



## SERIES 161N - 162N COMPACT STYLE

Brass ball valve, FNPT threaded, full port sizes 1/2" to 4".

- Pressure rating 600 WOG-150 WSP.
- Temperature range -4°F to +366°F.
- Blow out proof stem, chrome plated brass ball.
- P.T.F.E seats and double O-ring stem packing.
- 100% electronically tested in the open and closed position at 80 psi.
- Not to be used for drinking water.
- Valve to be used in fully open or fully closed position.
- ANSI B1.20.1 connections.

**161N:** LEVER HANDLE - size 1/2" to 4".

**162N:** T-HANDLE - size 1/2" to 1".

For sizes 1/4", 3/8" see 171N.



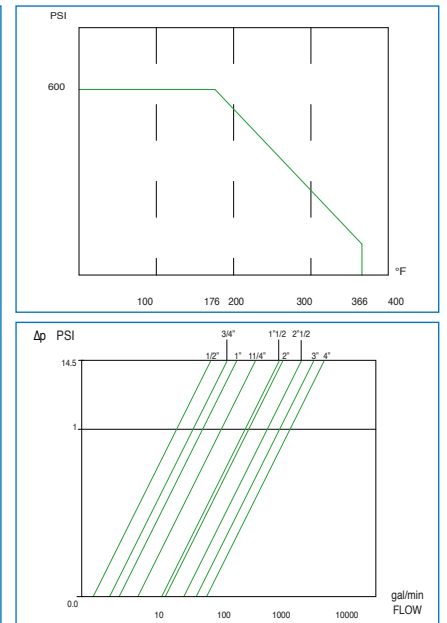
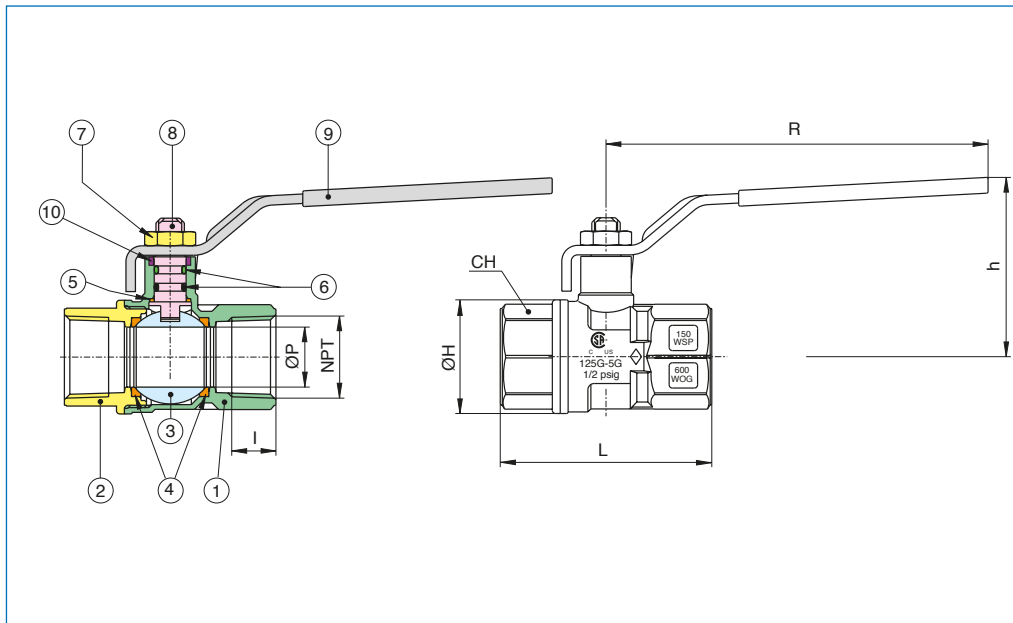
400 WOG



C US



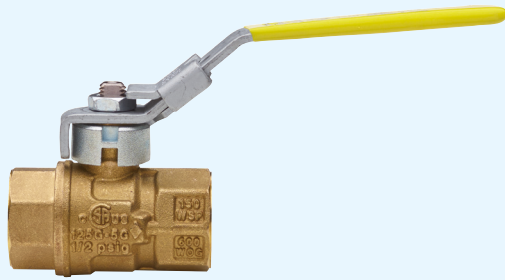
MEETS THE DESIGN CRITERIA OF MSS\_SP\_110.



N POS	PART NAME	MATERIAL	N PCS
1	BODY	BRASS C38000	1
2	END CONNECTION	BRASS C38000	1
3	BALL	BRASS C38000	1
4	BALL SEAT	P.T.F.E	2
5	THRUST WASHER	P.T.F.E	1
6	O-RING	FKM (Viton®) NBR	1 1
7	NUT	STEEL CL04	1
8	STEM	BRASS C38500	1
9	HANDLE	STEEL DD11	1
10	PACKING RING	P.T.F.E	1

SIZE	ØP	I	L	ØH	CH	R	h	Cv	psi	Weight Lbs
1/2"	0.55	0.54	2.22	1.18	0.98	3.78	1.77	18.15	600	0.40
3/4"	0.75	0.55	2.46	1.42	1.22	4.76	2.22	32.37	600	0.68
1"	0.94	0.66	3.01	1.71	1.50	4.76	2.32	47.98	600	0.98
1 1/4"	1.19	0.68	3.37	2.09	1.89	5.94	2.85	97.80	600	1.66
1 1/2"	1.50	0.68	3.70	2.56	2.13	5.94	3.09	252.60	600	2.16
2"	1.95	0.70	4.31	3.39	2.64	6.30	3.70	290.75	600	3.52
2 1/2"	2.44	0.93	5.16	4.09	3.27	8.07	4.59	593.06	600	6.67
3"	2.99	1.02	5.94	4.96	3.86	8.07	4.98	958.84	600	9.82
4"	2.99	1.09	6.50	4.96	4.92	8.07	4.98	1526.59	600	12.57

**WARNING:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov).



## SERIES 161L COMPACT STYLE

Brass ball valve, FNPT threaded, full port sizes 1/2" to 4", with latch lock handle.

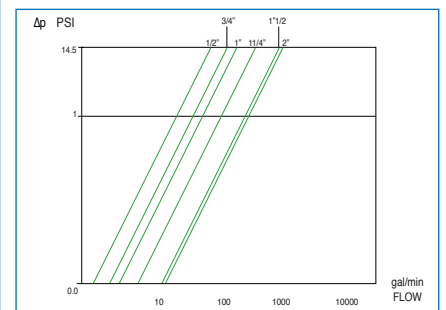
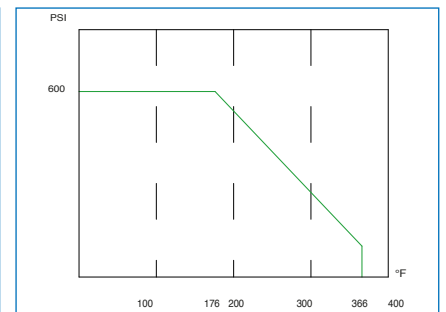
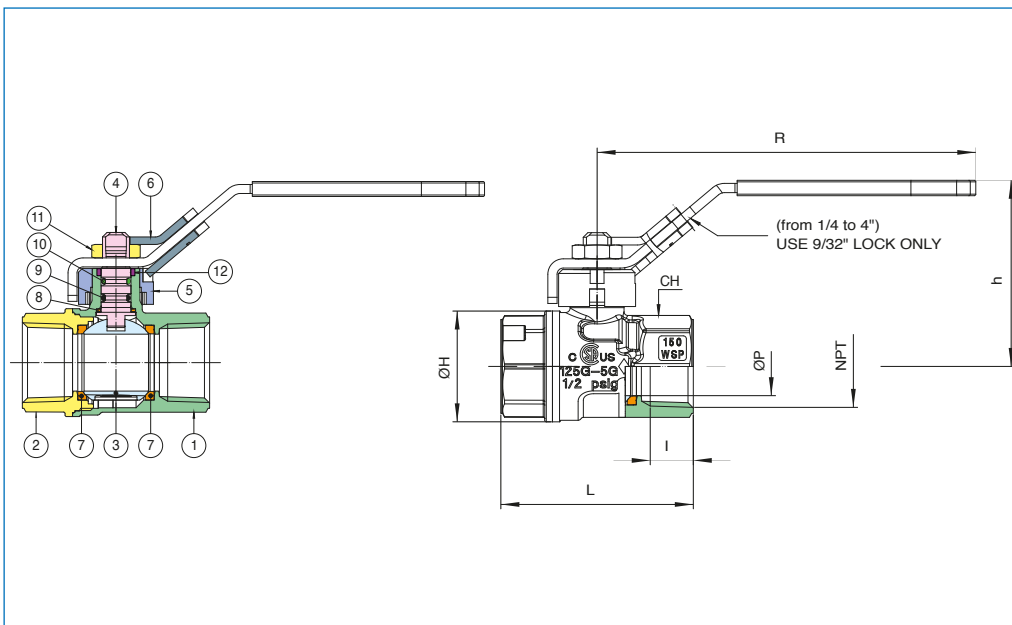
- Pressure rating 600 WOG-150 WSP.
  - Temperature range -4°F to 366°F.
  - Blow out proof stem, chrome plated brass ball.
  - P.T.F.E seats and double O-ring stem packing.
  - 100% electronically tested in the open and closed position at 80 psi.
  - Not to be used for drinking water.
  - Valve to be used in fully open or fully closed position.
  - ANSI B1.20.1 connections.
- For sizes 1/4", 3/8" see 171L.



400 WOG



C US

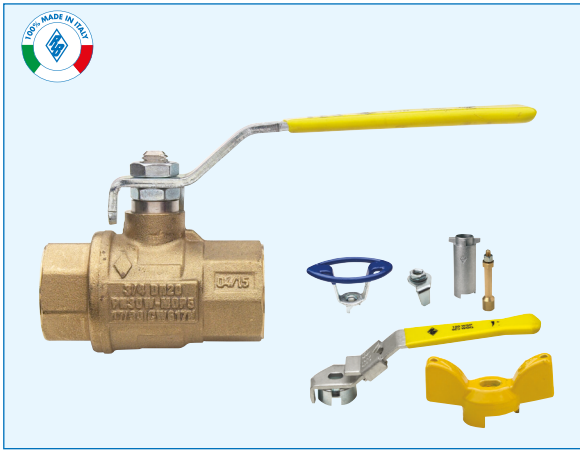


N POS	PART NAME	MATERIAL	N PCS
1	BODY	BRASS C38000	1
2	END CONNECTION	BRASS C38000	1
3	BALL	BRASS C38000	1
4	STEM	BRASS C38500	1
5	BUSH	G Zn Al4	1
6	HANDLE	STEEL DD11	1
7	BALL SEAT	P.T.F.E	2
8	THRUST WASHER	P.T.F.E	1
9	O-RING	NBR	1
10	O-RING	FKM (Viton®)	1
11	NUT	STEEL CL04	1
12	PACKING RING	P.T.F.E	1

SIZE	ØP	I	L	ØH	CH	R	h	Cv	psi	Weight Lbs
1/2"	0.55	0.54	2.22	1.18	0.98	3.78	1.91	18.15	600	0.46
3/4"	0.75	0.55	2.46	1.42	1.22	4.84	2.38	32.37	600	0.79
1"	0.94	0.66	3.01	1.71	1.50	4.84	2.48	47.98	600	1.10
1 1/4"	1.19	0.68	3.37	2.09	1.89	5.94	3.01	97.80	600	1.78
1 1/2"	1.50	0.68	3.70	2.56	2.13	5.94	3.23	252.60	600	2.34
2"	1.95	0.70	4.31	3.39	2.64	6.30	3.78	290.75	600	4.03
2 1/2"	2.44	0.93	5.16	4.09	3.27	8.07	4.59	593.06	600	6.67
3"	2.99	1.02	5.94	4.96	3.86	8.07	4.98	958.84	600	9.82
4"	2.99	1.09	6.50	4.96	4.92	8.07	4.98	1526.59	600	12.57

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## SERIES 171N - 172N COMMERCIAL STYLE

- Brass ball valve, FNPT threaded, full port sizes 1/4" to 4".
- Pressure rating 600 WOG-150 WSP.
  - Temperature range -4°F to +366°F.
  - Blow out proof stem, chrome plated brass ball.
  - P.T.F.E seats, seals, and thrust washer.
  - Adjustable stem packing.
  - 100% electronically tested in the open and closed position at 80 psi.
  - Not to be used for drinking water.
  - Valve to be used in fully open or fully closed position.
  - ANSI B1.20.1 connections.

**171N:** LEVER HANDLE - size 1/4" to 4".

**172N:** T HANDLE - size 1/4" to 1".

**171S:** BALL AND STEM IN STAINLESS STEEL AISI 316 - size 1/4" to 4".

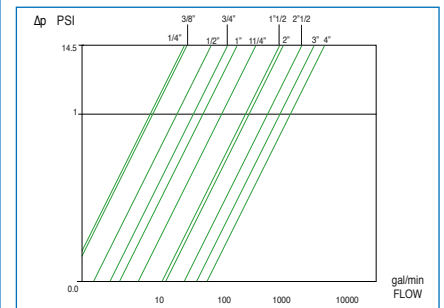
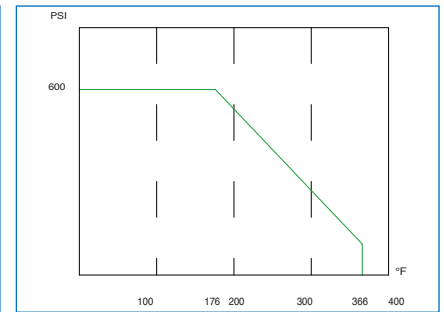
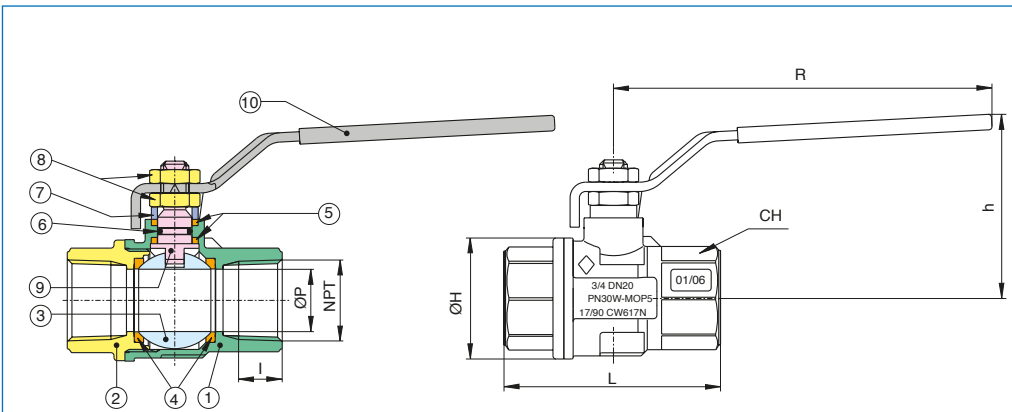
**171NCR:** CHROME PLATED - size 1/4" to 4".



up to 2"



MEETS THE DESIGN CRITERIA OF MSS\_SP\_110.



The Buna O-ring is fitted to the stem of the valve as the best possible protection against potential gas leakage under extreme duty, or low pressure applications. A secondary P.T.F.E stem seal will also assure that the valve is suitable for use up to 366°F.

N POS	PART NAME	MATERIAL	N PCS
1	BODY	BRASS C38000	1
2	END CONNECTION	BRASS C38000	1
3	BALL	BRASS C38000	1
4	BALL SEAT	P.T.F.E	2
5	THRUST WASHER/STEM SEAT	P.T.F.E	2
6	O-RING	NBR	1
7	PACKING GLAND	BRASS C38500	1
8	NUT	STEEL CL 04	2
9	STEM	BRASS C38500	1
10	HANDLE	Fe DD11 UNI EN 10111	1

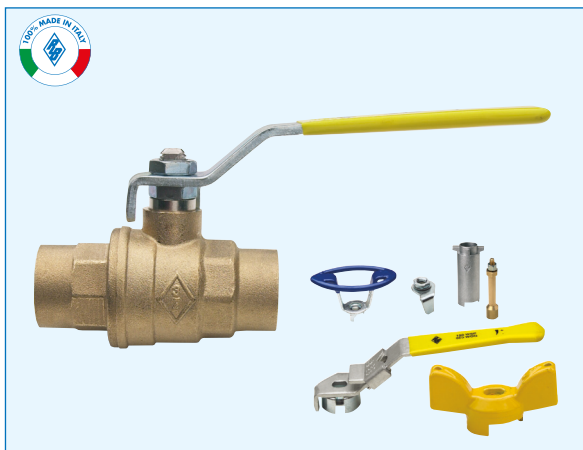
SIZE	ØP	I	L	ØH	CH	R	h	Cv	psi	Weight Lbs
1/4"	0.39	0.39	2.02	0.90	0.78	3.78	1.65	6.24	600	0.33
3/8"	0.39	0.40	2.02	0.90	0.78	3.78	1.65	6.94	600	0.30
1/2"	0.59	0.53	2.44	1.25	0.98	3.78	1.81	18.84	600	0.48
3/4"	0.78	0.55	2.71	1.53	1.22	4.76	2.28	34.10	600	0.79
1"	0.98	0.66	3.07	1.92	1.49	4.76	2.44	49.71	600	1.22
1 1/4"	1.25	0.68	3.42	2.32	1.88	5.94	3.00	102.89	600	2.14
1 1/2"	1.57	0.68	3.89	2.87	2.12	5.94	3.23	265.90	600	3.20
2"	1.94	0.69	4.33	3.38	2.63	6.30	3.74	306.36	600	4.08
2 1/2"	2.56	0.93	5.59	4.37	3.54	8.07	4.84	624.28	600	8.27
3"	3.15	1.02	6.46	5.35	4.13	8.07	5.24	1009.25	600	13.01
4"	3.94	1.09	7.60	6.54	5.12	10.24	6.50	1606.94	600	22.05

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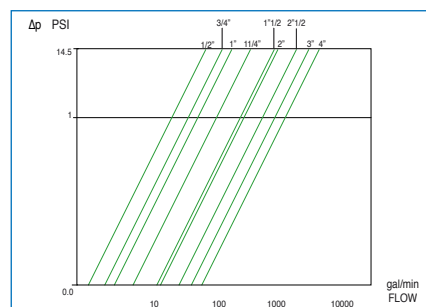
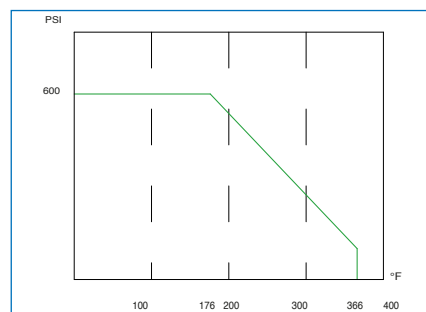
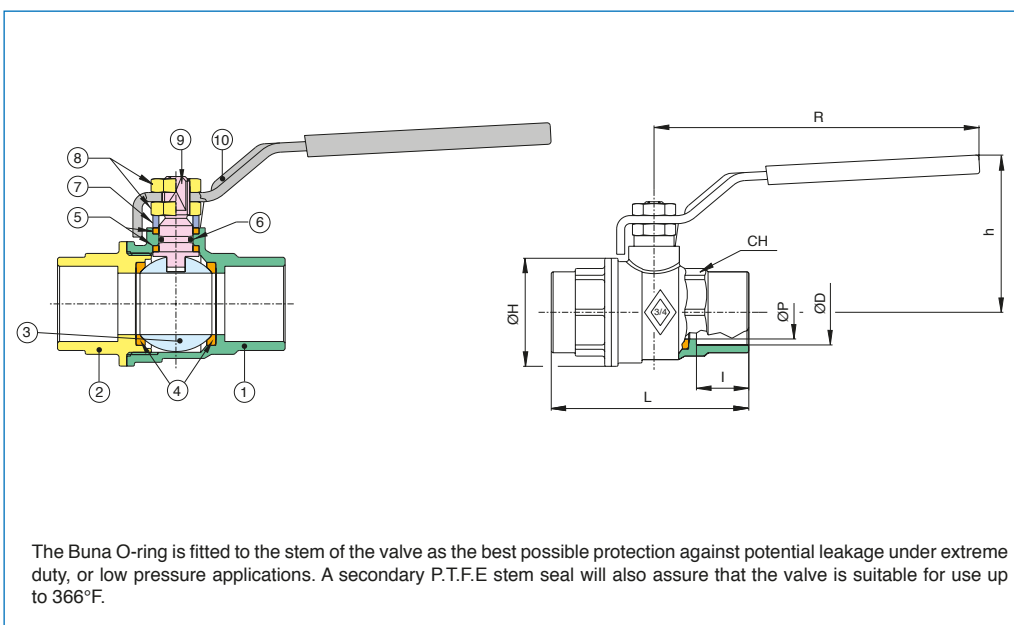


# SERIES 1715 - 1725 COMMERCIAL STYLE



- Brass ball valve with solder ends, full port sizes 1/2" to 4".
- Pressure rating 600 WOG-150 WSP.
  - Temperature range -4°F to +366°F.
  - Blow out proof stem, chrome plated brass ball.
  - P.T.F.E seats, seals, and thrust washer.
  - Adjustable stem packing.
  - 100% electronically tested in the open and closed position at 80 psi.
  - Not to be used for drinking water.
  - Valve to be used in fully open or fully closed position.
  - ANSI B16.18 connections.
- 1715:** LEVER HANDLE - size 1/2" to 4".  
**1725:** T-HANDLE - size 1/2" to 1".

MEETS THE DESIGN CRITERIA OF MSS\_SP\_110.



N POS	PART NAME	MATERIAL	N PCS
1	BODY	BRASS C38000	1
2	END CONNECTION	BRASS C38000	1
3	BALL	BRASS C38000	1
4	BALL SEAT	P.T.F.E	2
5	THRUST WASHER/STEM SEAT	P.T.F.E	2
6	O-RING	NBR	1
7	PACKING GLAND	BRASS C38500	1
8	NUT	STEEL 6/S	2
9	STEM	BRASS C38500	1
10	HANDLE	Fe DD11 UNI EN 10111	1

SIZE	ØP	L	I	h	R	ØD	ØH	CH	Cv	psi	Weight Lbs
1/2"	0.57	2.58	0.50	1.81	3.78	0.63	1.30	0.98	18.84	600	0.50
3/4"	0.76	3.00	0.75	2.28	4.76	0.88	1.53	1.22	34.10	600	0.77
1"	0.98	3.56	0.91	2.44	4.76	1.13	1.93	1.49	49.71	600	1.19
1 1/4"	1.26	4.09	0.96	3.00	5.94	1.38	2.32	1.89	102.89	600	2.20
1 1/2"	1.57	4.56	1.10	3.23	5.94	1.63	2.87	2.12	265.90	600	3.24
2"	1.95	5.45	1.34	3.74	6.30	2.13	3.38	2.64	306.36	600	4.21
2 1/2"	2.56	6.90	1.47	4.84	8.11	2.63	4.37	3.54	624.28	600	9.44
3"	3.05	8.05	1.67	5.23	8.11	3.13	5.35	4.13	1009.25	600	14.52
4"	3.94	10.25	2.16	6.49	10.27	4.13	6.53	5.12	1606.94	600	24.83

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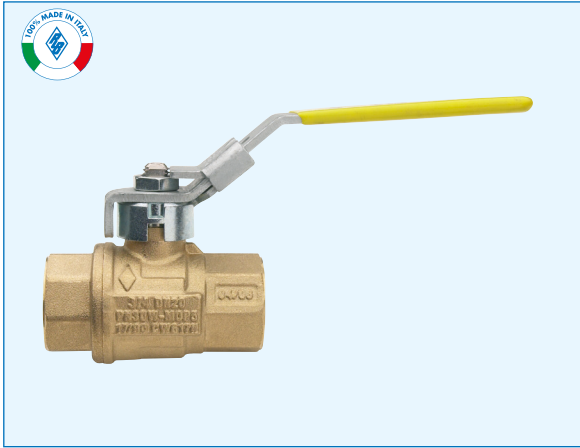




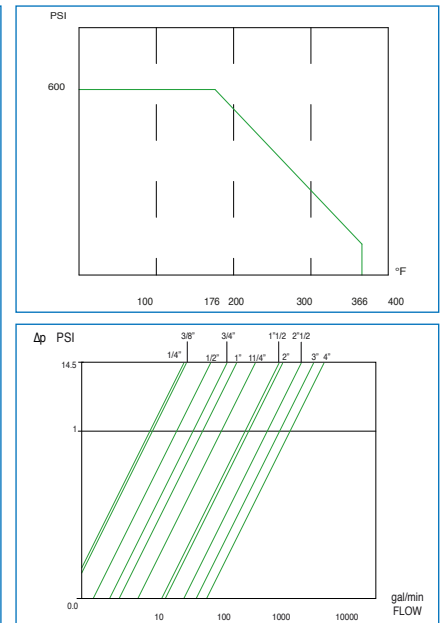
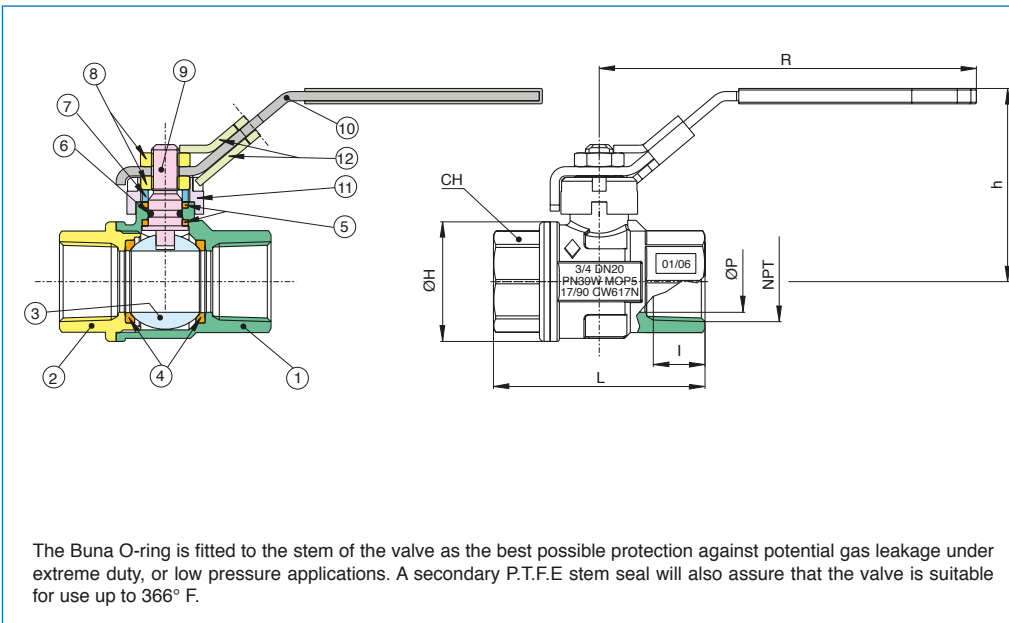
## SERIES 171L COMMERCIAL STYLE

Brass ball valve, FNPT threaded, full port sizes 1/4" to 4", with latch lock handle.

- Pressure rating 600 WOG-150 WSP.
  - Temperature range -4°F to +366°F.
  - Blow out proof stem, chrome plated brass ball.
  - P.T.F.E seats, seals, and thrust washer.
  - Adjustable stem packing.
  - 100% electronically tested in the open and closed position at 80 psi.
  - Not to be used for drinking water.
  - Valve to be used in fully open or fully closed position.
  - ANSI B1.20.1 connections.
- 171LCR: CHROME PLATED - size 1/4" to 4".**



MEETS THE DESIGN CRITERIA OF MSS\_SP\_110.

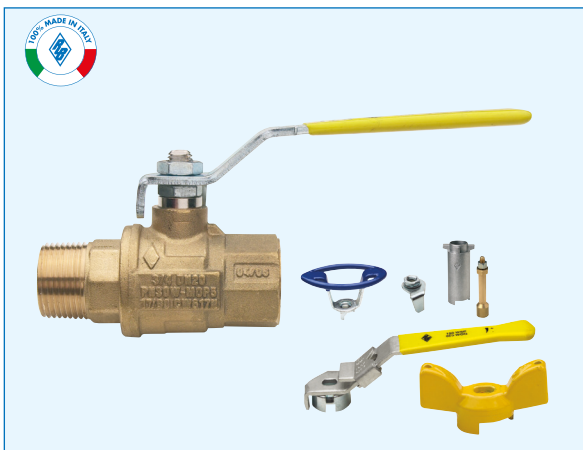


N POS	PART NAME	MATERIAL	N PCS
1	BODY	BRASS C38000	1
2	END CONNECTION	BRASS C38000	1
3	BALL	BRASS C38000	1
4	BALL SEAT	P.T.F.E	2
5	THRUST WASHER/STEM SEAL	P.T.F.E	2
6	O-RING	NBR	1
7	PACKING GLAND	BRASS C38500	1
8	NUT	STEEL CL 04	2
9	STEM	BRASS C38500	1
10	HANDLE	Fe DD11 UNI EN 10111	1
11	BUSH	ZAMA G Zn Al4 UNI EN 1774	1
12	LOCKING DEVICE	Fe DD11 UNI EN 10111	1

SIZE	ØP	I	L	ØH	CH	R	h	Cv	psi	Weight Lbs
1/4"	0.39	0.39	2.03	0.91	0.79	3.78	1.83	6.24	600	0.40
3/8"	0.39	0.41	2.03	0.91	0.79	3.78	1.83	6.94	600	0.37
1/2"	0.59	0.54	2.44	1.30	0.98	3.78	1.99	18.84	600	0.55
3/4"	0.79	0.55	2.72	1.54	1.22	4.84	2.48	34.10	600	0.90
1"	0.98	0.66	3.07	1.93	1.50	4.84	2.64	49.71	600	1.30
1 1/4"	1.26	0.68	3.43	2.32	1.89	5.94	3.15	102.89	600	2.25
1 1/2"	1.57	0.68	3.90	2.87	2.13	5.94	3.39	265.90	600	3.26
2"	1.95	0.70	4.31	3.39	2.64	6.30	3.82	306.36	600	4.52
2 1/2"	2.56	0.93	5.59	4.37	3.54	8.11	5.02	624.28	600	9.10
3"	3.15	1.02	6.46	5.35	4.13	8.11	5.45	1009.25	600	13.56
4"	3.94	1.09	7.60	6.54	5.12	10.28	6.56	1606.94	600	22.33

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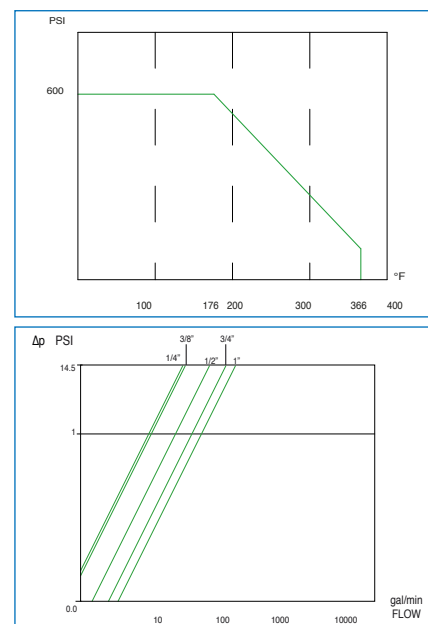
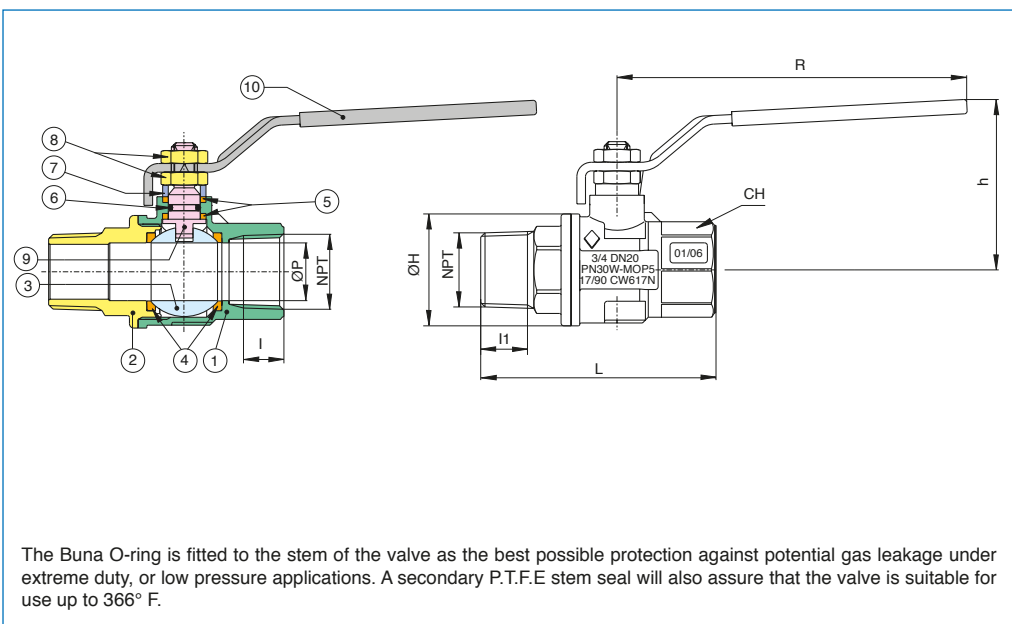


## SERIES 171M - 172M COMMERCIAL STYLE



600 WOG

- Brass ball valve, MNPT X FNPT threaded, full port sizes 1/4" to 1".
- Pressure rating 600 WOG-150 WSP.
  - Temperature range -4°F to +366°F.
  - Blow out proof stem, chrome plated brass ball.
  - P.T.F.E seats, seals, and thrust washer.
  - Adjustable stem packing.
  - 100% electronically tested in the open and closed position at 80 psi.
  - Not to be used for drinking water.
  - Valve to be used in fully open or fully closed position.
  - ANSI B1.20.1 connections.
- 171M: LEVER HANDLE - size 1/4" to 1".  
 172M: T-HANDLE - size 1/4" to 1".  
 171MCR: CHROME PLATED - size 1/4" to 1".

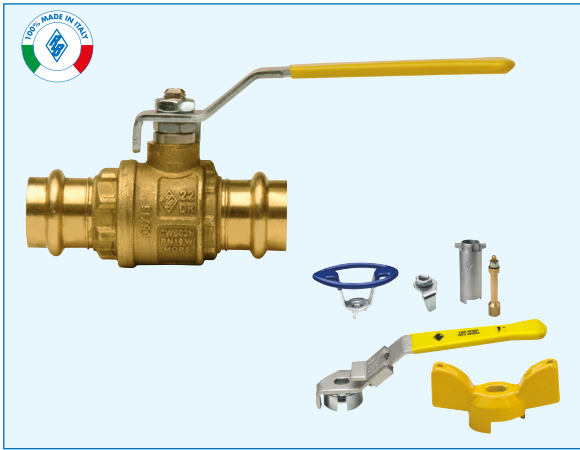


N POS	PART NAME	MATERIAL	N PCS	SIZE	ØP	I	I1	L	ØH	CH	R	h	Cv	psi	Weight Lbs
1	BODY	BRASS C38000	1	1/4"	0.39	0.39	0.40	2.30	0.91	0.79	3.78	1.69	6.24	600	0.33
2	END CONNECTION	BRASS C38000	1	3/8"	0.39	0.41	0.41	2.32	0.91	0.79	3.78	1.69	6.94	600	0.34
3	BALL	BRASS C38000	1	1/2"	0.59	0.54	0.53	2.85	1.30	0.98	3.78	1.85	18.84	600	0.52
4	BALL SEAT	P.T.F.E	2	3/4"	0.79	0.55	0.55	3.21	1.54	1.22	4.76	2.32	34.10	600	0.84
5	THRUST WASHER/STEM SEAL	P.T.F.E	2	1"	0.98	0.66	0.68	3.62	1.93	1.50	4.76	2.48	49.71	600	1.27
6	O-RING	NBR	1												
7	PACKING GLAND	BRASS C38500	1												
8	NUT	Steel 6S	2												
9	STEM	BRASS C38500	1												
10	HANDLE	Fe DD11 UNI EN 10111	1												

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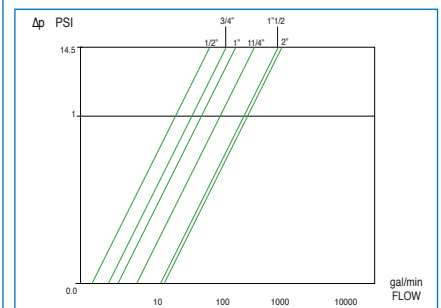
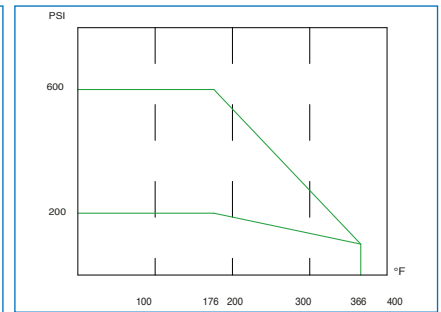
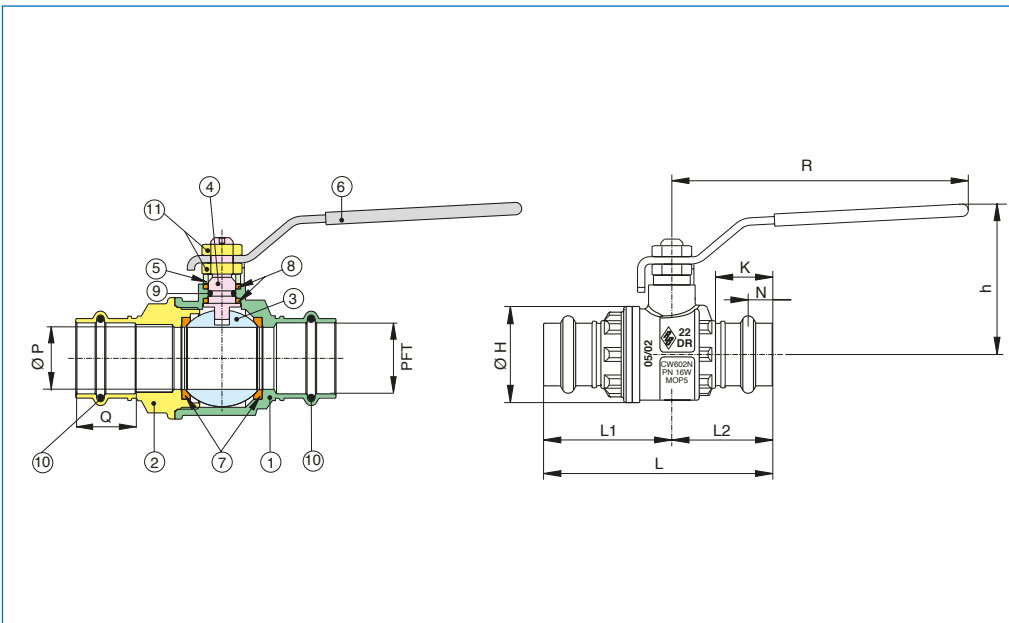
## SERIES 1970



200 WOG

Brass ball valve, EURO-PRESS connections, full port 1/2" - 2".

- Test pressure rating 600 CWP-working pressure 200 psi.
- Temperature range -4°F to +250°F.
- Blow out proof stem, chrome plated brass ball.
- P.T.F.E seats, seals, and thrust washer.
- Adjustable stem packing.
- 100% electronically tested in the open and closed position at 80 psi.
- Not to be used for drinking water.
- Valve to be used in fully open or fully closed position.
- Made in dezincification resistant brass (DZR).
- Press alert O-rings.



N POS	PART NAME	MATERIAL	N POS
1	BODY	DZR BRASS C35330	1
2	END CONNECTION	DZR BRASS C35330	1
3	BALL	BRASS C38000	1
4	STEM	BRASS C38500	1
5	PACKING GLAND	BRASS C38500	1
6	HANDLE	Fe DD11 UNI EN 10111	1
7	BALL SEAT	P.T.F.E	2
8	STEM SEAL/THRUST WASHER	P.T.F.E	2
9	O-RING	NBR	1
10	O-RING	EPDM	2
11	NUT	STEEL CL 04	2

PFT	ØP	Q	K	N	ØH	L	L1	L2	h	R	Cv	MAX WORK PRESS psi	MAX TEST PRESS psi	Weight Lbs
1/2"	0.59	0.71	0.67	0.31	1.30	3.13	1.71	1.42	1.89	3.86	18.84	200	600	0.49
3/4"	0.79	0.91	0.83	0.39	1.54	3.66	2.05	1.61	2.28	4.80	34.10	200	600	0.82
1"	0.98	0.94	0.83	0.39	1.93	4.13	2.32	1.81	2.44	4.80	49.71	200	600	1.25
1 1/4"	1.26	1.02	0.83	0.39	2.32	4.41	2.44	1.97	3.07	6.02	102.89	200	600	1.98
1 1/2"	1.57	1.42	1.02	0.49	2.87	5.63	2.91	2.72	3.35	6.02	265.90	200	600	3.40
2"	1.95	1.57	1.20	0.59	3.39	6.52	3.41	3.11	3.80	6.38	306.36	200	600	4.50

**WARNING:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov).

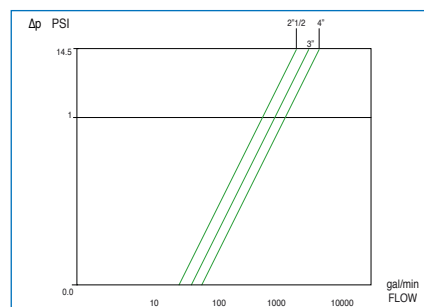
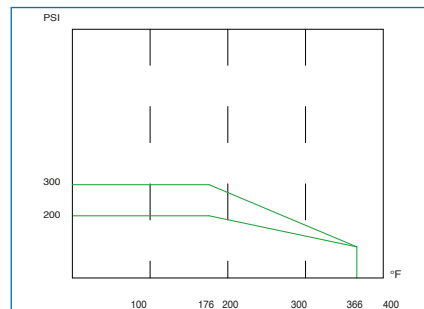
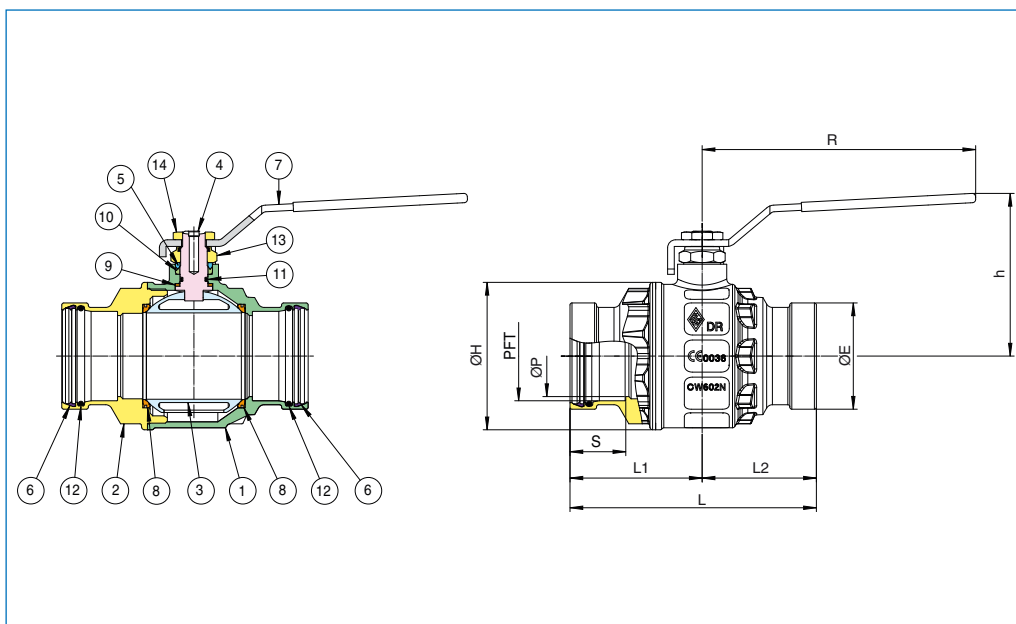




## SERIES 1970XLC

Brass ball valve EURO-PRESS connections, full port sizes 2" 1/2" - 4".

- Test pressure rating 300 CWP up to 3" and 200 CWP for the 4" working pressure 200 psi.
- Temperature range -4°F to +250°F.
- Blow out proof stem, chrome plated brass ball.
- P.T.F.E seats, seals, and thrust washer.
- Adjustable stem packing.
- 100% electronically tested in the open and closed position at 80 psi.
- Not to be used for drinking water.
- Valve to be used in fully open or fully closed position.
- Made in dezincification resistant brass (DZR).

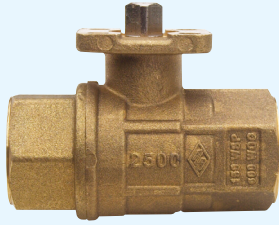


N POS	PART NAME	MATERIAL	N POS
1	BODY	DZR BRASS C35330	1
2	END CONNECTION	DZR BRASS C35330	1
3	BALL	BRASS CB 753-S	1
4	STEM	BRASS C38500	1
5	PACKING GLAND	BRASS C38500	1
6	CIRCLIP	STEEL 38NiCrMo4	2
7	HANDLE	Fe DD11 UNI EN 10111	1
8	BALL SEAT	P.T.F.E	2
9	STEM SEAL/THRUST WASHER	P.T.F.E	1
10	STEM SEAL	P.T.F.E	1
11	O-RING	NBR	1
12	O-RING	EPDM	2
13	NUT	STEEL CL 04	1
14	NUT	STEEL CL 04	1

PFT	ØP	S	ØH	ØE	L	L1	L2	h	R	Cv	MAX WORK PRESS psi	MAX TEST PRESS psi	Weight Lbs
2 1/2"	2.40	1.65	4.37	3.15	7.30	3.94	3.39	5.08	8.07	624.28	200	300	9.04
3"	2.87	1.91	5.35	3.66	8.60	4.63	4.00	5.51	8.07	1009.25	200	300	14.55
4"	3.82	2.42	6.54	4.69	10.26	5.30	4.98	6.30	10.24	1606.94	200	200	22.49

**WARNING:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov).





## SERIES 250N - 253N DIRECT MOUNT 2 WAY BALL VALVE

Brass ball valve, FNPT threaded, full port with ISO 5211 pad for actuator, sizes from 1/4" to 4".

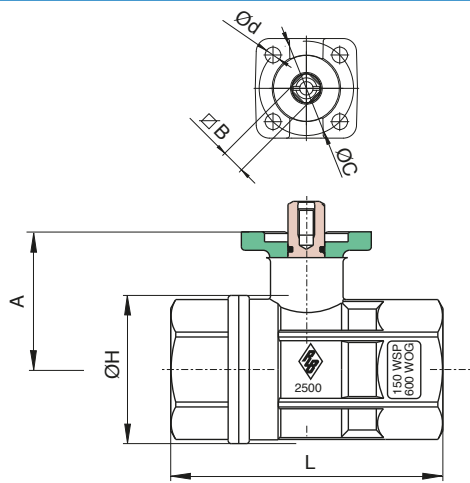
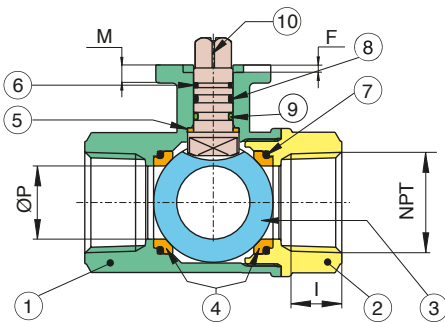
- Pressure rating 600 WOG-150 WSP.
- Temperature range -4°F to +366°F.
- Blow out proof stem.
- P.T.F.E seats with O-ring backing for low operating torque.
- P.T.F.E seats and double O-ring stem packing.
- 100% electronically tested in the open and closed position at 80 psi.
- Not to be used for drinking water.
- Valve to be used in fully open or fully closed position.
- ANSI B1.20.1 connections.

**250N:** WITH BRASS BALL AND STEM - size up to 4".

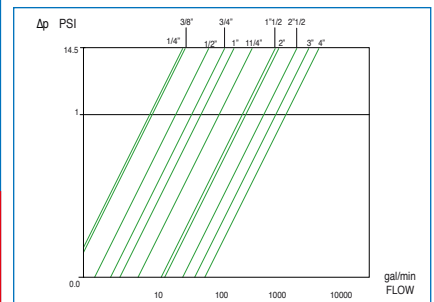
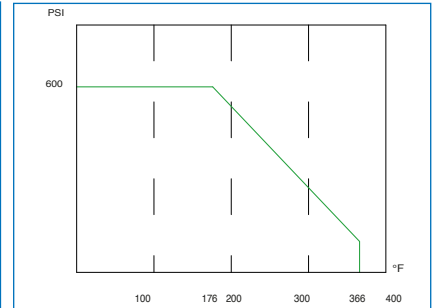
**253N:** WITH STAINLESS STEEL BALL AND STEM - size up to 2".

MEETS THE DESIGN CRITERIA OF MSS\_SP\_110.

### O-RING BACKING P.T.F.E SEATS



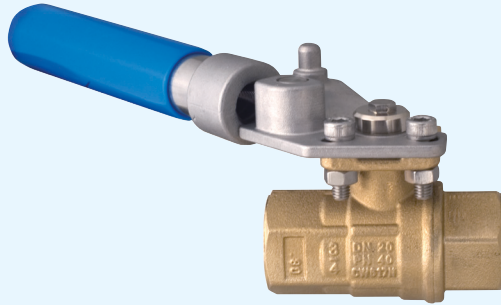
\* (in-Lbs) Torque values in the table are measured in laboratory tests under the following conditions:  
TEMPERATURE: 68°F  
PRESSURE: 0 psi  
FLUID: PURIFIED WATER



N POS	PART NAME	MATERIAL	N PCS	SIZE	A	ØC ISO 5211	F	∅B mm	Ød	ØH	I	L	CH	M	ØP	Cv	psi	Weight Lbs	* Break Torque (in/Lbs)
1	BODY	BRASS C38000	1	1/4"	1.28	1.42 (ISO F03)	0.08	9	0.24	1.32	0.39	2.64	1.06	0.22	0.39	6.24	600	0.81	17.70
2	END CONNECTION	BRASS C38000	1	3/8"	1.28	1.42 (ISO F03)	0.08	9	0.24	1.32	0.41	2.64	1.06	0.22	0.39	6.94	600	0.79	17.70
3	BALL	BRASS C38000	1	1/2"	1.28	1.42 (ISO F03)	0.08	9	0.24	1.32	0.54	2.64	1.06	0.22	0.55	18.84	600	0.68	17.70
4	BALL SEAT	P.T.F.E	2	3/4"	1.36	1.42 (ISO F03)	0.12	9	0.24	1.57	0.55	2.99	1.26	0.20	0.75	34.10	600	0.88	26.60
5	THRUST WASHER	P.T.F.E	1	1"	1.79	1.42 (ISO F03)	0.12	9	0.24	1.93	0.66	3.35	1.61	0.24	0.95	49.71	600	1.59	26.60
6	STEM SEAL	P.T.F.E	1	1 1/4"	1.93	1.42 (ISO F03)	0.12	9	0.24	2.30	0.68	3.66	1.97	0.24	1.18	102.89	600	2.23	53.10
7	O-RING	FKM (Viton®)	2	1 1/2"	2.52	1.97 (ISO F05)	0.12	11	0.28	2.87	0.68	4.13	2.17	0.31	1.50	265.90	600	3.70	88.50
8	O-RING	EPDM	1	2"	2.88	1.97 (ISO F05)	0.12	11	0.28	3.60	0.70	4.80	2.76	0.31	1.98	306.36	600	3.95	106.20
9	O-RING	FKM (Viton®)	1	2 1/2"	3.48	2.76 (ISO F7)	0.12	14	0.35	4.51	0.93	6.10	3.54	0.35	2.52	624.28	600	9.57	274.40
9	STEM	BRASS C38500	1	3"	3.86	2.76 (ISO F7)	0.12	14	0.35	5.35	1.02	6.89	4.13	0.35	2.99	1009.25	600	13.38	354.30
				4"	4.59	2.76 (ISO F7)	0.12	17	0.35	6.54	1.09	8.03	5.12	0.33	3.74	1606.94	600	21.16	575.30

**WARNING:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov).





## SERIES 250N SRL DEADMAN SPRING RETURN

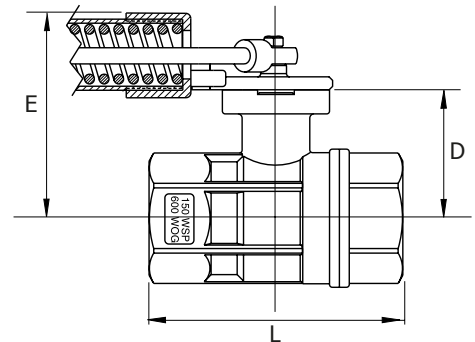
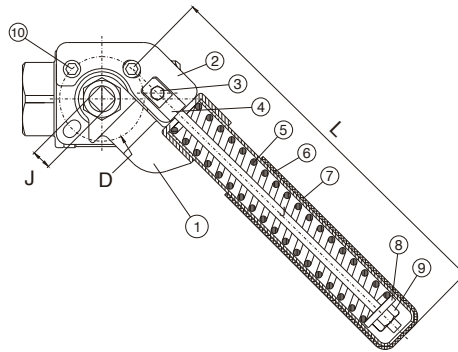
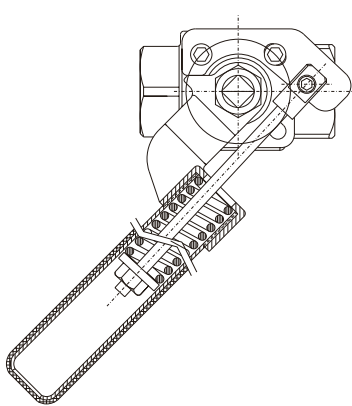
Deadman spring lever brass 2 way 2 piece, full port ball valve, FNPT threaded 1/4" to 3".

- Pressure rating 600 WOG-150 WSP.
- Temperature range -4°F to +366°F.
- Blow out proof stem.
- P.T.F.E seats and double O-ring stem packing.
- P.T.F.E seats with O-ring backing for low operating torque.
- Adjustable spring return lever.
- 100% electronically tested in the open and closed position at 80 psi.
- Not to be used for drinking water.
- ANSI B1.20.1 connections.

250N LF SRL: LEAD FREE BRASS VERSION AVAILABLE UP TO 2".

OPEN CONDITION

CLOSE CONDITION



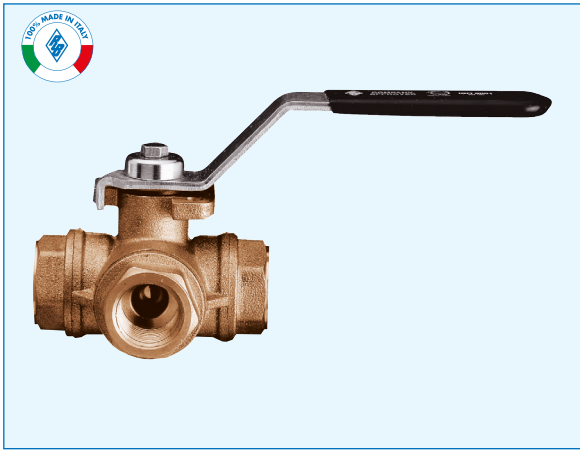
N POS	PART NAME	MATERIAL
1	HANDLE HEAD	ASTM A351 - CF8M
2	ANCHOR	ASTM A351 - CF8M
3	ANCHOR SCREW	STAINLESS STEEL 316
4	SPRING ROD	STAINLESS STEEL 316
5	SPRING	STAINLESS STEEL 301
6	HANDLE EXTENSION	STAINLESS STEEL 304
7	SLEEVE	VINYL
8	WASHER	STAINLESS STEEL 304
9	HEX NUT	STAINLESS STEEL 304
10	SOCKET HEAD SCREW	STAINLESS STEEL 304

SIZE	L	J mm	D ISO 5211	HANDLE TORQUE In-Lbs	E	D	L
1/4"	6.70	9	F03	132	1.78	1.28	2.64
3/8"	6.70	9	F03	132	1.78	1.28	2.64
1/2"	6.70	9	F03	132	1.78	1.28	2.64
3/4"	6.70	9	F03	132	1.86	1.36	3.00
1"	6.70	9	F03	132	2.29	1.79	3.35
1 1/4"	6.70	9	F03	132	2.43	1.93	3.66
1 1/2"	8.65	11	F05	177	3.02	2.52	4.13
2"	8.65	11	F05	177	3.38	2.88	4.80
2 1/2"	11.00	14	F07	487	3.99	3.49	6.10
3"	11.00	14	F07	487	4.35	3.85	6.89

Valve materials and size: see table page 15 art. 250N

**WARNING:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov).





## SERIES 355N (T) - 365N (L) DIRECT MOUNT 3 WAY BALL VALVE

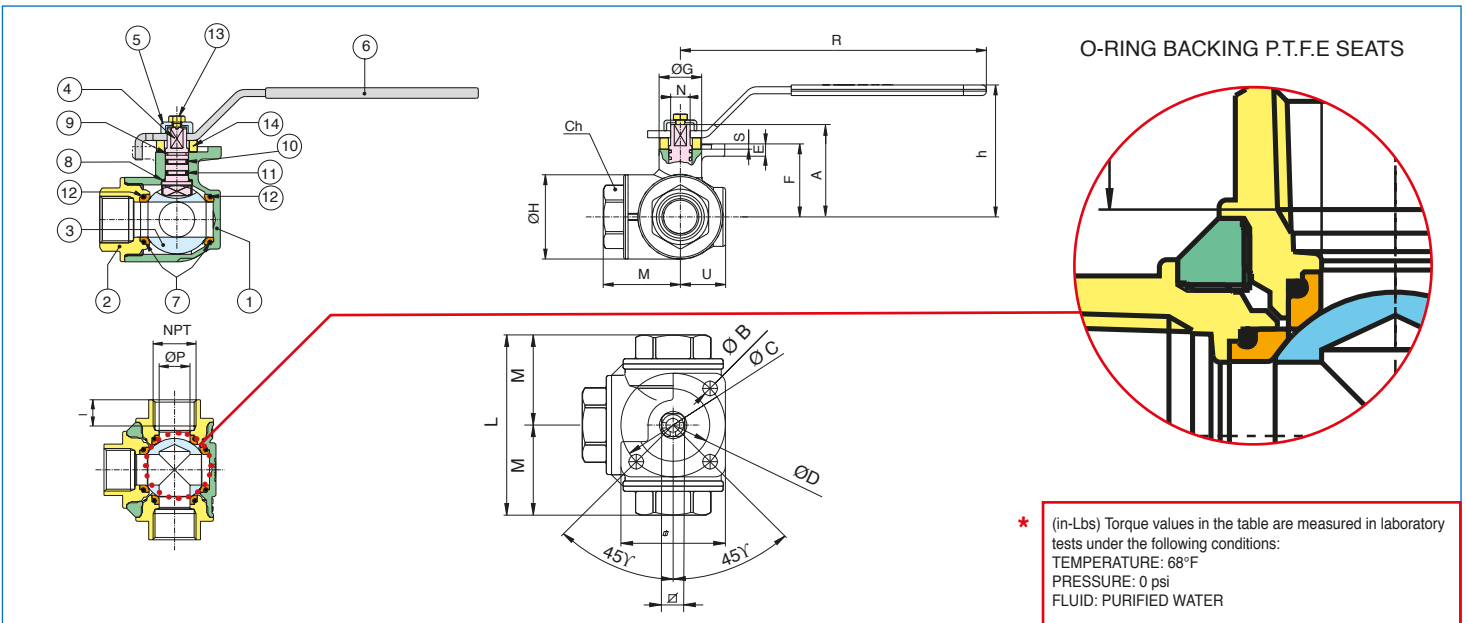
3 way brass ball valve with ISO 5211 pad for actuator, standard port, sizes from 1/4" to 3" FNPT.

- Pressure rating 400 WOG-100 WSP.
- Temperature range -4°F to +366°F.
- Blow out proof stem, chrome plated brass ball.
- P.T.F.E seats with O-ring backing for low operating torque.
- P.T.F.E seats and double O-ring stem packing.
- 100% electronically tested in the open and closed position at 80 psi.
- Not to be used for drinking water.
- Four seat design for sealing between pressurized ports.
- Model 355N (90° and 180° flow path).
- Model 365N (90° with off position).
- ANSI B1.20.1 connections.

**355N:** LEVER HANDLE - size 1/4" to 3", "T" flow pattern.

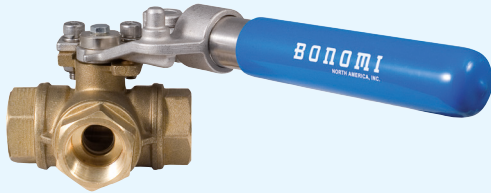
**365N:** LEVER HANDLE - size 1/4" to 3", "L" flow pattern.

MEETS THE DESIGN CRITERIA OF MSS\_SP\_110.



N POS	PART NAME	MATERIAL	N PCS	SIZE	ØP	ØH	I	L	M	CH	R	h	ØG	ØB	Øc	U	E	F	A	mm	N	Cv 355N	Cv 365N	psi	Weight Lbs	* Break Torque (in/Lbs)
1	BODY	BRASS C38000	1	1/4"	0.39	1.34	0.39	2.64	1.32	0.87	4.72	2.44	0.87	0.24	1.42 (ISO F03)	0.77	0.20	1.20	0.35	9	0.35	3.24	3.24	400	1.23	17.70
2	END CONNECTION	BRASS C38000	3	3/8"	0.43	1.34	0.41	2.64	1.32	0.87	4.72	2.44	0.87	0.24	1.42 (ISO F03)	0.77	0.20	1.20	0.35	9	0.35	3.47	3.47	400	1.14	17.70
3	BALL	BRASS C38000	1	1/2"	0.43	1.34	0.54	2.87	1.44	1.06	4.72	2.44	0.87	0.24	1.42 (ISO F03)	0.77	0.20	1.20	0.35	9	0.35	4.16	4.16	400	1.21	17.70
4	STEM	BRASS C38500	1	3/4"	0.55	1.54	0.55	3.19	1.59	1.26	4.72	2.52	0.87	0.24	1.42 (ISO F03)	0.87	0.20	1.29	0.35	9	0.35	7.05	7.05	400	1.48	26.60
5	BUSH	BRASS C38500	1	1"	0.75	1.89	0.66	3.74	1.87	1.61	6.79	2.95	0.94	0.28	1.97 (ISO F05)	1.00	0.28	1.63	0.43	11	0.43	12.83	12.83	400	2.69	26.60
6	HANDLE	Fe DD 11 UNI EN 10111	1	1 1/4"	0.95	2.36	0.68	4.39	2.19	1.97	6.79	3.17	0.94	0.28	1.97 (ISO F05)	1.22	0.28	1.85	0.43	11	0.43	18.73	18.73	400	4.14	53.10
7	BALL SEAT	P.T.F.E	4	1 1/2"	1.18	2.83	0.68	4.86	2.43	2.17	6.79	3.66	1.26	0.28	1.97 (ISO F05)	1.49	0.28	2.34	0.43	11	0.43	29.71	29.71	400	6.46	88.50
8	THRUST WASHER	P.T.F.E	1	2"	1.50	3.39	0.70	5.73	2.86	2.76	9.06	4.37	1.46	0.35	2.76 (ISO F07)	1.75	0.31	2.91	0.59	14	0.55	43.81	43.81	400	11.07	106.20
9	THRUST WASHER	P.T.F.E	1	2 1/2"	1.95	4.37	0.93	6.93	3.46	3.35	9.06	4.80	1.46	0.35	2.76 (ISO F07)	2.20	0.31	3.35	0.59	14	0.55	70.05	70.05	400	19.78	274.40
10	O-RING	EPDM	1	3"	1.95	4.45	1.02	7.09	3.54	4.13	9.06	4.80	1.46	0.35	2.76 (ISO F07)	2.20	0.31	3.35	0.59	14	0.55	70.05	70.05	400	19.64	354.30
11	O-RING	FKM (Viton®)	1																							
12	O-RINGS BODY	FKM (Viton®)	4																							
13	SCREW	STEEL CL 8.8	1																							
14	WASHER	NYLON (PA6)	1																							

**WARNING:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov).



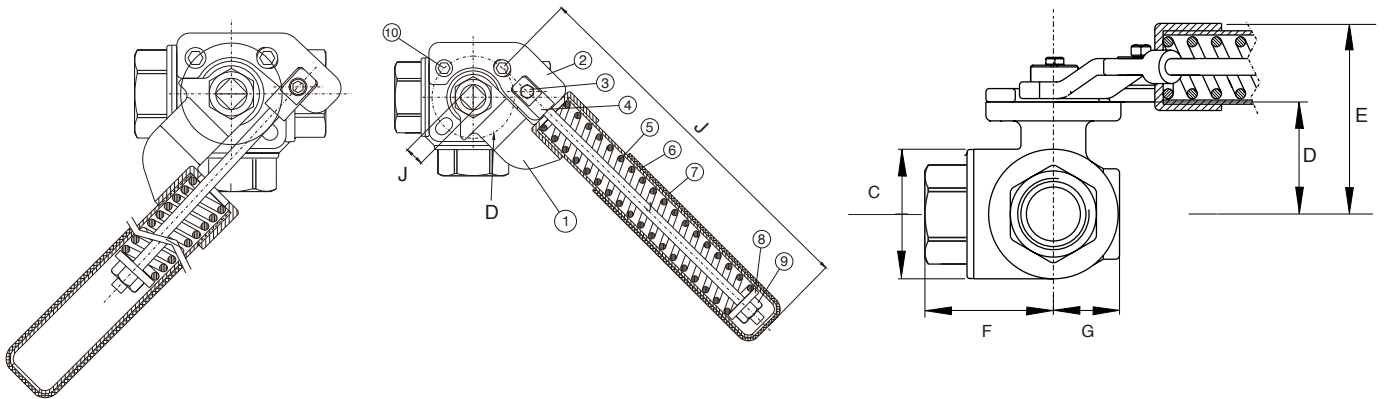
## SERIES 355NSRL (T)-365NSRL (L) DEADMAN SPRING RETURN

3 way brass ball valve, FNPT, threaded standard port, with deadman spring return handle, from 1/4" to 2".

- Pressure rating 400 WOG-100 WSP.
- Temperature range -4°F to +366°F.
- Blow out proof stem, chrome plated brass ball.
- P.T.F.E seats with O-ring backing for low operating torque.
- P.T.F.E seats and double O-ring stem packing.
- 100% electronically tested in the open and closed position at 80 psi.
- Not to be used for drinking water.
- Four seat design for sealing between pressurized ports.
- ANSI B1.20.1 connections.

OPEN CONDITION

CLOSE CONDITION

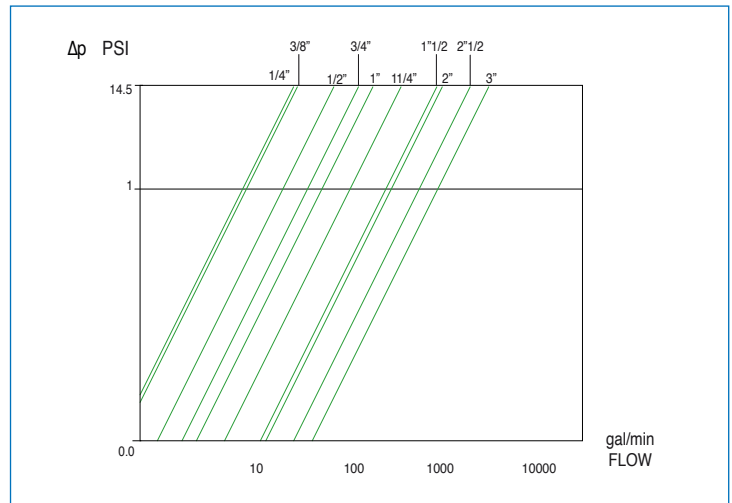
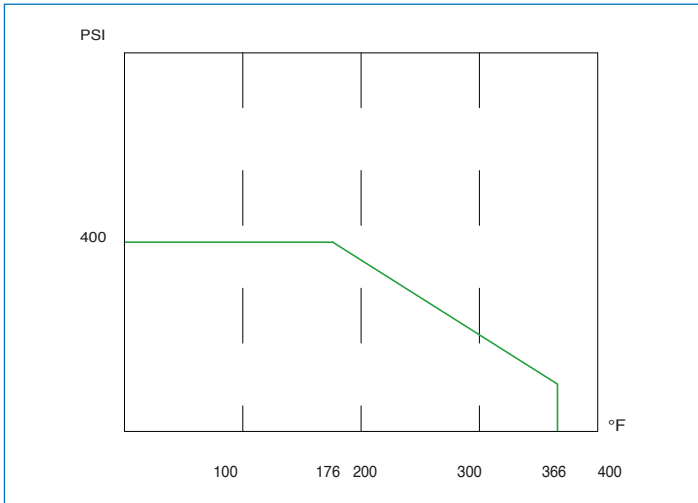


N POS	PART NAME	MATERIAL
1	HANDLE HEAD	ASTM A351 - CF8M
2	ANCHOR	ASTM A351 - CF8M
3	ANCHOR SCREW	STAINLESS STEEL 316
4	SPRING ROD	STAINLESS STEEL 316
5	SPRING	STAINLESS STEEL 301
6	HANDLE EXTENSION	STAINLESS STEEL 304
7	SLEEVE	VINYL
8	WASHER	STAINLESS STEEL 304
9	HEX NUT	STAINLESS STEEL 304
10	SOCKET HEAD SCREW	STAINLESS STEEL 304

SIZE	L	J mm	D ISO 5211	HANDLE TORQUE In-Lbs	E	D	C	F	G
1/4"	6.70	9	F03	132	1.70	1.20	1.34	1.32	0.77
3/8"	6.70	9	F03	132	1.70	1.20	1.34	1.32	0.77
1/2"	6.70	9	F03	132	1.70	1.20	1.34	1.44	0.77
3/4"	6.70	9	F03	132	1.79	1.29	1.53	1.60	0.87
1"	8.65	11	F05	177	2.79	1.63	1.89	1.87	1.00
1 1/4"	8.65	11	F05	177	2.93	1.85	2.36	2.20	1.22
1 1/2"	8.65	11	F05	177	3.52	2.34	2.83	2.43	1.79
2"	11	14	F07	487	3.82	2.90	3.38	2.87	1.75

**WARNING:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov).





## FLOW PATH VARIATIONS

	355N				365N		
	A	B	C	D	A	B	C
Lever Assembly							
Position 1							
Position 2							
Note	To achieve other flow paths, simply remove the handle and reorient the valve stem to the desired flow path. Refer to the markings on top of the ball valve stem for proper position. When finished, re-attach the handle.						



# SERIES 383N - 383M MINI BALL VALVE



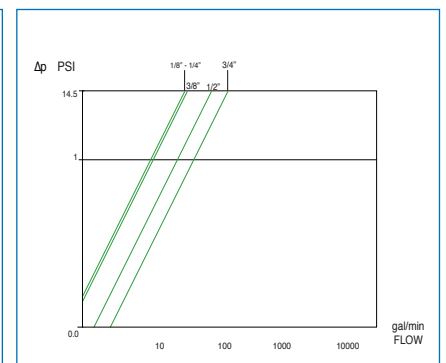
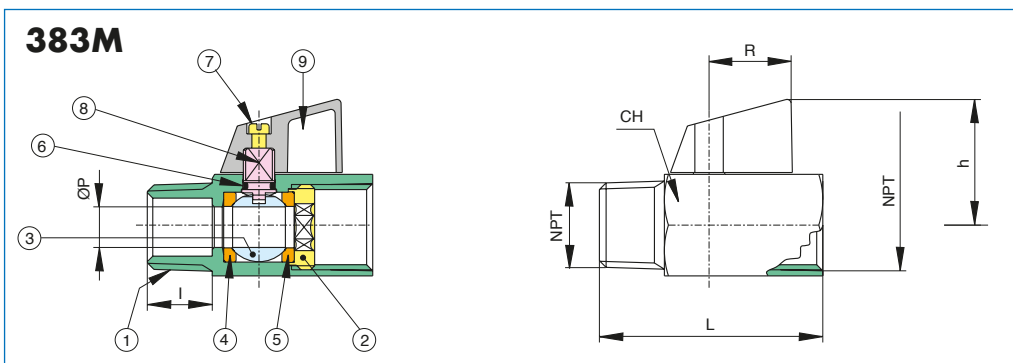
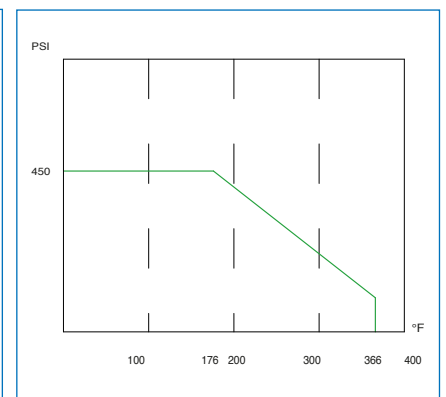
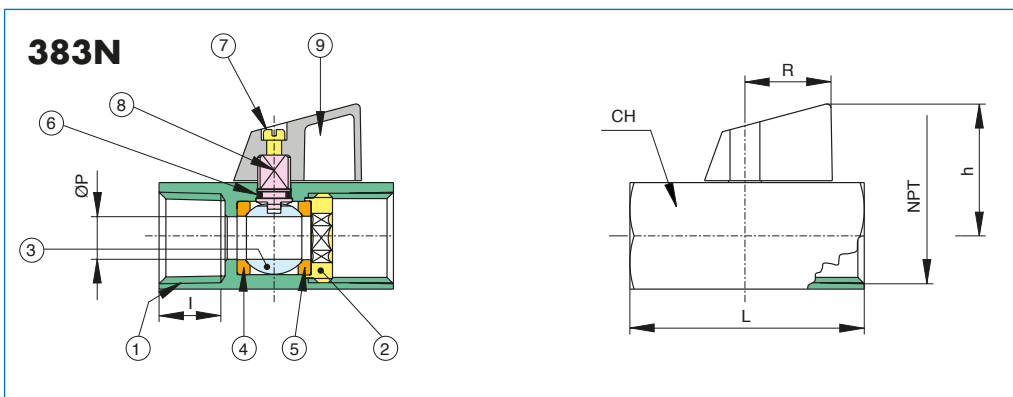
Nickel plated brass ball valve mini series, standard port from 1/8" to 3/4".

- Pressure rating 450 psi.
- Temperature range -4°F to +330°F.
- Blow out proof stem, chrome plated brass ball.
- P.T.F.E seats and viton seal.
- 100% electronically tested in the open and closed position at 80 psi.
- Not to be used for drinking water.
- Valve to be used in fully open or fully closed position.
- ANSI B1.20.1 connections.

**383N:** FNPT THREADED.

**383M:** MNPT X FNPT THREADED.

MEETS THE DESIGN CRITERIA OF MSS\_SP\_110.

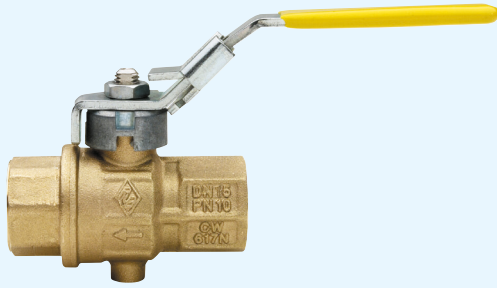


N POS	PART NAME	MATERIAL	N PCS
1	BODY	BRASS C38000	1
2	RETAINING BUSH	BRASS C38500	1
3	BALL	BRASS C38500	1
4	BALL SEAT	P.T.F.E	1
5	BALL SEAT	P.T.F.E	1
6	O-RING	FKM (Viton®)	1
7	SCREW	STEEL DD11	1
8	STEM	BRASS C38500	1
9	HANDLE	GLASS REINFORCED NYLON	1

SIZE	ØP	CH	l	h	L	R	Cv	psi	Weight Lbs 383N	Weight Lbs 383M
1/8"	0.31	0.83	0.27	1.16	1.61	0.81	4.97	450	0.23	0.19
1/4"	0.31	0.83	0.39	1.16	1.69	0.81	4.97	450	0.22	0.18
3/8"	0.31	0.83	0.41	1.16	1.69	0.81	3.12	450	0.19	0.17
1/2"	0.39	0.98	0.54	1.24	2.17	0.81	6.24	450	0.33	0.31
3/4"	0.47	1.18	0.56	1.32	2.36	0.81	8.44	450	0.49	0.46

**WARNING:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov).

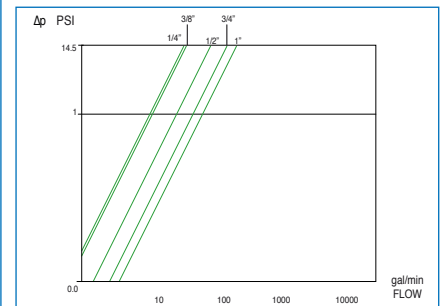
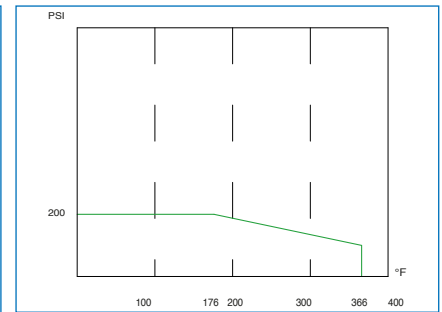
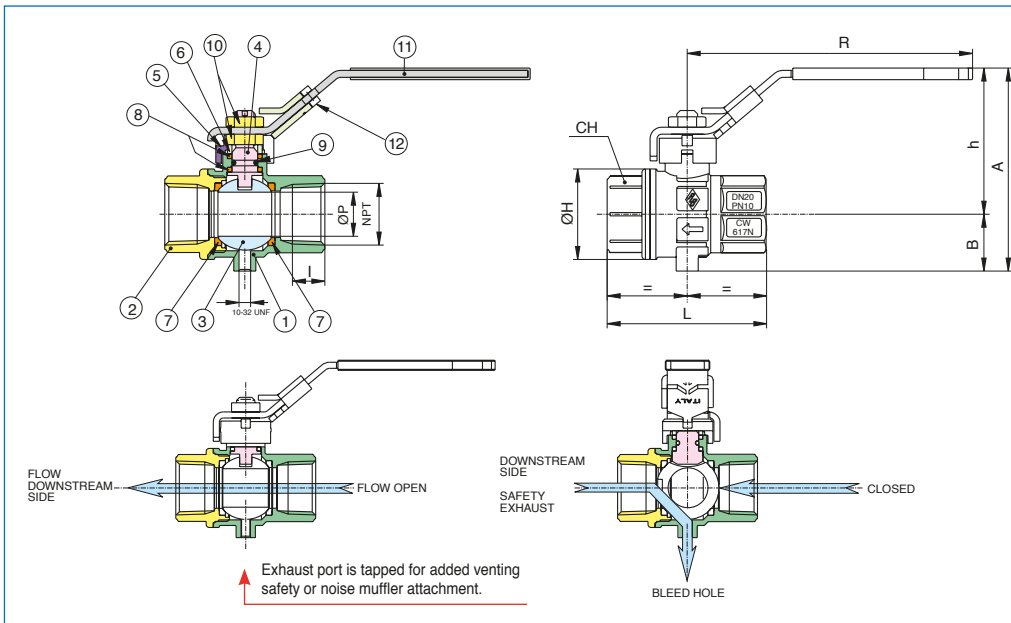




## SERIES 511L SAFETY EXHAUST

Exhaust brass ball valve, full port with bleed hole, FNPT threaded, from 1/4" to 1", with latch lock handle.

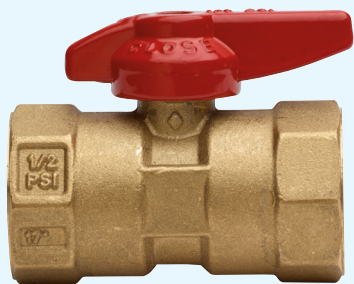
- Pressure rating 200 psi.
- Temperature range -4°F to +350°F.
- Blow out proof stem, chrome plated brass ball.
- P.T.F.E seats, seals and thrust washer.
- Adjustable stem packing.
- 100% electronically tested in the open position 80 psi.
- Valve to be used in fully open or fully closed position.
- With reference to OSHA requirement.
- ANSI B1.20.1 connections.



N POS	PART NAME	MATERIAL	N PCS
1	BODY	BRASS C38000	1
2	END CONNECTION	BRASS C38000	1
3	BALL	BRASS C38500	1
4	STEM	BRASS C38500	1
5	BUSH	ZAMA G Zn Al4 UNI EN 1774	1
6	PACKING GLAND	BRASS C38500	1
7	SEAT BALL	P.T.F.E	2
8	THRUST WASHER/STEM SEAL	P.T.F.E	2
9	O-RING	NBR	1
10	NUT	STEEL CL 04	2
11	HANDLE	Fe DD 11 UNI EN 10111	1
12	LOCKING DEVICE	Fe DD11 UNI EN 10111	1

SIZE	ØP	A	B	h	ØH	I	L	R	CH	Cv	psi	Weight Lbs
1/4"	0.39	2.58	0.69	1.89	1.10	0.39	2.01	3.78	0.87	6.24	200	0.49
3/8"	0.39	2.58	0.69	1.89	1.10	0.41	2.01	3.78	0.87	6.94	200	0.46
1/2"	0.55	2.78	0.79	1.99	1.30	0.54	2.44	3.78	0.98	18.84	200	0.53
3/4"	0.75	3.44	0.96	2.48	1.54	0.55	2.72	4.84	1.22	34.10	200	0.90
1"	0.94	3.78	1.14	2.64	1.93	0.66	3.07	4.84	1.50	49.71	200	1.32

**WARNING:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov).



## SERIES 9280 FIP-FIP GAS BALL VALVE



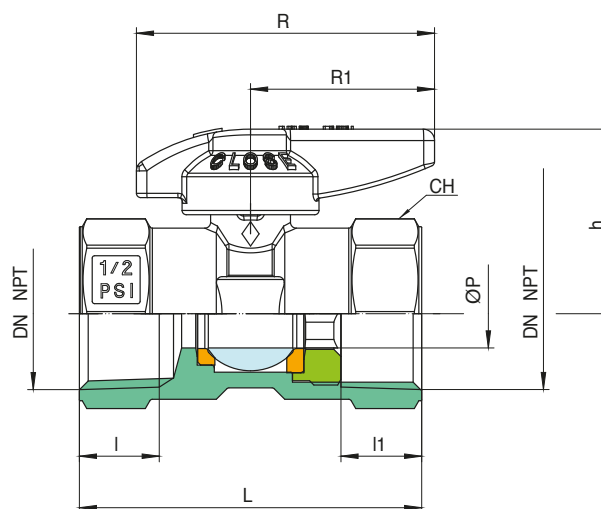
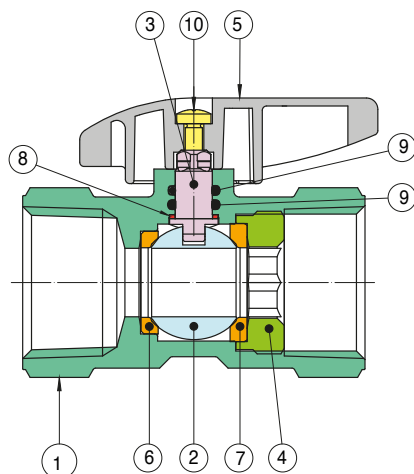
Gas ball valve unibody design, standard port, FIP x FIP threaded.

According to:

- CAN 1-9.1 - US REQUIREMENTS 3-88.
- CGA CR 91-002 - ANSI Z21.15
- UL 125 "LP GAS" - UL 842 - SUBJECT 258.
- Blow out proof stem, chrome plated brass ball.
- P.T.F.E seats.
- 100% electronically tested in the open and closed position at 80 psi.
- Valve to be used in fully open or fully closed position.
- ANSI B1.20.1 connections.

**ONE PIECE BODY**

MEETS THE DESIGN CRITERIA OF MSS\_SP\_110.

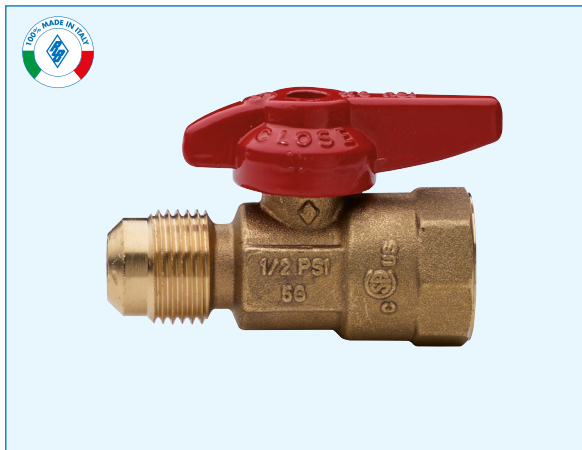


N POS	PART NAME	MATERIAL	N POS
1	BODY	BRASS C38000	1
2	BALL	BRASS C38500	1
3	STEM	BRASS C38500	1
4	RING NUT	BRASS C38500	1
5	HANDLE	G Zn Al4 UNI 3717 ALLOY	1
6	BALL SEAT	P.T.F.E	1
7	BALL SEAT	P.T.F.E	1
8	THRUST WASHER	PE	1
9	O-RING	NBR	2
10	SCREW	STEEL	1

SIZE	ØP	I	I1	L	R	R1	CH	h	Weight Lbs
<b>3/8" FIP X 3/8" FIP</b>	0.31	0.41	0.41	1.69	2.06	1.27	0.79	1.06	0.20
<b>1/2" FIP X 1/2" FIP</b>	0.39	0.54	0.54	2.17	2.06	1.27	0.98	1.14	0.31
<b>3/4" FIP X 3/4" FIP</b>	0.47	0.55	0.56	2.36	2.06	1.27	1.22	1.28	0.49

**WARNING:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov).





## SERIES 9281 FIP-FLARE GAS BALL VALVE

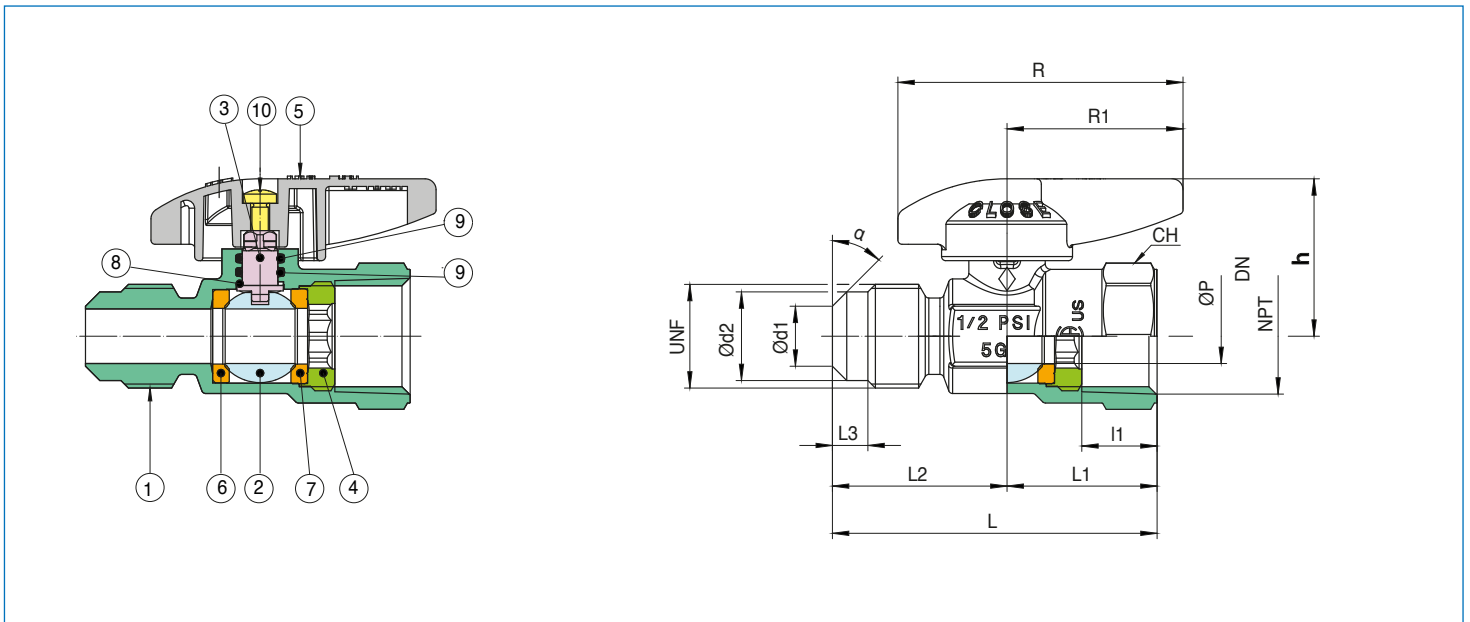


Gas ball valve unibody design, standard port, FIP x FLARE threaded.  
According to:

- CAN 1-9.1 - US REQUIREMENTS 3-88.
- CGA CR 91-002 - ANSI Z21.15.
- UL 125 "LP GAS" - UL 842 - SUBJECT 258.
- Blow out proof stem, chrome plated brass ball.
- P.T.F.E seats.
- 100% electronically tested in the open and closed position at 80 psi.
- Valve to be used in fully open or fully closed position.
- ANSI B1.20.1 connections.

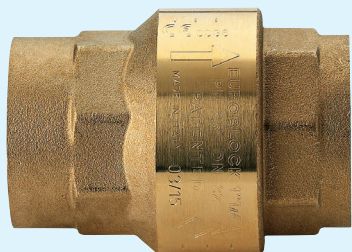
**ONE PIECE BODY**

MEETS THE DESIGN CRITERIA OF MSS\_SP\_110.



N POS	PART NAME	MATERIAL	N PCS	SIZE	UNF	NPT	ØP	I1	L	L1	L2	L3	Ød1	Ød2	R	R1	a	CH	h	Weight Lbs
1	BODY	BRASS C38000	1	3/8" FIP X 3/8" FLARE	5/8" X18	3/8" X18	0.28	0.41	1.93	0.85	1.08	0.22	0.31	0.53	2.06	1.27	45°	0.79	1.06	0.20
2	BALL	BRASS C38500	1																	
3	STEM	BRASS C38500	1																	
4	RING NUT	BRASS C38500	1	1/2" FIP X 3/8" FLARE	5/8" X18	1/2" X14	0.28	0.54	2.24	1.08	1.16	0.22	0.31	0.53	2.06	1.27	45°	0.98	1.14	0.26
5	HANDLE	G Zn Al4 UNI 3717 ALLOY	1																	
6	BALL SEAT	P.T.F.E	1																	
7	BALL SEAT	P.T.F.E	1	1/2" FIP X 1/2" FLARE	3/4" X16	1/2" X14	0.39	0.54	2.34	1.08	1.26	0.26	0.43	0.64	2.06	1.27	45°	0.98	1.14	0.29
8	THRUST WASHER	PE	1																	
9	O-RING	NBR	2																	
10	SCREW	STEEL	1																	

**WARNING:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov).



## SERIES 100002 - 100003 CHECK VALVE

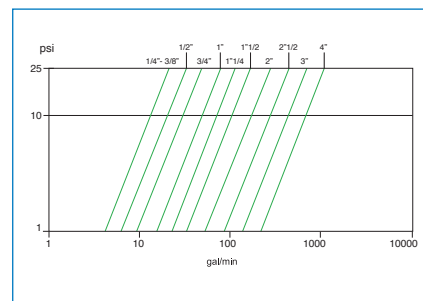
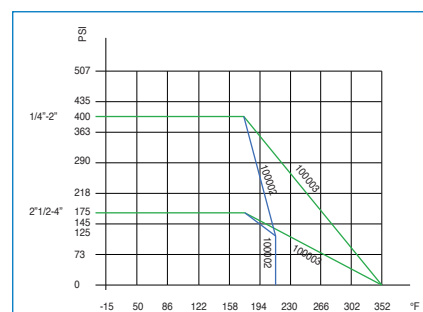
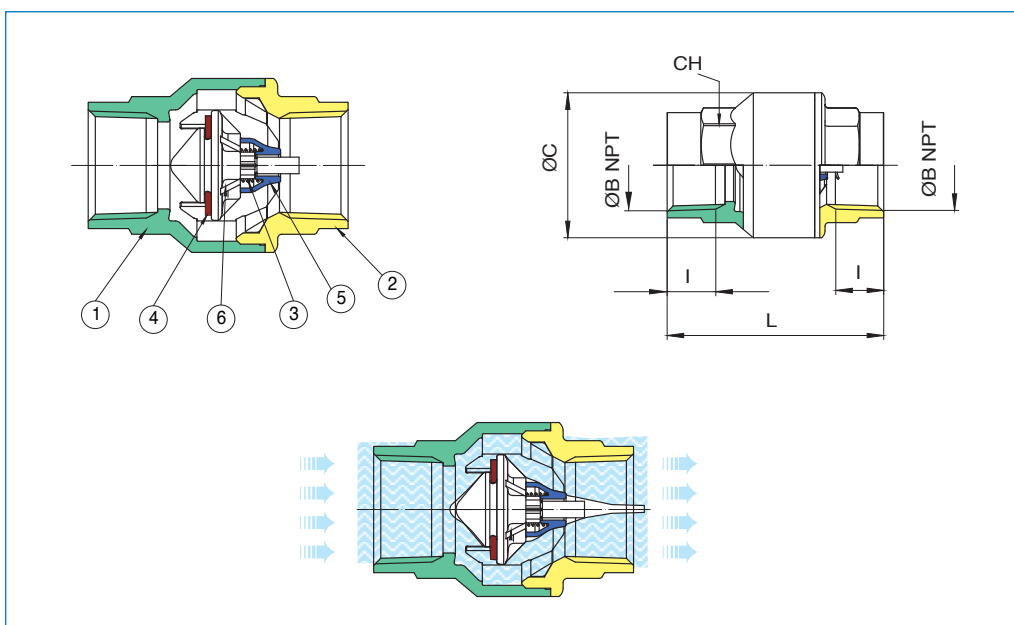
High flow rate brass, FNPT threaded, in-line spring loaded check valve.

- Pressure rating: size 1/4"-2" 400 WOG / 2 1/2"-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: -4°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.

100002: NBR for water, oils and general purpose.

100003: with FKM Viton® seal for fuels and hydrocarbons.

Max working TEMPERATURE 366°F/125 psi steam - 3/8"-4".



N POS	PART NAME	MATERIAL	N PCS
1	BODY	BRASS C38000	1
2	END CONNECTION	BRASS C38000	1
3	SPRING	STAINLESS STEEL AISI 302	1
4	SEAT	100002 NBR	1
		100003 FKM (Viton®)	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	0.18
1/2"	0.54	2.22	1.36	0.98	400	6.71	0.30
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	0.72
1 1/4"	0.68	3.13	2.40	1.89	400	23.37	1.19
1 1/2"	0.68	3.31	2.87	2.13	400	35.75	1.59
2"	0.70	3.62	3.44	2.64	400	56.46	2.30
2 1/2"	0.93	4.37	4.39	3.27	175	91.87	4.80
3"	1.02	4.86	5.24	3.86	175	144.51	6.83
4"	1.09	5.45	6.42	5.04	175	224.92	11.68

\* Art. 100003 not available in 1/4" size.

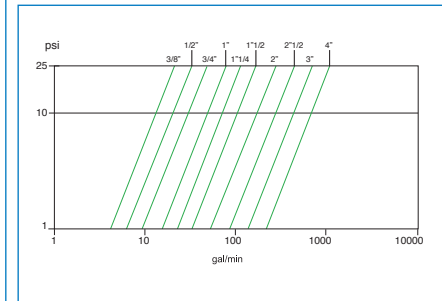
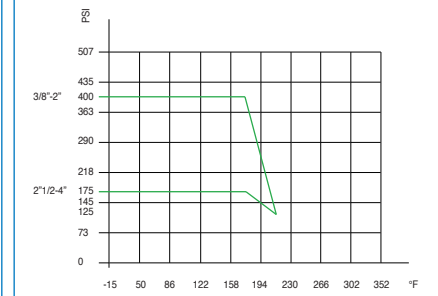
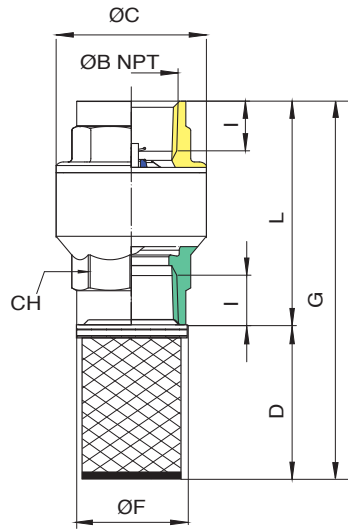
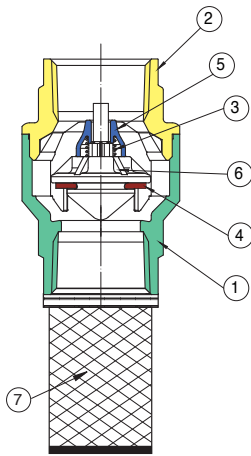
**WARNING:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov).





## SERIES 100102 FOOT VALVE

- High flow rate, brass FNPT threaded, spring loaded foot valve.
- Pressure rating: sizes 3/8"-2" 400 WOG - 2 1/2"-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: -4°F to 210°F.
  - High technology materials to ensure best resistance in any condition.
  - Patented disc to prevent side loading.
  - Stainless steel 1000 micron strainer.
  - Not to be used for drinking water.
  - ANSI B1.20.1 connections.



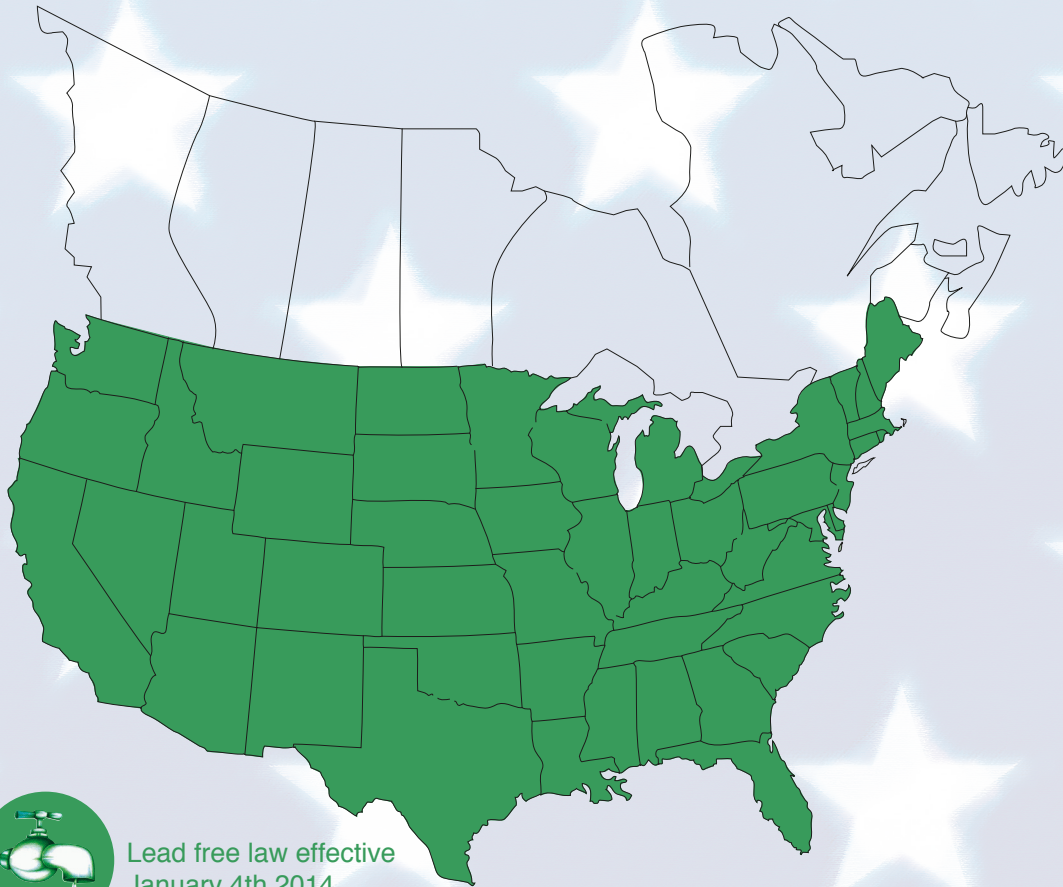
N POS	PART NAME	MATERIAL	N PCS
1	BODY	BRASS C38000	1
2	END CONNECTION	BRASS C38000	1
3	SPRING	STAINLESS STEEL	1
4	SEAT	NBR	1
5	SUPPORT	POM	1
6	DISC	POLYPHENYLENE SULFIDE	1
7	SCREEN	STAINLESS STEEL NYLON 1000 MICRON	1

SIZE ØB	I	L	ØC	D	ØF	G	CH	psi	Cv	Weight Lbs
3/8"	0.41	1.73	1.06	1.67	0.91	3.41	0.79	400	4.28	0.21
1/2"	0.54	2.32	1.36	1.69	1.02	4.02	0.98	400	6.70	0.36
3/4"	0.55	2.56	1.65	1.89	1.26	4.45	1.22	400	9.94	0.52
1"	0.66	2.76	1.93	1.89	1.61	4.65	1.50	400	15.95	0.80
1 1/4"	0.68	2.93	2.40	2.24	1.93	5.18	1.89	400	23.35	1.26
1 1/2"	0.68	3.17	2.87	2.68	2.17	5.85	2.13	400	35.72	1.76
2"	0.70	3.37	3.46	3.27	2.64	6.63	2.64	400	56.41	2.39
2 1/2"	0.93	4.37	4.39	3.29	3.39	7.66	3.27	175	91.79	4.98
3"	1.02	4.86	5.24	3.90	3.90	8.76	3.86	175	144.38	7.27
4"	1.09	5.41	6.42	4.53	4.80	9.94	5.04	175	224.73	12.22

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# BONOMI

## NORTH AMERICA



Lead free law effective  
January 4th 2014

## LEAD FREE VALVES AND FORGINGS

At Bonomi North America we are dedicated to providing the best possible lead free brass material in the industry today. Our lead free brass is basically the same material we have always used, less the lead. No new element has been added, only more of the existing elements. There is no bismuth nor silicon lead replacement filler present in our material, therefore no worry about having to use higher temperature fluxes and special solders. Our valves are soldered just like a leaded valve... no change. We have had many years of experience with our lead free material in different parts of the world, and our acceptance in North America has been very positive. There is no good reason to switch to valves requiring either high temperature solders-fluxes, nor need to worry about potential long term material brittleness, when Bonomi lead free valves are available. Brass forgings vs. bronze sand castings. Another advantage Bonomi valves have over other lead free valves is that Bonomi lead free brass valves are forged and not sand cast. Brass forged valve bodies are far superior to bronze sand cast bodies, offering higher tensile strength, lighter weight, and zero porosity, unlike bronze sand cast parts. At Bonomi North America, we are dedicated to providing only the safest, highest performing valves that eliminate problems for specifiers and installers.



# SERIES 161N LF - 162N LF COMPACT STYLE



HEALTH EFFECTS US-CA  
NSF 372  
NSF 61



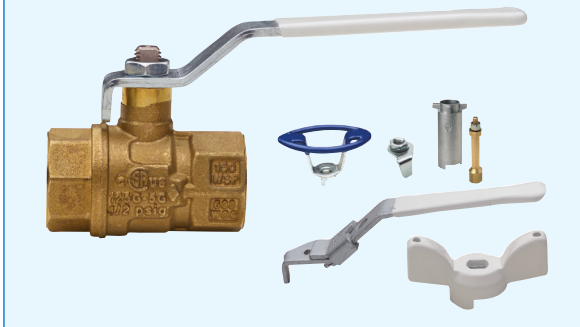
Lead free brass ball valve, FNPT threaded, full port sizes 1/2" up to 4".

- Pressure rating 600 WOG-150 WSP.
- Temperature range -4°F to 366°F.
- Blow out proof stem, T.E.A. coated LF brass ball.
- P.T.F.E seats and double O-ring stem packing.
- 100% electronically tested in the open and closed position at 80 psi.
- Valve to be used in fully open or fully closed position.
- ANSI B1.20.1 connections.

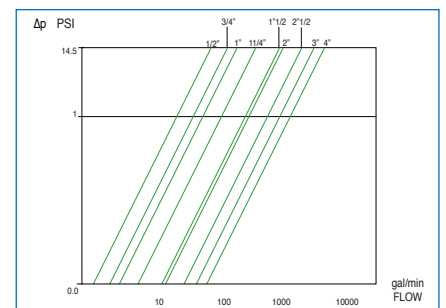
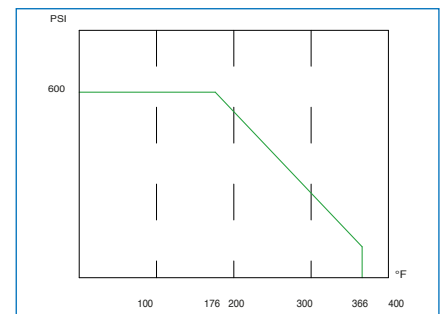
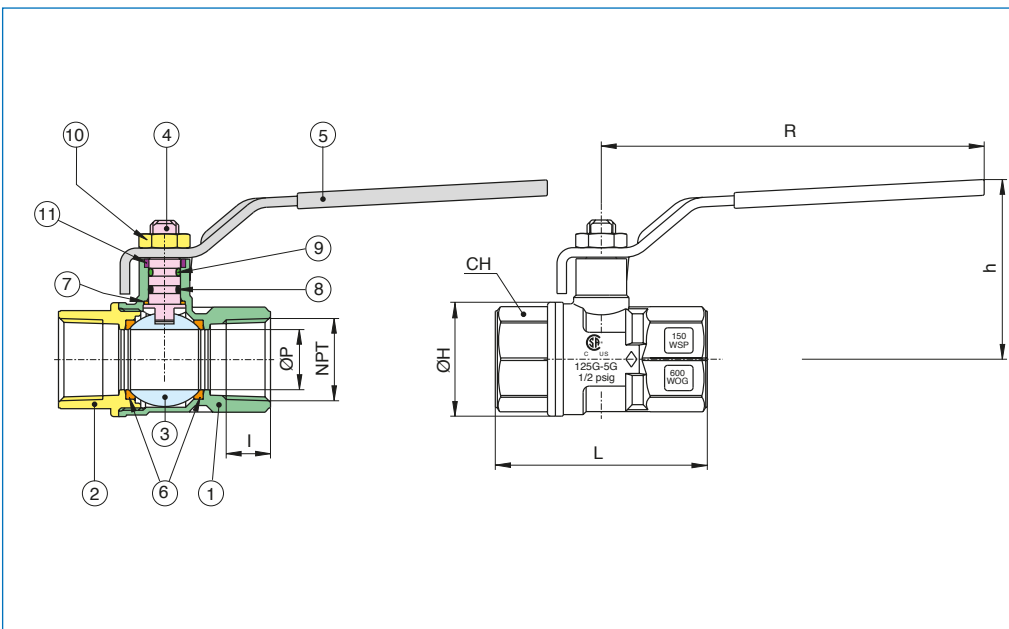
161N LF: LEVER HANDLE - size 1/2" to 4".

162N LF: T- HANDLE - size 1/2" to 1".

Sizes 1/4" and 3/8" see 171N LF.



MEETS THE DESIGN CRITERIA OF MSS\_SP\_110.



N POS	PART NAME	MATERIAL	N PCS
1	BODY	LF BRASS C28500 *	1
2	END CONNECTION	LF BRASS C28500 *	1
3	BALL BALL (2 1/2" to 4")	LF BRASS C28500 * STEEL 1.4401	1 1
4	STEM	LF BRASS C28500 *	1
5	HANDLE	STEEL DD11	1
6	BALL SEAT	P.T.F.E	2
7	THRUST WASHER	P.T.F.E	1
8	O-RING	NBR	1
9	O-RING	FKM (Viton®)	1
10	NUT	STEEL CL04	1
11	PACKING RING	P.T.F.E	1

SIZE	ØP	l	L	ØH	CH	R	h	Cv	psi	Weight Lbs
1/2"	0.55	0.54	2.22	1.22	0.98	3.78	1.77	18.15	600	0.40
3/4"	0.75	0.55	2.46	1.46	1.22	4.76	2.22	32.37	600	0.66
1"	0.94	0.66	3.01	1.76	1.50	4.76	2.32	47.98	600	0.99
1 1/4"	1.19	0.68	3.37	2.11	1.89	5.94	2.85	97.80	600	1.60
1 1/2"	1.50	0.68	3.70	2.64	2.13	5.94	3.09	252.60	600	2.19
2"	1.95	0.70	4.31	3.39	2.64	6.30	3.70	290.75	600	3.97
2 1/2"	2.44	0.93	5.16	4.09	3.27	8.07	4.59	593.06	600	7.58
3"	2.99	1.02	5.94	4.96	3.86	8.07	4.98	958.84	600	11.90
4"	3.94	1.09	7.60	6.54	4.92	10.31	6.56	1526.59	600	24.69

\* 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.

**WARNING:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov).

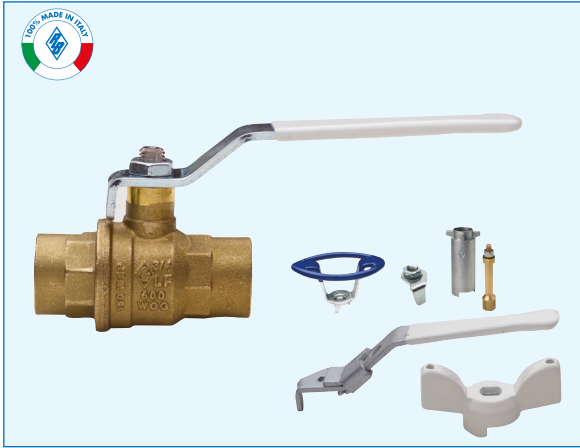




# SERIES 1615 LF - 1625 LF COMPACT STYLE



HEALTH EFFECTS US-CA  
NSF 372  
NSF 61



Lead free brass ball valve with solder ends, full port sizes 1/2" up to 4".

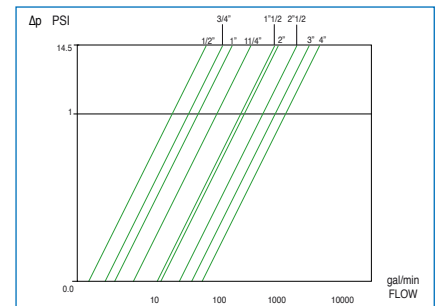
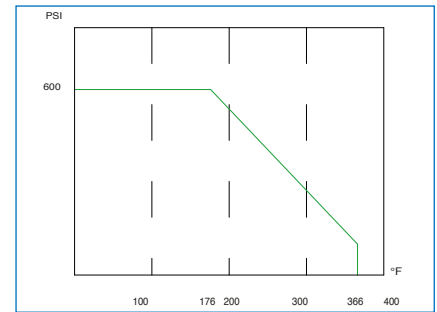
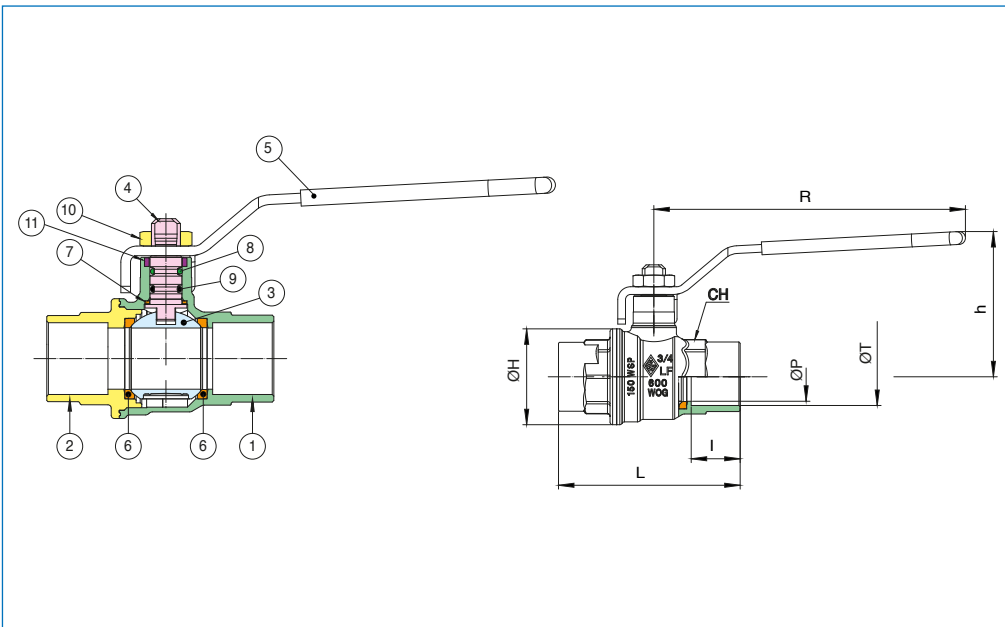
- Pressure rating 600 WOG-150 WSP.
- Temperature range -4°F to 366°F.
- Blow out proof stem, T.E.A. coated LF brass ball.
- P.T.F.E seats and double O-ring stem packing.
- 100% electronically tested in the open and closed position at 80 psi.
- Valve to be used in fully open or fully closed position.
- ANSI B16.18 connections.

**TRADITIONAL SWEATING PROCEDURES RECOMMENDED.**

**1615 LF: LEVER HANDLE - size 1/2" to 4".**

**1625 LF: T-HANDLE - size 1/2" to 1".**

MEETS THE DESIGN CRITERIA OF MSS\_SP\_110.



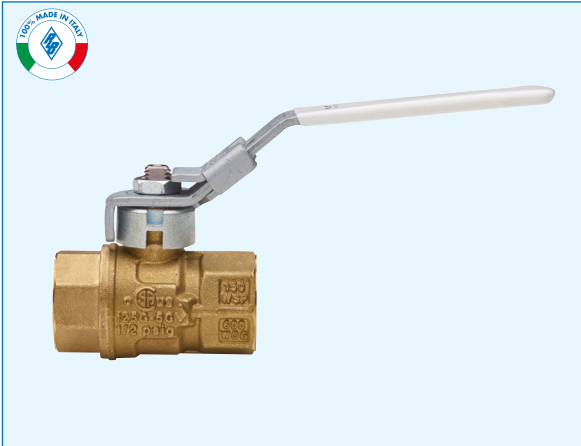
N POS	PART NAME	MATERIAL	N POS
1	BODY	LF BRASS C28500 *	1
2	END CONNECTION	LF BRASS C28500 *	1
3	BALL	LF BRASS C28500 * S.STEEL 1.4401 (2 1/2" to 4")	1
4	STEM	LF BRASS C28500 *	1
5	HANDLE	STEEL DD11	1
6	BALL SEAT	P.T.F.E	2
7	THRUST WASHER	P.T.F.E	1
8	O-RING	FKM (Viton®)	1
9	O-RING	NBR	1
10	NUT	STEEL CL 04	1
11	PACKING RING	P.T.F.E	1

SIZE	ØP	I	ØT	L	ØH	CH	R	h	Cv	psi	Weight Lbs
1/2"	0.55	0.50	0.63	2.19	1.22	0.87	3.78	1.77	18.15	600	0.40
3/4"	0.75	0.75	0.88	2.78	1.46	1.06	4.76	2.22	32.37	600	0.63
1"	0.94	0.91	1.13	3.37	1.76	1.34	4.76	2.32	47.98	600	0.95
1 1/4"	1.19	0.97	1.38	3.86	2.11	1.69	5.94	2.85	97.80	600	1.64
1 1/2"	1.50	1.10	1.63	4.48	2.64	1.97	5.94	3.09	252.60	600	2.36
2"	1.95	1.34	2.13	5.33	3.39	2.44	6.30	3.70	290.75	600	4.17
2 1/2"	2.44	1.48	2.63	6.14	4.09	3.27	8.07	4.59	593.06	600	7.85
3"	2.99	1.67	3.13	7.17	4.96	3.54	8.07	4.98	958.84	600	11.73
4"	3.94	2.17	4.13	10.08	6.54	4.92	10.24	6.54	1526.59	600	30.65

\* 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.

**WARNING:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov).





## SERIES 161L LF COMPACT STYLE

Lead free brass ball valve, FNPT threaded, full port sizes 1/2" to 4", with latch lock handle.

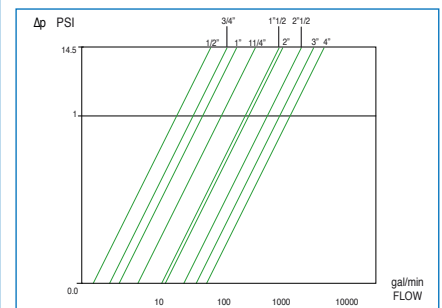
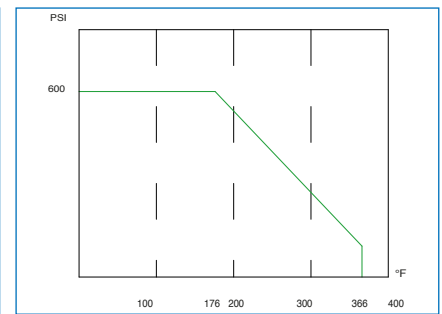
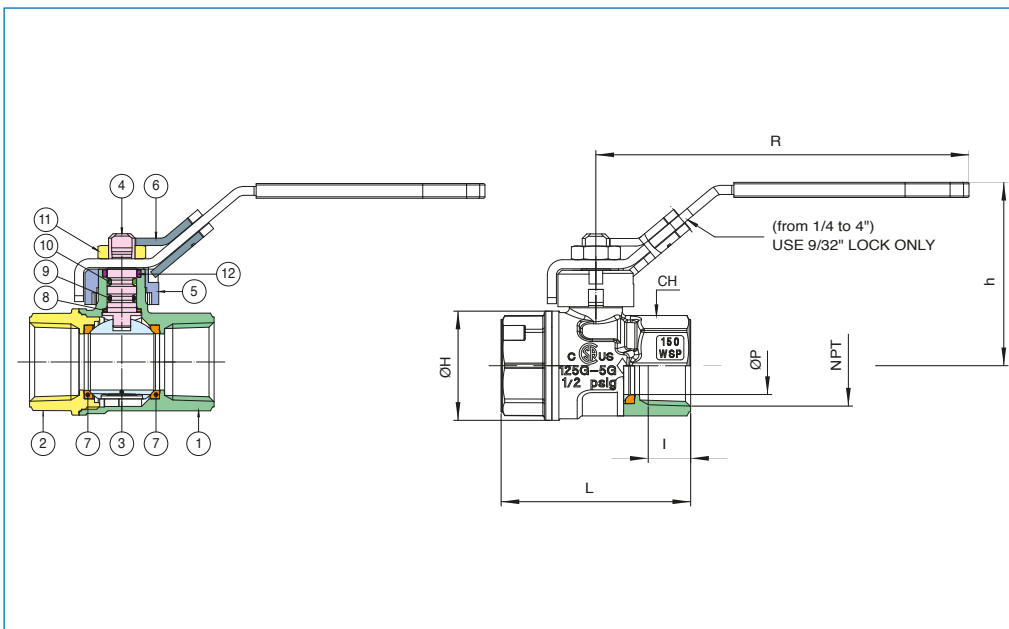
- Pressure rating 600 WOG-150 WSP.
- Temperature range -4°F to 366°F.
- Blow out proof stem, T.E.A. coated LF brass ball.
- P.T.F.E seats, seals, and thrust washer.
- 100% electronically tested in the open and closed position at 80 psi.
- Valve to be used in fully open or fully closed position.
- ANSI B1.20.1 connections.



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400 WOG up to 2"



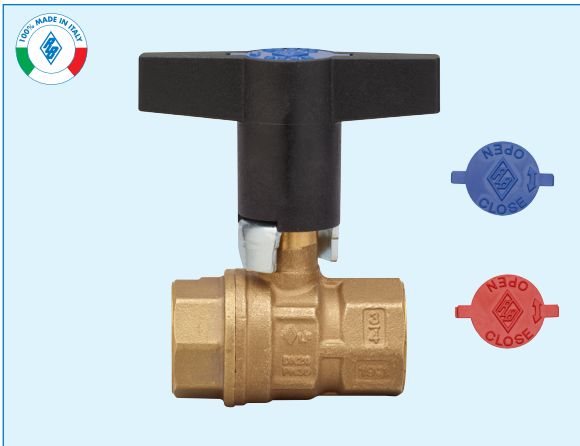
N POS	PART NAME	MATERIAL	N POS
1	BODY	LF BRASS C28500 *	1
2	END CONNECTION	LF BRASS C28500 *	1
3	BALL BALL 2 1/2" to 4")	LF BRASS C28500 * STEEL 1.4401	1 1
4	STEM	LF BRASS C28500 *	1
5	BUSH	G Zn Al4	1
6	HANDLE	STEEL DD11	1
7	BALL SEAT	P.T.F.E	2
8	THRUST WASHER	P.T.F.E	1
9	O-RING	NBR	1
10	O-RING	FKM (Viton®)	1
11	NUT	STEEL CL04	1
12	PACKING RING	P.T.F.E	1

SIZE	ØP	I	L	ØH	CH	R	h	Cv	psi	Weight Lbs
1/2"	0.55	0.54	2.22	1.22	0.98	3.78	1.91	18.15	600	0.45
3/4"	0.75	0.55	2.46	1.46	1.22	4.84	2.38	32.37	600	0.76
1"	0.94	0.66	3.01	1.76	1.50	4.84	2.48	47.98	600	1.09
1 1/4"	1.19	0.68	3.37	2.11	1.89	5.94	2.99	97.80	600	1.77
1 1/2"	1.50	0.68	3.70	2.64	2.13	5.94	2.05	252.60	600	2.33
2"	1.95	0.70	4.31	3.39	2.64	6.30	3.76	290.75	600	4.37
2 1/2"	2.44	0.93	5.16	4.09	3.27	8.11	4.78	593.06	600	8.67
3"	2.99	1.02	5.94	4.96	3.86	8.11	5.20	958.84	600	13.24
4"	3.94	1.09	7.60	6.54	4.92	10.28	6.56	1526.59	600	27.66

\* 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.

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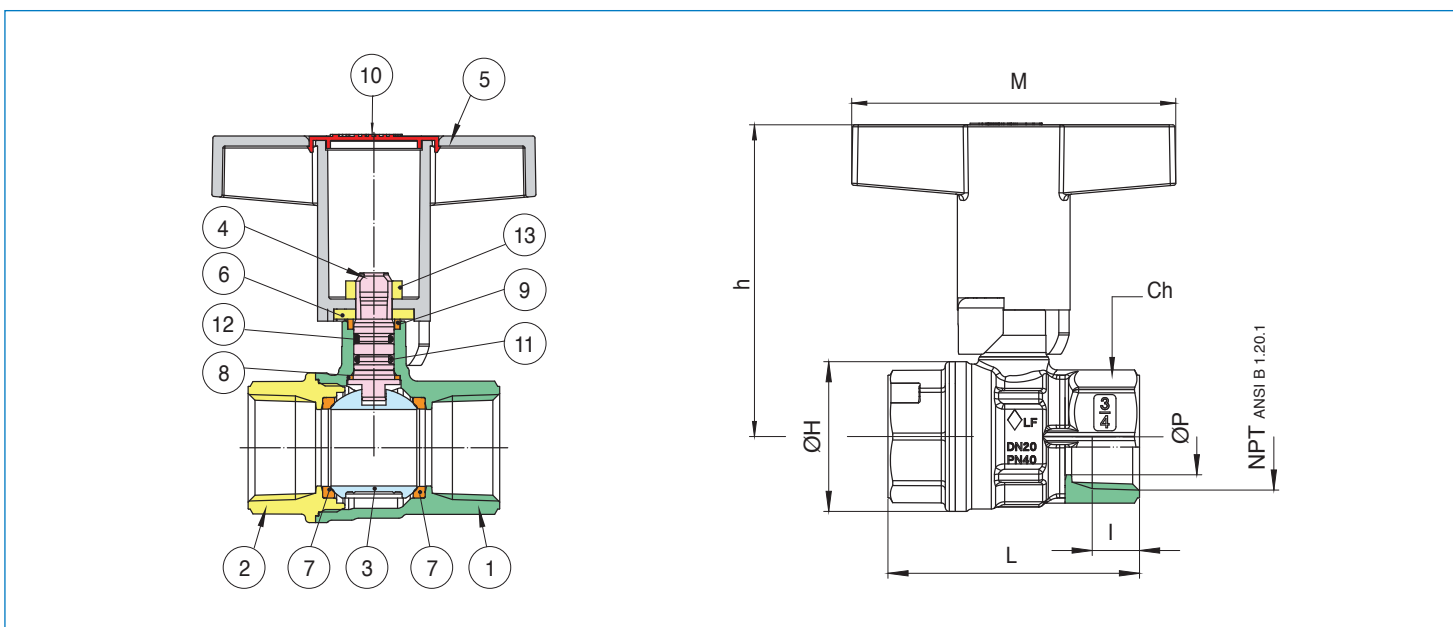
## SERIES 161N LFPT

### COMPACT LEAD FREE THREADED BRASS WITH THERMAL PLASTIC TEE

Lead free brass ball valve, FNPT threaded connections, full port sizes 1/2"-2".

- High Tensile strength forged lead-free brass.
- Valve to be used in fully open or fully closed position.
- Blow out proof stem.
- Pressure rating 600 WOG-150WSP.
- -4°F to 366°F.
- ANSI B1.20.1 thread depths.
- Ultimate bubble tight dual O-ring stem seals.
- Handle-polyamide thermal plastic T style.
- Vapor barrier design.
- Ideal for all insulated heating/chilled water piping.

**NEW**



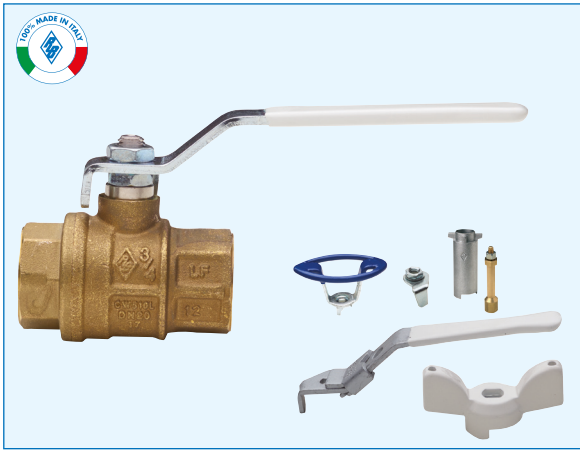
N POS	PART NAME	MATERIAL	N POS
1	BODY	LF BRASS C28500*	1
2	END CONNECTION	LF BRASS C28500*	1
3	BALL	LF BRASS C28500*	1
4	STEM	LF BRASS C28500*	1
5	T-HANDLE	PA6.6	1
6	90° STOP	STEEL DD11	1
7	BALL SEAT	P.T.F.E.	2
8	THRUST WASHER	P.T.F.E.	1
9	PACKING RING	P.T.F.E.	1
10	CAP	ABS	1
11	O-RING	NBR	1
12	O-RING	FKM	1
13	NUT	STEEL CL04	1

SIZE	ØP	I	L	ØH	Ch	M	h	psi	Weight Lbs
1/2"	0.55	0.54	2.22	1.22	0.98	3.15	2.80	600	0.42
3/4"	0.75	0.55	2.46	1.46	1.22	3.15	3.05	600	0.62
1"	0.94	0.66	3.01	1.76	1.50	3.15	3.15	600	0.97
1 1/4"	1.19	0.68	3.37	2.11	1.89	4.72	4.34	600	1.59
1 1/2"	1.50	0.68	3.70	2.64	2.13	4.72	4.57	600	2.20
2"	1.95	0.70	4.31	3.39	2.64	4.72	4.96	600	4.01

\* 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.

**WARNING:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov).





## SERIES 171N LF - 172N LF COMMERCIAL STYLE

Lead free brass ball valve, FNPT threaded, full port sizes 1/4" up to 2", steel handle, white grip.

- Pressure rating 600 WOG-150 WSP.
- Temperature range -4°F to 366°F.
- Blow out proof stem, T.E.A. coated LF brass ball.
- P.T.F.E seats, seals, and thrust washer.
- Adjustable stem packing.
- 100% electronically tested in the open and closed position at 80 psi.
- Valve to be used in fully open or fully closed position.

• ANSI B1.20.1 connections.

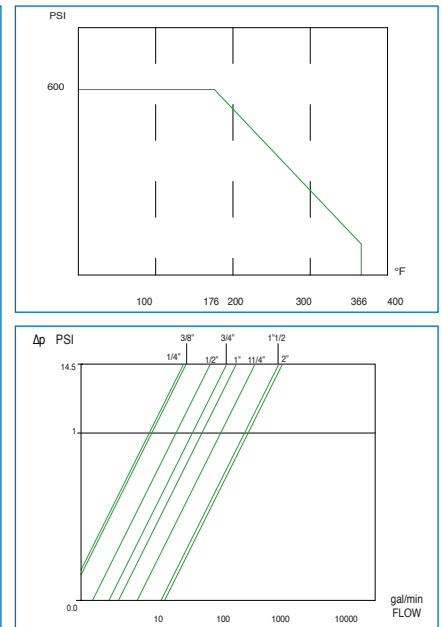
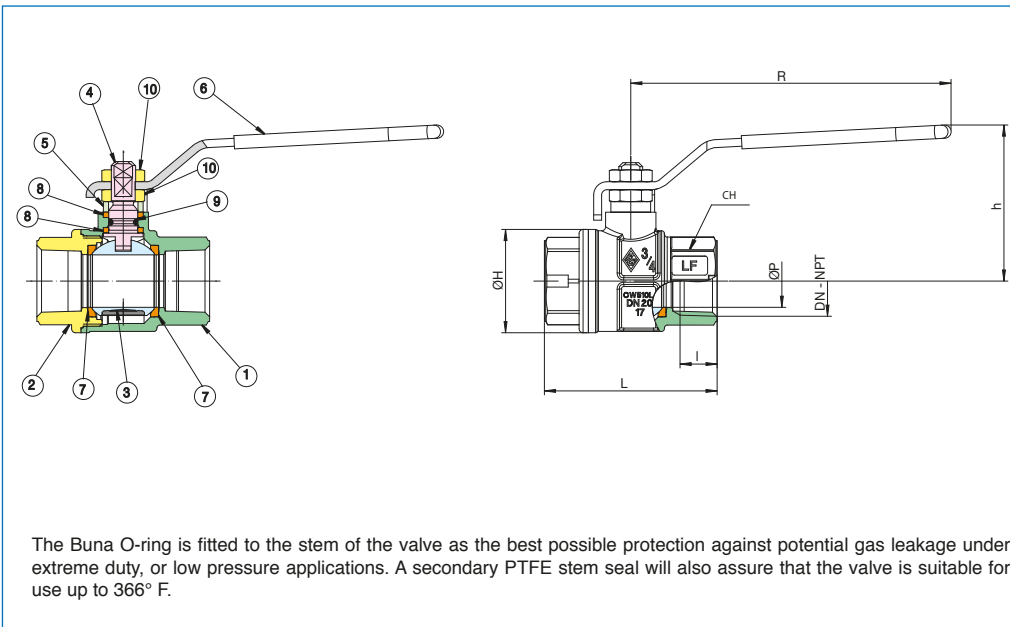
**171N LF:** LEVER HANDLE - size 1/4" to 2".

**171L LF:** LOCKING HANDLE - size 1/4" to 2".

**172N LF:** T-HANDLE size 1/4" to 1".

**171S LF:** BALL AND STEM IN STAINLESS STEEL AISI 316 - SIZE 1/4" - 2".

For sizes 2 1/2", 3" and 4" see 161N LF.



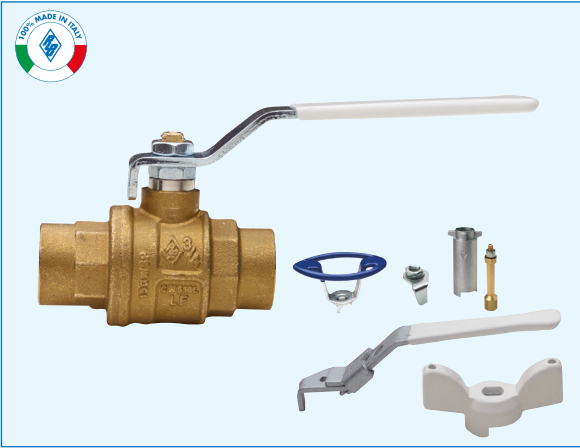
N POS	PART NAME	MATERIAL	N PCS
1	BODY	LF BRASS C28500*	1
2	END CONNECTION	LF BRASS C28500*	1
3	BALL	LF BRASS C28500* TEA COATED	1
4	BALL SEAT	P.T.F.E	2
5	THRUST WASHER/STEM SEAT	P.T.F.E	2
6	O-RING	NBR	1
7	PACKING GLAND	BRASS C38500	1
8	NUT	STEEL CL04	2
9	STEM	LF BRASS C28500*	1
10	HANDLE	STEEL DD11	1

SIZE	ØP	I	L	ØH	CH	R	h	Cv	psi	Weight Lbs
1/4"	0.39	0.39	1.91	0.91	0.79	3.78	1.69	6.24	600	0.31
3/8"	0.39	0.41	1.91	0.91	0.79	3.78	1.69	6.94	600	0.29
1/2"	0.59	0.54	2.34	1.30	0.98	3.78	1.83	18.84	600	0.46
3/4"	0.79	0.55	2.56	1.54	1.22	4.76	2.32	34.10	600	0.82
1"	0.98	0.66	3.07	1.93	1.50	4.76	2.48	49.71	600	1.15
1 1/4"	1.26	0.68	3.43	2.32	1.89	5.94	2.99	102.89	600	2.03
1 1/2"	1.57	0.68	3.90	2.87	2.13	5.94	3.25	265.90	600	3.02
2"	1.95	0.70	4.37	3.43	2.64	6.30	3.76	306.36	600	4.96

\* 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.

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## SERIES 1715 LF - 1725 LF COMMERCIAL STYLE

Lead free brass ball valve with solder ends, full port sizes 1/2" up to 2".

- Pressure rating 600 WOG-150 WSP.
- Temperature range -4°F to 366°F.
- Blow out proof stem, T.E.A. coated LF brass ball.
- P.T.F.E seats, seals, and thrust washer.
- Adjustable stem packing.
- 100% electronically tested in the open and closed position at 80 psi.
- Valve to be used in fully open or fully closed position.
- ANSI B16.18 connections.

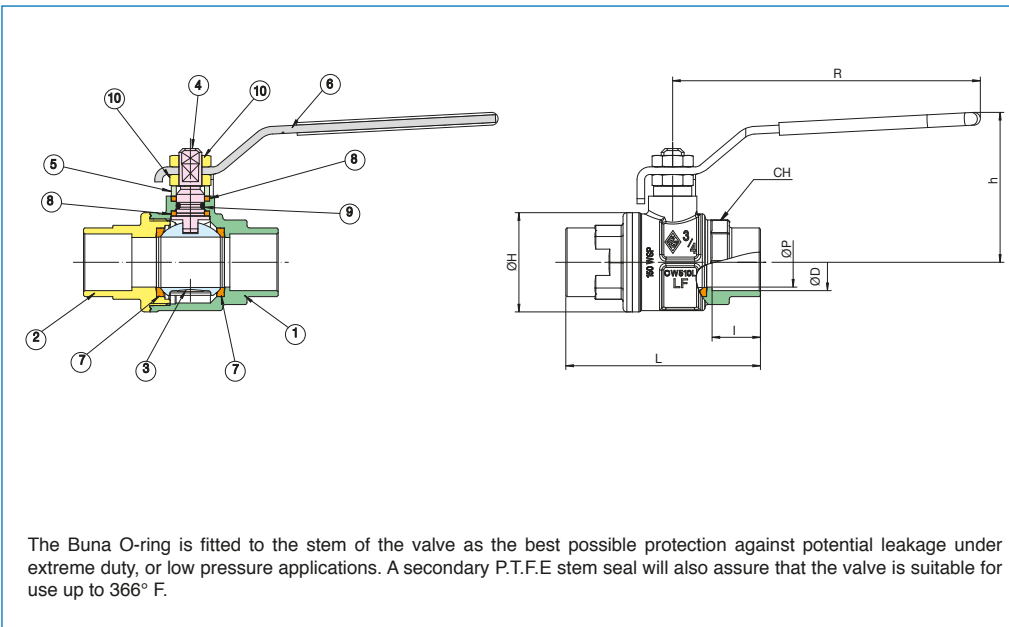
**TRADITIONAL SWEATING PROCEDURES RECOMMENDED.**

**1715 LF: LEVER HANDLE** size 1/2" to 2".

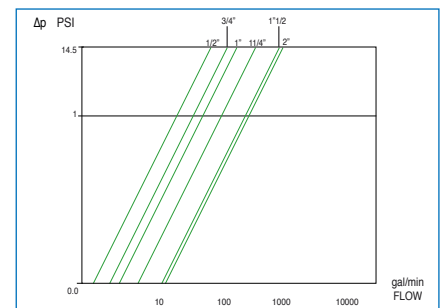
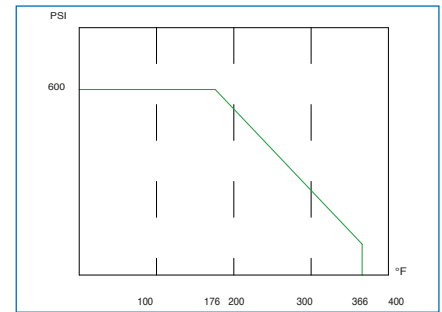
**1725 LF: T-HANDLE** size 1/2" to 1".



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The Buna O-ring is fitted to the stem of the valve as the best possible protection against potential leakage under extreme duty, or low pressure applications. A secondary P.T.F.E stem seal will also assure that the valve is suitable for use up to 366° F.



N POS	PART NAME	MATERIAL	N PCS
1	BODY	LF BRASS C28500 *	1
2	END CONNECTION	LF BRASS C28500 *	1
3	BALL	LF BRASS C28500 * TEA COATED	1
4	STEM	LF BRASS C28500 *	2
5	PACKING GLAND	BRASS C38500	2
6	HANDLE	STEEL DD11	1
7	BALL SEAT	P.T.F.E	1
8	THRUST WASHER/STEM SEAT	P.T.F.E	2
9	O-RING	NBR	1
10	NUT	STEEL CL04	1

SIZE	ØP	I	CH	ØD	ØH	L	h	R	Cv	psi	Weight Lbs
1/2"	0.59	0.50	0.98	0.63	1.30	2.58	1.85	3.78	18.84	600	0.49
3/4"	0.79	0.75	1.22	0.88	1.54	3.01	2.32	4.76	34.10	600	0.79
1"	0.98	0.91	1.50	1.13	1.93	3.56	2.48	4.76	49.71	600	1.17
1 1/4"	1.26	0.97	1.89	1.38	2.32	4.09	2.99	5.94	102.89	600	2.14
1 1/2"	1.57	1.10	2.13	1.63	2.87	4.57	3.25	5.94	265.90	600	3.20
2"	1.95	1.34	2.64	2.13	3.43	5.47	3.78	6.30	306.36	600	4.25

\* 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.

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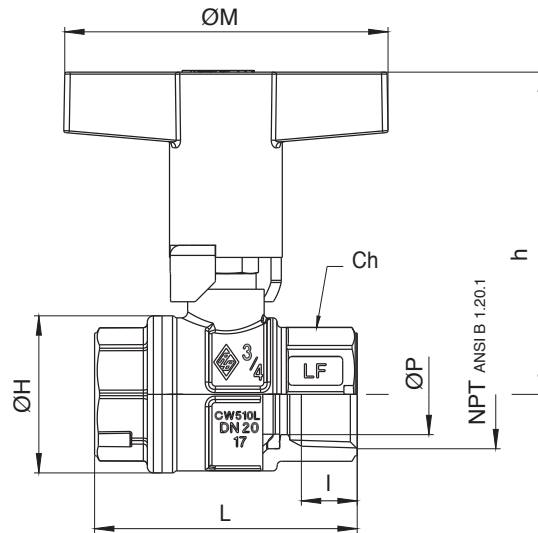
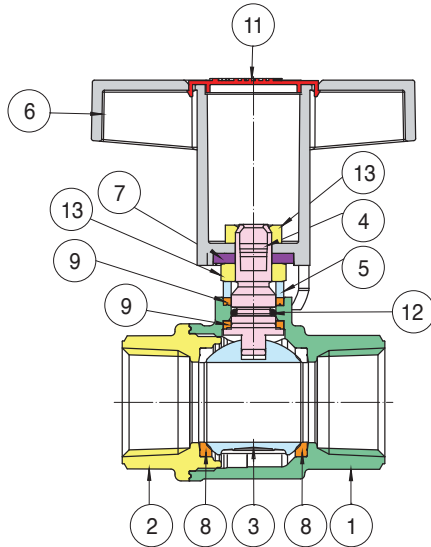
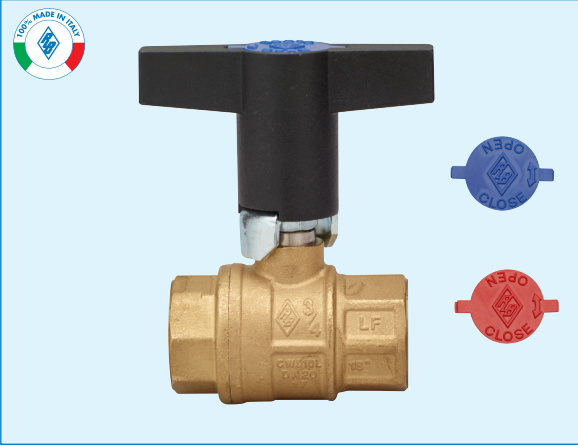
## SERIES 171N LFPT

### COMPACT LEAD FREE THREADED BRASS WITH THERMAL PLASTIC TEE

Lead free brass ball valve, FNPT threaded connections, full port sizes 1/2"-2".

- High tensile strength forged lead-free brass.
- Pressure rating 600 WOG-150WSP.
- -4°F to 366°F.
- ANSI B1.20.1 thread Depths.
- Valve to be used in fully open or fully closed position.
- Blow out proof stem.
- Adjustable packing-stem seals-two P.T.F.E., and one O-ring.
- Handle-polyamide thermal plastic T style.
- Vapor barrier design.
- Ideal for all insulated heating/chilled water piping.

**NEW**

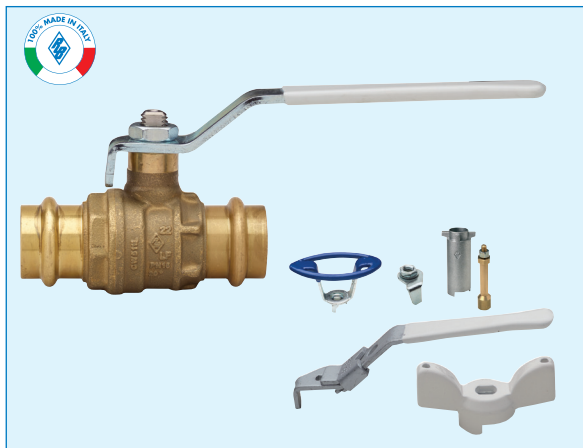


N POS	PART NAME	MATERIAL	N PCS
1	BODY	LF BRASS C28500*	1
2	END CONNECTION	LF BRASS C28500*	1
3	BALL	LF BRASS C28500*	1
4	STEM	LF BRASS C28500*	1
5	PACKING GLAND	BRASS C38500	1
6	T-HANDLE	PA6.6	1
7	90° STOP	STEEL DD11	1
8	BALL SEAT	P.T.F.E.	2
9	THRUST WASHER	P.T.F.E.	2
10	CAP	ABS	1
11	CAP	ABS	1
12	O-RING	NBR	1
13	NUT	STEEL CL04	1

SIZE	ØP	I	L	ØH	Ch	M	h	psi	Weight Lbs
1/2"	0.59	0.54	2.34	1.30	0.98	3.15	2.87	600	0.46
3/4"	0.79	0.55	2.56	1.54	1.22	3.15	3.15	600	0.82
1"	0.98	0.66	3.07	1.93	1.50	3.15	3.31	600	1.15
1 1/4"	1.26	0.68	3.43	2.32	1.89	4.72	4.49	600	2.03
1 1/2"	1.57	0.68	3.90	2.87	2.13	4.72	4.72	600	3.02
2"	1.95	0.70	4.37	3.43	2.64	4.72	5.12	600	4.96

\* 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.

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## SERIES 1570 LF

Lead free brass ball valve with EURO-PRESS connections full port sizes 1/2" - 2".

- Working pressure 200 CWP.
- Conforms to MSS SP-110\*.
- Drip fit O-rings.
- No soldered-in end pieces.
- Temperature range -4°F to 250°F.
- Blow out proof stem, SLT coated LF brass.
- Adjustable packing.
- Dual O-rings (Viton+NBR).
- P.T.F.E. seats and double O-ring stem packing.
- 100% electronically tested in the open and closed position at 80 psi.
- Valve to be used in fully open or fully closed position.
- Made in lead free dezincification resistant brass (LF-DZR).

\* The current specification SP-110 does not address the new technology of press end connections. Other than this exception, the valve meets the design criteria of the specification.

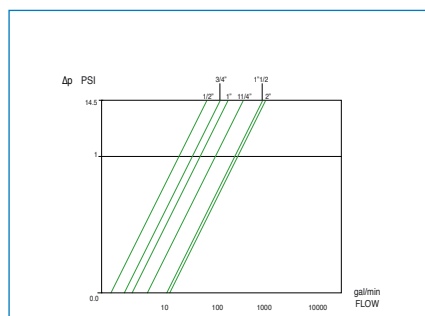
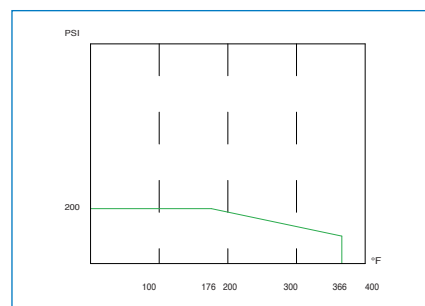
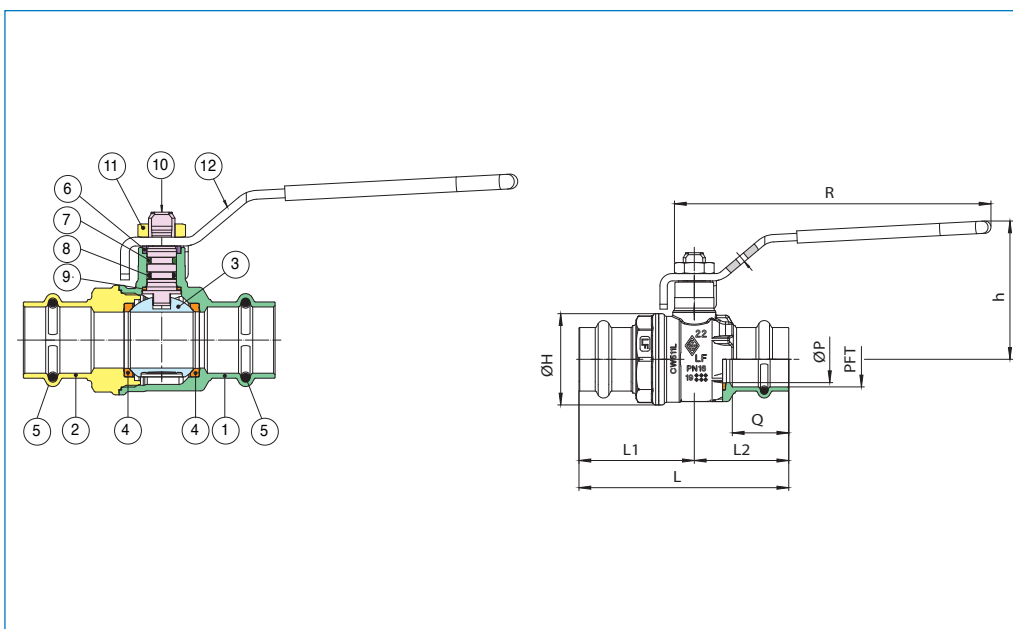


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200 WOG

**NEW**



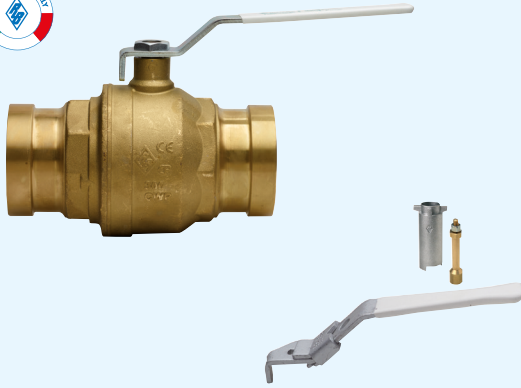
N POS	PART NAME	MATERIAL	N POS
1	BODY	LF DZR BRASS C27453*	1
2	END CONNECTION	LF DZR BRASS C27453*	1
3	BALL	LF BRASS C28500*	1
4	STEM	LF BRASS C28500*	2
5	HANDLE	STEEL 0D11	2
6	BALL SEAT	P.T.F.E.	1
7	THRUST WASHER	P.T.F.E.	1
8	PACKING RING	P.T.F.E.	1
9	O-RING	NBR	1
10	O-RING	FKM	1
11	O-RING	EPDM PEROX	1
12	HANDLE	STEEL CL 04	

PFT	ØP	Q	ØH	L	L1	L2	h	R	Cv	MAX WORK PRESS psi	CWP	Weight Lbs
1/2"	0,55	0,71	1,22	2,93	1,62	1,31	1,77	3,78	18.15	200	200	0.41
3/4"	0,75	0,91	1,46	3,37	1,85	1,52	2,22	4,84	32.37	200	200	0.71
1"	0,94	0,94	1,76	3,81	2,11	1,70	2,32	4,84	47.98	200	200	1.01
1 1/4"	1,19	1,02	2,11	4,17	2,24	1,93	2,85	5,94	97.80	200	200	1.52
1 1/2"	1,50	1,42	2,64	5,23	2,78	2,45	3,09	5,94	252.60	200	200	2.56
2"	1,95	1,57	3,39	6,27	3,29	2,98	3,70	6,30	290.75	200	200	4.39

\* 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.

**WARNING:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov).





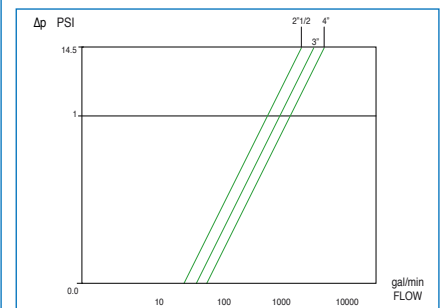
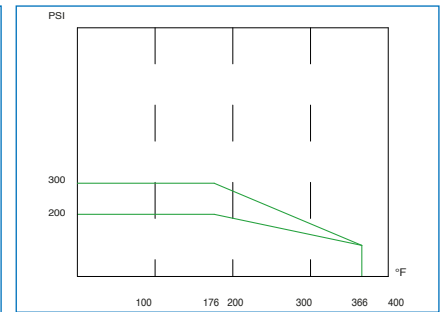
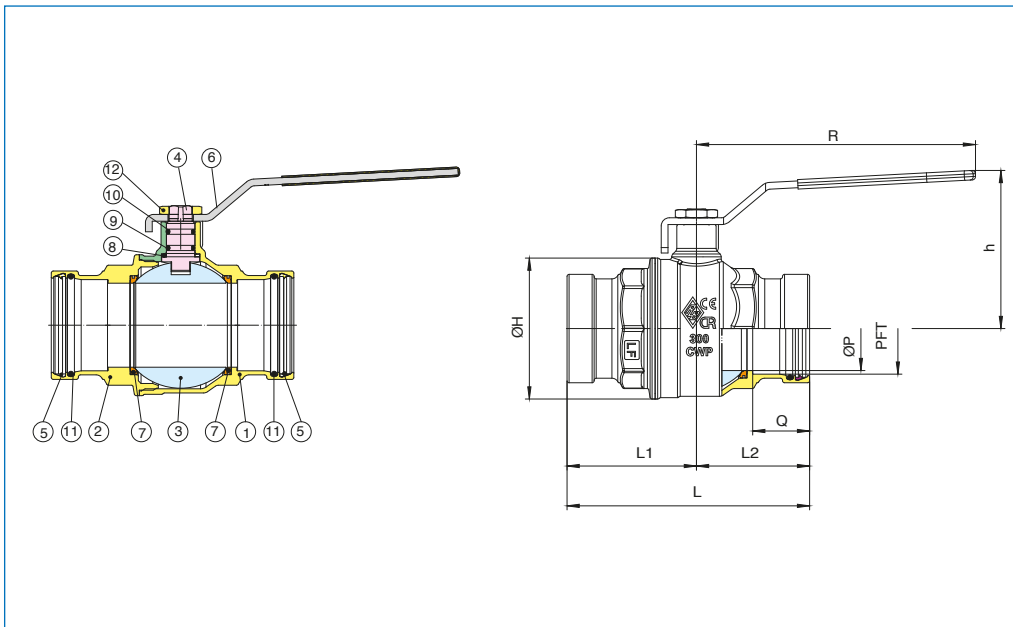
# SERIES 1670XLC LF



HEALTH EFFECTS US-CA  
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Lead free brass ball valve with XLC EURO-PRESS connections full port, sizes 2 1/2" - 4".

- Test pressure rating 300 psi up to 3" and 200 psi for the 4".
- Temperature range -4°F to 250°F.
- Blow out proof stem, stainless steel ball.
- P.T.F.E seats and double O-ring stem packing.
- 100% electronically tested in the open and closed position at 80 psi.
- Valve to be used in fully open or fully closed position.
- Made in lead free dezincification resistant brass (LF-DZR).



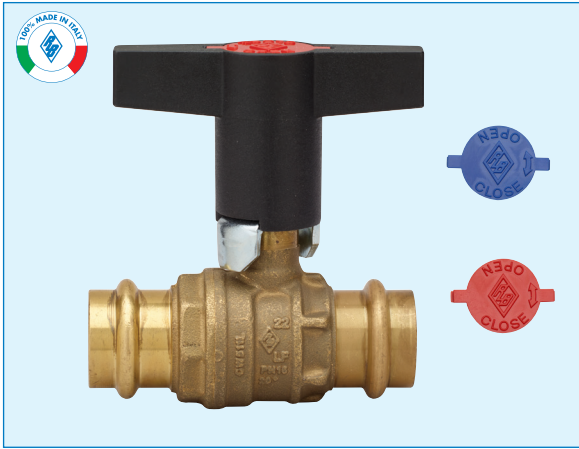
N POS	PART NAME	MATERIAL	N POS
1	BODY	LF BRASS C27453*	1
2	END CONNECTION	LF BRASS C27453*	1
3	BALL	STEEL 1.4408	1
4	STEM	LF BRASS C28500 *	1
5	COMPRESSION RING	STEEL 38NiCrMo4	2
6	HANDLE	STEEL DD11	1
7	BALL SEAT	P.T.F.E	1
8	THRUST WASHER	P.T.F.E	1
9	O-RING	NBR	1
10	O-RING	FKM (Viton®)	1
11	O-RING	EPDM PEROX	2
12	NUT	STEEL CL04	1

PFT	ØP	Q	ØH	L	L1	L2	h	R	Cv	MAX WORK PRESS psi	MAX TEST PRESS psi	Weight Lbs
2 1/2"	2.44	1.65	4.09	7.05	3.76	3.29	4.57	8.07	593.06	200	300	8.70
3"	2.99	1.91	4.96	8.27	4.45	3.82	4.98	8.07	958.84	200	300	13.60
4"	3.94	2.42	6.54	10.26	5.28	4.98	6.54	10.31	1526.59	200	200	28.39

\* 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.

**WARNING:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov).





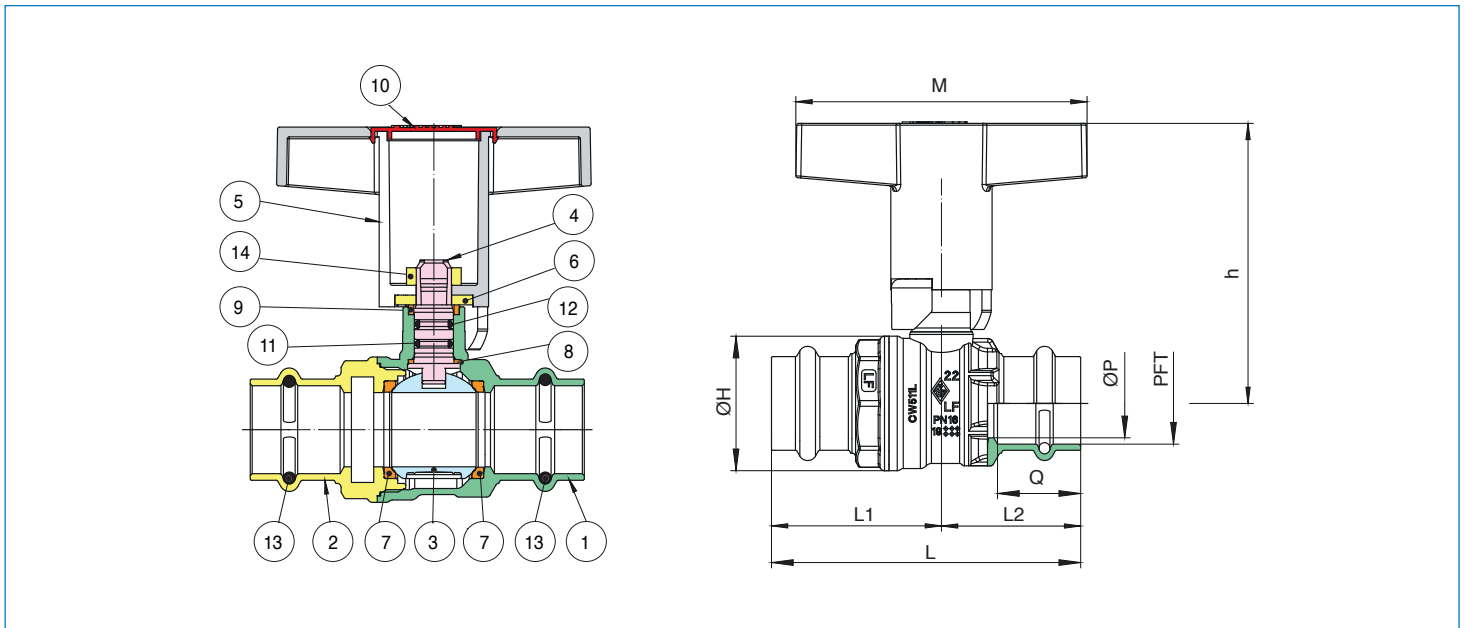
# SERIES 1570 LFPT

## COMMERCIAL LEAD FREE EURO-PRESS BRASS WITH THERMAL PLASTIC TEE

Lead free brass ball valve with EURO-PRESS connections, full port sizes 1/2"-2".

- High Tensile strength forged lead-free brass.
- Tested to 600PSI-working pressure-200PSI.
- Blow out proof stem.
- Valve to be used in fully open or fully closed position.
- -4°F to 250°F.
- ANSI B1.20.1 thread depths.
- Ultimate bubble tight dual O-ring stem seals.
- Handle-polyamide thermal plastic T style.
- Vapor barrier design.
- Ideal for all insulated heating/chilled water piping.

**NEW**



N PCS	PART NAME	MATERIAL	N PCS
1	BODY	LF DZR BRASS C27453*	
2	END CONNECTION	LF DZR BRASS C27453*	
3	BALL	LF BRASS C28500*	
4	STEM	LF BRASS C28500*	
5	T-HANDLE	PA6.6	
6	90° STOP	STEEL DD11	
7	BALL SEAT	P.T.F.E.	
8	THRUST WASHER	P.T.F.E.	
9	PACKING RING	P.T.F.E.	
10	CAP	ABS	
11	O-RING	NBR	
12	O-RING	FKM	
13	O-RING	EPDM PEROX	
14	NUT	STEEL CL 04	

SIZE	ØP	Q	ØH	L	L1	L2	h	M	psi	Weight Lbs
1/2"	0.55	0.71	1.22	2.93	1.62	1.31	2.80	3.15	200	0.44
3/4"	0.75	0.91	1.46	3.37	1.85	1.52	3.05	3.15	200	0.64
1"	0.94	0.94	1.76	3.81	2.11	1.70	3.15	3.15	200	1.01
1 1/4"	1.19	1.02	2.11	4.17	2.24	1.93	4.34	4.72	200	1.52
1 1/2"	1.50	1.42	2.64	5.23	2.78	2.45	4.57	4.72	200	2.49
2"	1.95	1.57	3.39	6.27	3.29	2.98	4.96	4.72	200	4.32

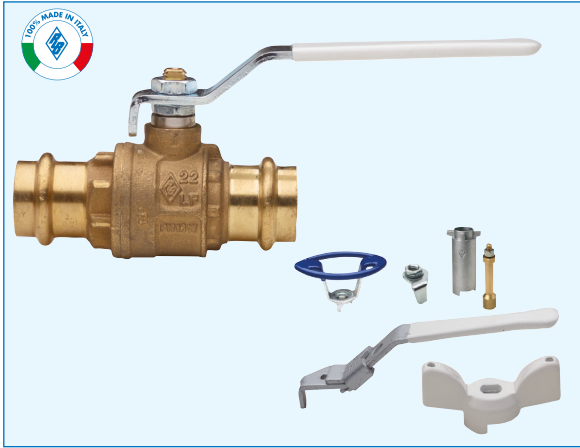
\* Lead free refers to the wetted surface of pipe, fittings and fixtures in potable water systems that have a weighted average lead content= 0.25%. Source: California health & Safety code (116875). Vermont Act 193.

**WARNING:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov).





## SERIES 1970 LF



Lead free brass ball valve with EURO-PRESS connections full port, sizes 1/2" - 2".

- Test pressure rating 600 CWP, working pressure 200 psi.
- Temperature range -4°F to 250°F.
- Blow out proof stem, T.E.A coated LF brass ball.
- P.T.F.E seats, seals, and thrust washer.
- Adjustable stem packing
- 100% electronically tested in the open and closed position at 80 psi.
- Valve to be used in fully open or fully closed position.
- Made in lead free dezincification resistant brass (LF-DZR).
- Press alert O-rings.

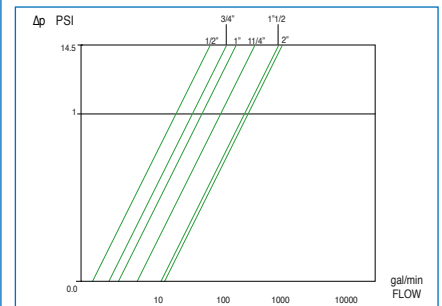
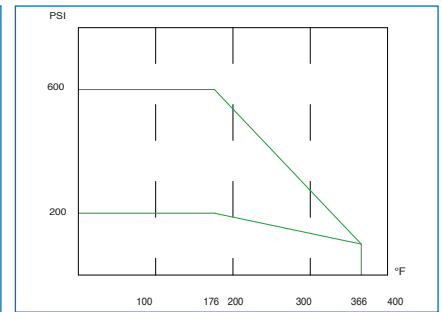
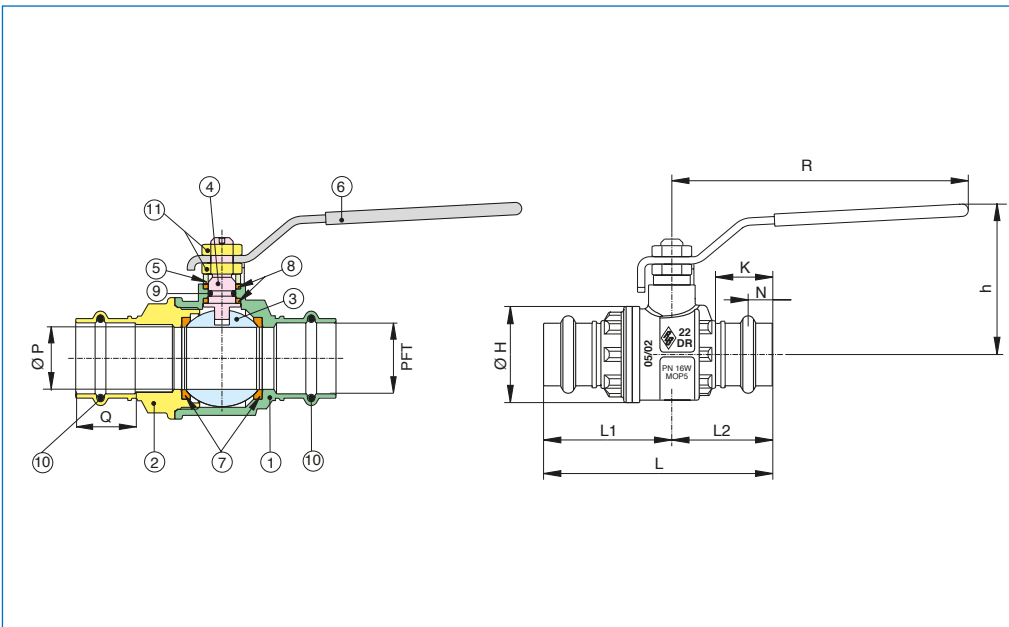
For size 2 1/2", 3" and 4" see 1670XLC LF.



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200 WOG



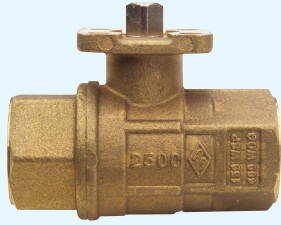
N POS	PART NAME	MATERIAL	N POS
1	BODY	LF DZR BRASS C27453*	1
2	END CONNECTION	LF DZR BRASS C27453*	1
3	BALL	LF BRASS C28500*	1
4	STEM	LF BRASS C28500*	1
5	PACKING GLAND	BRASS C38500	1
6	HANDLE	STEEL DD11	1
7	BALL SEAT	P.T.F.E	2
8	STEM SEAL/THRUST WASHER	P.T.F.E	2
9	O-RING	NBR	1
10	O-RING	EPDM	2
11	NUT	STEEL CL 04	2

PFT	ØP	Q	K	N	ØH	L	L1	L2	h	R	Cv	MAX WORK PRESS psi	MAX TEST PRESS psi	Weight Lbs
1/2"	0.59	0.71	0.67	0.31	1.30	2.99	1.71	1.30	1.89	3.78	18.84	200	600	0.48
3/4"	0.79	0.91	0.83	0.39	1.57	3.50	1.93	1.57	2.32	4.76	34.10	200	600	0.85
1"	0.98	0.94	0.83	0.39	1.93	3.92	2.19	1.73	2.48	4.76	49.71	200	600	1.24
1 1/4"	1.26	1.02	0.83	0.39	2.32	4.23	2.30	1.93	2.99	5.94	102.89	200	600	2.01
1 1/2"	1.57	1.42	1.02	0.49	2.87	5.33	2.78	2.56	3.25	5.94	265.90	200	600	3.34
2"	1.95	1.57	1.26	0.59	3.43	6.28	3.30	2.98	3.78	6.30	306.36	200	600	5.61

\* 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.

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# SERIES 250N LF

## DIRECT MOUNT 2 WAY BALL VALVE

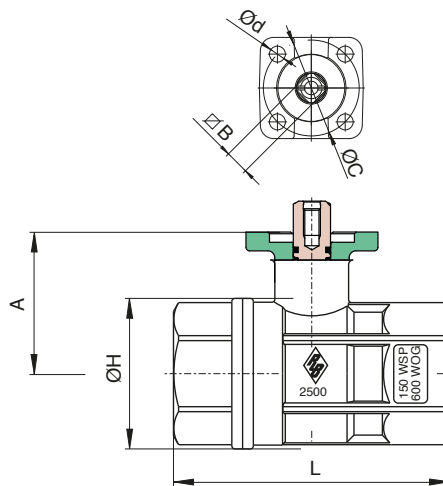
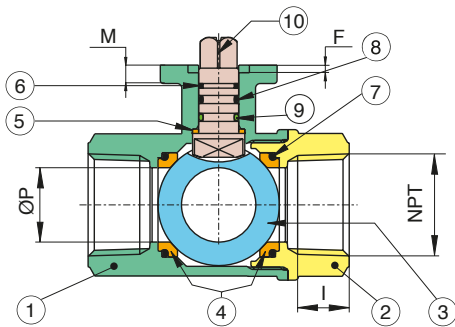


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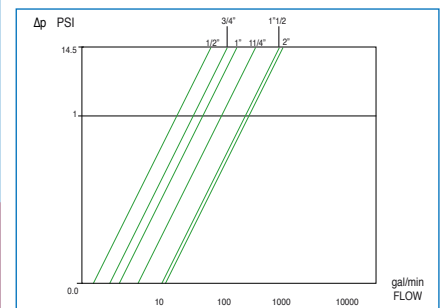
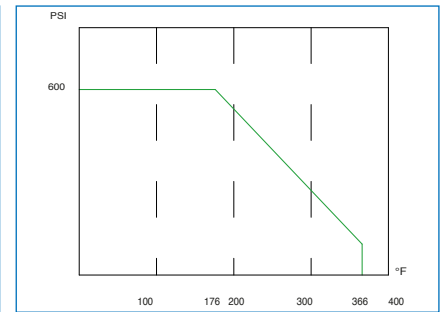
Lead free brass ball valve, FNPT threaded, with ISO 5211 pad for actuator, full port sizes 1/2" to 2".

- Pressure rating 600 WOG-150 WSP.
- Temperature range -4°F to 366°F.
- Blow out proof stem, T.E.A. coated LF brass ball.
- P.T.F.E seats with O-ring backing for low operating torque.
- P.T.F.E seats and double O-ring stem packing.
- 100% electronically tested in the open and closed position at 80 psi.
- Valve to be used in fully open or fully closed position.
- ANSI B1.20.1 connections.

### O-RING BACKING P.T.F.E SEATS



\* (in-Lbs) Torque values in the table are measured in laboratory tests under the following conditions:  
 TEMPERATURE: 68°F  
 PRESSURE: 0 psi  
 FLUID: PURIFIED WATER



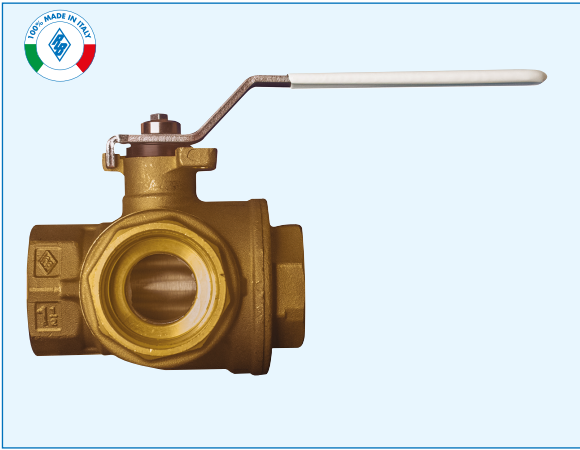
N POS	PART NAME	MATERIAL	N POS
1	BODY	LF BRASS C28500*	1
2	END CONNECTION	LF BRASS C28500*	1
3	BALL	LF BRASS C28500*	1
4	BALL SEAT	P.T.F.E	2
5	THRUST WASHER	P.T.F.E	1
6	STEM SEAL	P.T.F.E	1
7	O-RING	FKM (Viton®)	2
8	O-RING	EPDM	1
9	O-RING	FKM (Viton®)	1
10	STEM	LF BRASS C28500*	1

SIZE	A	ØC ISO 5211	F	ØB mm	Ød	ØH	I	L	CH	M	ØP	Cv	psi	Weight Lbs	* Break Torque (in/Lbs)
1/2"	1.28	1.42 (ISO F03)	0.08	9	0.24	1.32	0.54	2.64	1.06	0.22	0.55	18.84	600	0.68	17.70
3/4"	1.36	1.42 (ISO F03)	0.12	9	0.24	1.57	0.55	2.99	1.26	0.20	0.75	34.10	600	0.88	26.60
1"	1.79	1.42 (ISO F03)	0.12	9	0.24	1.93	0.66	3.35	1.61	0.24	0.94	49.71	600	1.59	26.60
1 1/4"	1.93	1.42 (ISO F03)	0.12	9	0.24	2.30	0.68	3.66	1.97	0.24	1.18	102.89	600	2.23	53.10
1 1/2"	2.52	1.97 (ISO F05)	0.12	11	0.28	2.87	0.68	4.13	2.17	0.31	1.50	265.90	600	3.70	88.50
2"	2.88	1.97 (ISO F05)	0.12	11	0.28	3.60	0.70	4.80	2.76	0.31	1.97	306.36	600	3.95	106.20

\* 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.

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# SERIES 355N LF (T) - 365N LF (L) DIRECT MOUNT 3 WAY BALL VALVE

3 way lead free brass valve, FNPT threaded, with ISO 5211 pad for actuator, standard port sizes 1/4" to 3"

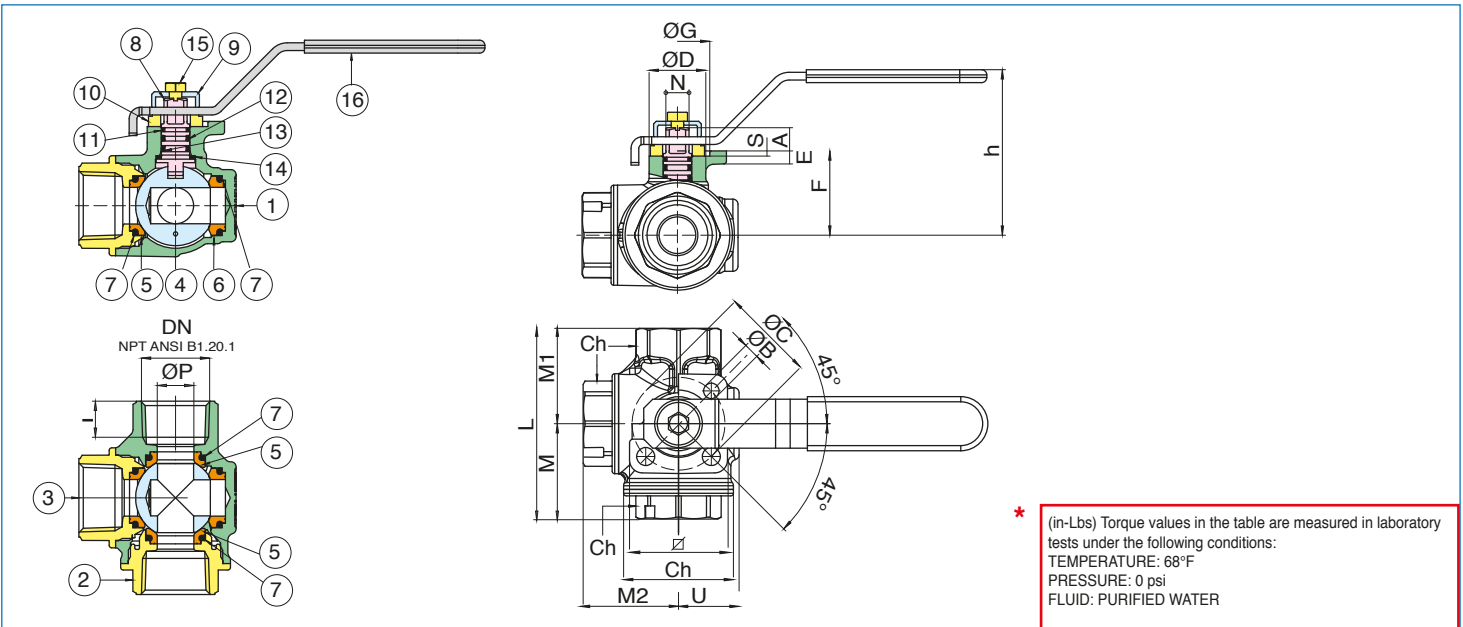
- Pressure rating 400 WOG-100 WSP.
- Temperature range -4°F to +366°F.
- Blow out proof stem, T.E.A. coated LF brass ball.
- P.T.F.E seats with O-ring backing for low operating torque.
- P.T.F.E seats and double O-ring stem packing.
- 100% electronically tested in the open and closed position at 80 psi.
- Four seat design for sealing between pressurized ports.
- Model 355N LF (90° and 180° flow path).
- Model 365N LF (90° with off position).
- ANSI B1.20.1 Connections.



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**355N LF:** LEVER HANDLE - size 1/4" to 3", "T" flow pattern.  
**365N LF:** LEVER HANDLE - size 1/4" to 3", "L" flow pattern.

**NEW**

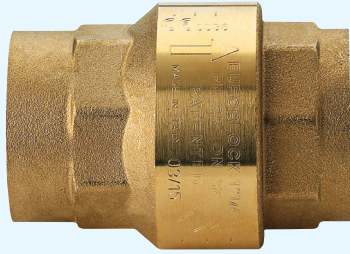


\* (in-Lbs) Torque values in the table are measured in laboratory tests under the following conditions:  
TEMPERATURE: 68°F  
PRESSURE: 0 psi  
FLUID: PURIFIED WATER

N POS	PART NAME	MATERIAL	N PCS	SIZE	ØP	ØH	I	L	Ch	A	ØB	ØC	ØD	E	F	ØG	M	M1	M2	N	S	U	h	R	Cv <sub>355NLF</sub>	Cv <sub>365NLF</sub>	psi	Weight Lbs <sub>355NLF</sub>	Weight Lbs <sub>365NLF</sub>	*Break Torque (in/Lbs)	
1	BODY	LF BRASS C28500 *	1	1/4"	0.39	1.42	0.39	2.36	0.79	0.35	0.24	1.42	0.99	0.20	1.20	1.50	0.87	1.18	1.18	1.18	0.35	0.08	0.79	2.44	4.72	3.26	3.50	400	0.99	1.03	17.70
2	END CONNECTION	LF BRASS C28500 *	1	3/8"	0.43	1.42	0.41	2.44	0.79	0.35	0.24	1.42	0.99	0.20	1.20	1.50	0.87	1.22	1.22	1.22	0.35	0.08	0.79	2.44	4.72	3.50	4.08	400	0.95	0.99	17.70
3	END CONNECTION	LF BRASS C28500 *	1																												
4	BALL	LF BRASS C28500 *	1	1/2"	0.43	1.42	0.54	2.78	0.98	0.35	0.24	1.42	0.99	0.20	1.20	1.50	0.87	1.39	1.39	1.40	0.35	0.08	0.79	2.44	4.72	4.20	5.02	400	1.04	1.07	17.70
5	BALL SEAT	P.T.F.E	3																												
6	BALL SEAT	P.T.F.E	1	3/4"	0.55	1.67	0.55	2.95	1.22	0.35	0.24	1.42	0.99	0.20	1.29	1.50	0.87	1.48	1.48	1.48	0.35	0.08	0.93	2.52	4.72	7.00	7.70	400	1.36	1.39	26.60
7	O-RING	FKM (Viton®)	4																												
8	STEM	LF BRASS C28500 *	1	1"	0.75	2.01	0.66	3.50	1.50	0.43	0.28	1.97	1.38	0.28	1.63	1.97	0.94	1.75	1.75	1.75	0.43	0.12	1.07	2.95	6.79	12.83	14.24	400	2.38	2.44	26.60
9	BUSH	BRASS C38500	1																												
10	WASHER	NYLON (PA6)	1	1 1/4"	0.95	2.62	0.68	4.04	1.89	0.43	0.28	1.97	1.38	0.28	1.85	1.97	0.94	2.05	1.99	1.99	0.43	0.12	1.31	3.17	6.79	18.67	19.72	400	3.75	3.81	53.10
11	THRUST WASHER	P.T.F.E	1																												
12	O-RING	EPDM	1	1 1/2"	1.18	3.07	0.68	4.66	2.13	0.43	0.28	1.97	1.38	0.28	2.34	1.97	1.26	2.43	2.22	2.43	0.43	0.12	1.57	3.66	6.79	29.75	30.69	400	5.66	5.81	88.50
13	O-RING	FKM (Viton®)	1																												
14	THRUST WASHER	P.T.F.E	1	2"	1.50	3.70	0.70	5.41	2.64	0.59	0.35	2.76	2.17	0.31	2.91	2.76	1.46	2.89	2.52	2.89	0.55	0.12	1.82	4.37	9.06	43.76	48.58	400	9.65	9.92	106.20
15	SCREW	STEEL CL 8.8	1																												
16	HANDLE	STEEL DD11	1	3	1.95	4.65	1.02	6.50	4.13	0.59	0.35	2.76	2.17	0.31	3.35	2.76	2.17	3.74	3.21	3.62	0.55	0.12	2.26	4.53	9.06	62.42	64.74	400	20.43	21.07	354.30

\* 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.  
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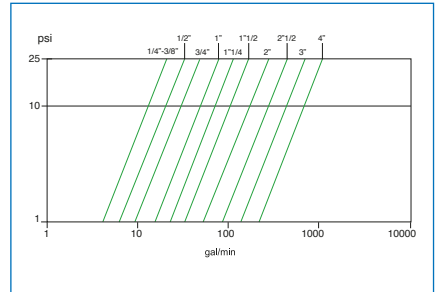
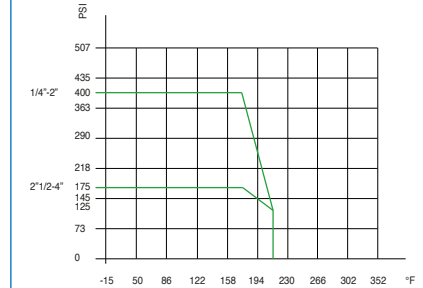
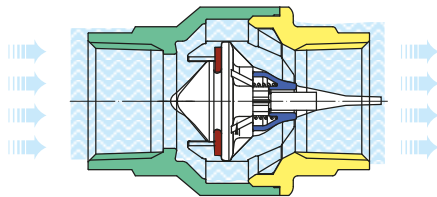
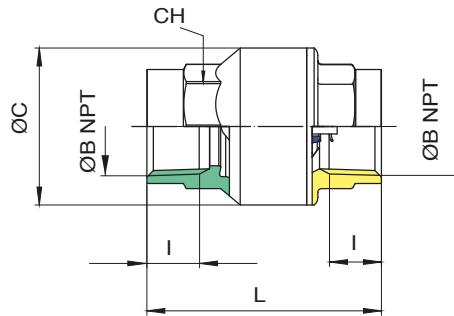
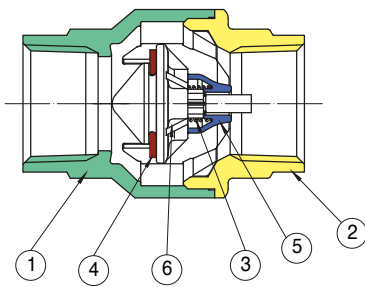
# SERIES 100012 LF CHECK VALVE

High flow rate, lead free brass, FNPT threaded, in-line spring loaded check valve.

- Pressure rating size 1/4" up to 2" 400 WOG, 2 1/2" - 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.
- ANSI B1.20.1 connections.



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N POS	PART NAME	MATERIAL	N POS	SIZE ØB	I	L	ØC	CH	psi	Cv	Weight Lbs
1	BODY	LF BRASS C28500*	1	1/4"	0.39	1.73	1.06	0.79	400	4.28	0.22
2	END CONNECTION	LF BRASS C28500*	1	3/8"	0.41	1.73	1.06	0.79	400	4.28	0.18
3	SPRING	STAINLESS STEEL AISI 302	1	1/2"	0.54	2.22	1.36	0.98	400	6.71	0.30
4	SEAT	NBR	1	3/4"	0.55	2.48	1.65	1.22	400	9.95	0.49
5	SUPPORT	POM	1	1"	0.66	2.85	1.93	1.50	400	15.97	0.72
6	DISC	POLYPHENYLENE SULFIDE	1	1 1/4"	0.68	3.13	2.40	1.89	400	23.37	1.19
				1 1/2"	0.68	3.31	2.87	2.13	400	35.75	1.59
				2"	0.70	3.62	3.44	2.64	400	56.46	2.30
				2 1/2"	0.93	4.37	4.39	3.27	175	91.87	4.80
				3"	1.02	4.86	5.24	3.86	175	144.51	6.83
				4"	1.09	5.45	6.42	5.04	175	224.92	11.68

\* 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.

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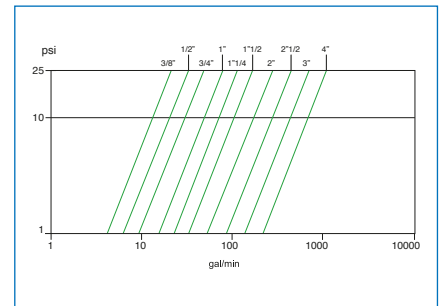
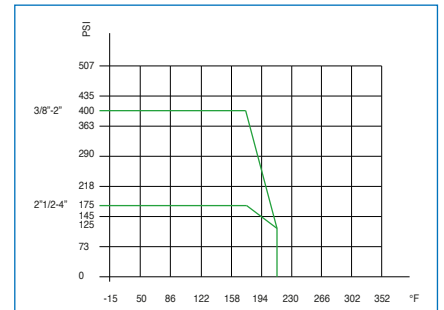
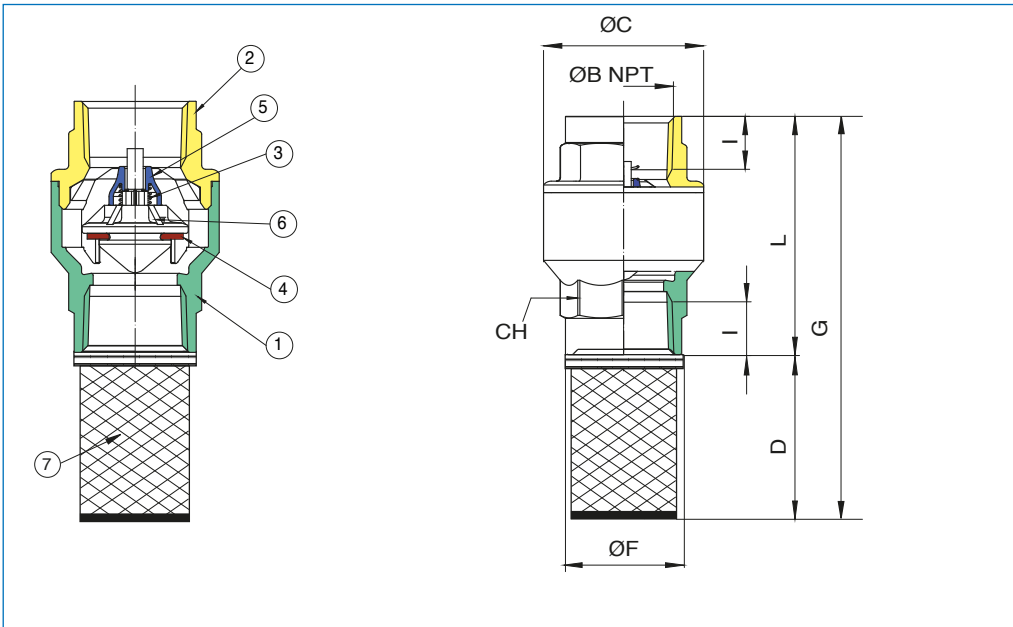
## SERIES 100112 LF FOOT VALVE

High flow rate, lead free brass, FNPT threaded, in-line spring loaded check valve.

- Pressure rating sizes 3/8"-2" 400 WOG - 2 1/2"- 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.
- Stainless steel 1000 micron strainer.
- ANSI B1.20.1 connections.



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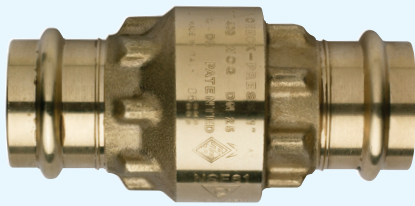
N POS	PART NAME	MATERIAL	N PCS
1	BODY	LF BRASS C28500*	1
2	END CONNECTION	LF BRASS C28500*	1
3	SPRING	STAINLESS STEEL AISI 302	1
4	SEAT	NBR	1
5	SUPPORT	POM	1
6	DISC	POLYPHENYLENE SULFIDE	1
7	STRAINER	STAINLESS STEEL NYLON 1000 MICRON	1

SIZE ØB	I	L	ØC	D	ØF	G	CH	psi	Cv	Weight Lbs
3/8"	0.41	1.73	1.06	1.67	0.91	3.41	0.79	400	4.28	0.21
1/2"	0.54	2.32	1.36	1.69	1.02	4.02	0.98	400	6.70	0.36
3/4"	0.55	2.56	1.65	1.89	1.26	4.45	1.22	400	9.94	0.52
1"	0.66	2.76	1.93	1.89	1.61	4.65	1.50	400	15.95	0.80
1 1/4"	0.68	2.93	2.40	2.24	1.93	5.18	1.89	400	23.35	1.26
1 1/2"	0.68	3.17	2.87	2.68	2.17	5.85	2.13	400	35.72	1.76
2"	0.70	3.37	3.46	3.27	2.64	6.63	2.64	400	56.41	2.39
2 1/2"	0.93	4.37	4.39	3.29	3.39	7.66	3.27	175	91.79	4.98
3"	1.02	4.86	5.24	3.90	3.90	8.76	3.86	175	144.38	7.27
4"	1.09	5.41	6.42	4.53	4.80	9.94	5.04	175	224.73	12.22

\* 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.

**WARNING:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov).



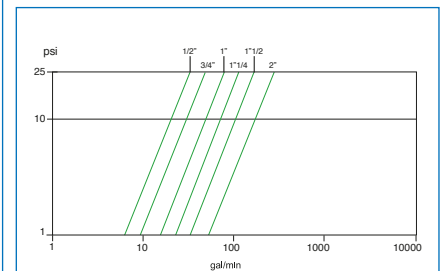
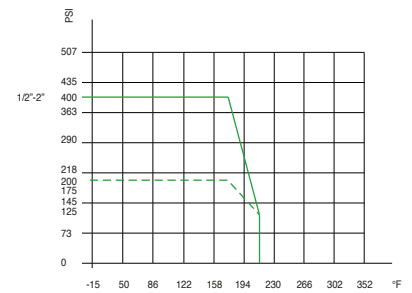
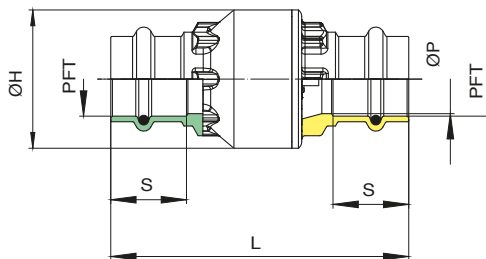
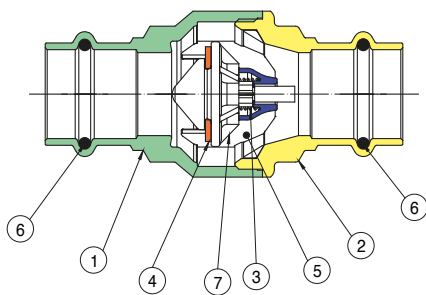


# SERIES 100612 LF PRESS CHECK VALVE

High flow rate, lead free brass, EURO-PRESS connections, in-line spring loaded check valve.

Pressure rating size 1/2"- 2" 200 WOG.

- Soft seat for bubble tight shutoff, spring loaded for fast seating action.
- Low cracking pressure 1/2 psi.
- Flow profile designed 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 the best corrosion resistance for any water application.
- Patented disc guide to prevent side loading.
- Press system for easy assembly of pipe.
- Press alert O-rings.



N POS	PART NAME	MATERIAL	N PCS
1	BODY	LF DZR BRASS C27453*	1
2	END CONNECTION	LF DZR BRASS C27453*	1
3	SPRING	STAINLESS STEEL AISI 302	1
4	SEAT	NBR	1
5	SUPPORT	POM	1
6	O-RING	EPDM	2
7	DISC	POLYPHENYLENE SULFIDE	1

PFT	ØP	S	L	ØH	Cv	MAX WORK PRESS psi	MAX TEST PRESS psi	Weight Lbs
1/2"	0.59	0.71	2.99	1.36	6.71	200	400	0.30
3/4"	0.79	0.91	3.56	1.65	9.95	200	400	0.53
1"	0.98	0.94	3.94	1.93	15.97	200	400	0.72
1 1/4"	1.26	1.02	4.09	2.40	23.37	200	400	1.17
1 1/2"	1.57	1.42	4.96	2.87	35.75	200	400	1.81
2"	1.97	1.57	5.57	3.44	56.46	200	400	2.50

\* 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.

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## SERIES 100712 LF IN-LINE SWEAT ENDS CHECK VALVE



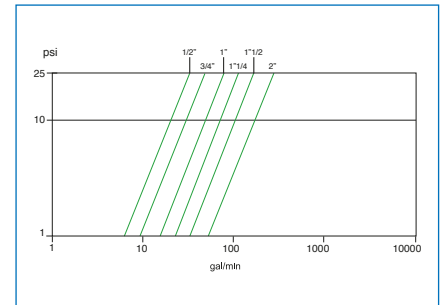
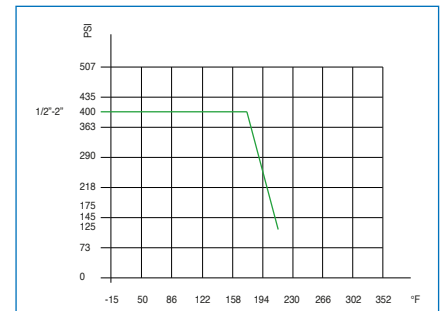
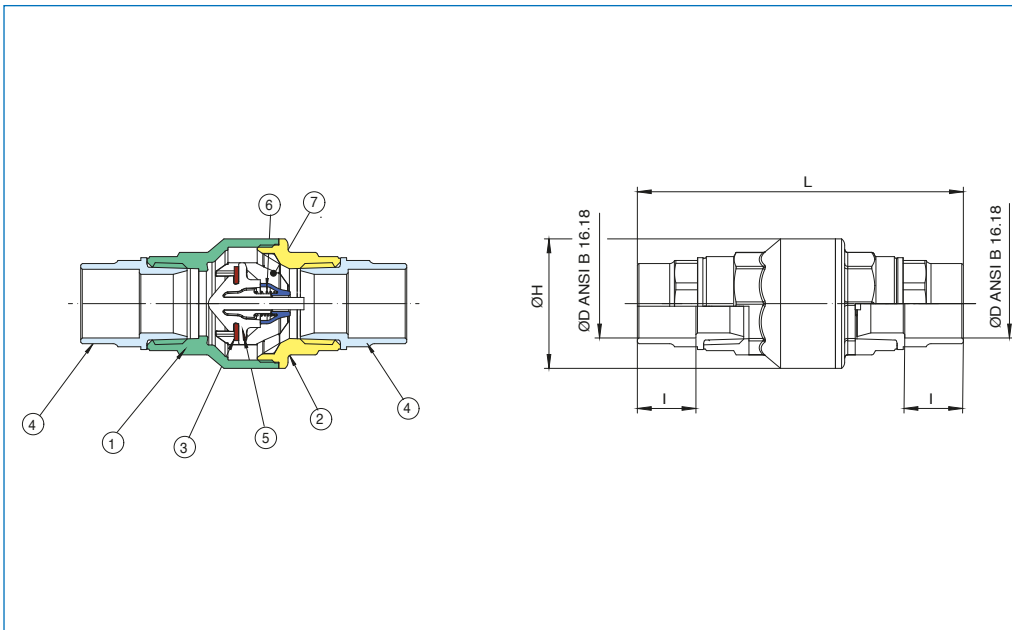
HEALTH EFFECTS US-CA  
NSF 372  
NSF 61



High flow rate, lead free brass, solder ends, in-line spring loaded check valve.

Pressure rating size 1/2" - 2" 400 WOG.

- Soft seat for bubble tight shutoff, spring loaded for fast seating action.
- Low cracking pressure 1/2 psi.
- Flow profile designed to minimize head loss.
- Perfect sealing both at high and low pressure wide temperature range -4°F to 210°F.
- High technology materials to ensure the best resistance in any condition.
- Patented disc guide to prevent side loading.
- ANSI B16.18 connections.



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

SIZE	ØD	I	L	ØH	Cv	psi	Weight Lbs
1/2"	0.63	0.50	3.43	1.36	6.71	400	0.45
3/4"	0.88	0.75	4.17	1.65	9.95	400	0.77
1"	1.13	0.91	4.88	1.93	15.97	400	1.16
1 1/4"	1.38	0.97	5.26	2.40	23.37	400	1.81
1 1/2"	1.63	1.10	5.79	2.87	35.75	400	2.53
2"	2.13	1.34	6.56	3.44	56.46	400	3.50

\* 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.

**WARNING:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov).

