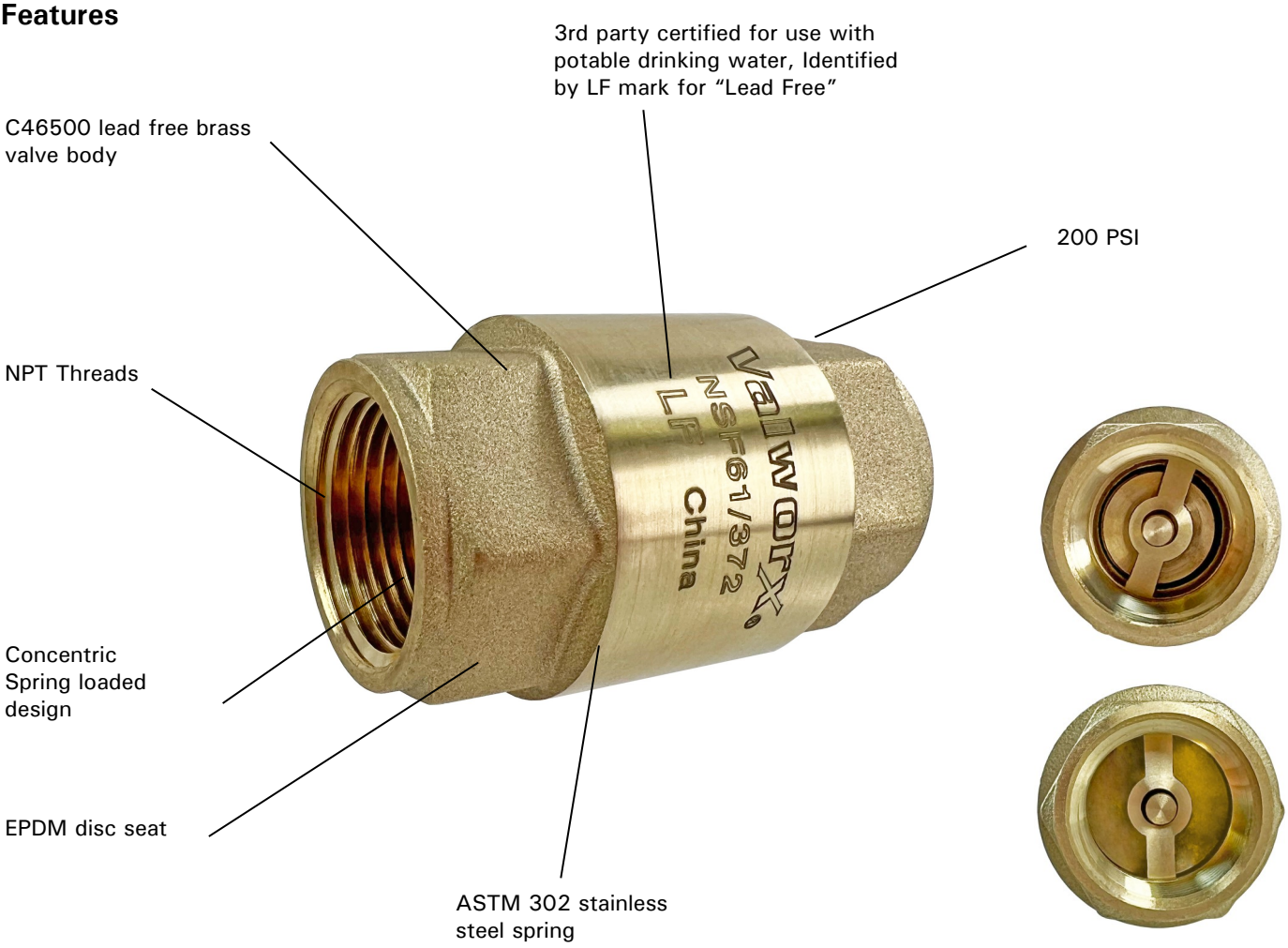
Valve Body	C46500– Lead free brass
Stem/ Disc	C46500– Lead free brass
End Piece	C46500– Lead free brass
Spring	ASTM 302 stainless steel
Disc Seat	EPDM

Standards

- IAPMO RT certified to:
  - NSF/ANSI 372 - 2011 Drinking Water
  - NSF/ANSI 61 - 2015
  - California Health & Safety 116875
  - Section 1417 of Safe Drinking Water Act
  - Weighted average lead content < = 0.25%
- Meets design MSS-SP-110

NSF/ANSI 61 LEAD FREE
IAPMO R&T ®

Features



Integral stem supports ensure alignment and reduce chatter

Pressure/ Temperature Rating

Pressure Rating: 1/4"- 2": 200 PSI

Temperature Rating: 15 to 230° F (-9 to 110° C)

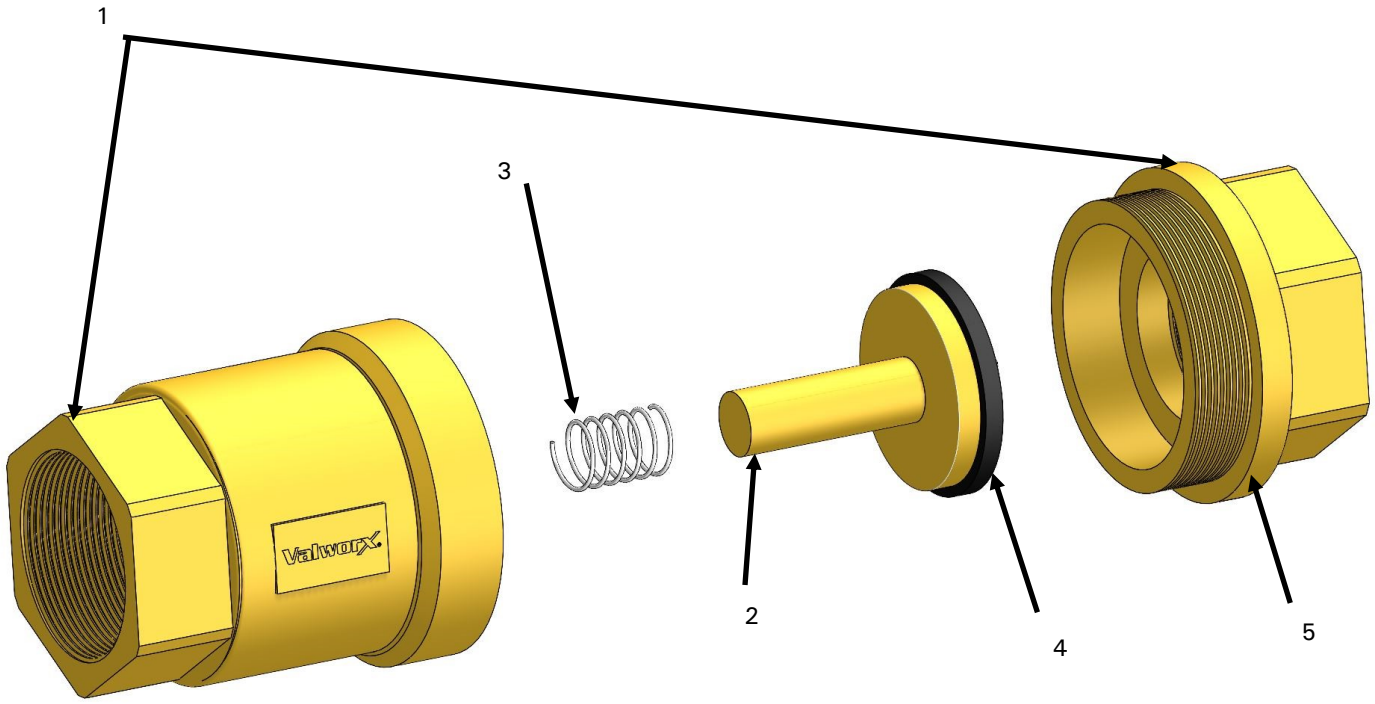
Specifications (English units)

Stock Number	Pipe Size (inch)	Cv	Max Pressure* (PSI)	Cracking Pressure (PSI)	Weight (lbs)
539802	1/4	1.2	200	1.40	0.4
539803	3/8	2.4	200	1.45	0.3
539804	1/2	3.8	200	1.00	0.4
539806	3/4	6.7	200	0.75	0.5
539808	1	9.2	200	0.50	0.8
539810	1-1/4	14.9	200	0.40	1.3
539812	1-1/2	20.9	200	0.30	1.5
539816	2	34.5	200	0.15	2.3

Specifications (Metric units)

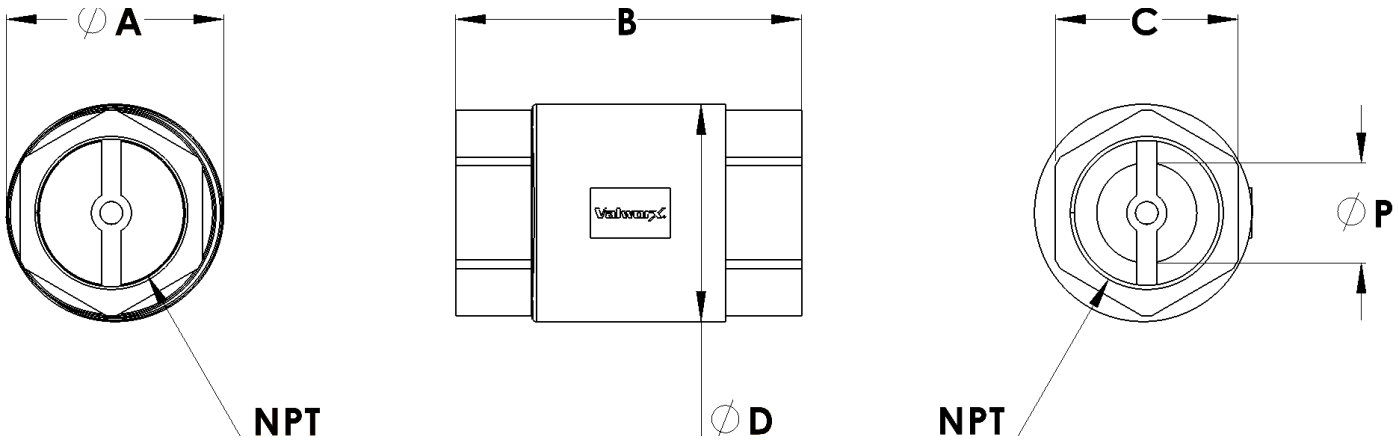
Stock Number	Pipe Size (mm)	Kv	Max Pressure* (Bar)	Cracking Pressure (Bar)	Weight (Kg)
539802	0.45	1.0	13.8	0.04	0.2
539803	0.49	2.1	13.8	0.04	0.1
539804	0.59	3.3	13.8	0.03	0.2
539806	0.79	5.8	13.8	0.03	0.2
539808	1.00	7.9	13.8	0.03	0.3
539810	1.25	12.9	13.8	0.03	0.6
539812	1.50	18.1	13.8	0.04	0.7
539816	2.00	29.8	13.8	0.04	1.0

Specifications (Parts Assembly)



Item	Part	Material
1	Body	C46500
2	Stem with Disc	C46500
3	SPRING	ASTM 302 SS
4	Disc Seat	EPDM
5	End CAP	C46500

Dimensions



Pipe Size		A	B	C	D	P
1/2	inch	1.5	1.9	1.0	1.2	0.4
	mm	37.5	47.6	25.0	31.5	11.0
3/8	inch	1.5	1.9	1.0	1.2	0.6
	mm	37.5	48.2	25.0	31.5	14.0
1/2	inch	1.5	2.2	1.0	1.2	0.6
	mm	37.5	56.2	25.0	31.5	15.0
3/4	inch	1.7	2.3	1.2	1.5	0.8
	mm	42.0	58.8	31.0	37.6	20.0
1	inch	1.9	2.7	1.5	1.8	1.0
	mm	48.0	69.3	37.5	45.6	25.0
1 1/4	inch	2.3	3.0	1.8	2.3	1.2
	mm	58.0	76.3	46.5	58.8	30.0
1 1/2	inch	2.8	3.0	2.1	2.5	1.5
	mm	70.0	76.8	53.0	63.8	38.0
2	inch	3.2	3.3	2.5	3.2	1.9
	mm	81.5	84.8	64.5	80.2	47.0