



BA-480B* 1/2" - 3"

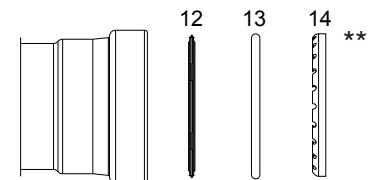
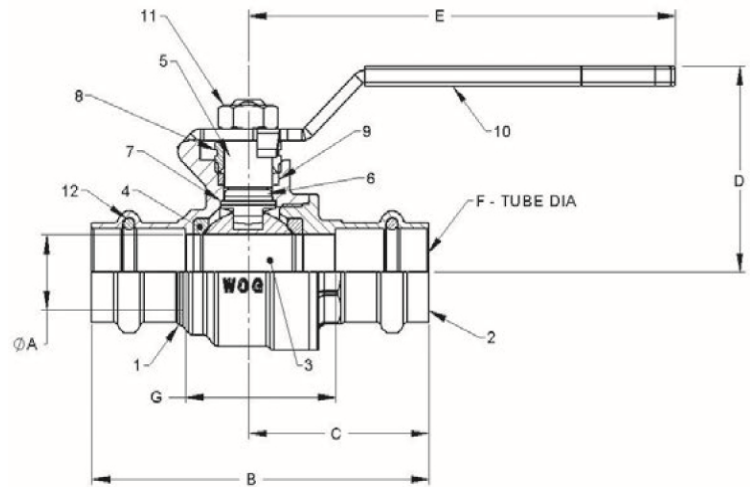
Brass Ball Valve***
Two-Piece, Full Port
Press X Press Ends
200 PSIG @ 250° F
Blow-Out Proof Stem

***Not intended for use in potable water.

MATERIALS LIST

ITEM	PART	MATERIAL	ASTM/SPEC
1	Body	Brass, Forged	B283
2	Tailpiece	Brass, Forged	B283
3	Ball	CP Brass Ball	B283
4	Ball Seat	PTFE	Commercial
5	Stem	Brass	B124
6	Stem O-Ring	Buna-N	
7	Thrust Washer	PTFE	Commercial
8	Gland Nut	Brass	B124
9	Packing	PTFE	Commercial
10	Handle	Zinc Plated Steel	Commercial
11	Handle Nut	Zinc Plated Steel	Commercial
12**	Backing Ring	Plastic	Commercial
13**	Tube O-Ring	EPDM	Commercial
14**	Gripping Ring	Stainless Steel	Commercial

*Ultra Press Valves are designed and qualified for use in copper tubing systems only, Types K, L, & M per ASTM B88. For Installation Instructions please see engineering section on website.



** 2 1/2" & 3" Requires XLC installation jaws.

DIMENSIONS									
Size		1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"
		DN15	DN20	DN25	DN32	DN40	DN50	DN65	DN80
A-PORT DIA	INCHES	0.51	0.76	0.98	1.26	1.50	2.01	2.48	2.95
	mm	13	19.3	25	32	38	51	63	75
B	INCHES	3.16	3.71	4.28	5.20	6.31	7.44	11.92	14.07
	mm	80	94	109	132	160	189	303	357
C	INCHES	1.63	1.92	2.18	2.75	3.40	3.96	5.96	7.04
	mm	41.4	48.8	55.4	69.9	86.4	100.5	151.4	178.7
D	INCHES	1.62	2.01	2.21	2.46	2.62	3.13	3.94	4.12
	mm	41.1	51.1	56.3	62.5	66.5	79.6	100	111
E	INCHES	3.15	4.33	4.33	5.12	5.12	6.89	7.87	7.87
	mm	80	110	110	130	130	175	200	200
G	INCHES	1.52	1.73	2.31	3.16	3.49	4.28	8.17	9.86
	mm	38.5	43.8	58.6	80.3	88.5	108.7	207.5	250.4
Cv		18	40	72	112	161	287	448	645
Torque	in-lb	19	58	69	89	124	210	445	563
	N.m.	2.1	6.5	7.8	10	14	24	50	64
Weight	lbs.	0.44	0.82	1.16	1.76	2.68	5.04	12.40	18.00
	grams	200	372	526	798	1216	2286	5625	8165

Rev. 12

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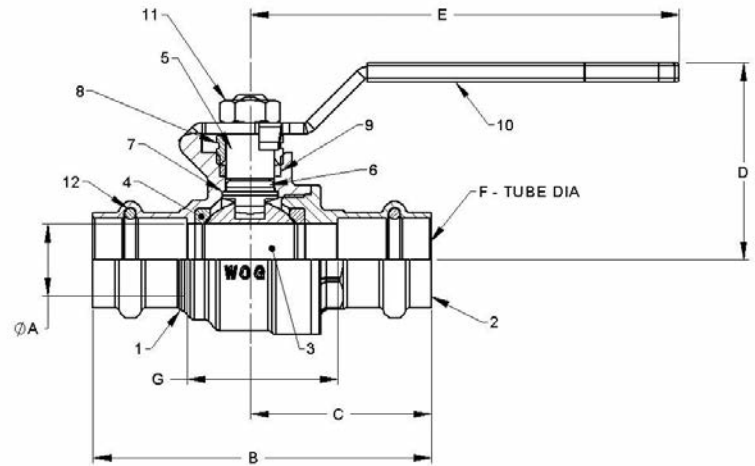


BA-480B* 1/2" - 3"

Brass Ball Valve***
Two-Piece, Full Port
Press X Press Ends
200 PSIG @ 250° F
Blow-Out Proof Stem

MATERIALS LIST

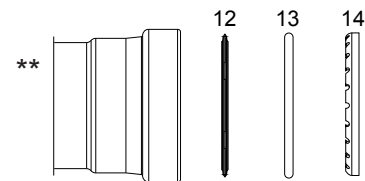
ITEM	PART	MATERIAL	ASTM/SPEC
1	Body	Brass, Forged	B283
2	Tailpiece	Brass, Forged	B283
3	Ball	CP Brass Ball	B283
4	Ball Seat	PTFE	Commercial
5	Stem	Brass	B124
6	Stem O-Ring	Buna-N	
7	Thrust Washer	PTFE	Commercial
8	Gland Nut	Brass	B124
9	Packing	PTFE	Commercial
10	Handle	Zinc Plated Steel	Commercial
11	Handle Nut	Zinc Plated Steel	Commercial
12**	Backing Ring	Plastic	Commercial
13**	Tube O-Ring	EPDM	Commercial
14**	Gripping Ring	Stainless Steel	Commercial



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** 2 1/2" & 3" Requires XLC installation jaws.

***Not intended for use in potable water.



DIMENSIONS

Size		1/2" DN15	3/4" DN20	1" DN25	1-1/4" DN32	1-1/2" DN40	2" DN50	2-1/2" DN65	3" DN80
A PORT DIA	inch	0.51	0.76	0.98	1.26	1.50	2.00	2.48	2.95
	mm	13	19	25	32	38	51	63	74.9
B	inch	3.15	3.70	4.29	4.84	5.91	7.43	11.92	14.97
	mm	80	94	109	123	150	188.72	302.9	357.4
C	inch	1.41	1.66	1.80	2.10	2.50	3.49	5.96	7.04
	mm	36	42	46	53	64	88.65	151.4	178.7
D	inch	1.46	1.93	2.10	2.33	2.52	2.96	3.94	4.12
	mm	37	49	53	59	64	75	100.1	111
E	inch	3.14	4.35	4.35	5.00	5.00	6.90	7.87	7.87
	mm	80	110	110	127	127	175	199.9	199.9
F TUBE DIA	inch	0.63	0.88	1.13	1.38	1.63	2.13	2.63	3.13
	mm	15	20	25	32	40	50	66.80	79.50
G	inch	1.50	1.73	2.32	2.79	3.07	3.75	4.28	5.02
	mm	38	44	59	71	78	95	108.8	125.3
Cv		18	40	72	112	161	287	448	645
TORQUE	in. lb	19	58	69	89	124	210	445	563
	N.m	2.1	6.5	7.8	10	14	24		
WEIGHT	lbs.	0.41	0.80	1.15	1.66	2.47	4.90	7.1	10.2
	grams	186	363	521	753	1120	2222	3.22	4.62

Rev. 9

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BV-25





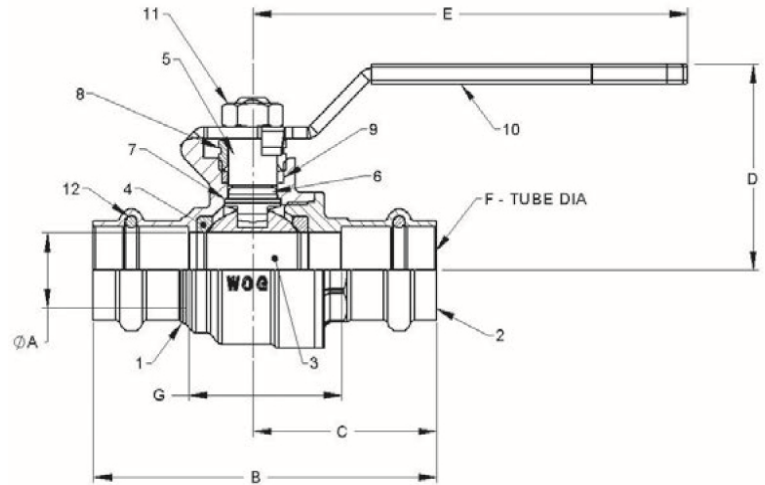
BA-480S* 1/2" - 2"

Brass Ball Valve**
Two-Piece, Full Port
Press X Press Ends
200 PSIG @ 250° F
Blow-Out Proof Stem

MATERIALS LIST

ITEM	PART	MATERIAL	ASTM/SPEC
1	Body	Brass, Forged	B283
2	Tailpiece	Brass, Forged	B283
3	Ball	316 SS	A276
4	Ball Seat	PTFE	Commercial
5	Stem	316 SS	A276
6	Stem O-Ring	Buna-N	
7	Thrust Washer	PTFE	Commercial
8	Gland Nut	Brass	B124
9	Packing	PTFE	Commercial
10	Handle	Zinc Plated Steel	Commercial
11	Handle Nut	Zinc Plated Steel	Commercial

*Ultra Press Valves are designed and qualified for use in copper tubing systems only, Types K, L, & M per ASTM B88. For Installation Instructions please see engineering section on website.



**Not intended for use in potable water.

DIMENSIONS		1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Size		DN15	DN20	DN25	DN32	DN40	DN50
A-PORT DIA	INCHES	0.51	0.76	0.98	1.26	1.50	2.01
	mm	13	19.3	25	32	38	51
B	INCHES	3.16	3.71	4.28	5.20	6.31	7.44
	mm	80	94	109	132	160	189
C	INCHES	1.63	1.92	2.18	2.75	3.40	3.96
	mm	41.4	48.8	55.4	69.9	86.4	100.5
D	INCHES	1.62	2.01	2.21	2.46	2.62	3.13
	mm	41.1	51.1	56.3	62.5	66.5	79.6
E	INCHES	3.15	4.33	4.33	5.12	5.12	6.89
	mm	80	110	110	130	130	175
G	INCHES	1.52	1.73	2.31	3.16	3.49	4.28
	mm	38.5	43.8	58.6	80.3	88.5	108.7
Cv		18	40	72	112	161	287
Torque	in-lb	19	58	69	89	124	210
	N.m.	2.1	6.5	7.8	10	14	24
Weight	lbs.	0.46	0.84	1.16	1.88	2.82	5.52
	grams	209	381	526	853	1279	2504

Rev. 7

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BA-480S* 1/2" - 3"

Brass Ball Valve***
Two-Piece, Full Port
Press X Press Ends
200 PSIG @ 250° F
Blow-Out Proof Stem

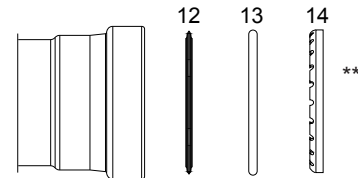
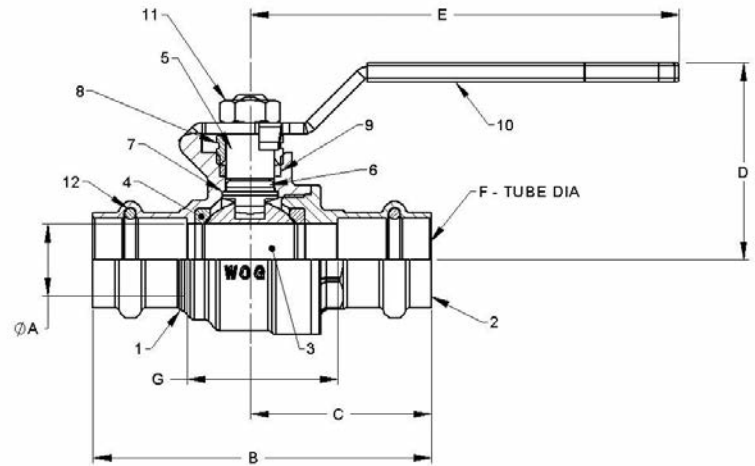
MATERIALS LIST

ITEM	PART	MATERIAL	ASTM/SPEC
1	Body	Brass, Forged	B283
2	Tailpiece	Brass, Forged	B283
3	Ball	316 SS	B283
4	Ball Seat	PTFE	Commercial
5	Stem	316 SS	A276
6	Stem O-Ring	Buna-N	
7	Thrust Washer	PTFE	Commercial
8	Gland Nut	Brass	B124
9	Packing	PTFE	Commercial
10	Handle	Zinc Plated Steel	Commercial
11	Handle Nut	Zinc Plated Steel	Commercial
12**	Backing Ring	Plastic	Commercial
13**	Tube O-Ring	EPDM	Commercial
14**	Gripping Ring	Stainless Steel	Commercial

*Ultra Press Valves are designed and qualified for use in copper tubing systems only, Types K, L, & M per ASTM B88. For Installation Instructions please see engineering section on website.

**2 1/2" & 3" only (Not NSF Approved). 2 1/2" & 3" Requires XLC Installation.

***Not intended for use in potable water.



DIMENSIONS

Size		1/2" DN15	3/4" DN20	1" DN25	1-1/4" DN32	1-1/2" DN40	2" DN50
A PORT DIA	inch	0.51	0.76	0.98	1.26	1.50	2.00
	mm	13	19	25	32	38	51
B	inch	3.15	3.70	4.29	4.84	5.91	7.43
	mm	80	94	109	123	150	188.72
C	inch	1.41	1.66	1.80	2.10	2.50	3.49
	mm	36	42	46	53	64	88.65
D	inch	1.46	1.93	2.10	2.33	2.52	2.96
	mm	37	49	53	59	64	75
E	inch	3.14	4.35	4.35	5.00	5.00	6.90
	mm	80	110	110	127	127	175
F TUBE DIA	inch	0.63	0.88	1.13	1.38	1.63	2.13
	mm	15	20	25	32	40	50
G	inch	1.50	1.73	2.32	2.79	3.07	3.75
	mm	38	44	59	71	78	95
Cv		18	40	72	112	161	287
TORQUE	in. lb	19	58	69	89	124	210
	N.m	2.1	6.5	7.8	10	14	24
WEIGHT	lbs.	0.41	0.80	1.15	1.66	2.47	4.90
	grams	186	363	521	753	1120	2222

Rev. 4

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BV-27





BA-480BH* 1/2" - 3/4" 200 PSIG @ 250° F Blow-Out Proof Stem

Brass Ball Valve**
Two-Piece, Full Port
Press X Hose Ends

200 PSIG @ 250° F
Blow-Out Proof Stem

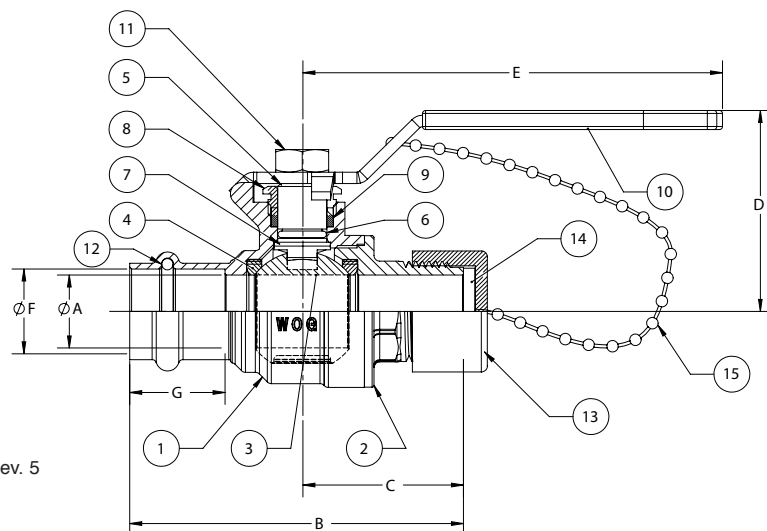
**Not intended for use in potable water.

MATERIALS LIST

ITEM	PART	MATERIAL	ASTM/SPEC
1	Body	Brass, Forged	B283
2	Tailpiece	Brass, Forged	B283
3	Ball	CP Brass Ball	B283
4	Ball Seat	PTFE	Commercial
5	Stem	Brass	B124
6	Stem O-Ring	Buna-N	
7	Thrust Washer	PTFE	Commercial
8	Gland Nut	Brass	B124
9	Packing	PTFE	Commercial
10	Handle	Zinc Plated Steel	B633
11	Handle Nut	Zinc Plated Steel	B633
12	Tube O-Ring	EPDM	D2000 NSF61
13	Hose Cap	Polypropylene	
14	Cap Gasket	EPDM	
15	Chain	Brass Bead	

Rev. 5

*Ultra Press Valves are designed and qualified for use in copper tubing systems only, Types K, L, & M per ASTM B88.



Dimensions

Size		1/2" DN15	3/4" DN20
A	inch	0.51	0.76
	mm	13	19
B	inch	3.06	3.5
	mm	78	90
C	inch	1.41	1.66
	mm	36	42
D	inch	1.46	1.93
	mm	37	49
E	inch	3.14	4.35
	mm	80	110
F	inch	0.63	0.88
	mm	15	20
Cv		18	40
TOURQUE	in. lb	19	58
	N.m	21	6.5
WEIGHT	lbs.	.51	.95
	grams	231	431.81

Do not pressurize cap.
Pressure not to exceed 40 psi.

NOTE: Pressure / Temperature ratings shown are for valve only. Hose side pressure and temperature limit is based on connected hose and is the users responsibility.

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BA-480BH* 1/2" - 3/4" 200 PSIG @ 250° F Blow-Out Proof Stem

Brass Ball Valve**
Two-Piece, Full Port
Press X Hose Ends

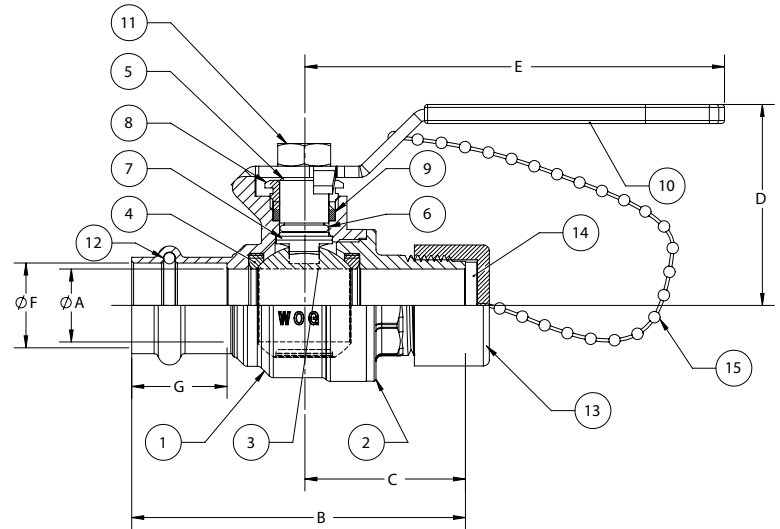
200 PSIG @ 250° F
Blow-Out Proof Stem

MATERIALS LIST

ITEM	PART	MATERIAL	ASTM/SPEC
1	Body	Brass, Forged	B283
2	Tailpiece	Brass, Forged	B283
3	Ball	CP Brass Ball	B283
4	Ball Seat	PTFE	Commercial
5	Stem	Brass	B124
6	Stem O-Ring	Buna-N	
7	Thrust Washer	PTFE	Commercial
8	Gland Nut	Brass	B124
9	Packing	PTFE	Commercial
10	Handle	Zinc Plated Steel	B633
11	Handle Nut	Zinc Plated Steel	B633
12	Tube O-Ring	EPDM	D2000 NSF61
13	Hose Cap	Polypropylene	
14	Cap Gasket	EPDM	
15	Chain	Brass Bead	

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**Not intended for use in potable water.



Dimensions		
Size		
		1/2" DN15
		3/4" DN20
A	inch	0.51
	mm	13
B	inch	3.06
	mm	78
C	inch	1.41
	mm	36
D	inch	1.46
	mm	37
E	inch	3.14
	mm	80
F	inch	0.63
	mm	15
Cv		18
TOURQUE	in. lb	19
	N.m	21
WEIGHT	lbs.	.51
	grams	231

Rev. 5

NOTE: Pressure / Temperature ratings shown are for valve only. Hose side pressure and temperature limit is based on connected hose and is the users responsibility.
Maximum pressure for the cap is 50 psig.

Pressure limit of cap is 50 psig.
Do not over pressurize cap.
(See note)

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BA-480SH* 1/2" - 3/4" 200 PSIG @ 250° F Blow-Out Proof Stem

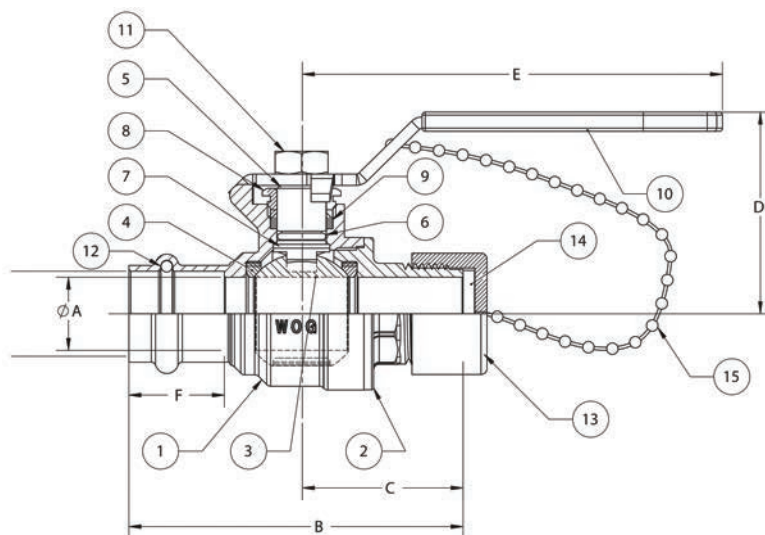
**Brass Ball Valve
Two-Piece, Full Port
Press X Hose Ends**

**200 PSIG @ 250° F
Blow-Out Proof Stem**

**Not intended for use in potable water.

MATERIALS LIST			
ITEM	PART	MATERIAL	ASTM/SPEC
1	Body	Brass, Forged	B283
2	Tailpiece	Brass, Forged	B283
3	Ball	316 SS	A276
4	Ball Seat	PTFE	Commercial
5	Stem	316 SS	A276
6	Stem O-Ring	Buna-N	
7	Thrust Washer	PTFE	Commercial
8	Gland Nut	Brass	B124
9	Packing	PTFE	Commercial
10	Handle	Zinc Plated Steel	B633
11	Handle Nut	Zinc Plated Steel	B633
12	Tube O-Ring	EPDM	D2000 NSF61
13	Hose Cap	Polypropylene	
14	Cap Gasket	EPDM	
15	Chain	Brass Bead	

*Ultra Press Valves are designed and qualified for use in copper tubing systems only, Types K, L, & M per ASTM B88.



Dimensions			
Size		1/2" DN15	3/4" DN20
A	inch	0.51	0.76
	mm	13	19
B	inch	3.06	3.5
	mm	78	90
C	inch	1.41	1.66
	mm	36	42
D	inch	1.62	2.01
	mm	41	51
E	inch	3.15	4.33
	mm	80	110
F	inch	0.82	0.99
	mm	21	25
Cv		18	40
TORQUE	in. lb	19	58
	N.m	21	6.5
WEIGHT	lbs.	.51	.95
	grams	231	431

Rev. 7

NOTE: Pressure / Temperature ratings shown are for valve only. Hose side pressure and temperature limit is based on connected hose and is the users responsibility.

**Do not pressurize cap.
Pressure not to exceed 40 psi.**

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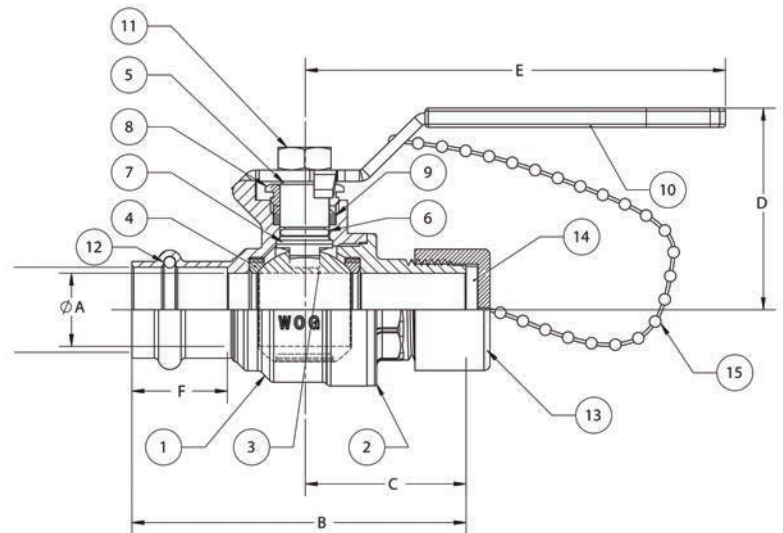
BA-480SH* 1/2" - 3/4"

Brass Ball Valve**
Two-Piece, Full Port
Press X Hose Ends
200 PSIG @ 250⁰ F
Blow-Out Proof Stem

MATERIALS LIST			
ITEM	PART	MATERIAL	ASTM/SPEC
1	Body	Brass, Forged	B283
2	Tailpiece	Brass, Forged	B283
3	Ball	316 SS	A276
4	Ball Seat	PTFE	Commercial
5	Stem	316 SS	A276
6	Stem O-Ring	Buna-N	
7	Thrust Washer	PTFE	Commercial
8	Gland Nut	Brass	B124
9	Packing	PTFE	Commercial
10	Handle	Zinc Plated Steel	B633
11	Handle Nut	Zinc Plated Steel	B633
12	Tube O-Ring	EPDM	D2000 NSF61
13	Hose Cap	Polypropylene	
14	Cap Gasket	EPDM	
15	Chain	Brass Bead	

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**Not intended for use in potable water.



Dimensions			
Size		1/2" DN15	3/4" DN20
A	inch	0.51	0.76
	mm	13	19
B	inch	3.06	3.5
	mm	78	90
C	inch	1.41	1.66
	mm	36	42
D	inch	1.62	2.01
	mm	41	51
E	inch	3.15	4.33
	mm	80	110
F	inch	0.82	0.99
	mm	21	25
Cv		18	40
TORQUE	in. lb	19	58
	N.m	21	6.5
WEIGHT	lbs.	.51	.95
	grams	231	431

Rev. 6

NOTE: Pressure / Temperature ratings shown are for valve only. Hose side pressure and temperature limit is based on connected hose and is the users responsibility.
Maximum pressure for the cap is 50 psig.

Pressure limit of cap is 50 psig.
Do not over pressurize cap.
(See note)

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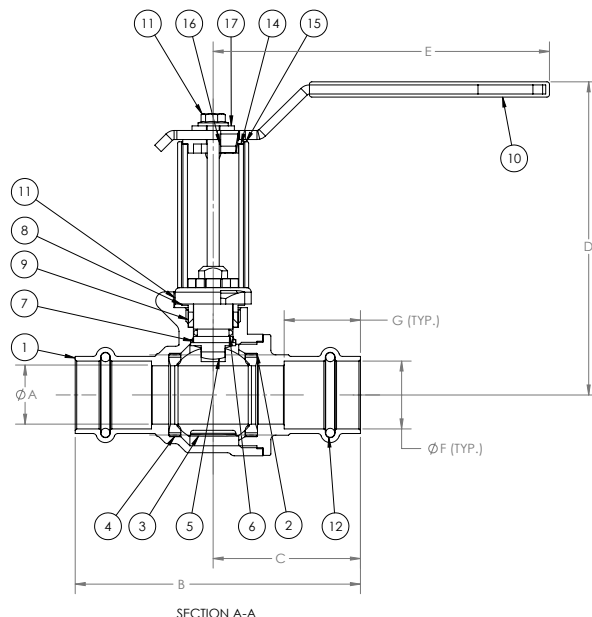
BA-481B* 1/2" - 2"

Brass Ball Valve**
Two-Piece, Full Port
Press X Press Ends
With Extension Stem
& Memory Stop
200 PSIG @ 250⁰ F
Blow-Out Proof Stem

MATERIALS LIST			
ITEM	PART	MATERIAL	ASTM/SPEC
1	Body	Brass, Forged	B283
2	Tailpiece	Brass, Forged	B283
3	Ball	CP Brass Ball	B283
4	Ball Seat	PTFE	Commercial
5	Stem	Brass	B124
6	Stem O-Ring	Buna-N	
7	Thrust Washer	PTFE	Commercial
8	Gland Nut	Brass	B124
9	Packing	PTFE	Commercial
10	Handle	Zinc Plated Steel	B633
11	Handle Bolt	Zinc Plated Steel	Commercial
12	Tube O-Ring	EPDM	D2000 NSF61
13	Stem Stop Plate	Zinc Plated Steel	Commercial
14	Internal Extension Tube	Zinc Plated Steel	Commercial
15	External Extension Tube	Zinc Plated Steel	Commercial
16	Upper Stem Adaptor	Zinc Plated Steel	Commercial
17	Memory Stop	Zinc Plated Steel	Commercial

*Ultra Press Valves are designed and qualified for use in copper tubing systems only, Types K & L per ASTM B88.

**Not intended for use in potable water.



DIMENSIONS									
Size		1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"
		DN15	DN20	DN25	DN32	DN40	DN50	DN65	DN80
A-PORT DIA	INCHES	0.51	0.76	0.98	1.26	1.50	2.01	2.48	2.95
	mm	13	19.3	25	32	38	51	63	75
B	INCHES	3.16	3.71	4.28	5.20	6.31	7.44	11.92	14.07
	mm	80	94	109	132	160	189	303	357
C	INCHES	1.63	1.92	2.18	2.75	3.40	3.96	5.96	7.04
	mm	41.4	48.8	55.4	69.9	86.4	100.5	151.4	178.7
D	INCHES	3.87	4.26	4.46	4.71	4.87	5.38	6.19	6.37
	mm	98.3	108.2	113.3	119.6	123.7	136.7	157.2	161.8
E	INCHES	3.15	4.33	4.33	5.12	5.12	6.89	7.87	7.87
	mm	80	110	110	130	130	175	200	200
G	INCHES	1.52	1.73	2.31	3.16	3.49	4.28	8.17	9.86
	mm	38.5	43.8	58.6	80.3	88.5	108.7	207.5	250.4
Cv		18	40	72	112	161	287	448	645
Torque	in-lb	19	58	69	89	124	210	445	563
	N.m.	2.1	6.5	7.8	10	14	24	50	64
Weight	lbs.	0.56	0.98	1.34	1.92	2.82	5.28	12.75	18.36
	grams	254	445	608	871	1279	2395	6305	8616

Rev. 4

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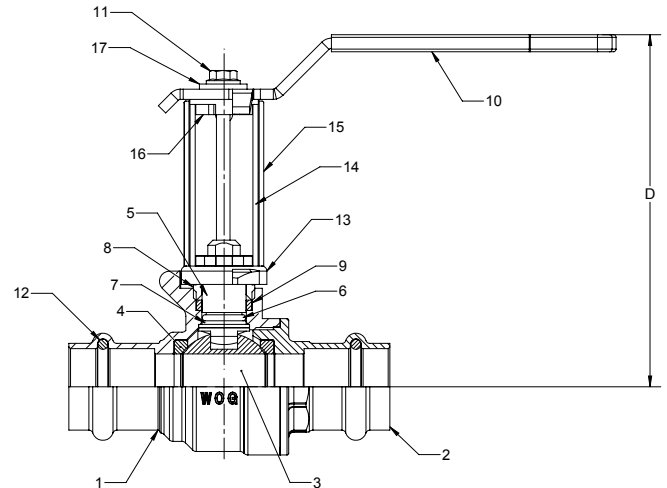


BA-481B* 1/2" - 2"

Brass Ball Valve**
Two-Piece, Full Port
Press X Press Ends
With Extension Stem
& Memory Stop

200 PSIG @ 250° F
Blow-Out Proof Stem

MATERIALS LIST			
ITEM	PART	MATERIAL	ASTM/SPEC
1	Body	Brass, Forged	B283
2	Tailpiece	Brass, Forged	B283
3	Ball	CP Brass Ball	B283
4	Ball Seat	PTFE	Commercial
5	Stem	Brass	B124
6	Stem O-Ring	Buna-N	
7	Thrust Washer	PTFE	Commercial
8	Gland Nut	Brass	B124
9	Packing	PTFE	Commercial
10	Handle	Zinc Plated Steel	B633
11	Handle Bolt	Zinc Plated Steel	Commercial
12	Tube O-Ring	EPDM	D2000 NSF61
13	Stem Stop Plate	Zinc Plated Steel	Commercial
14	Internal Extension Tube	Zinc Plated Steel	Commercial
15	External Extension Tube	Zinc Plated Steel	Commercial
16	Upper Stem Adaptor	Zinc Plated Steel	Commercial
17	Memory Stop	Zinc Plated Steel	Commercial



*Ultra Press Valves are designed and qualified for use in copper tubing systems only, Types K, L & M per ASTM B88.

**Not intended for use in potable water.

DIMENSIONS							
Size		1/2" DN15	3/4" DN20	1" DN25	1-1/4" DN32	1-1/2" DN40	2" DN50
A PORT DIA	INCH	0.51	0.76	0.98	1.26	1.50	2.00
	mm	13	19	25	32	38	51
B	INCH	3.03	3.58	3.98	4.51	5.50	6.44
	mm	77	91	101	114	140	164
C	INCH	1.41	1.66	1.80	2.10	2.50	2.99
	mm	36	42	46	53	64	76
D	INCH	3.71	4.18	4.35	4.58	4.77	5.21
	mm	95	106	111	116	121	132
E	INCH	3.14	4.35	4.35	5.00	5.00	6.90
	mm	80	110	110	127	127	175
F TUBE DIA	INCH	0.63	0.88	1.13	1.38	1.63	2.13
	mm	15	20	25	32	40	50
G	INCH	1.38	1.61	2.00	2.44	2.67	3.29
	mm	35	41	51	62	68	83
Cv	GPM	18	40	72	112	161	287
TORQUE	INCH-IN	19	58	69	89	124	210
	N.m	2.1	6.5	7.8	10	14	24
WEIGHT	LBS.	0.41	0.80	1.15	1.66	2.47	4.90
	grams	186	363	521	753	1120	2222

Rev. 4

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BV-29





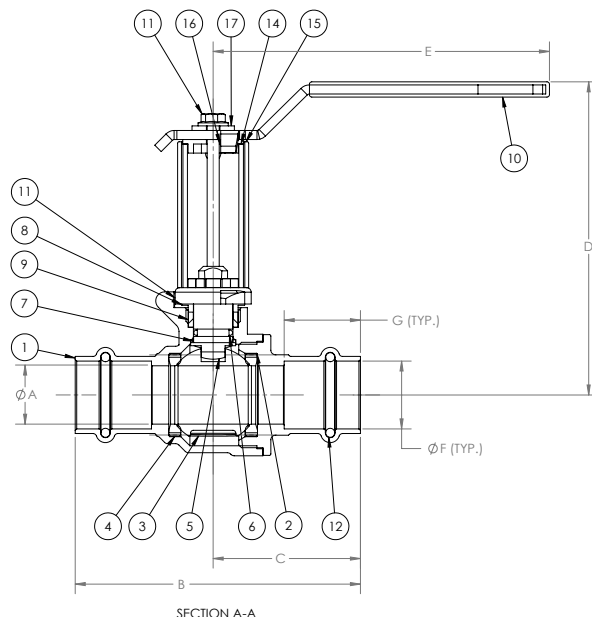
BA-481S* 1/2" - 2"

Brass Ball Valve**
Two-Piece, Full Port
Press X Press Ends
With Extension Stem
& Memory Stop
200 PSIG @ 250° F
Blow-Out Proof Stem

MATERIALS LIST			
ITEM	PART	MATERIAL	ASTM/SPEC
1	Body	Brass, Forged	B283
2	Tailpiece	Brass, Forged	B283
3	Ball	316 SS	A276
4	Ball Seat	PTFE	Commercial
5	Stem	316 SS	A276
6	Stem O-Ring	Buna-N	
7	Thrust Washer	PTFE	Commercial
8	Gland Nut	Brass	B124
9	Packing	PTFE	Commercial
10	Handle	Zinc Plated Steel	B633
11	Handle Bolt	Zinc Plated Steel	Commercial
12	Tube O-Ring	EPDM	D2000 NSF61
13	Stem Stop Plate	Zinc Plated Steel	Commercial
14	Internal Extension Tube	Zinc Plated Steel	Commercial
15	External Extension Tube	Zinc Plated Steel	Commercial
16	Upper Stem Adaptor	Zinc Plated Steel	Commercial
17	Memory Stop	Zinc Plated Steel	Commercial

*Ultra Press Valves are designed and qualified for use in copper tubing systems only, Types K & L per ASTM B88.

**Not intended for use in potable water.



DIMENSIONS							
Size		1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
		DN15	DN20	DN25	DN32	DN40	DN50
A-PORT DIA	INCHES	0.51	0.76	0.98	1.26	1.50	2.01
	mm	13	19.3	25	32	38	51
B	INCHES	3.16	3.71	4.28	5.20	6.31	7.44
	mm	80	94	109	132	160	189
C	INCHES	1.63	1.92	2.18	2.75	3.40	3.96
	mm	41.4	48.8	55.4	69.9	86.4	100.5
D	INCHES	3.87	4.26	4.46	4.71	4.87	5.38
	mm	98.3	108.2	113.3	119.6	123.7	136.7
E	INCHES	3.15	4.33	4.33	5.12	5.12	6.89
	mm	80	110	110	130	130	175
G	INCHES	1.52	1.73	2.31	3.16	3.49	4.28
	mm	38.5	43.8	58.6	80.3	88.5	108.7
Cv		18	40	72	112	161	287
Torque	in-lb	19	58	69	89	124	210
	N.m.	2.1	6.5	7.8	10	14	24
Weight	lbs.	0.46	0.84	1.34	1.88	2.82	5.52
	grams	209	381	608	853	1279	2504

Rev. 4

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BA-481S* 1/2" - 2"

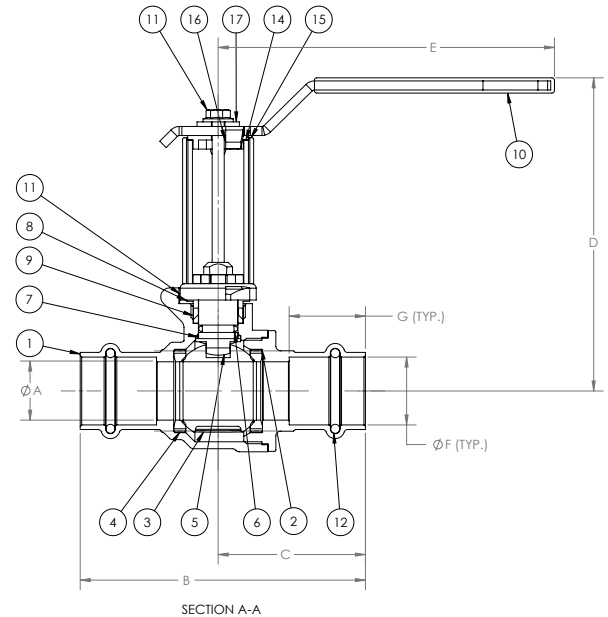
Brass Ball Valve**
Two-Piece, Full Port
Press X Press Ends
With Extension Stem
& Memory Stop

200 PSIG @ 250° F
Blow-Out Proof Stem

MATERIALS LIST			
ITEM	PART	MATERIAL	ASTM/SPEC
1	Body	Brass, Forged	B283
2	Tailpiece	Brass, Forged	B283
3	Ball	316 SS	A276
4	Ball Seat	PTFE	Commercial
5	Stem	316 SS	A276
6	Stem O-Ring	Buna-N	
7	Thrust Washer	PTFE	Commercial
8	Gland Nut	Brass	B124
9	Packing	PTFE	Commercial
10	Handle	Zinc Plated Steel	B633
11	Handle Bolt	Zinc Plated Steel	Commercial
12	Tube O-Ring	EPDM	D2000 NSF61
13	Stem Stop Plate	Zinc Plated Steel	Commercial
14	Internal Extension Tube	Zinc Plated Steel	Commercial
15	External Extension Tube	Zinc Plated Steel	Commercial
16	Upper Stem Adaptor	Zinc Plated Steel	Commercial
17	Memory Stop	Zinc Plated Steel	Commercial

*Ultra Press Valves are designed and qualified for use in copper tubing systems only, Types K & L per ASTM B88.

**Not intended for use in potable water.



DIMENSIONS							
Size		1/2" DN15	3/4" DN20	1" DN25	1-1/4" DN32	1-1/2" DN40	2" DN50
A PORT DIA	INCH	0.51	0.76	0.98	1.26	1.50	2.00
	mm	13	19	25	32	38	51
B	INCH	3.03	3.58	3.98	4.51	5.50	6.44
	mm	77	91	101	114	140	164
C	INCH	1.41	1.66	1.80	2.10	2.50	2.99
	mm	36	42	46	53	64	76
D	INCH	3.71	4.18	4.35	4.58	4.77	5.21
	mm	95	106	111	116	121	132
E	INCH	3.14	4.35	4.35	5.00	5.00	6.90
	mm	80	110	110	127	127	175
F TUBE DIA	INCH	0.63	0.88	1.13	1.38	1.63	2.13
	mm	15	20	25	32	40	50
G	INCH	1.38	1.61	2.00	2.44	2.67	3.29
	mm	35	41	51	62	68	83
Cv	GPM	18	40	72	112	161	287
	INCH-IN	19	58	69	89	124	210
TORQUE	N.m	2.1	6.5	7.8	10	14	24
WEIGHT	LBS.	0.41	0.80	1.15	1.66	2.47	4.90
	grams	186	363	521	753	1120	2222

Rev. 4

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BV-30





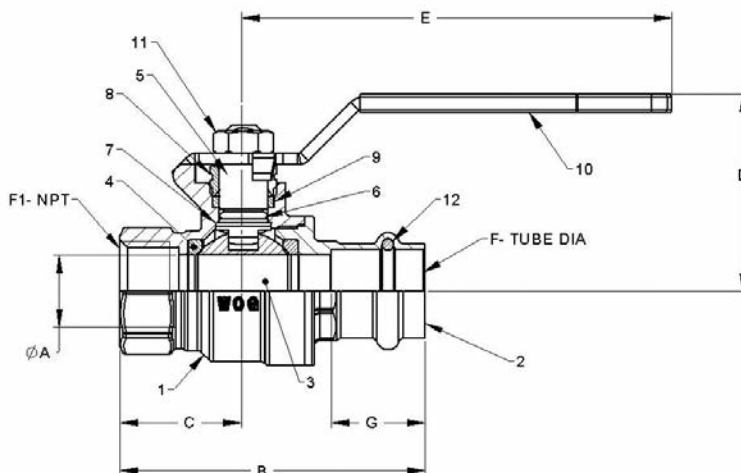
BA-490B* 1/2" - 2"

Brass Ball Valve**
Two-Piece, Full Port
Press X Threaded Ends
200 PSIG @ 250° F
Blow-Out Proof Stem

**Not intended for use in potable water.

MATERIALS LIST			
ITEM	PART	MATERIAL	ASTM/SPEC
1	Body	Brass, Forged	B283
2	Tailpiece	Brass, Forged	B283
3	Ball	CP Brass Ball	B283
4	Ball Seat	PTFE	Commercial
5	Stem	Brass	B124
6	Stem O-Ring	Buna-N	
7	Thrust Washer	PTFE	Commercial
8	Gland Nut	Brass	B124
9	Packing	PTFE	Commercial
10	Handle	Zinc Plated Steel	Commercial
11	Handle Nut	Zinc Plated Steel	Commercial
12	Tube O-Ring	EPDM	D2000 NSF61

*Ultra Press Valves are designed and qualified for use in copper tubing systems only, Types K, L, & M per ASTM B88.



DIMENSIONS							
Valve Size		1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
		DN15	DN20	DN25	DN32	DN40	DN50
A	Inches	0.51	0.76	0.98	1.26	1.50	2.00
	mm	13	19	25	32	38	51
B	Inches	2.77	3.23	3.71	4.12	4.86	6.14
	mm	70	82	94	105	123	155.96
C	Inches	1.14	1.31	1.53	1.71	1.88	2.19
	mm	29	33	39	43	48	56
D	Inches	1.46	1.93	2.10	2.33	2.52	2.96
	mm	37	49	53	59	64	75
E	Inches	3.14	4.35	4.35	5.00	5.00	6.90
	mm	80	110	110	127	127	175
F TUBE DIA	Inches	0.63	0.88	1.13	1.38	1.63	2.13
	mm	15	20	25	32	40	50
F1 NPT		Inches 1/2"-14	3/4"-14	1"-11.5	1-1/4"-11.5	1-1/2"-11.5	2"-11.5
G	Inches	.83	1.00	1.00	1.02	1.42	1.57
	mm	21	25	25	26	36	40
Cv		18	40	72	112	161	287
TORQUE	in-lb	19	58	69	89	124	210
	N.m	2.1	6.5	7.8	10	14	24
WEIGHT	lbs	.48	.84	1.22	1.71	2.59	5.04
	grams	218	381	553	776	1175	2286

Rev. 6

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BA-490B* 1/2" - 2"

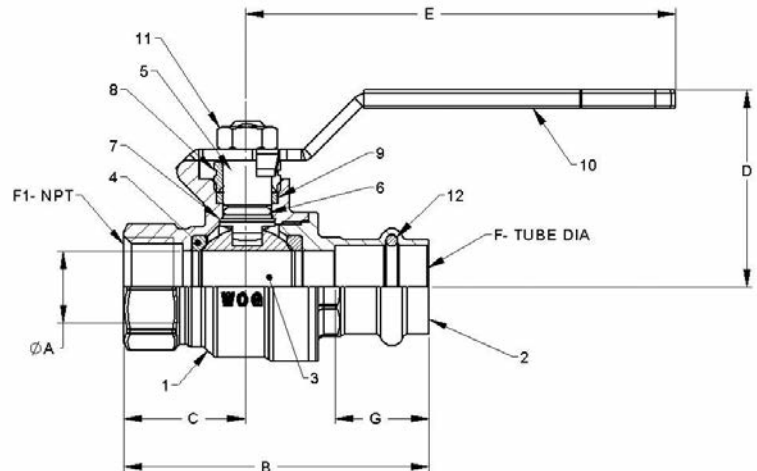
Brass Ball Valve**
Two-Piece, Full Port
Press X Threaded Ends
200 PSIG @ 250° F
Blow-Out Proof Stem

MATERIALS LIST

ITEM	PART	MATERIAL	ASTM/SPEC
1	Body	Brass, Forged	B283
2	Tailpiece	Brass, Forged	B283
3	Ball	CP Brass Ball	B283
4	Ball Seat	PTFE	Commercial
5	Stem	Brass	B124
6	Stem O-Ring	Buna-N	
7	Thrust Washer	PTFE	Commercial
8	Gland Nut	Brass	B124
9	Packing	PTFE	Commercial
10	Handle	Zinc Plated Steel	Commercial
11	Handle Nut	Zinc Plated Steel	Commercial
12	Tube O-Ring	EPDM	D2000 NSF61

*Ultra Press Valves are designed and qualified for use in copper tubing systems only, Types K & L per ASTM B88.

**Not intended for use in potable water.



DIMENSIONS

Valve Size		1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
		DN15	DN20	DN25	DN32	DN40	DN50
A	Inches	0.51	0.76	0.98	1.26	1.50	2.00
	mm	13	19	25	32	38	51
B	Inches	2.77	3.23	3.71	4.12	4.86	6.14
	mm	70	82	94	105	123	155.96
C	Inches	1.14	1.31	1.53	1.71	1.88	2.19
	mm	29	33	39	43	48	56
D	Inches	1.46	1.93	2.10	2.33	2.52	2.96
	mm	37	49	53	59	64	75
E	Inches	3.14	4.35	4.35	5.00	5.00	6.90
	mm	80	110	110	127	127	175
F TUBE DIA	Inches	0.63	0.88	1.13	1.38	1.63	2.13
	mm	15	20	25	32	40	50
F1 NPT		Inches 1/2"-14	3/4"-14	1"-11.5	1-1/4"-11.5	1-1/2"-11.5	2"-11.5
G	Inches	.83	1.00	1.00	1.02	1.42	1.57
	mm	21	25	25	26	36	40
Cv		18	40	72	112	161	287
TORQUE	in-lb	19	58	69	89	124	210
	N.m	2.1	6.5	7.8	10	14	24
WEIGHT	lbs	.48	.84	1.22	1.71	2.59	5.04
	grams	218	381	553	776	1175	2286

Rev. 8

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BA-490S* 1/2" - 2"

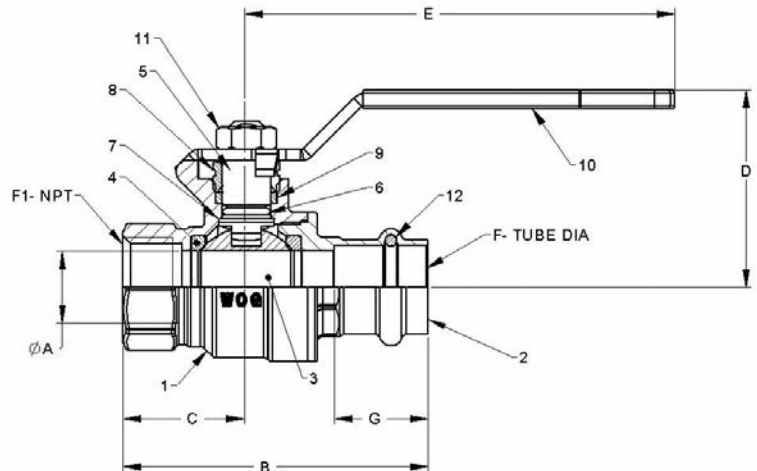
Brass Ball Valve**
Two-Piece, Full Port
Press X Threaded Ends
200 PSIG @ 250° F
Blow-Out Proof Stem

**Not intended for use in potable water.

MATERIALS LIST

ITEM	PART	MATERIAL	ASTM/SPEC
1	Body	Brass, Forged	B283
2	Tailpiece	Brass, Forged	B283
3	Ball	316 SS	A276
4	Ball Seat	PTFE	Commercial
5	Stem	316 SS	A276
6	Stem O-Ring	Buna-N	
7	Thrust Washer	PTFE	Commercial
8	Gland Nut	Brass	B124
9	Packing	PTFE	Commercial
10	Handle	Zinc Plated Steel	Commercial
11	Handle Nut	Zinc Plated Steel	Commercial
12	Tube O-Ring	EPDM	D2000 NSF61

*Ultra Press Valves are designed and qualified for use in copper tubing systems only, Types K, L, & M per ASTM B88.



DIMENSIONS

Valve Size		1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
		DN15	DN20	DN25	DN32	DN40	DN50
A	Inches	0.51	0.76	0.98	1.26	1.50	2.00
	mm	13	19	25	32	38	51
B	Inches	2.77	3.23	3.71	4.12	4.86	6.14
	mm	70	82	94	105	123	155.96
C	Inches	1.14	1.31	1.53	1.71	1.88	2.19
	mm	29	33	39	43	48	56
D	Inches	1.46	1.93	2.10	2.33	2.52	2.96
	mm	37	49	53	59	64	75
E	Inches	3.14	4.35	4.35	5.00	5.00	6.90
	mm	80	110	110	127	127	175
F TUBE DIA	Inches	0.63	0.88	1.13	1.38	1.63	2.13
	mm	15	20	25	32	40	50
F1 NPT		Inches 1/2"-14	3/4"-14	1"-11.5	1-1/4"-11.5	1-1/2"-11.5	2"-11.5
G	Inches	.83	1.00	1.00	1.02	1.42	1.57
	mm	21	25	25	26	36	40
Cv		18	40	72	112	161	287
TORQUE	in-lb	19	58	69	89	124	210
	N.m	2.1	6.5	7.8	10	14	24
WEIGHT	lbs	.48	.84	1.22	1.71	2.59	5.04
	grams	218	381	553	776	1175	2286

Rev. 2

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BA-490S* 1/2" - 2"

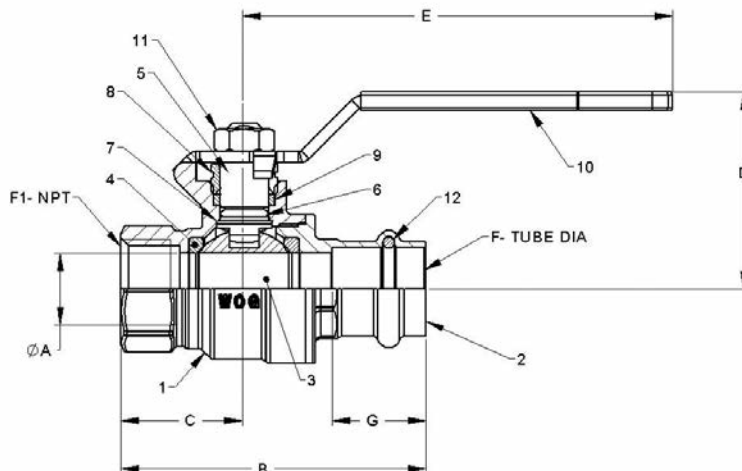
Brass Ball Valve**
Two-Piece, Full Port
Press X Threaded Ends
200 PSIG @ 250° F
Blow-Out Proof Stem

MATERIALS LIST

ITEM	PART	MATERIAL	ASTM/SPEC
1	Body	Brass, Forged	B283
2	Tailpiece	Brass, Forged	B283
3	Ball	316 SS	A276
4	Ball Seat	PTFE	Commercial
5	Stem	316 SS	A276
6	Stem O-Ring	Buna-N	
7	Thrust Washer	PTFE	Commercial
8	Gland Nut	Brass	B124
9	Packing	PTFE	Commercial
10	Handle	Zinc Plated Steel	Commercial
11	Handle Nut	Zinc Plated Steel	Commercial
12	Tube O-Ring	EPDM	D2000 NSF61

*Ultra Press Valves are designed and qualified for use in copper tubing systems only, Types K & L per ASTM B88.

**Not intended for use in potable water.



DIMENSIONS

Valve Size		1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
		DN15	DN20	DN25	DN32	DN40	DN50
A	Inches	0.51	0.76	0.98	1.26	1.50	2.00
	mm	13	19	25	32	38	51
B	Inches	2.77	3.23	3.71	4.12	4.86	6.14
	mm	70	82	94	105	123	155.96
C	Inches	1.14	1.31	1.53	1.71	1.88	2.19
	mm	29	33	39	43	48	56
D	Inches	1.46	1.93	2.10	2.33	2.52	2.96
	mm	37	49	53	59	64	75
E	Inches	3.14	4.35	4.35	5.00	5.00	6.90
	mm	80	110	110	127	127	175
F TUBE DIA	Inches	0.63	0.88	1.13	1.38	1.63	2.13
	mm	15	20	25	32	40	50
F1 NPT		Inches 1/2"-14	3/4"-14	1"-11.5	1-1/4"-11.5	1-1/2"-11.5	2"-11.5
G	Inches	.83	1.00	1.00	1.02	1.42	1.57
	mm	21	25	25	26	36	40
Cv		18	40	72	112	161	287
TORQUE	in-lb	19	58	69	89	124	210
	N.m	2.1	6.5	7.8	10	14	24
WEIGHT	lbs	.48	.84	1.22	1.71	2.59	5.04
	grams	218	381	553	776	1175	2286

Rev. 3

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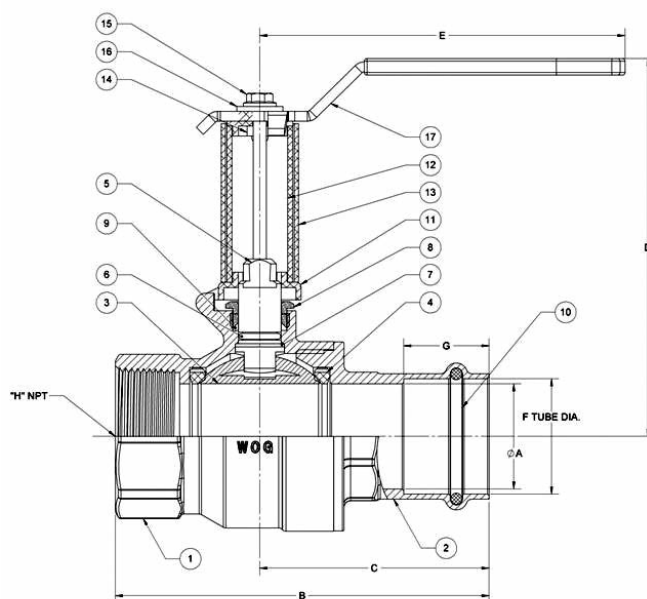


BA-491B* 1/2" - 2"

Brass Ball Valve**
Two-Piece, Full Port
Press X Threaded Ends
200 PSIG @ 250⁰ F
With Extension Stem &
Memory Stop
Blow-Out Proof Stem

MATERIALS LIST			
ITEM	PART	MATERIAL	ASTM/SPEC
1	BODY	BRASS, FORGED	B283
2	TAILPIECE	BRASS, FORGED	B283
3	BALL	CP BRASS BALL	B283
4	BALL SEAT	PTFE	COMMERICAL
5	STEM	BRASS, FORGED	B124
6	STEM O-RING	BUNA-N	
7	THRUST WASHER	PTFE	COMMERICAL
8	GLAND NUT	BRASS	B124
9	PACKING	PTFE	COMMERICAL
10	HANDLE	ZINC PLATED STEEL	B633
11	HANDLE BOLT	ZINC PLATED STEEL	COMMERICAL
12	TUBE O-RING	EPDM	D2000 NSF61
13	STEM STOP PLATE	ZINC PLATED STEEL	COMMERICAL
14	INTERNAL EXTENSION TUBE	ZINC PLATED STEEL	COMMERICAL
15	EXTERNAL EXTENSION TUBE	ZINC PLATED STEEL	COMMERICAL
16	UPPER STEM ADAPTOR	ZINC PLATED STEEL	COMMERICAL
17	MEMORY STOP	ZINC PLATED STEEL	COMMERICAL

*Ultra Press Valves are designed and qualified for use in copper tubing systems only, Types K, L, & M per ASTM B88.



DIMENSIONS							
VALVE SIZE		1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
		DN15	DN20	DN25	DN32	DN32	DN50
A	INCH	0.51	0.76	0.98	1.26	1.50	2.01
	mm	13.0	19.3	24.9	32.0	38.1	51.1
B	INCH	2.76	3.58	3.98	4.51	5.50	6.44
	mm	70.1	90.9	101.1	114.6	139.7	163.6
C	INCH	1.63	1.92	2.18	2.75	3.46	3.46
	mm	41.4	48.8	55.4	69.9	87.9	87.9
D	INCH	3.55	4.08	4.28	4.53	4.65	5.13
	mm	90.2	103.6	108.7	115.1	118.1	130.3
E	INCH	3.28	4.38	4.38	4.38	6.97	6.97
	mm	83.3	111.3	111.3	111.3	177.0	177.0
F	INCH	0.63	0.88	1.13	1.38	1.64	2.13
	mm	16.0	22.4	28.7	35.1	41.7	54.1
G	INCH	0.83	0.99	0.99	1.02	1.42	1.58
	mm	21.1	25.1	25.1	25.9	36.1	40.1
H	THRD SIZE	1/2" NPT	3/4" NPT	1" NPT	1-1/4" NPT	1-1/2" NPT	2" NPT
Cv	GPM	18	40	72	112	161	287
TORQUE	INCH-LB	19	58	69	89	124	210
	N.m	2.1	6.5	7.8	10	14	24
WEIGHT	LBS	0.59	1.11	1.32	2.07	3.30	5.32
	GRAMS	268	503	599	939	1497	2413

**Not intended for use in potable water.

Rev. 2

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BA-491B* 1/2" - 2"

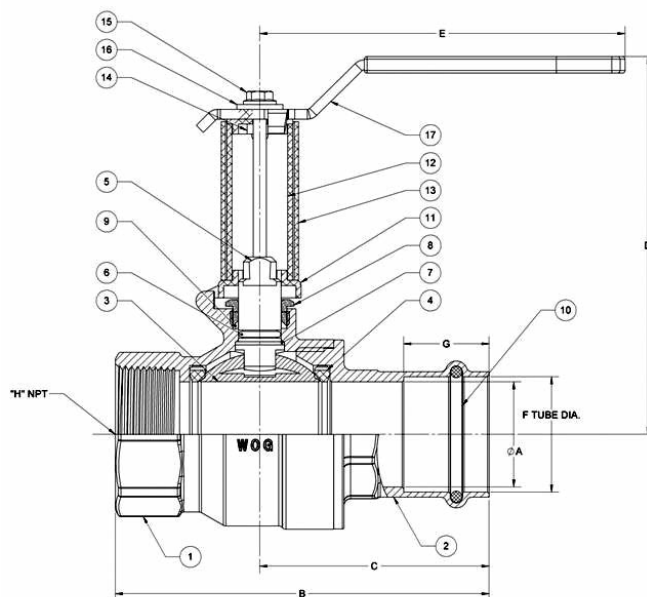
Brass Ball Valve**
Two-Piece, Full Port
Press X Threaded Ends
200 PSIG @ 250⁰ F
With Extension Stem &
Memory Stop
Blow-Out Proof Stem

MATERIALS LIST

ITEM	PART	MATERIAL	ASTM/SPEC
1	BODY	BRASS, FORGED	B283
2	TAILPIECE	BRASS, FORGED	B283
3	BALL	CP BRASS BALL	B283
4	BALL SEAT	PTFE	COMMERICAL
5	STEM	BRASS, FORGED	B124
6	STEM O-RING	BUNA-N	
7	THRUST WASHER	PTFE	COMMERICAL
8	GLAND NUT	BRASS	B124
9	PACKING	PTFE	COMMERICAL
10	HANDLE	ZINC PLATED STEEL	B633
11	HANDLE BOLT	ZINC PLATED STEEL	COMMERICAL
12	TUBE O-RING	EPDM	D2000 NSF61
13	STEM STOP PLATE	ZINC PLATED STEEL	COMMERICAL
14	INTERNAL EXTENSION TUBE	ZINC PLATED STEEL	COMMERICAL
15	EXTERNAL EXTENSION TUBE	ZINC PLATED STEEL	COMMERICAL
16	UPPER STEM ADAPTOR	ZINC PLATED STEEL	COMMERICAL
17	MEMORY STOP	ZINC PLATED STEEL	COMMERICAL

*Ultra Press Valves are designed and qualified for use in copper tubing systems only, Types K, L, & M per ASTM B88.

**Not intended for use in potable water.



DIMENSIONS

VALVE SIZE		1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
		DN15	DN20	DN25	DN32	DN32	DN50
A PORT Ø	INCH	0.51	0.76	0.98	1.26	1.50	2.01
	mm	13.0	19.3	24.9	32.0	38.1	51.1
B	INCH	2.76	3.58	3.98	4.51	5.50	6.44
	mm	70.1	90.9	101.1	114.6	139.7	163.6
C	INCH	1.63	1.92	2.18	2.75	3.46	3.46
	mm	41.4	48.8	55.4	69.9	87.9	87.9
D	INCH	3.55	4.08	4.28	4.53	4.65	5.13
	mm	90.2	103.6	108.7	115.1	118.1	130.3
E	INCH	3.28	4.38	4.38	4.38	6.97	6.97
	mm	83.3	111.3	111.3	111.3	177.0	177.0
F TUBE Ø	INCH	0.63	0.88	1.13	1.38	1.64	2.13
	mm	16.0	22.4	28.7	35.1	41.7	54.1
G	INCH	0.83	0.99	0.99	1.02	1.42	1.58
	mm	21.1	25.1	25.1	25.9	36.1	40.1
H	THRD SIZE	1/2" NPT	3/4" NPT	1" NPT	1-1/4" NPT	1-1/2" NPT	2" NPT
Cv	GPM	18	40	72	112	161	287
TORQUE	INCH-LB	19	58	69	89	124	210
	N.m	2.1	6.5	7.8	10	14	24
WEIGHT	LBS	0.59	1.11	1.32	2.07	3.30	5.32
	GRAMS	268	503	599	939	1497	2413

Rev. 2

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Hammond Valve is a registered trade mark of Milwaukee Valve Company.

BV-33



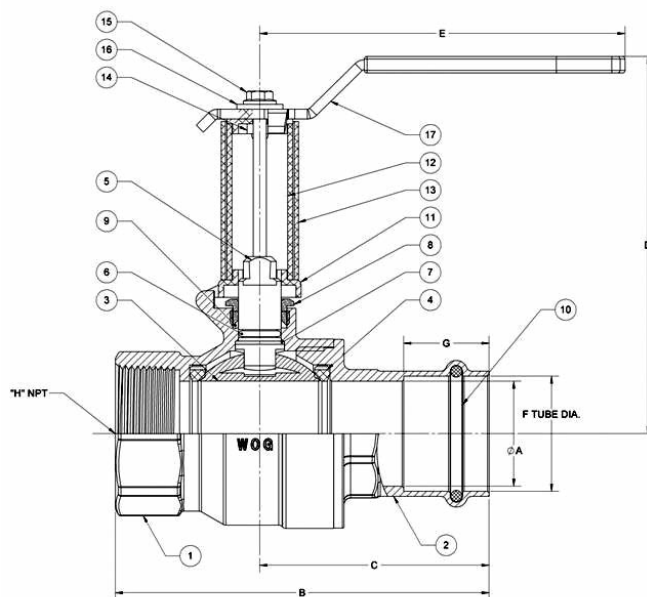


BA-491S* 1/2" - 2"

Brass Ball Valve**
Two-Piece, Full Port
Press X Threaded Ends
200 PSIG @ 250⁰ F
With Extension Stem &
Memory Stop
Blow-Out Proof Stem

MATERIALS LIST			
ITEM	PART	MATERIAL	ASTM/SPEC
1	BODY	BRASS, FORGED	B283
2	TAILPIECE	BRASS, FORGED	B283
3	BALL	316 STAINLESS STEEL	A276
4	BALL SEAT	PTFE	COMMERICAL
5	STEM	316 STAINLESS STEEL	A276
6	STEM O-RING	BUNA-N	
7	THRUST WASHER	PTFE	COMMERICAL
8	GLAND NUT	BRASS	B124
9	PACKING	PTFE	COMMERICAL
10	HANDLE	ZINC PLATED STEEL	B633
11	HANDLE BOLT	ZINC PLATED STEEL	COMMERICAL
12	TUBE O-RING	EPDM	D2000 NSF61
13	STEM STOP PLATE	ZINC PLATED STEEL	COMMERICAL
14	INTERNAL EXTENSION TUBE	ZINC PLATED STEEL	COMMERICAL
15	EXTERNAL EXTENSION TUBE	ZINC PLATED STEEL	COMMERICAL
16	UPPER STEM ADAPTOR	ZINC PLATED STEEL	COMMERICAL
17	MEMORY STOP	ZINC PLATED STEEL	COMMERICAL

*Ultra Press Valves are designed and qualified for use in copper tubing systems only, Types K, L, & M per ASTM B88.



DIMENSIONS							
VALVE SIZE		1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
		DN15	DN20	DN25	DN32	DN32	DN50
A	INCH	0.51	0.76	0.98	1.26	1.50	2.01
	mm	13.0	19.3	24.9	32.0	38.1	51.1
B	INCH	2.76	3.58	3.98	4.51	5.50	6.44
	mm	70.1	90.9	101.1	114.6	139.7	163.6
C	INCH	1.63	1.92	2.18	2.75	3.46	3.46
	mm	41.4	48.8	55.4	69.9	87.9	87.9
D	INCH	3.55	4.08	4.28	4.53	4.65	5.13
	mm	90.2	103.6	108.7	115.1	118.1	130.3
E	INCH	3.28	4.38	4.38	4.38	6.97	6.97
	mm	83.3	111.3	111.3	111.3	177.0	177.0
F	INCH	0.63	0.88	1.13	1.38	1.64	2.13
	mm	16.0	22.4	28.7	35.1	41.7	54.1
G	INCH	0.83	0.99	0.99	1.02	1.42	1.58
	mm	21.1	25.1	25.1	25.9	36.1	40.1
H	THRD SIZE	1/2" NPT	3/4" NPT	1" NPT	1-1/4" NPT	1-1/2" NPT	2" NPT
Cv	GPM	18	40	72	112	161	287
TORQUE	INCH-LB	19	58	69	89	124	210
	N.m	2.1	6.5	7.8	10	14	24
WEIGHT	LBS	0.59	1.11	1.32	2.07	3.30	5.32
	GRAMS	268	503	599	939	1497	2413

Rev. 2

**Not intended for use in potable water.

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BA-491S* 1/2" - 2"

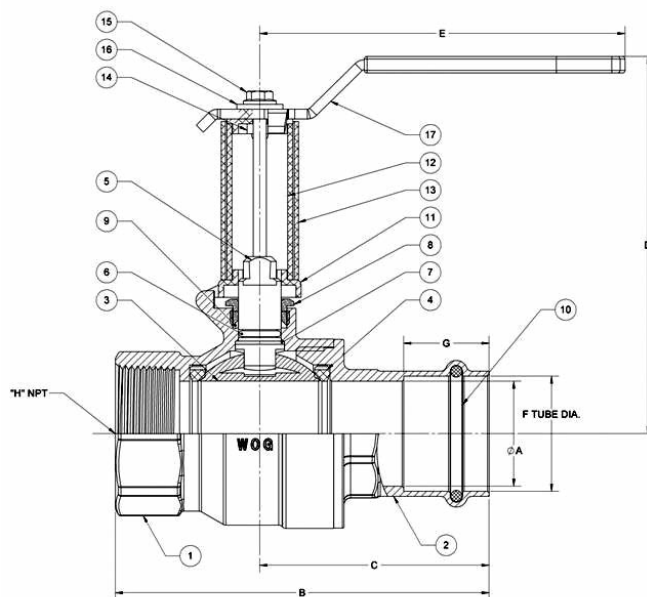
Brass Ball Valve**
Two-Piece, Full Port
Press X Threaded Ends
200 PSIG @ 250⁰ F
With Extension Stem &
Memory Stop
Blow-Out Proof Stem

MATERIALS LIST

ITEM	PART	MATERIAL	ASTM/SPEC
1	BODY	BRASS, FORGED	B283
2	TAILPIECE	BRASS, FORGED	B283
3	BALL	316 STAINLESS STEEL	A276
4	BALL SEAT	PTFE	COMMERICAL
5	STEM	316 STAINLESS STEEL	A276
6	STEM O-RING	BUNA-N	
7	THRUST WASHER	PTFE	COMMERICAL
8	GLAND NUT	BRASS	B124
9	PACKING	PTFE	COMMERICAL
10	HANDLE	ZINC PLATED STEEL	B633
11	HANDLE BOLT	ZINC PLATED STEEL	COMMERICAL
12	TUBE O-RING	EPDM	D2000 NSF61
13	STEM STOP PLATE	ZINC PLATED STEEL	COMMERICAL
14	INTERNAL EXTENSION TUBE	ZINC PLATED STEEL	COMMERICAL
15	EXTERNAL EXTENSION TUBE	ZINC PLATED STEEL	COMMERICAL
16	UPPER STEM ADAPTOR	ZINC PLATED STEEL	COMMERICAL
17	MEMORY STOP	ZINC PLATED STEEL	COMMERICAL

*Ultra Press Valves are designed and qualified for use in copper tubing systems only, Types K, L, & M per ASTM B88.

**Not intended for use in potable water.



DIMENSIONS

VALVE SIZE		1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
		DN15	DN20	DN25	DN32	DN32	DN50
A	INCH	0.51	0.76	0.98	1.26	1.50	2.01
	mm	13.0	19.3	24.9	32.0	38.1	51.1
B	INCH	2.76	3.58	3.98	4.51	5.50	6.44
	mm	70.1	90.9	101.1	114.6	139.7	163.6
C	INCH	1.63	1.92	2.18	2.75	3.46	3.46
	mm	41.4	48.8	55.4	69.9	87.9	87.9
D	INCH	3.55	4.08	4.28	4.53	4.65	5.13
	mm	90.2	103.6	108.7	115.1	118.1	130.3
E	INCH	3.28	4.38	4.38	4.38	6.97	6.97
	mm	83.3	111.3	111.3	111.3	177.0	177.0
F	INCH	0.63	0.88	1.13	1.38	1.64	2.13
	mm	16.0	22.4	28.7	35.1	41.7	54.1
G	INCH	0.83	0.99	0.99	1.02	1.42	1.58
	mm	21.1	25.1	25.1	25.9	36.1	40.1
H	THRD SIZE	1/2" NPT	3/4" NPT	1" NPT	1-1/4" NPT	1-1/2" NPT	2" NPT
Cv	GPM	18	40	72	112	161	287
TORQUE	INCH-LB	19	58	69	89	124	210
	N.m	2.1	6.5	7.8	10	14	24
WEIGHT	LBS	0.59	1.11	1.32	2.07	3.30	5.32
	GRAMS	268	503	599	939	1497	2413

Rev. 2

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Hammond Valve is a registered trade mark of Milwaukee Valve Company.

UPBA-480B* 1/2" - 2"

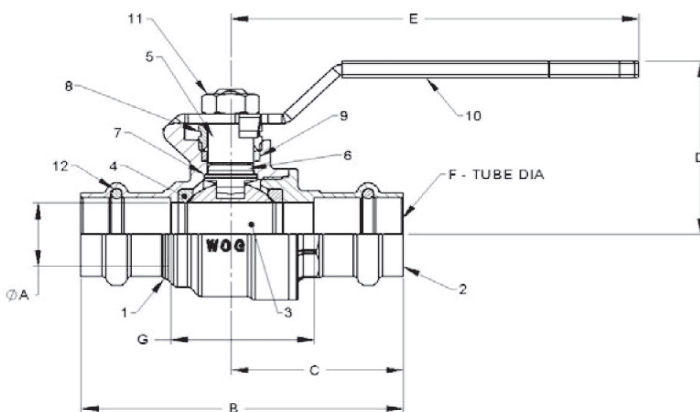


WQA tested and Certified
against NSF/ANSI 372
for "lead free" compliance.

Brass Ball Valve For Potable Water
Two-Piece, Full Port
Blow Out Proof Stem
Press X Press Ends
200 PSIG @ 250° F

MATERIALS LIST			
ITEM	PART	MATERIAL	ASTM/SPEC
1	Body	Brass, Forged	B283-C27450
2	Tailpiece	Brass, Forged	B283-C27450
3	Ball	CP Brass Ball	B283-C27450
4	Ball Seat	PTFE	Commercial
5	Stem	Brass, Forged	B283-C27450
6	Stem O-Ring	Buna-N	D2000
7	Thrust Washer	PTFE	Commercial
8	Gland Nut	Brass	B124
9	Packing	PTFE	Commercial
10	Handle	Zinc Plated Steel	Commercial
11	Handle Nut	Zinc Plated Steel	Commercial
12**	Backing Ring	Plastic	Commercial

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Size		DIMENSIONS					
		1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
A-PORT DIA	INCHES	0.51	0.76	0.98	1.26	1.50	2.01
	mm	13	19.3	25	32	38	51
B	INCHES	3.16	3.71	4.28	5.20	6.31	7.44
	mm	80	94	109	132	160	189
C	INCHES	1.63	1.92	2.18	2.75	3.40	3.96
	mm	41.4	48.8	55.4	69.9	86.4	100.5
D	INCHES	1.62	2.01	2.21	2.46	2.62	3.13
	mm	41.1	51.1	56.3	62.5	66.5	79.6
E	INCHES	3.15	4.33	4.33	5.12	5.12	6.89
	mm	80	110	110	130	130	175
G	INCHES	1.52	1.73	2.31	3.16	3.49	4.28
	mm	38.5	43.8	58.6	80.3	88.5	108.7
Cv		18	40	72	112	161	287
Torque	in-lb	19	58	69	89	124	210
	N.m.	2.1	6.5	7.8	10	14	24
Weight	lbs.	0.42	0.82	1.18	1.86	2.80	5.50
	grams	191	372	535	844	1270	2495

Milwaukee Valve Company
16550 W. Stratton Drive
New Berlin, WI 53151
Phone: 262-432-2700
Fax: 262-432-2701

Rev. 6

Note: Lead free refers to the wetted surface of the pipe, fittings and fixtures in potable water systems that have a weighted average lead content ≤ 0.25%. Source: California Health and Safety Code (116875).

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UPBA-480B* 1/2" - 2"



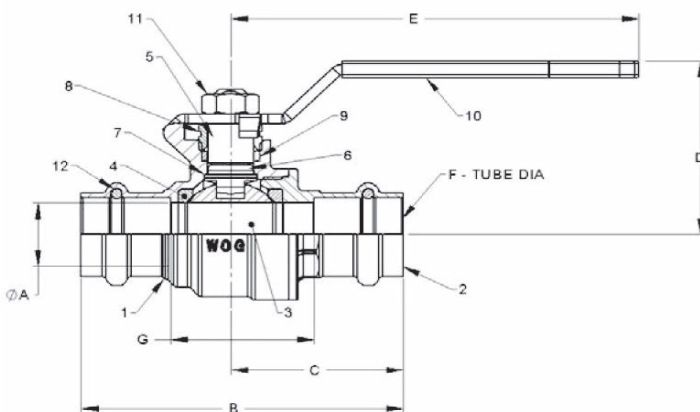
WQA tested and Certified
against NSF/ANSI 372
for "lead free" compliance.

Brass Ball Valve For Potable Water
Two-Piece, Full Port
Blow Out Proof Stem
Press X Press Ends
200 PSIG @ 250° F

MATERIALS LIST

ITEM	PART	MATERIAL	ASTM/SPEC
1	Body	Brass, Forged	B283-C27450
2	Tailpiece	Brass, Forged	B283-C27450
3	Ball	CP Brass Ball	B283-C27450
4	Ball Seat	PTFE	Commercial
5	Stem	Brass, Forged	B283-C27450
6	Stem O-Ring	Buna-N	D2000
7	Thrust Washer	PTFE	Commercial
8	Gland Nut	Brass	B124
9	Packing	PTFE	Commercial
10	Handle	Zinc Plated Steel	Commercial
11	Handle Nut	Zinc Plated Steel	Commercial
12**	Backing Ring	Plastic	Commercial

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DIMENSIONS							
Size		1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
		DN15	DN20	DN25	DN32	DN40	DN50
A-PORT DIA	INCHES	0.51	0.76	0.98	1.26	1.50	2.01
	mm	13	19.3	25	32	38	51
B	INCHES	3.16	3.71	4.28	5.20	6.31	7.44
	mm	80	94	109	132	160	189
C	INCHES	1.63	1.92	2.18	2.75	3.40	3.96
	mm	41.4	48.8	55.4	69.9	86.4	100.5
D	INCHES	1.62	2.01	2.21	2.46	2.62	3.13
	mm	41.1	51.1	56.3	62.5	66.5	79.6
E	INCHES	3.15	4.33	4.33	5.12	5.12	6.89
	mm	80	110	110	130	130	175
G	INCHES	1.52	1.73	2.31	3.16	3.49	4.28
	mm	38.5	43.8	58.6	80.3	88.5	108.7
Cv		18	40	72	112	161	287
Torque	in-lb	19	58	69	89	124	210
	N.m.	2.1	6.5	7.8	10	14	24
Weight	lbs.	0.42	0.82	1.18	1.86	2.80	5.50
	grams	191	372	535	844	1270	2495

Milwaukee Valve Company
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New Berlin, WI 53151
Phone: 262-432-2700
Fax: 262-432-2701

Rev. 5

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UPBA-480S* 1/2"- 2"



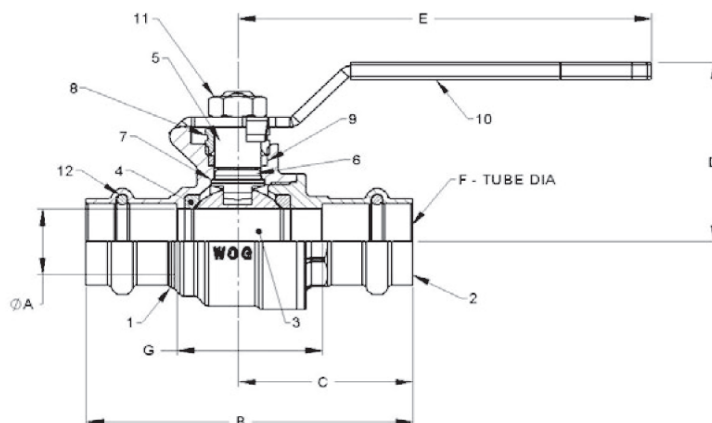
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Brass Ball Valve For Potable Water
Two-Piece, Full Port
Blow-Out Proof Stem
Press X Press Ends
200 PSIG @ 250° F

MATERIALS LIST

ITEM	PART	MATERIAL	ASTM/SPEC
1	Body	Brass, Forged	B283-C27450
2	Tailpiece	Brass, Forged	B283-C27450
3	Ball	316SS	A276
4	Ball Seat	PTFE	Commercial
5	Stem	316SS	A276
6	Stem O-Ring	Buna-N	D2000
7	Thrust Washer	PTFE	Commercial
8	Gland Nut	Brass	B124
9	Packing	PTFE	Commercial
10	Handle	Zinc Plated Steel	Commercial
11	Handle Nut	Zinc Plated Steel	Commercial
12**	Backing Ring	Plastic	Commercial

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DIMENSIONS

Size		1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
		DN15	DN20	DN25	DN32	DN40	DN50
A-PORT DIA	INCHES	0.51	0.76	0.98	1.26	1.50	2.01
	mm	13	19.3	25	32	38	51
B	INCHES	3.16	3.71	4.28	5.20	6.31	7.44
	mm	80	94	109	132	160	189
C	INCHES	1.63	1.92	2.18	2.75	3.40	3.96
	mm	41.4	48.8	55.4	69.9	86.4	100.5
D	INCHES	1.62	2.01	2.21	2.46	2.62	3.13
	mm	41.1	51.1	56.3	62.5	66.5	79.6
E	INCHES	3.15	4.33	4.33	5.12	5.12	6.89
	mm	80	110	110	130	130	175
G	INCHES	1.52	1.73	2.31	3.16	3.49	4.28
	mm	38.5	43.8	58.6	80.3	88.5	108.7
Cv		18	40	72	112	161	287
Torque	in-lb	19	58	69	89	124	210
	N.m.	2.1	6.5	7.8	10	14	24
Weight	lbs.	0.42	0.84	1.18	1.86	2.84	5.60
	grams	191	381	535	844	1288	2540

Milwaukee Valve Company
16550 W. Stratton Drive
New Berlin, WI 53151
Phone: 262-432-2700
Fax: 262-432-2701

Rev. 3

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UPBA-480S* 1/2"- 2"



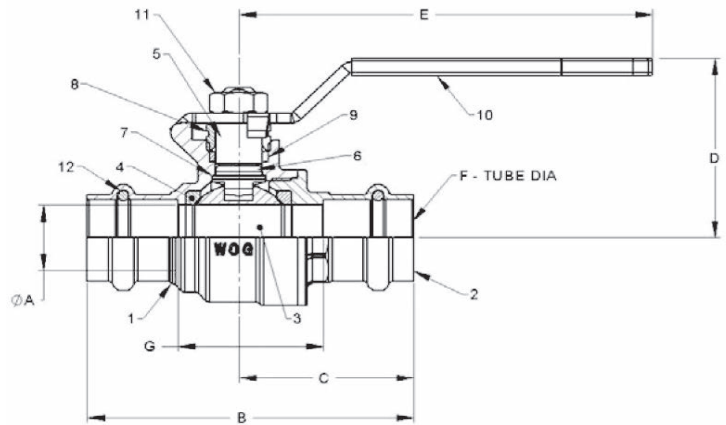
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Brass Ball Valve For Potable Water
Two-Piece, Full Port
Blow-Out Proof Stem
Press X Press Ends
200 PSIG @ 250° F

MATERIALS LIST

ITEM	PART	MATERIAL	ASTM/SPEC
1	Body	Brass, Forged	B283-C27450
2	Tailpiece	Brass, Forged	B283-C27450
3	Ball	316 SS	A276
4	Ball Seat	PTFE	Commercial
5	Stem	316 SS	A276
6	Stem O-Ring	Buna-N	D2000
7	Thrust Washer	PTFE	Commercial
8	Gland Nut	Brass	B124
9	Packing	PTFE	Commercial
10	Handle	Zinc Plated Steel	Commercial
11	Handle Nut	Zinc Plated Steel	Commercial
12**	Backing Ring	Plastic	Commercial

*Ultra Press Valves are designed and qualified for use in copper tubing systems only, Types K, L, & M per ASTM B88. For Installation Instructions please see engineering section on website.



DIMENSIONS

Size		1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
		DN15	DN20	DN25	DN32	DN40	DN50
A-PORT DIA	INCHES	0.51	0.76	0.98	1.26	1.50	2.01
	mm	13	19.3	25	32	38	51
B	INCHES	3.16	3.71	4.28	5.20	6.31	7.44
	mm	80	94	109	132	160	189
C	INCHES	1.63	1.92	2.18	2.75	3.40	3.96
	mm	41.4	48.8	55.4	69.9	86.4	100.5
D	INCHES	1.62	2.01	2.21	2.46	2.62	3.13
	mm	41.1	51.1	56.3	62.5	66.5	79.6
E	INCHES	3.15	4.33	4.33	5.12	5.12	6.89
	mm	80	110	110	130	130	175
G	INCHES	1.52	1.73	2.31	3.16	3.49	4.28
	mm	38.5	43.8	58.6	80.3	88.5	108.7
Cv		18	40	72	112	161	287
Torque	in-lb	19	58	69	89	124	210
	N.m.	2.1	6.5	7.8	10	14	24
Weight	lbs.	0.42	0.84	1.18	1.86	2.84	5.60
	grams	191	381	535	844	1288	2540

Milwaukee Valve Company
16550 W. Stratton Drive
New Berlin, WI 53151
Phone: 262-432-2700
Fax: 262-432-2701

Rev. 2

Note: Lead free refers to the wetted surface of the pipe, fittings and fixtures in potable water systems that have a weighted average lead content ≤ 0.25%. Source: California Health and Safety Code (116875).

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Hammond Valve is a registered trade mark of Milwaukee Valve Company.

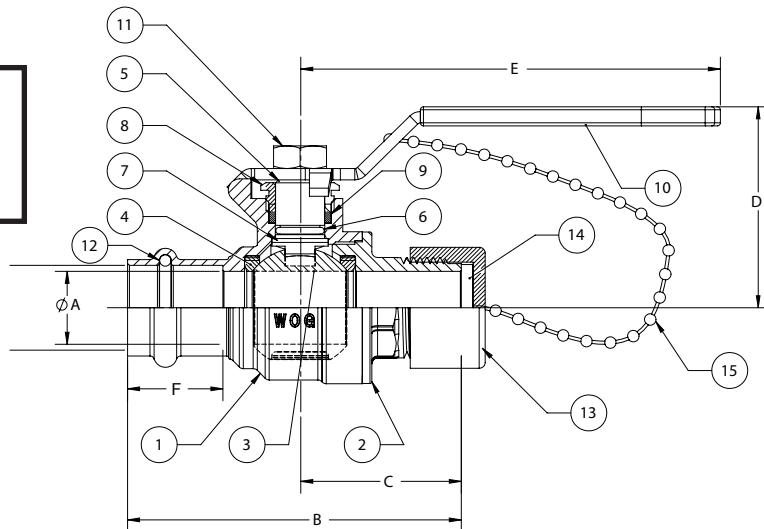
UPBA-480BH* 1/2"-3/4"



WQA tested and Certified
against NSF/ANSI 372
for "lead free" compliance.

Brass Ball Valve For Potable Water
Two-Piece, Full Port
Blow-Out Proof Stem
Press X Hose Ends
200 PSIG @ 250° F

Do not pressurize cap.
Pressure not to exceed 40 psi.



MATERIALS LIST

ITEM	PART	MATERIAL	ASTM/SPEC
1	Body	Brass, Forged	B283-C27450
2	Tailpiece	Brass, Forged	B283-C27450
3	Ball	CP Brass Ball	B283-C27450
4	Ball Seat	PTFE	Commercial
5	Stem	Brass, Forged	B283-C27450
6	Stem O-Ring	Buna-N	D2000
7	Thrust Washer	PTFE	Commercial
8	Gland Nut	Brass	B124
9	Packing	PTFE	Commercial
10	Handle	Zinc Plated Steel	B633
11	Handle Nut	Zinc Plated Steel	B633
12	Tube O-Ring	EPDM	D2000 NSF61
13	Hose Cap	Polypropylene	
14	Cap Gasket	EPDM	
15	Chain	Brass Bead	

*Ultra Press Valves are designed and qualified for use in copper tubing systems only, Types K, L, & M per ASTM B88.

Dimensions

Size		1/2" DN15	3/4" DN20
A	inch	0.51	0.76
	mm	13	19
B	inch	3.09	3.5
	mm	78	90
C	inch	1.55	1.70
	mm	39	43
D	inch	1.62	2.01
	mm	41	51
E	inch	3.15	4.33
	mm	80	110
F	inch	.82	.99
	mm	21	25
G	inch	.83	.98
	mm	21	25
Cv		18	40
TORQUE	in. lb	19	58
	N.m	21	6.5
WEIGHT	lbs.	.51	.95
	grams	231	431

Rev. 5

Milwaukee Valve Company
16550 W. Stratton Drive
New Berlin, WI 53151
Phone: 262-432-2700
Fax: 262-432-2701

NOTE: Pressure / Temperature ratings shown are for valve only. Hose side pressure and temperature limit is based on connected hose and is the users responsibility.

Note: Lead free refers to the wetted surface of the pipe, fittings and fixtures in potable water systems that have a weighted average lead content ≤ 0.25%. Source: California Health and Safety Code (116875).

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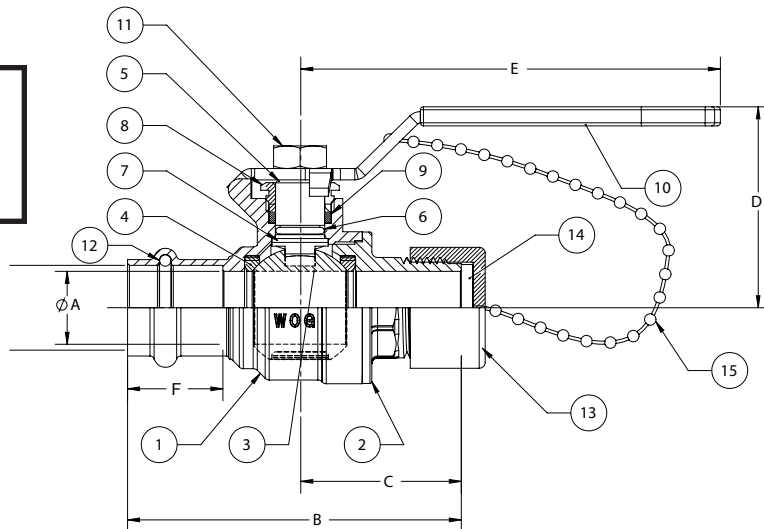
UPBA-480BH* 1/2"-3/4"



WQA tested and Certified
against NSF/ANSI 372
for "lead free" compliance.

Brass Ball Valve For Potable Water
Two-Piece, Full Port
Blow-Out Proof Stem
Press X Hose Ends
200 PSIG @ 250° F

Do not pressurize cap.
Pressure not to exceed 40 psi.



MATERIALS LIST

ITEM	PART	MATERIAL	ASTM/SPEC
1	Body	Brass, Forged	B283-C27450
2	Tailpiece	Brass, Forged	B283-C27450
3	Ball	CP Brass Ball	B283-C27450
4	Ball Seat	PTFE	Commercial
5	Stem	Brass, Forged	B283-C27450
6	Stem O-Ring	Buna-N	D2000
7	Thrust Washer	PTFE	Commercial
8	Gland Nut	Brass	B124
9	Packing	PTFE	Commercial
10	Handle	Zinc Plated Steel	B633
11	Handle Nut	Zinc Plated Steel	B633
12	Tube O-Ring	EPDM	D2000 NSF61
13	Hose Cap	Polypropylene	
14	Cap Gasket	EPDM	
15	Chain	Brass Bead	

*Ultra Press Valves are designed and qualified for use in copper tubing systems only, Types K, L, & M per ASTM B88.

Dimensions

Size		1/2" DN15	3/4" DN20
A	inch	0.51	0.76
	mm	13	19
B	inch	3.09	3.5
	mm	78	90
C	inch	1.55	1.70
	mm	39	43
D	inch	1.62	2.01
	mm	41	51
E	inch	3.15	4.33
	mm	80	110
F	inch	.82	.99
	mm	21	25
G	inch	.83	.98
	mm	21	25
Cv		18	40
TORQUE	in. lb	19	58
	N.m	21	6.5
WEIGHT	lbs.	.51	.95
	grams	231	431

Rev. 4

Milwaukee Valve Company
16550 W. Stratton Drive
New Berlin, WI 53151
Phone: 262-432-2700
Fax: 262-432-2701

NOTE: Pressure / Temperature ratings shown are for valve only. Hose side pressure and temperature limit is based on connected hose and is the users responsibility.

Note: Lead free refers to the wetted surface of the pipe, fittings and fixtures in potable water systems that have a weighted average lead content ≤ 0.25%. Source: California Health and Safety Code (116875).

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UPBA-481B* 1/2"-2"

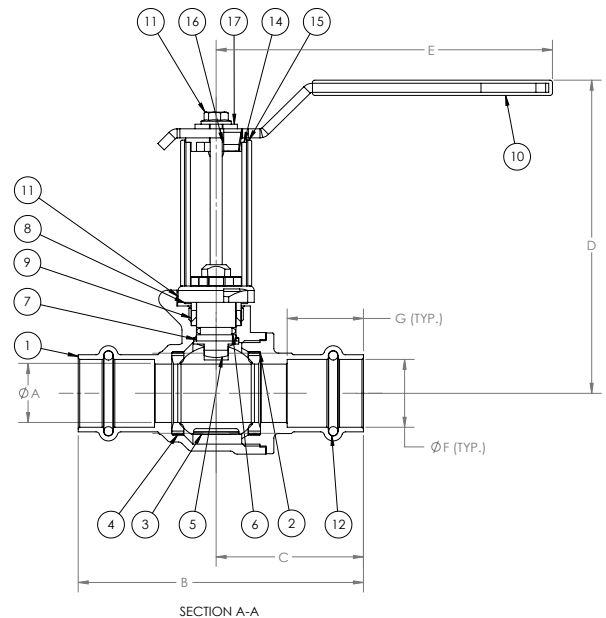


WQA tested and Certified
against NSF/ANSI 372
for "lead free" compliance.

Brass Ball Valve For Potable Water
Two-Piece, Full Port
Blow-Out Proof Stem
Press X Press Ends
With Extension Stem
& Memory Stop
200 PSIG @ 250° F

MATERIALS LIST			
ITEM	PART	MATERIAL	ASTM/SPEC
1	Body	Brass, Forged	B283-C27450
2	Tailpiece	Brass, Forged	B283-C27450
3	Ball	CP Brass Ball	B283-C27450
4	Ball Seat	PTFE	Commercial
5	Stem	Brass, Forged	B283-C27450
6	Stem O-Ring	Buna-N	D2000
7	Thrust Washer	PTFE	Commercial
8	Gland Nut	Brass	B124
9	Packing	PTFE	Commercial
10	Handle	Zinc Plated Steel	B633
11	Handle Bolt	Zinc Plated Steel	Commercial
12	Tube O-Ring	EPDM	D2000 NSF61
13	Stem Stop Plate	Zinc Plated Steel	Commercial
14	Internal Extension Tube	Zinc Plated Steel	Commercial
15	External Extension Tube	Zinc Plated Steel	Commercial
16	Upper Stem Adaptor	Zinc Plated Steel	Commercial
17	Memory Stop	Zinc Plated Steel	Commercial

*Ultra Press Valves are designed and qualified for use in copper tubing systems only, Types K & L per ASTM B88.



DIMENSIONS							
Size		1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
		DN15	DN20	DN25	DN32	DN40	DN50
A-PORT DIA	INCHES	0.51	0.76	0.98	1.26	1.50	2.01
	mm	13	19.3	25	32	38	51
B	INCHES	3.16	3.71	4.28	5.20	6.31	7.44
	mm	80	94	109	132	160	189
C	INCHES	1.63	1.92	2.18	2.75	3.40	3.96
	mm	41.4	48.8	55.4	69.9	86.4	100.5
D	INCHES	3.87	4.26	4.46	4.71	4.87	5.38
	mm	98.3	108.2	113.3	119.6	123.7	136.7
E	INCHES	3.15	4.33	4.33	5.12	5.12	6.89
	mm	80	110	110	130	130	175
G	INCHES	1.52	1.73	2.31	3.16	3.49	4.28
	mm	38.5	43.8	58.6	80.3	88.5	108.7
Cv		18	40	72	112	161	287
Torque	in-lb	19	58	69	89	124	210
	N.m.	2.1	6.5	7.8	10	14	24
Weight	lbs.	0.56	1.02	1.38	2.04	3.04	5.86
	grams	254	463	626	925	1379	2658

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Fax: 262-432-2701

Rev. 4

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UPBA-481B* 1/2"-2"

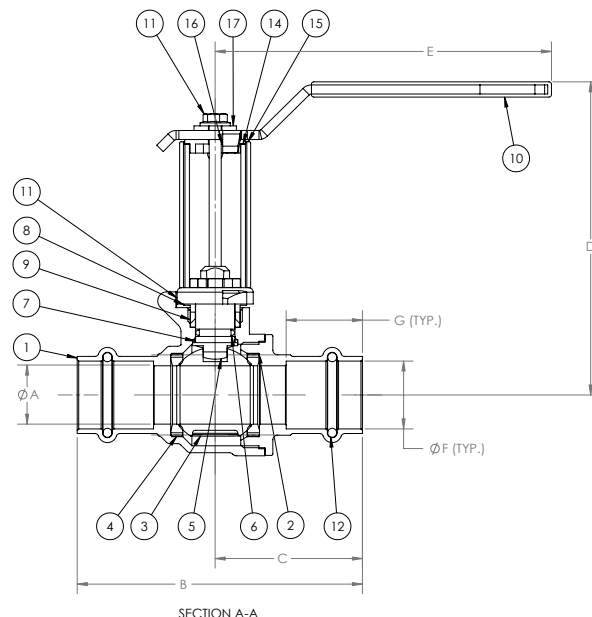


WQA tested and Certified
against NSF/ANSI 372
for "lead free" compliance.

Brass Ball Valve For Potable Water
Two-Piece, Full Port
Blow-Out Proof Stem
Press X Press Ends
With Extension Stem
& Memory Stop
200 PSIG @ 250° F

MATERIALS LIST			
ITEM	PART	MATERIAL	ASTM/SPEC
1	Body	Brass, Forged	B283-C27450
2	Tailpiece	Brass, Forged	B283-C27450
3	Ball	CP Brass Ball	B283-C27450
4	Ball Seat	PTFE	Commercial
5	Stem	Brass, Forged	B283-C27450
6	Stem O-Ring	Buna-N	D2000
7	Thrust Washer	PTFE	Commercial
8	Gland Nut	Brass	B124
9	Packing	PTFE	Commercial
10	Handle	Zinc Plated Steel	B633
11	Handle Bolt	Zinc Plated Steel	Commercial
12	Tube O-Ring	EPDM	D2000 NSF61
13	Stem Stop Plate	Zinc Plated Steel	Commercial
14	Internal Extension Tube	Zinc Plated Steel	Commercial
15	External Extension Tube	Zinc Plated Steel	Commercial
16	Upper Stem Adaptor	Zinc Plated Steel	Commercial
17	Memory Stop	Zinc Plated Steel	Commercial

*Ultra Press Valves are designed and qualified for use in copper tubing systems only, Types K & L per ASTM B88.



DIMENSIONS							
Size		1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
		DN15	DN20	DN25	DN32	DN40	DN50
A-PORT DIA	INCHES	0.51	0.76	0.98	1.26	1.50	2.01
	mm	13	19.3	25	32	38	51
B	INCHES	3.16	3.71	4.28	5.20	6.31	7.44
	mm	80	94	109	132	160	189
C	INCHES	1.63	1.92	2.18	2.75	3.40	3.96
	mm	41.4	48.8	55.4	69.9	86.4	100.5
D	INCHES	3.87	4.26	4.46	4.71	4.87	5.38
	mm	98.3	108.2	113.3	119.6	123.7	136.7
E	INCHES	3.15	4.33	4.33	5.12	5.12	6.89
	mm	80	110	110	130	130	175
G	INCHES	1.52	1.73	2.31	3.16	3.49	4.28
	mm	38.5	43.8	58.6	80.3	88.5	108.7
Cv		18	40	72	112	161	287
Torque	in-lb	19	58	69	89	124	210
	N.m.	2.1	6.5	7.8	10	14	24
Weight	lbs.	0.56	1.02	1.38	2.04	3.04	5.86
	grams	254	463	626	925	1379	2658

Milwaukee Valve Company
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New Berlin, WI 53151
Phone: 262-432-2700
Fax: 262-432-2701

Rev. 3

Note: Lead free refers to the wetted surface of the pipe, fittings and fixtures in potable water systems that have a weighted average lead content $\leq 0.25\%$. Source: California Health and Safety Code (116875).

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Hammond Valve is a registered trade mark of Milwaukee Valve Company.

UPBA-481S* 1/2"-2"



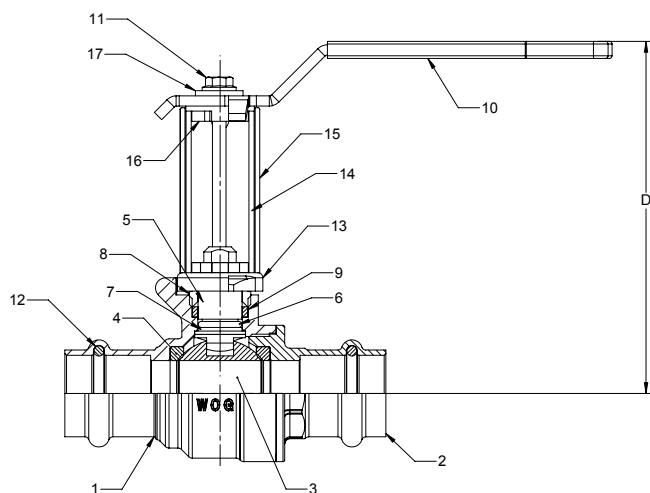
WQA tested and Certified
against NSF/ANSI 372
for "lead free" compliance.

Brass Ball Valve For Potable Water
Two-Piece, Full Port
Blow-Out Proof Stem
Press X Press Ends
With Extension Stem & Memory Stop
200 PSIG @ 250° F

MATERIALS LIST

ITEM	PART	MATERIAL	ASTM/SPEC
1	Body	Brass, Forged	B283-C27450
2	Tailpiece	Brass, Forged	B283-C27450
3	Ball	316 SS	A276
4	Ball Seat	PTFE	Commercial
5	Stem	316 SS	A276
6	Stem O-Ring	Buna-N	D2000
7	Thrust Washer	PTFE	Commercial
8	Gland Nut	Brass	B124
9	Packing	PTFE	Commercial
10	Handle	Zinc Plated Steel	B633
11	Handle Bolt	Zinc Plated Steel	Commercial
12	Tube O-Ring	EPDM	D2000 NSF61
13	Stem Stop Plate	Zinc Plated Steel	Commercial
14	Internal Extension Tube	Zinc Plated Steel	Commercial
15	External Extension Tube	Zinc Plated Steel	Commercial
16	Upper Stem Adaptor	Zinc Plated Steel	Commercial
17	Memory Stop	Zinc Plated Steel	Commercial

*Ultra Press Valves are designed and qualified for use in copper tubing systems only, Types K & L per ASTM B88.



DIMENSIONS

Size		1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
		DN15	DN20	DN25	DN32	DN40	DN50
A-PORT DIA	INCHES	0.51	0.76	0.98	1.26	1.50	2.01
	mm	13	19.3	25	32	38	51
B	INCHES	3.16	3.71	4.28	5.20	6.31	7.44
	mm	80	94	109	132	160	189
C	INCHES	1.63	1.92	2.18	2.75	3.40	3.96
	mm	41.4	48.8	55.4	69.9	86.4	100.5
D	INCHES	3.87	4.26	4.46	4.71	4.87	5.38
	mm	98.3	108.2	113.3	119.6	123.7	136.7
E	INCHES	3.15	4.33	4.33	5.12	5.12	6.89
	mm	80	110	110	130	130	175
G	INCHES	1.52	1.73	2.31	3.16	3.49	4.28
	mm	38.5	43.8	58.6	80.3	88.5	108.7
Cv		18	40	72	112	161	287
Torque	in-lb	19	58	69	89	124	210
	N.m.	2.1	6.5	7.8	10	14	24
Weight	lbs.	0.56	1.02	1.36	2.06	3.04	5.88
	grams	254	463	617	934	1379	2667

Rev. 2

Milwaukee Valve Company
16550 W. Stratton Drive
New Berlin, WI 53151
Phone: 262-432-2700
Fax: 262-432-2701

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UPBA-481S* 1/2"-2"

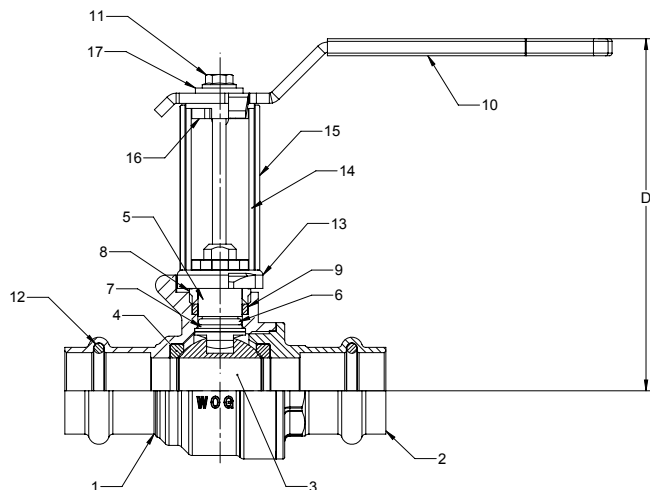


WQA tested and Certified
against NSF/ANSI 372
for "lead free" compliance.

Brass Ball Valve For Potable Water
Two-Piece, Full Port
Blow-Out Proof Stem
Press X Press Ends
With Extension Stem & Memory Stop
200 PSIG @ 250° F

MATERIALS LIST

ITEM	PART	MATERIAL	ASTM/SPEC
1	Body	Brass, Forged	B283-C27450
2	Tailpiece	Brass, Forged	B283-C27450
3	Ball	316 SS	A276
4	Ball Seat	PTFE	Commercial
5	Stem	316 SS	A276
6	Stem O-Ring	Buna-N	D2000
7	Thrust Washer	PTFE	Commercial
8	Gland Nut	Brass	B124
9	Packing	PTFE	Commercial
10	Handle	Zinc Plated Steel	B633
11	Handle Bolt	Zinc Plated Steel	Commercial
12	Tube O-Ring	EPDM	D2000 NSF61
13	Stem Stop Plate	Zinc Plated Steel	Commercial
14	Internal Extension Tube	Zinc Plated Steel	Commercial
15	External Extension Tube	Zinc Plated Steel	Commercial
16	Upper Stem Adaptor	Zinc Plated Steel	Commercial
17	Memory Stop	Zinc Plated Steel	Commercial



*Ultra Press Valves are designed and qualified for use in
copper tubing systems only, Types K & L per ASTM B88.

DIMENSIONS

Size		1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
		DN15	DN20	DN25	DN32	DN40	DN50
A-PORT DIA	INCHES	0.51	0.76	0.98	1.26	1.50	2.01
	mm	13	19.3	25	32	38	51
B	INCHES	3.16	3.71	4.28	5.20	6.31	7.44
	mm	80	94	109	132	160	189
C	INCHES	1.63	1.92	2.18	2.75	3.40	3.96
	mm	41.4	48.8	55.4	69.9	86.4	100.5
D	INCHES	3.87	4.26	4.46	4.71	4.87	5.38
	mm	98.3	108.2	113.3	119.6	123.7	136.7
E	INCHES	3.15	4.33	4.33	5.12	5.12	6.89
	mm	80	110	110	130	130	175
G	INCHES	1.52	1.73	2.31	3.16	3.49	4.28
	mm	38.5	43.8	58.6	80.3	88.5	108.7
Cv		18	40	72	112	161	287
Torque	in-lb	19	58	69	89	124	210
	N.m.	2.1	6.5	7.8	10	14	24
Weight	lbs.	0.56	1.02	1.36	2.06	3.04	5.88
	grams	254	463	617	934	1379	2667

Rev. 1

Milwaukee Valve Company
16550 W. Stratton Drive
New Berlin, WI 53151
Phone: 262-432-2700
Fax: 262-432-2701

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UPBA-490B* 1/2"-2"



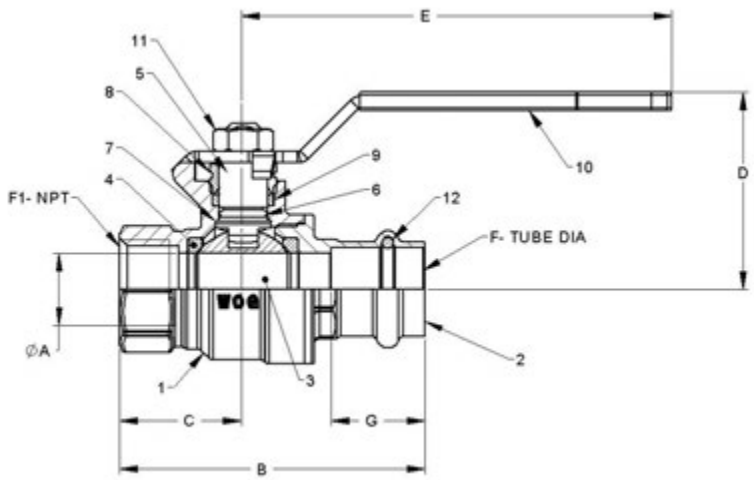
WQA tested and Certified
against NSF/ANSI 372
for "lead free" compliance.

Brass Ball Valve For Potable Water
Two-Piece, Full Port
Blow-Out Proof Stem
Press X Threaded Ends
200 PSIG @ 250° F

MATERIALS LIST

ITEM	PART	MATERIAL	ASTM/SPEC
1	Body	Brass, Forged	B283-C27450
2	Tailpiece	Brass, Forged	B283-C27450
3	Ball	CP Brass Ball	B283-C27450
4	Ball Seat	PTFE	Commercial
5	Stem	Brass, Forged	B283-C27450
6	Stem O-Ring	Buna-N	D2000
7	Thrust Washer	PTFE	Commercial
8	Gland Nut	Brass	B124
9	Packing	PTFE	Commercial
10	Handle	Zinc Plated Steel	Commercial
11	Handle Nut	Zinc Plated Steel	Commercial
12	Tube O-Ring	EPDM	D2000 NSF61

*Ultra Press Valves are designed and qualified for use in copper tubing systems only, Types K, L, & M per ASTM B88.



DIMENSIONS

Valve Size		1/2" DN15	3/4" DN20	1" DN25	1-1/4" DN32	1-1/2" DN40	2" DN50
A PORT DIA	Inches	0.51	0.76	0.98	1.26	1.50	2.00
	mm	13	19	25	32	38	51
B	Inches	2.77	3.23	3.71	4.12	4.86	6.14
	mm	70	82	94	105	123	155.96
C	Inches	1.14	1.31	1.53	1.71	1.88	2.19
	mm	29	33	39	43	48	56
D	Inches	1.46	1.93	2.10	2.33	2.52	2.96
	mm	37	49	53	59	64	75
E	Inches	3.14	4.35	4.35	5.00	5.00	6.90
	mm	80	110	110	127	127	175
F TUBE DIA	Inches	0.63	0.88	1.13	1.38	1.63	2.13
	mm	15	20	25	32	40	50
F1 NPT		Inches 1/2"-14	3/4"-14	1"-11.5	1-1/4"-11.5	1-1/2"-11.5	2"-11.5
G	Inches	.83	1.00	1.00	1.02	1.42	1.57
	mm	21	25	25	26	36	40
Cv		18	40	72	112	161	287
TORQUE	in-lb	19	58	69	89	124	210
	N.m	2.1	6.5	7.8	10	14	24
WEIGHT	lbs	.48	.84	1.22	1.71	2.59	5.04
	grams	218	381	553	776	1175	2286

Rev. 3

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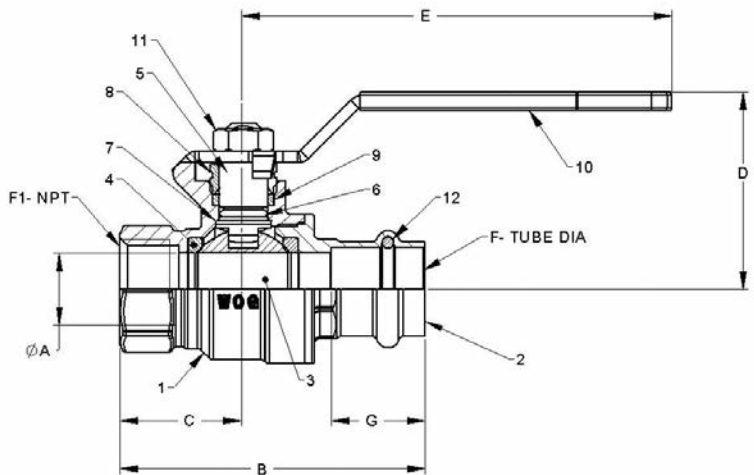


UPBA-490B* 1/2" - 2" 200 PSIG @ 250° F Blow-Out Proof Stem

MATERIALS LIST

ITEM	PART	MATERIAL	ASTM/SPEC
1	Body	Brass, Forged	B283-C27450
2	Tailpiece	Brass, Forged	B283-C27450
3	Ball	CP Brass Ball	B283-C27450
4	Ball Seat	PTFE	Commercial
5	Stem	Brass, Forged	B283-C27450
6	Stem O-Ring	Buna-N	D2000
7	Thrust Washer	PTFE	Commercial
8	Gland Nut	Brass	B124
9	Packing	PTFE	Commercial
10	Handle	Zinc Plated Steel	Commercial
11	Handle Nut	Zinc Plated Steel	Commercial
12	Tube O-Ring	EPDM	D2000 NSF61

*Ultra Press Valves are designed and qualified for use in copper tubing systems only, Types K, L, & M per ASTM B88.



DIMENSIONS

Valve Size		1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
		DN15	DN20	DN25	DN32	DN40	DN50
A	Inches	0.51	0.76	0.98	1.26	1.50	2.00
	mm	13	19	25	32	38	51
B	Inches	2.77	3.23	3.71	4.12	4.86	6.14
	mm	70	82	94	105	123	155.96
C	Inches	1.14	1.31	1.53	1.71	1.88	2.19
	mm	29	33	39	43	48	56
D	Inches	1.46	1.93	2.10	2.33	2.52	2.96
	mm	37	49	53	59	64	75
E	Inches	3.14	4.35	4.35	5.00	5.00	6.90
	mm	80	110	110	127	127	175
F TUBE DIA	Inches	0.63	0.88	1.13	1.38	1.63	2.13
	mm	15	20	25	32	40	50
F1 NPT		1/2"-14	3/4"-14	1"-11.5	1-1/4"-11.5	1-1/2"-11.5	2"-11.5
G	Inches	.83	1.00	1.00	1.02	1.42	1.57
	mm	21	25	25	26	36	40
Cv		18	40	72	112	161	287
TORQUE	in-lb	19	58	69	89	124	210
	N.m	2.1	6.5	7.8	10	14	24
WEIGHT	lbs	.48	.84	1.22	1.71	2.59	5.04
	grams	218	381	553	776	1175	2286

Rev. 2

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UPBA-491B* 1/2" -2"

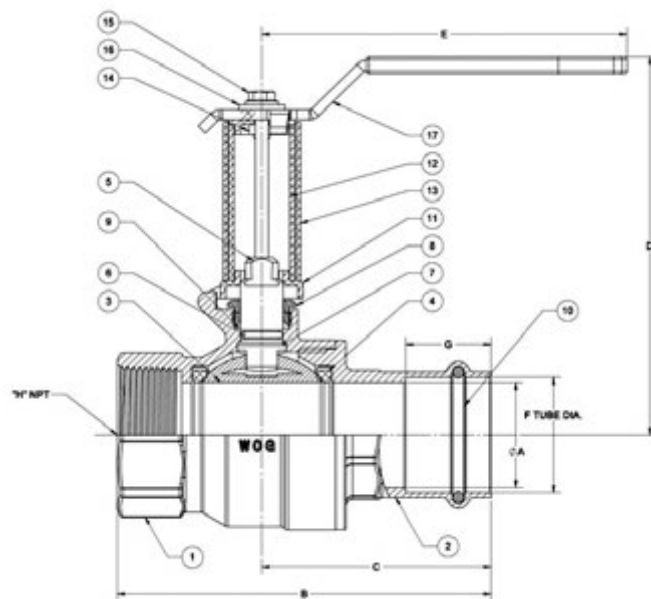


WQA tested and Certified
against NSF/ANSI 372
for "lead free" compliance.

Brass Ball Valve For Potable Water
Two-Piece, Full Port
Blow-Out Proof Stem
Press X Threaded Ends
200 PSIG @ 250° F
With Extension Stem

MATERIALS LIST			
ITEM	PART	MATERIAL	ASTM/SPEC
1	BODY	BRASS, FORGED	B283-C27450
2	TAILPIECE	BRASS, FORGED	B283-C27450
3	BALL	CP BRASS BALL	B283-C27450
4	BALL SEAT	PTFE	COMMERICAL
5	STEM	BRASS, FORGED	B283-C27450
6	STEM O-RING	BUNA-N	D2000
7	THRUST WASHER	PTFE	COMMERICAL
8	GLAND NUT	BRASS	B124
9	PACKING	PTFE	COMMERICAL
10	HANDLE	ZINC PLATED STEEL	B633
11	HANDLE BOLT	ZINC PLATED STEEL	COMMERICAL
12	TUBE O-RING	EPDM	D2000 NSF61
13	STEM STOP PLATE	ZINC PLATED STEEL	COMMERICAL
14	INTERNAL EXTENSION TUBE	ZINC PLATED STEEL	COMMERICAL
15	EXTERNAL EXTENSION TUBE	ZINC PLATED STEEL	COMMERICAL
16	UPPER STEM ADAPTOR	ZINC PLATED STEEL	COMMERICAL
17	MEMORY STOP	ZINC PLATED STEEL	COMMERICAL

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DIMENSIONS							
VALVE SIZE		1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
		DN15	DN20	DN25	DN32	DN32	DN50
A	INCH	0.51	0.76	0.98	1.26	1.50	2.01
	mm	13.0	19.3	24.9	32.0	38.1	51.1
B	INCH	2.76	3.58	3.98	4.51	5.50	6.44
	mm	70.1	90.9	101.1	114.6	139.7	163.6
C	INCH	1.63	1.92	2.18	2.75	3.46	3.46
	mm	41.4	48.8	55.4	69.9	87.9	87.9
D	INCH	3.55	4.08	4.28	4.53	4.65	5.13
	mm	90.2	103.6	108.7	115.1	118.1	130.3
E	INCH	3.28	4.38	4.38	4.38	6.97	6.97
	mm	83.3	111.3	111.3	111.3	177.0	177.0
F	INCH	0.63	0.88	1.13	1.38	1.64	2.13
	mm	16.0	22.4	28.7	35.1	41.7	54.1
G	INCH	0.83	0.99	0.99	1.02	1.42	1.58
	mm	21.1	25.1	25.1	25.9	36.1	40.1
H	THRD SIZE	1/2" NPT	3/4" NPT	1" NPT	1-1/4" NPT	1-1/2" NPT	2" NPT
Cv	GPM	18	40	72	112	161	287
TORQUE	INCH-LB	19	58	69	89	124	210
	N.m	2.1	6.5	7.8	10	14	24
WEIGHT	LBS	0.59	1.11	1.32	2.07	3.30	5.32
	GRAMS	268	503	599	939	1497	2413

Rev. 3

Milwaukee Valve Company
16550 W. Stratton Drive
New Berlin, WI 53151
Phone: 262-432-2700
Fax: 262-432-2701

Note: Lead free refers to the wetted surface of the pipe, fittings and fixtures in potable water systems that have a weighted average lead content ≤ 0.25%. Source: California Health and Safety Code (116875).

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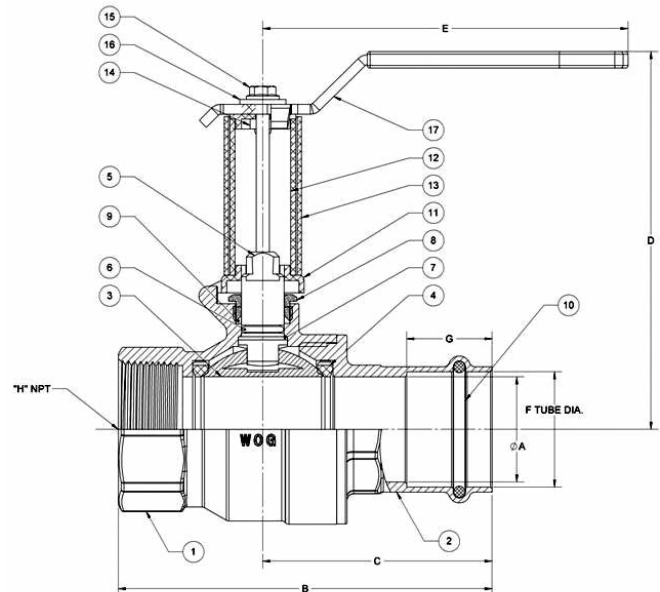
**Brass Ball Valve
Two-Piece, Full Port
Press X Threaded Ends**

UPBA-491B* 1/2"-2"

**200 PSIG @ 250° F
With Extension Stem
Blow-Out Proof Stem**

MATERIALS LIST			
ITEM	PART	MATERIAL	ASTM/SPEC
1	BODY	BRASS, FORGED	B283-C27450
2	TAILPIECE	BRASS, FORGED	B283-C27450
3	BALL	CP BRASS BALL	B283-C27450
4	BALL SEAT	PTFE	COMMERICAL
5	STEM	BRASS, FORGED	B283-C27450
6	STEM O-RING	BUNA-N	D2000
7	THRUST WASHER	PTFE	COMMERICAL
8	GLAND NUT	BRASS	B124
9	PACKING	PTFE	COMMERICAL
10	HANDLE	ZINC PLATED STEEL	B633
11	HANDLE BOLT	ZINC PLATED STEEL	COMMERICAL
12	TUBE O-RING	EPDM	D2000 NSF61
13	STEM STOP PLATE	ZINC PLATED STEEL	COMMERICAL
14	INTERNAL EXTENSION TUBE	ZINC PLATED STEEL	COMMERICAL
15	EXTERNAL EXTENSION TUBE	ZINC PLATED STEEL	COMMERICAL
16	UPPER STEM ADAPTOR	ZINC PLATED STEEL	COMMERICAL
17	MEMORY STOP	ZINC PLATED STEEL	COMMERICAL

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DIMENSIONS							
VALVE SIZE		1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
		DN15	DN20	DN25	DN32	DN32	DN50
A PORT Ø	INCH	0.51	0.76	0.98	1.26	1.50	2.01
	mm	13.0	19.3	24.9	32.0	38.1	51.1
B	INCH	2.76	3.58	3.98	4.51	5.50	6.44
	mm	70.1	90.9	101.1	114.6	139.7	163.6
C	INCH	1.63	1.92	2.18	2.75	3.46	3.46
	mm	41.4	48.8	55.4	69.9	87.9	87.9
D	INCH	3.55	4.08	4.28	4.53	4.65	5.13
	mm	90.2	103.6	108.7	115.1	118.1	130.3
E	INCH	3.28	4.38	4.38	4.38	6.97	6.97
	mm	83.3	111.3	111.3	111.3	177.0	177.0
F TUBE Ø	INCH	0.63	0.88	1.13	1.38	1.64	2.13
	mm	16.0	22.4	28.7	35.1	41.7	54.1
G	INCH	0.83	0.99	0.99	1.02	1.42	1.58
	mm	21.1	25.1	25.1	25.9	36.1	40.1
H	THRD SIZE	1/2" NPT	3/4" NPT	1" NPT	1-1/4" NPT	1-1/2" NPT	2" NPT
Cv	GPM	18	40	72	112	161	287
TORQUE	INCH-LB	19	58	69	89	124	210
	N.m	2.1	6.5	7.8	10	14	24
WEIGHT	LBS	0.59	1.11	1.32	2.07	3.30	5.32
	GRAMS	268	503	599	939	1497	2413

Rev. 2



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UPBA-491S* 1/2" -2"



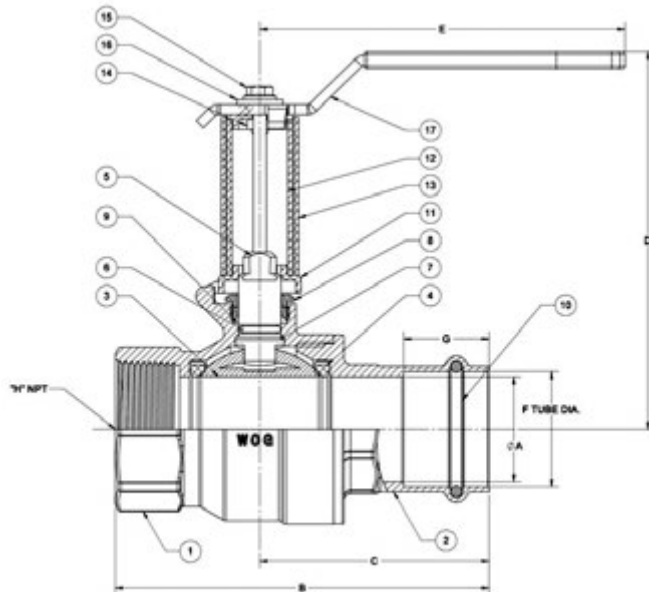
WQA tested and Certified
against NSF/ANSI 372
for "lead free" compliance.

Brass Ball Valve For Potable Water
Two-Piece, Full Port
Blow-Out Proof Stem
Press X Threaded Ends
200 PSIG @ 250° F
With Extension Stem

MATERIALS LIST

ITEM	PART	MATERIAL	ASTM/SPEC
1	BODY	BRASS, FORGED	B283-C27450
2	TAILPIECE	BRASS, FORGED	B283-C27450
3	BALL	316 SS	A276
4	BALL SEAT	PTFE	COMMERICAL
5	STEM	316 SS	A276
6	STEM O-RING	BUNA-N	D2000
7	THRUST WASHER	PTFE	COMMERICAL
8	GLAND NUT	BRASS	B124
9	PACKING	PTFE	COMMERICAL
10	HANDLE	ZINC PLATED STEEL	B633
11	HANDLE BOLT	ZINC PLATED STEEL	COMMERICAL
12	TUBE O-RING	EPDM	D2000 NSF61
13	STEM STOP PLATE	ZINC PLATED STEEL	COMMERICAL
14	INTERNAL EXTENSION TUBE	ZINC PLATED STEEL	COMMERICAL
15	EXTERNAL EXTENSION TUBE	ZINC PLATED STEEL	COMMERICAL
16	UPPER STEM ADAPTOR	ZINC PLATED STEEL	COMMERICAL
17	MEMORY STOP	ZINC PLATED STEEL	COMMERICAL

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DIMENSIONS

VALVE SIZE		1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
		DN15	DN20	DN25	DN32	DN32	DN50
A	INCH	0.51	0.76	0.98	1.26	1.50	2.01
	mm	13.0	19.3	24.9	32.0	38.1	51.1
B	INCH	2.76	3.58	3.98	4.51	5.50	6.44
	mm	70.1	90.9	101.1	114.6	139.7	163.6
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TORQUE	INCH-LB	19	58	69	89	124	210
	N.m	2.1	6.5	7.8	10	14	24
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	GRAMS	268	503	599	939	1497	2413

Rev. 1

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16550 W. Stratton Drive
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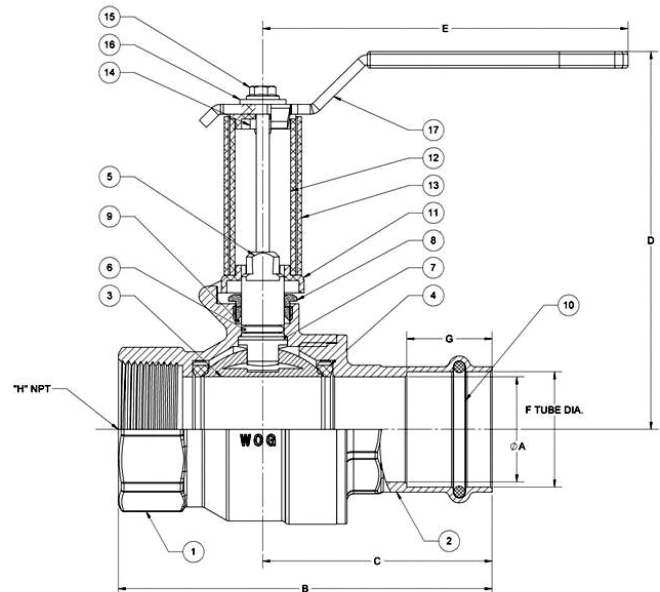
**Brass Ball Valve
Two-Piece, Full Port
Press X Threaded Ends**

UPBA-491S* 1/2"-2"

**200 PSIG @ 250° F
With Extension Stem
Blow-Out Proof Stem**

MATERIALS LIST			
ITEM	PART	MATERIAL	ASTM/SPEC
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2	TAILPIECE	BRASS, FORGED	B283-C27450
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4	BALL SEAT	PTFE	COMMERICAL
5	STEM	316 SS	A276
6	STEM O-RING	BUNA-N	D2000
7	THRUST WASHER	PTFE	COMMERICAL
8	GLAND NUT	BRASS	B124
9	PACKING	PTFE	COMMERICAL
10	HANDLE	ZINC PLATED STEEL	B633
11	HANDLE BOLT	ZINC PLATED STEEL	COMMERICAL
12	TUBE O-RING	EPDM	D2000 NSF61
13	STEM STOP PLATE	ZINC PLATED STEEL	COMMERICAL
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	mm	13.0	19.3	24.9	32.0	38.1	51.1
B	INCH	2.76	3.58	3.98	4.51	5.50	6.44
	mm	70.1	90.9	101.1	114.6	139.7	163.6
C	INCH	1.63	1.92	2.18	2.75	3.46	3.46
	mm	41.4	48.8	55.4	69.9	87.9	87.9
D	INCH	3.55	4.08	4.28	4.53	4.65	5.13
	mm	90.2	103.6	108.7	115.1	118.1	130.3
E	INCH	3.28	4.38	4.38	4.38	6.97	6.97
	mm	83.3	111.3	111.3	111.3	177.0	177.0
F TUBE Ø	INCH	0.63	0.88	1.13	1.38	1.64	2.13
	mm	16.0	22.4	28.7	35.1	41.7	54.1
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	mm	21.1	25.1	25.1	25.9	36.1	40.1
H	THRD SIZE	1/2" NPT	3/4" NPT	1" NPT	1-1/4" NPT	1-1/2" NPT	2" NPT
Cv	GPM	18	40	72	112	161	287
TORQUE	INCH-LB	19	58	69	89	124	210
	N.m	2.1	6.5	7.8	10	14	24
WEIGHT	LBS	0.59	1.11	1.32	2.07	3.30	5.32
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