

 $\otimes \otimes$ Lead Free $\otimes \otimes$

LEAD FREE* VALVES



Ĭ

AHEAD OF THE FLOW®

CATALOG C-LFV-0617

nibcoleadfree.com

A CO MIECO

THE LEAD FREE AUTHORITY









NIBCO® PRESS SYSTEM®

- Wrot copper and cast Performance Bronze
- Size range: 1/2" to 4"

NIBCO® PUSH

- Brass fittings and valves
- Size range: 1/2" to 1"

FLANGES

- 1-piece cast Performance Bronze - Size range: 1" to 6"
- 2-piece copper - Size range: ³/₄" to 6"

NIBCO® PEX PIPING SYSTEMS

- Performance Bronze fittings and valves
- Size range: $\frac{1}{2}$ " to 1"



CPVC-CTS FITTINGS

- Suitable for hot and cold water distribution
- Size range: $\frac{1}{2}$ " to 1"



THE LARGEST VALVE PACKAGE IN THE INDUSTRY

- Performance Bronze ball, gate and check
- Iron butterfly, gate and check
- Plumbing

Visit us at www.nibcoleadfree.com for our full lead-free* offering.

*Weighted average lead content $\leq 0.25\%$

WROT COPPER & CAST PERFORMANCE BRONZE®

- Sweat and thread
- Size range: 1/8" to 8"



AHEAD OF THE FLOW

www.nibco.com

ISO 9001 BUREAU VERITAS

Revised 11/13/2017

COMMERCIAL VALVES

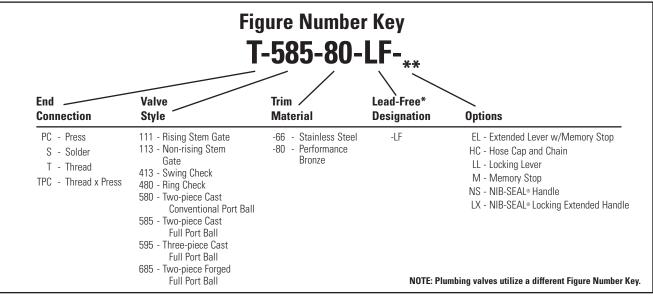
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HydraPure[®] Performance Bronze[®] Commercial Valves

Figure Number Key for Threaded, Solder and Press Ends



*Weighted average lead content < 0.25%

Visit our website for the most current information.

NIBCO INC. WORLD HEADQUARTERS • 1516 MIDDLEBURY ST. • ELKHART, IN 46516-4740 • USA • PH: 1.800.234.0227 TECH SERVICES PH: 1.888.446.4226 • FAX: 1.888.336.4226 • INTERNATIONAL OFFICE PH: +1.574.295.3327 • FAX: +1.574.295.3455

TURN TO EXPERIENCE

AHEAD OF ITS TIME

For over two decades, NIBCO has led the industry in the development of lead-free alloys and commercialization of lead-free plumbing products. NIBCO first introduced a lead-free alloy into the domestic plumbing market in 1992.

INDUSTRY-WIDE CHALLENGE

Reduce the allowable lead content in the Safe Drinking Water Act and other equivalent state regulations from 8% to .25% maximum by weighted average.

NIBCO SOLUTION

NIBCO developed a line of valves produced from Performance Bronze® lead-free alloys, a family of high-quality, time-proven silicon alloys. The mechanical properties of Performance Bronze far exceed traditional plumbing alloys containing lead.

In 2009, NIBCO launched HydraPure® Performance Bronze® products to form a new generation of lead-free valves, fittings and flanges that comply with changing plumbing requirements.

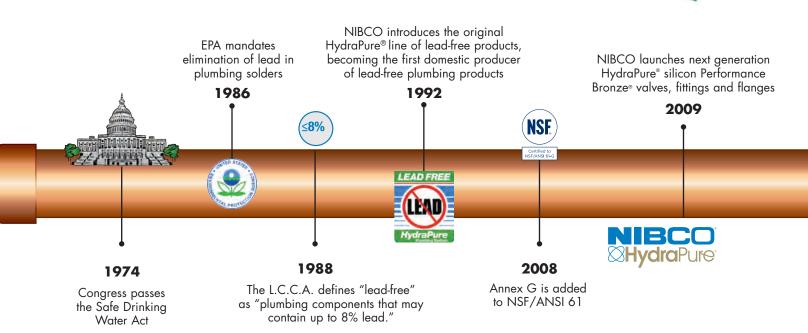
COMPETITIVE ADVANTAGE

Unsurpassed experience, research, development, testing and production of lead-free alloys have given NIBCO the advantage to develop products with proven mechanical strength WE'VE EUNINATED and corrosion resistance.

HISTORICAL PERSPECTIVE

NIBCO originally used copper-bismuth alloy C89844 in its first generation of HydraPure® lead-free products. Introduced in 1992, this leadfree alloy brought NIBCO to the forefront of the industry as the first domestic producer of lead-free plumbing products. Many plumbing valve and fitting manufacturers still use similar alloys today.

To overcome technical limitations of bismuth-based alloys, NIBCO focused on the development of silicon lead-free alloys that have far superior mechanical properties.



Contributing to safe drinking water for America's homes

WHY SILICON LEAD FREE ALLOYS?

BASIC PHYSICAL PROPERTIES

HydraPure® silicon Performance Bronze® exhibits mechanical properties that far exceed traditional plumbing alloys containing lead, especially when temperature is applied. NIBCO provides a series of white papers detailing engineering properties and performance characteristics of lead-free products on its website, nibcoleadfree.com.

CORROSION RESISTANCE

Silicon improves corrosion resistance of copper alloys, creating a largely impenetrable surface oxide barrier to corrosion attack. NIBCO uses third-party agencies to test its HydraPure® silicon Performance Bronze® products for stress corrosion cracking and dezincification corrosion. Data presented confirms performance of actual products produced from the alloys, not theoretical. Letters available at nibcoleadfree.com.

THIRD-PARTY REASSURANCE

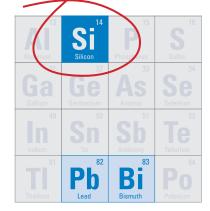
NIBCO® HydraPure® valve products have achieved the highest level of stringent testing (Commercial Hot 180°F) within the NSF/ANSI 61-8 drinking water standard. In addition, HydraPure products are listed to NSF/ANSI 372; Weighted Average Lead Content of Water Contact Components that satisfies new requirements of the Safe Drinking Water Act.

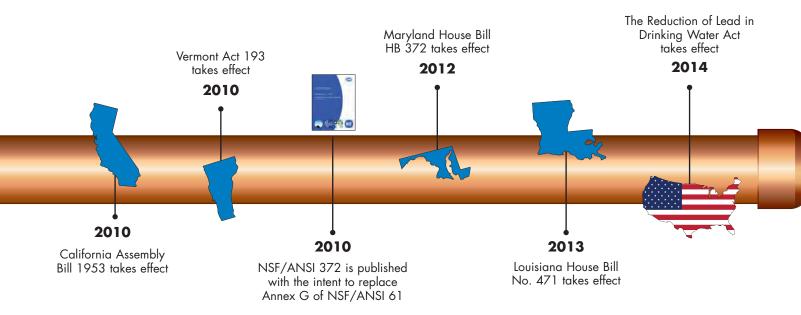
MELTING TEMPERATURE

Elemental silicon melts at 2,572°F. The melting point of silicon is not a factor with respect to alloy application and service as it maintains mechanical strength at elevated temperatures. The melting temperature of bismuth is 520.7°F, which is significantly lower than the melt point for lead, 621.5°F. The lower melt point of bismuth can have a reduction of mechanical strength with soldering, brazing and/or service exposure.

SOURCE OF SUPPLY

Silicon is the second most abundant element within the earth's crust, second only to oxygen. In contrast, the U.S. has no bismuth deposits. Bismuth is only about twice as abundant as gold and is extracted from the earth's crust primarily as a byproduct of lead mining.





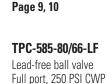
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Lead-Free* Commercial Valves Illustrated Index







T/S-585-80/66-LF

Full port, 600 PSI CWP

Sizes 1/4" thru 2"

Threaded or solder ends

Two-piece lead-free ball valve

Full port, 250 PSI CWP Threaded x press ends Sizes 1/2" thru 2" Page 13, 14

T/S-585-80/66-LF-HC

w/hose cap & chain

Full Port, 600 PSI CWP

Full port, 600 PSI CWP

Sizes 1/4" thru 2-1/2"

Page 21, 22

Threaded or solder ends

Page 17, 18

Two-piece lead-free ball valve

Sizes 1/2" and 3/4" threaded or

solder End w/ 3/4" hose connection

T/S-595-Y-LF or T/S-595-Y-66-LF Three-piece lead-free ball valve







T/S-111-LF Lead-free gate valve Rising stem, 300 PSI CWP Threaded or solder ends Sizes 1/4" thru 3" Page 24



T/S-113-LF Lead-free Gate Valve Non-rising stem, 300 PSI CWP Threaded or solder ends Sizes 1/4" thru 3" Page 26















PC-585-80/66-LF

Two-piece lead-free ball valve Full port, 200 PSI CWP Copper press ends Sizes 1/2" thru 2" Page 11, 12

T/S-580-80/66-LF

Two-piece lead-free ball valve Conventional port, 600 PSI CWP Threaded or solder ends Sizes 1-1/4" thru 3" Page 15, 16

PC-585-80/66-LF-HC

Two-piece lead-free ball valve w/hose cap & chain Full port, 250 PSI CWP Sizes 1/2" and 3/4" press end w/ 3/4" hose connection Page 19, 20

PC-111-LF Lead-free gate valve Rising stem, 250⁺ PSI CWP Threaded or solder ends Sizes 1/2" thru 3"

Page 23

PC-113-LF Lead-free Gate Valve Non-rising stem, 250[†] PSI CWP Threaded or solder ends Sizes 1/2" thru 3" Page 25

T/S-413-Y-LF Lead-free horizontal swing check valve 200 PSI CWP Threaded or solder ends Sizes 1/4" thru 2" Page 27

PC-413-Y-LF

Lead-free horizontal swing check valve 200 PSI CWP Copper Press Ends Sizes 1/2" thru 2" Page 28

*Weighted average lead content ≤ 0.25%

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Lead-Free* Plumbing Valves Illustrated Index



NIBCO

T/S-480-Y-LF

AHEAD OF THE FLOW

Lead-free ring check valve 250 PSI CWP Threaded or solder ends Sizes 1/2" thru 2" Page 29







PCMT-FP-600A-LF

Press end leak detection Two-piece lead-free ball valve Full port, 250 PSI CWP MIP union Sizes 1/2" thru 1" Pages 36



T/S-FP-600A-LF T/S-FP-600-AD-LF

Two-piece lead-free Ball Valve Full port 600 PSI CWP (1/4" - 2") 400 PSI CWP (21/2" - 4") Threaded sizes 1/4" thru 4" Solder sizes 3/8" thru 3" Pages 30-32

PC-FP-600A-LF-W

Press end leak detection Two-piece lead-free ball valve Full port, 250 PSI CWP Wing handle Sizes 1/2" thru 1" Pages 35



PC-FP-600A-LF

225 PSI CWP

Page 33-34

Size 1/2" thru 4"

Press x press female end

Full port, blowout-proof stem Press end leak detection





Press end leak detection Two-piece lead-free ball valve Full port, 250 PSI CWP Side drain / bleeder Sizes 1/2" thru 1" Pages 38

PC-FP-600A-D-LF



PC-FP-600A-LF-HC Press end leak detection

PCT-FP-600A-LF

Press end leak detection

Full port, 250 PSI CWP

Sizes 1/2" thru 1"

FIP union

Pages 37

Two-piece lead-free ball valve

Two-piece lead-free ball valve Full port, 250 PSI CWP 3/4" Hose connection with cap Sizes 1/2" thru 3/4" Pages 39



PCPXA-FP-600A-LF

Press end leak detection Two-piece lead-free ball valve Full port, 250 PSI CWP PEX end F1960 cold expansion Sizes 1/2" thru 2" Pages 40



PCPX-FP-600A-LF

Press end leak detection Two-piece lead-free ball valve Full port, 250 PSI CWP PEX end F1807 crimp Sizes 1/2" thru 2" Pages 41

*Weighted average lead content $\leq 0.25\%$





PCFU-FP-600A-LF

Press end leak detection Two-piece lead-free ball valve Full port, 250 PSI CWP FIP union Sizes 1/2" thru 1" Pages 42



PCMU-FP-600A-LF

Press end leak detection Two-piece lead-free ball valve Full port, 250 PSI CWP MIP union Sizes 1/2" thru 1" **Pages 43**



PCSU-FP-600A-LF Press end leak detection Two-piece lead-free ball valve Full port, 250 PSI CWP Solder union Sizes 1/2" thru 1" Pages 44



T/S-685-80/66-LF S-685-80-D-LF Two-piece lead-free ball valve

Full port, 600 PSI CWP Threaded or solder ends Sizes ¼" thru 2" Solder available with drain (-D) Sizes 1/2" thru 1" Pages 45-47



726-LF/76-LF Lead-free stop & drain valves 125 PSI CWP Threaded or solder ends Sizes 1/2" and 3/4" Page 48



Supply Stops

Quarter-turn Straight or angle style 125 PSI CWP Various end connections Sizes 1/2" thru 5/8" Page 49-53

Identification of Lead-Free* Bronze/Brass Valves Markings and Packaging



NIBCO[®] HydraPure[®] valves can be identified by the double oval symbol and "Si" – indicative of silicon Performance Bronze[®] – cast in the body of the valve.



Lead-Free valves <u>not</u> manufactured from Performance Bronze[®] include an "LF" in the body

White Handles



Blue Carton Labels



*\

*Weighted average lead content $\leq 0.25\%$

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(8)

9

Lead-Free^{*} Bronze Ball Valves

Features: Silicon Performance Bronze[®]Alloy • Two-Piece Body • Full Port • Blowout-Proof Stem Approvals: MSS SP-110 • IAPMO IGC-157 • NSF/ANSI-61-8 Commercial Hot 180°F (includes annex F and G) and NSF/ANSI-372

Size range: 1/4" - 21/2"

NIBC

Pressure rating: 600 PSI non-shock cold working pressure Maximum pressure / temperature: 100 PSI at 300° F

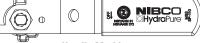
Lead-free* markings: Double oval in body casting, white handle and blue hang tag

	MATERIAL LIST
PART	SPECIFICATION
1. Handle Nut	Zinc Plated Steel
2. Stem	Silicon Bronze ASTM B371 Alloy C69300
3. Pack Gland	Brass ASTM B16 Alloy C36000
4. Packing, Stem	Virgin PTFE
5. Washer, Thrust	Reinforced PTFE
6. Handle	Zinc Plated Steel Clear Chromate Plastisol Coated
7. End Piece	Silicon Bronze ASTM B584 Alloy C87600
8. Seat Ring (2)	Reinforced PTFE
9. Ball	DZR Brass SAE J461 C46500 (¼"-1") Stainless Steel
	ASTM A276 S31600 or ASTM A351 CF8M (11/4"-21/2")
10. Body	Silicon Bronze ASTM B584 Alloy C87600

(10) T-585-80-LF NPT x NPT 8

DIMENSIONS—WEIGHTS—QUANTITIES

		Dimensions																		
		T-585	-80-LF	S-585	-80-LF							T-585	-80-LF	S-585	-80-LF					
	SIZE		4		۹		B		C		D		E		E	T-585	-80-LF	S-585	-80-LF	Master
In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	ln.	mm.	In.	mm.	In.	mm.	Lbs.	Kg.	Lbs.	Kg.	Ctn. Qty.
1/4	8	1.78	45	1.83	46	3.96	101	1.86	47	0.31	8	1.00	25	1.21	31	0.43	0.19	0.40	0.18	24
3/8	10	1.79	45	1.97	50	3.96	101	1.85	47	0.38	10	1.80	46	1.21	31	0.44	0.20	0.41	0.19	24
1/2	15	2.23	57	2.4	61	3.96	101	1.96	50	0.5	13	1.16	29	1.40	36	0.65	0.30	0.56	0.25	80
3⁄4	20	2.78	71	3.16	80	4.76	121	2.28	58	0.75	19	1.68	43	1.66	42	1.20	0.55	1.02	0.46	60
1	25	3.34	85	3.99	101	4.76	121	2.48	63	1	25	2.00	51	2.17	55	1.63	0.74	1.50	0.68	40
11⁄4	32	3.75	95	4.13	105	6.75	171	3.10	79	1.25	32	2.39	61	2.19	56	2.87	1.30	2.41	1.09	20
1½	40	4.26	108	4.97	126	6.75	171	3.32	84	1.5	38	2.89	73	2.79	71	3.83	1.74	3.62	1.64	10
2	65	4.80	122	6.02	153	6.75	171	3.56	90	2	51	3.40	86	3.34	85	5.57	2.53	5.54	2.51	6
21/2	65	6.00	152	7.21	183	8.06	205	4.40	112	2.50	64	4.12	105	4.27	108	13.70	6.21	12.80	5.80	2



S-585-80-LF

СхС

Handle Markings

Solder

øD

Handle Options:

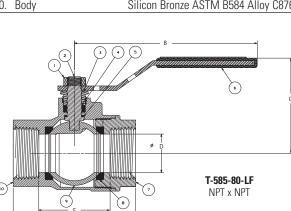
- Stainless Steel Lever •
- NIB-Seal®
- Locking lever
- Stainless Steel Locking Lever
- Memory stop
- Extended lever w/ memory stop
- Round
- Wing Horizontal and vertical chain

Conventional port valve offered in 3" 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.



IEW





NSF/ANSI 6 SF/ANSI 37



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IGC-157

Dezincification

Resistan



DIMENSIONS—WEIGHTS—QUANTITIES Dimensions

			Differisions																		
			T-585	-66-LF	S-585	-66-LF							T-585	-66-LF	S-585	-66-LF					
	S	ZE		4		4		3		0		D		E		<u>E</u>	T-585	-66-LF	S-585	-66-LF	Master
_	ln.	mm.	In.	mm.	ln.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	Lbs.	Kg.	Lbs.	Kg.	Ctn. Qty.
	1⁄4	8	1.78	45	1.83	46	3.96	101	1.86	47	0.31	8	1.00	25	1.21	31	0.43	0.19	0.40	0.18	24
	3/8	10	1.79	45	1.97	50	3.96	101	1.85	47	0.38	10	1.80	46	1.21	31	0.44	0.20	0.41	0.19	24
	1⁄2	15	2.23	57	2.4	61	3.96	101	1.96	50	0.5	13	1.16	29	1.40	36	0.65	0.30	0.56	0.25	80
	3⁄4	20	2.78	71	3.16	80	4.76	121	2.28	58	0.75	19	1.68	43	1.66	42	1.20	0.55	1.02	0.46	60
	1	25	3.34	85	3.99	101	4.76	121	2.48	63	1	25	2.00	51	2.17	55	1.63	0.74	1.50	0.68	40
	1¼	32	3.75	95	4.13	105	6.75	171	3.10	79	1.25	32	2.39	61	2.19	56	2.87	1.30	2.41	1.09	20
	1½	40	4.26	108	4.97	126	6.75	171	3.32	84	1.5	38	2.89	73	2.79	71	3.83	1.74	3.62	1.64	10
	2	65	4.80	122	6.02	153	6.75	171	3.56	90	2	51	3.40	86	3.34	85	5.57	2.53	5.54	2.51	6
)[21⁄2	65.00	6.00	152	7.21	183	8.06	205	4.40	112	2.50	64	4.12	105	4.27	108	13.70	6.21	12.80	5.80	2

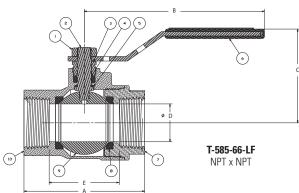
Conventional port valve offered in 3" size

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.

Handle Options:

- Stainless Steel Lever
- . NIB-Seal®
- Locking lever .
- Stainless Steel Locking Lever
- Memory stop •
- Extended lever w/ memory stop
- Round • . Wing
 - Horizontal and vertical chain

*Weighted average lead content $\leq 0.25\%$



	PART	SPECIFICATION
1.	Handle Nut	Zinc Plated Steel
2.	Stem	Stainless Steel ASTM A276 Type 316
3.	Pack Gland	Brass ASTM B16 Alloy C36000
4.	Packing, Stem	Virgin PTFE
5.	Washer, Thrust	Reinforced PTFE
6.	Handle	Zinc Plated Steel Clear Chromate Plastisol Coated
7.	End Piece	Silicon Bronze ASTM B584 Alloy C87600
8.	Seat Ring (2)	Reinforced PTFE
9.	Ball (Vented)	Stainless Steel ASTM A276 Type 316
10.	Body	Silicon Bronze ASTM B584 Alloy C87600

Features: Silicon Performance Bronze® Alloy • Two-Piece Body • Full Port • Blowout-Proof Stem • Stainless Trim • Vented Ball

AHEAD OF THE FLOW

Approvals: MSS SP-110 • IAPMO IGC-157 • NSF/ANSI-61-8 Commercial Hot 180°F (includes annex F and G) and NSF/ANSI-372

Size range: 1/4" - 21/2"

NIBCO

Pressure rating: 600 PSI non-shock cold working pressure Maximum pressure / temperature: 100 PSI at 300° F

Lead-free* markings: Double oval in body casting, white handle and blue hang tag

	MATERIAL LIST
PART	SPECIFICATION
1. Handle Nut	Zinc Plated Steel
2. Stem	Stainless Steel ASTM A276 Type 316
3. Pack Gland	Brass ASTM B16 Alloy C36000
Packing, Stem	Virgin PTFE
5. Washer, Thrust	Reinforced PTFE
6. Handle	Zinc Plated Steel Clear Chromate Plastisol Coated
7. End Piece	Silicon Bronze ASTM B584 Alloy C87600
8. Seat Ring (2)	Reinforced PTFE
9. Ball (Vented)	Stainless Steel ASTM A276 Type 316
10 Dody	Cilicon Dronzo ACTA DEQ4 Allow COZCOO

T-585-66-LF Threaded

10





S-585-66-LF

СхС





S-585-66-LF Solder

Handle Markings





10

NEV





NIBCO® Press System Lead-Free* Bronze Ball Valves

Features: Silicon Performance Bronze® Two-Piece Body • Press Ends Leak Detection • Full Port • Blowout-Proof Stem

Approvals: MSS SP-110 • IAPMO/ANSI Z1157 (IGC-157) • NSF/ANSI-61-8 commercial hot 180°F (includes annex F and G) and NSF/ANSI-372

Size range: ½" - 2½" Pressure rating: 250 PSI non-shock cold working pressure Body design pressure: 600 PSI CWP non-shock cold working pressure Maximum pressure / temperature: 200 PSI at 250° F

Lead-free* markings: Double oval in body casting, white handle and blue hang tag

	Ν	IATERIAL LIST
	PART	SPECIFICATION
1.	Handle Nut	Zinc Plated Steel
2.	Stem	Silicon Bronze ASTM B371 Alloy C69300
3.	Pack Gland	Brass ASTM B16 Alloy C36000
4.	Packing, Stem	PTFE
5.	Thrust Washer	Reinforced PTFE
6.	Handle Assembly	Zinc Plated Steel Clear Chromate Plastisol Coated
7.	Body End	Silicon Bronze ASTM B584 Alloy C87600
8.	Seat Ring (2)	Reinforced PTFE
9.	Ball (vented)	DZR Brass SAE J461 C46500 (¼"-1") Stainless Steel ASTM A276 S31600 or ASTM A351 CF8M (1¼"-2½")
10.	Body	Silicon Bronze ASTM B584 Alloy C87600
11.	Boss seal o-ring (2)	EPDM
12.	O-Ring (2)	EPDM - Leak Detection
13.	Press End Adapter (2)	Wrot Copper ASTM B75 Alloy C12200

Handle Options:

- Stainless Steel Lever
- NIB-Seal®
- Locking lever
- Stainless Steel Locking Lever
- Memory stop
- Extended lever w/ memory stop
- Round
- Wing
- Horizontal and vertical chain



DIMENSIONS—WEIGHTS—QUANTITIES

	SI	ZE		A	E	3	(;		D	E		We	ight
	In.	mm.	Lbs.	Kg.										
	1/2	15	3.93	100	3.96	101	1.96	50	0.50	13	2.53	64	0.80	0.36
	3⁄4	20	5.00	127	4.76	121	2.28	58	0.75	19	3.23	82	1.56	0.71
	1	25	5.61	142	4.76	121	2.48	63	1.00	25	3.84	98	2.13	1.00
	1¼	32	6.23	158	6.76	172	3.10	79	1.25	32	4.21	107	3.73	1.69
	1½	40	7.56	192	6.76	172	3.32	84	1.50	38	4.79	122	5.53	2.51
	2	50	8.40	213	6.76	172	3.56	90	2.00	51	5.36	136	7.95	3.61
/	21⁄2	65	9.49	241	8.06	205	4.33	110	2.50	64	6.55	166	16.20	7.35

NIBCO Press System ball valves are designed to meet MSS SP-110 with the exception of the end connection. Ball valves are down-rated from 600 PSI CWP to 250 PSI CWP to match the Press System. Male and female press-to-connect ends are new technology not yet covered in the current edition of this specification

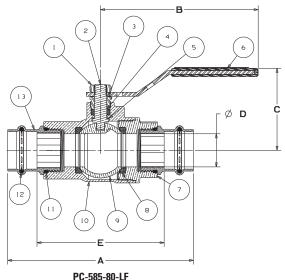
WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www. P65Warnings.ca.gov.

*Weighted average lead content $\leq 0.25\%$





PC-585-80-LF Press x Press Female End



-10-585-80-L РхР AHEAD OF THE FLOW



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NSF/ANSI 372

NSF/ANSI 61 & 372 IAPMO/ANSI 21157

Dezincification

Resistant

NIBCO® Press System Lead-Free* Bronze Ball Valves

Features: Silicon Performance Bronze® Two-Piece Body • Copper Ends • Full Port • Blowout-Proof Stem • Stainless Trim

Approvals: MSS SP-145 • IAPMO/ANSI Z1157 (IGC-157) • NSF/ANSI-61-8 commercial hot 180°F (includes annex F and G) and NSF/ANSI-372

Size range: 1/2" - 21/2"

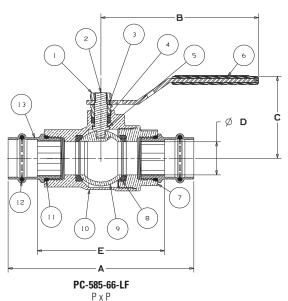
Pressure rating: 250 PSI non-shock cold working pressure Body design pressure: 600 PSI CWP Maximum pressure / temperature: 200 PSI at 250° F

Lead-free* markings: Double oval in body casting, white handle and blue hang tag





PC-585-66-LF Press x Press Female End



Handle Options:

- Stainless Steel Lever
- NIB-Seal[®]
- Locking lever
- Stainless Steel Locking Lever
- Memory stop
- Extended lever w/ memory stopRound
- RoundWing
- VVIIIg
 Horiz
- Horizontal and vertical chain

DIMENSIONS—WEIGHTS—QUANTITIES

SIZE		Α		В		(C)	E		We	ight
In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	Lbs.	Kg.
1/2	15	3.93	100	3.96	101	1.96	50	0.50	13	2.53	64	0.80	0.36
3/4	20	5.00	127	4.76	121	2.28	58	0.75	19	3.23	82	1.56	0.71
1	25	5.61	142	4.76	121	2.48	63	1.00	25	3.84	98	2.13	1.00
1-1/4	32	6.23	158	6.76	172	3.10	79	1.25	32	4.21	107	3.73	1.69
1-1/2	40	7.56	192	6.76	172	3.32	84	1.50	38	4.79	122	5.53	2.51
2	50	8.40	213	6.76	172	3.56	90	2.00	51	5.36	136	7.95	3.61
2-1⁄2	65.00	9.49	241	8.06	205	4.33	110	2.50	64	6.55	166	16.20	7.35

NIBCO Press System ball valves are designed to meet MSS SP-110 with the exception of the end connection. Ball valves are down-rated from 600 PSI CWP to 250 PSI CWP to match the Press System. Male and female press-to-connect ends are new technology not yet covered in the current edition of this specification

MARNING: 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.

*Weighted average lead content ≤ 0.25%

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Handle Markings

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NIBCO® Press System Lead-Free* Bronze Ball Valves

Features: Silicon Performance Bronze® Body • Copper End • Full Port • Blowout-Proof Stem

Approvals: MSS SP-145 • IAPMO/ANSI Z1157 (IGC-157) • NSF/ANSI-61-8 Commercial Hot 180°F (includes annex F and G) and NSF/ANSI-372

Size range: 1/2" - 2" Pressure rating: 250 PSI non-shock cold working pressure Body design pressure: 600 PSI CWP Maximum pressure / temperature: 200 PSI at 250° F

Lead-free* markings: Double oval in body casting, white handle and blue hang tag

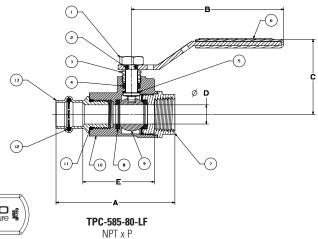
	MATERIAL LIST								
	PART	SPECIFICATION							
1.	Handle Nut	Plated Steel							
2.	Stem	Silicon Bronze ASTM B371 Alloy C69300							
3.	Pack Gland	Brass ASTM B16 Alloy C36000							
4.	Packing, Stem	PTFE							
5.	Thrust Washer	Reinforced PTFE							
6.	Handle Assembly	Plated Steel with Plastisol Coating							
7.	Body End	Silicon Bronze ASTM B584 Alloy C87600							
8.	Seat Ring (2)	Reinforced PTFE							
9.	Ball	Silicon Bronze ASTM B283 Alloy C69300							
10.	Body	Silicon Bronze ASTM B584 Alloy C87600							
11.	Boss seal o-ring	EPDM							
12.	O-Ring	EPDM							
13.	Press End Adapter	Wrot Copper ASTM B75 Alloy C12200							







TPC-585-80-LF Thread x Press Female



Handle Options:

- Stainless steel lever
- NIB-Seal®
- Locking lever
- Stainless steel locking lever
- Memory stop
- Extended lever w/ memory stop
- Round
- Wing
- Horizontal and vertical chain



DIMENSIONS-WEIGHTS

							-													
NOM	SIZE		A	E	3	. (;		D	E	E		-	(G	J	I	We	ight	Master
In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	Lbs.	Kg.	Lbs.	Kg.	Lbs.	Kg.	Ctn. Qty.
1/2	15	3.1	79	3.96	101	1.96	50	0.5	13	1.86	47	1.2	30	0.7	18	5.93	151	0.80	0.36	50
3/4	20	3.96	101	4.76	121	2.28	58	0.75	19	2.45	62	1.56	40	0.96	24	7.33	186	1.35	0.61	30
1	25	4.47	114	4.76	121	2.48	63	1	25	2.92	74	1.97	50	0.89	23	7.56	192	1.90	0.86	20
1-1/4	32	4.99	127	6.76	172	3.1	79	1.25	32	3.3	84	2.31	59	1.01	26	9.86	250	3.20	1.45	12
1-1/2	40	5.9	150	6.76	172	3.32	84	1.5	38	3.84	98	2.84	72	1.39	35	10.53	267	4.40	2.00	6
2	50	6.61	168	6.76	172	3.56	90	2	51	4.38	111	3.54	90	1.51	38	10.94	278	6.45	2.93	6



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.

*Weighted average lead content $\leq 0.25\%$





NIBCO® Press System Lead-Free^{*} Bronze Ball Valves

Features: Silicon Performance Bronze[®] Body • Copper End • Full Port • Blowout-Proof Stem • Stainless Trim

Approvals: MSS SP-145 • IAPMO/ANSI Z1157 (IGC-157) • NSF/ANSI-61-8 Commercial Hot 180°F (includes annex F and G) and NSF/ANSI-372

Size range: 1/2" - 2"

Pressure rating: 250 PSI non-shock cold working pressure Body design pressure: 600 PSI CWP Maximum pressure / temperature: 200 PSI at 250° F

Lead-free* markings: Double oval in body casting, white handle and blue hang tag



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TPC-585-66-LF

Thread x Press

Female

TPC-585-66-LF

NPT x P

(1)

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(•

(13)

MATERIAL LIST PART **SPECIFICATION** 1. Handle Nut Plated Steel Stainless Steel ASTM A276 Type 316 2. Stem Brass ASTM B16 Alloy C36000 3. Pack Gland 4. Packing, Stem PTFE 5. Thrust Washer **Reinforced PTFE** Plated Steel with Plastisol Coating 6. Handle Assembly Silicon Bronze ASTM B584 Alloy C87600 7. Body End **Reinforced PTFE** 8. Seat Ring (2) Stainless Steel ASTM A276 Type 316 9. Ball (vented) Silicon Bronze ASTM B584 Alloy C87600 10. Body Boss seal o-ring EPDM 11. 12. O-Ring EPDM Wrot Copper ASTM B75 Alloy C12200 13. Press End Adapter

Handle Options:

- Stainless Steel Lever
- NIB-Seal®
- Locking lever
- Stainless Steel Locking Lever
- Memory stop
- Extended lever w/ memory stop
- Round
- Wing
- Horizontal and vertical chain



DIMENSIONS—WEIGHTS

NOM	SIZE		4	E	3	(;)	E			-		G	J		We	ight	Master
In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	Lbs.	Kg.	Lbs.	Kg.	Lbs.	Kg.	Ctn. Qty.
1/2	15	3.1	79	3.96	101	1.96	50	0.5	13	1.86	47	1.2	30	0.7	18	5.93	151	0.80	0.36	50
3/4	20	3.96	101	4.76	121	2.28	58	0.75	19	2.45	62	1.56	40	0.96	24	7.33	186	1.35	0.61	30
1	25	4.47	114	4.76	121	2.48	63	1	25	2.92	74	1.97	50	0.89	23	7.56	192	1.90	0.86	20
1-1/4	32	4.99	127	6.76	172	3.1	79	1.25	32	3.3	84	2.31	59	1.01	26	9.86	250	3.20	1.45	12
1-1/2	40	5.9	150	6.76	172	3.32	84	1.5	38	3.84	98	2.84	72	1.39	35	10.53	267	4.40	2.00	6
2	50	6.61	168	6.76	172	3.56	90	2	51	4.38	111	3.54	90	1.51	38	10.94	278	6.45	2.93	6

MARNING: 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.

*Weighted average lead content ≤ 0.25%



- - Round (up to 21/2")
 - Horizontal and vertical chain (up to 2-1/2")

Lead-Free* Bronze Ball Valves

AHEAD OF THE FLOW

NIBCO

Features: Silicon Performance Bronze[®] Alloy • Two-Piece Body • Conventional Port • Blowout-Proof Stem

Approvals: MSS SP-110 • IAPMO IGC-157 • NSF/ANSI-61-8 Commercial Hot 180°F (includes annex F and G) and NSF/ANSI-372

Size range: 1-1/4" - 3" Pressure rating: 600 PSI non-shock cold working pressure Maximum pressure / temperature: 100 PSI at 300° F

Lead-free* markings: Double oval in body casting, white handle and blue hang tag

	MATERIAL LIST
PART	SPECIFICATION
1. Nut, Handle	Steel, Plated
2. Stem	Silicon Bronze ASTM B371 Alloy C69300
3. Pack Gland	Brass ASTM B16 Alloy C36000
4. Packing, Stem	Virgin PTFE
5. Washer, Thrust	Reinforced PTFE
6. Handle	Steel, Plated Plastisol Coated
7. End Piece	Silicon Bronze ASTM B584 Alloy C87600
8. Seat Ring	Reinforced PTFE
9. Ball	Silicon Bronze ASTM B283 Alloy C69300
10. Body	Silicon Bronze ASTM B584 Alloy C87600

Ø 0 T-580-80-LF 6 NPT x NPT

Handle Options:

• NIB-Seal® (up to 2-1/2") • Extended lever w/ memory stop

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- Locking lever
- · Memory stop

DIMENSIONS—WEIGHTS—QUANTITIES

	Dimensions T-580-80-LF S-580-80-LF S-580-80-20-80-LF S-580-80-20-20-20-80-20-20-20-80-20-20-20-80-20-20-20-80-20-20-20-80-20-20-20-80-20-20-20-80-20-20-20-80-20-20-20-80-20-80-20-80-20-80-20-80-20-80-80-80-20-80-80-80-20-80-80-80-20-80-80-80-20-80-80-80-80-80-80-80-80-80-80-80-80-80																													
		T-580-80-LF S-580-80-LF										T-580	-80-LF	S-580	-80-LF			T-580	-80-LF	S-580	-80-LF	T-580	-80-LF	S-580	-80-LF	-				
SI	ZE		1		4		3	(;		D		E		E		F		G		G		J		J	T-580	-80-LF	S-580	-80-LF	Master
In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	ln.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	Lbs.	Kg.	Lbs.	Kg.	Ctn. Qty.
1-1/4	32	3.54	90	3.9	99	4.76	121	2.48	63	1.00	25	2.18	55	1.96	50	2.09	53	0.68	17	0.97	25	6.53	166	6.69	170	2.17	0.98	1.78	0.81	20
1-1/2	40	3.75	95	4.51	115	6.75	171	3.09	78	1.25	32	2.39	61	2.33	59	2.46	62	0.68	17	1.09	28	8.62	219	8.99	228	3.27	1.48	2.87	1.30	20
2	50	4.30	109	5.49	139	6.75	171	3.32	84	1.50	38	2.90	74	2.81	71	2.95	75	0.70	18	1.34	34	8.90	226	9.49	241	5.09	2.31	4.60	2.08	10
2-1/2	65	5.43	138	6.34	161	6.75	171	3.56	90	2.00	51	3.55	90	3.40	86	3.75	95	0.94	24	1.47	37	9.46	240	9.89	251	8.25	3.74	8.18	3.71	6
3†	80	6.16	156	7.53	191	8.06	205	4.40	112	2.50	64		_	4.21	107	6.61	168	1.02	26	1.66	42	11.14	283	11.83	300	14.62	7.00	13.75	6.00	4

†Patent Pending

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.

*Weighted average lead content $\leq 0.25\%$



HydraPure Revised 11/10/2017

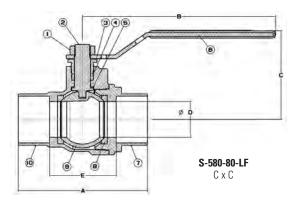


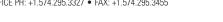


S-580-80-LF Solder



Handle Markings





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EAD OF THE FLOW

Lead-Free^{*} Bronze Ball Valves

Features: Silicon Performance Bronze® Alloy • Two-Piece Body • Conventional Port • Blowout-Proof Stem • Stainless Trim • Vented Ball

Approvals: MSS SP-110 • IAPMO IGC-157 • NSF/ANSI-61-8 Commercial Hot 180°F (includes annex F and G) and NSF/ANSI-372

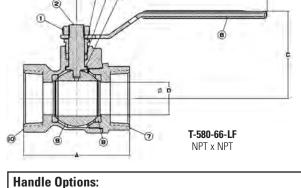
Size range: 1-1/4" - 3"

NIBC

Pressure rating: 600 PSI non-shock cold working pressure Maximum pressure / temperature: 100 PSI at 300° F

Lead-free* markings: Double oval in body casting, white handle and blue hang tag

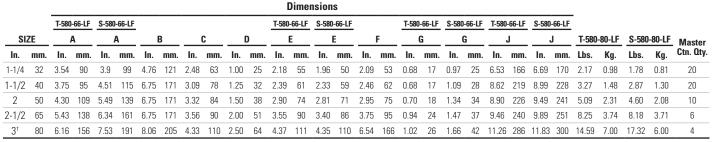
		MATERIAL LIST
	PART	SPECIFICATION
1.	Nut, Handle	Steel, Stainless
2.	Stem	Stainless Steel ASTM A276 Type 316
3.	Pack Gland	Brass ASTM B16 Alloy C36000
4.	Packing, Stem	Virgin PTFE
5.	Washer, Thrust	Reinforced PTFE
6.	Handle	Steel, Plated Plastisol Coated
7.	End Piece	Silicon Bronze ASTM B584 Alloy C87600
8.	Seat Ring	Reinforced PTFE
9.	Ball (Vented)	Stainless Steel ASTM A276 Type 316
10.	Body	Silicon Bronze ASTM B584 Alloy C87600



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 NIB-Seal® (up to 2-1/2") 	•	Extended lever w/ memory stop
 Locking lever 	•	Round (up to 2-1/2")
Looking lovel	_	I levisentel and continuing the in from the O 1/

 Horizontal and vertical chain (up to 2-1/2") Memory stop



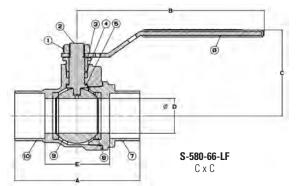
†Patent Pending

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.

*Weighted average lead content $\leq 0.25\%$



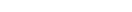




DIMENSIONS—WEIGHTS—QUANTITIES









Lead-Free^{*} Bronze Ball Valves

Features: Silicon Performance Bronze[®] Alloy • Two-Piece Body • Full Port • 3/4" Hose Connection with Cap and Chain • Blowout-Proof Stem

Approvals: MSS SP-110 • NSF/ANSI-61-9 and NSF/ANSI-372

Size range: 1/2" & 3/4" Pressure rating: 600 PSI non-shock cold working pressure

Lead-free* markings: Double oval in body casting, white handle and blue hang tag

		MATERIAL LIST
	PART	SPECIFICATION
1.	Handle Nut	Steel, Plated
2.	Stem	Silicon Bronze ASTM B371 Alloy C69300
3.	Pack Gland	Brass ASTM B16 Alloy C36000
4.	Packing, Stem	Virgin PTFE
5.	Thrust Washer	Reinforced PTFE
6.	Handle	Steel, Plated Plastisol Coated
7.	Hose Body End	Silicon Bronze ASTM B371 Alloy C69300
8.	Seat Ring (2)	Reinforced PTFE
9.	Ball	Silicon Bronze ASTM B283 Alloy C69300
10.	Body	Silicon Bronze ASTM B584 Alloy C87600
11.	¹Сар	Die Cast Brass, EPDM Gasket
12.	Pop Rivet	Stainless Steel

¹ Cap is for hose end thread protection only. Not to be used for pressure containing purposes

Note: valves designed to MSS SP 110 with exception of the hose end connection which is not covered by the standard.

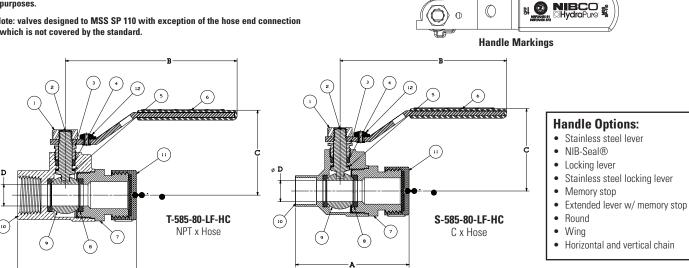
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DIMENSIONS—WEIGHTS—QUANTITIES

												Thr	ead	Sol	der							
SI	ZE		4	E	3	(;		D		<u>E</u>		F		F	(3	Thr	ead	Sol	der	Master
In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	Lbs.	Kg.	Lbs.	Kg.	Ctn Qty.
1/2	15	2.74	70	3.96	101	1.96	50	0.5	13	5.06	129	1.57	40	1.31	33	0.53	13	0.80	0.36	0.74	0.34	100
3/4	20	3.14	80	4.76	121	2.28	58	0.75	19	6.15	156	1.98	50	1.71	43	0.55	14	1.46	0.66	1.42	0.65	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.

*Weighted average lead content $\leq 0.25\%$



T-585-80-LF-HC Threaded x Hose



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Dezincification Resistant

S-585-80-LF-HC Solder x Hose







Lead-Free* Bronze Ball Valves

AHEAD OF THE FLOW

Features: Silicon Performance Bronze® Alloy • Two-Piece Body • Full Port Stainless Trim • 3/4" Hose Connection with Cap and Chain • Blowout-Proof Stem

Approvals: MSS SP-110 • NSF/ANSI-61-9 and NSF/ANSI-372

Size range: 1/2" & 3/4" Pressure rating: 600 PSI non-shock cold working pressure

NIBCO

Lead-free* markings: Double oval in body casting, white handle and blue hang tag

	MA	FERIAL LIST
	PART	SPECIFICATION
1.	Handle Nut	Steel, Plated
2.	Stem	Stainless Steel ASTM A 276 Type 316
3.	Pack Gland	Brass ASTM B16 Alloy C36000
4.	Packing, Stem	Virgin PTFE
5.	Thrust Washer	Reinforced PTFE
6.	Handle	Steel, Plated Plastisol Coated
7.	Hose Body End	Silicon Bronze ASTM B371 Alloy C69300
8.	Seat Ring (2)	Reinforced PTFE
9.	Ball	Stainless Steel ASTM A 276 Type 316 or ASTM A 351 Type CF8M
10.	Body	Silicon Bronze ASTM B584 Alloy C87600
11.	¹ Cap	Die Cast Brass, EPDM Gasket
12.	Pop Rivet	Stainless Steel

¹ Cap is for hose end thread protection only. Not to be used for pressure containing purposes.

Note: valves designed to MSS SP 110 with exception of the hose end connection which is not covered by the standard.

Handle Options: Round T-585-66-LF-HC (10 S-585-66-LF-HC

· Horizontal and vertical chain

DIMENSIONS—WEIGHTS—QUANTITIES

																	We	ight		
SI	ZE		4	E	3	()		D		E		F	(3	Thr	ead	Sol	der	Master
In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	Lbs.	Kg.	Lbs.	Kg.	Ctn Qty.
1/2	15	2.74	70	3.96	101	1.96	50	0.5	13	5.06	129	1.19	30	0.53	13	0.80	0.36	0.74	0.34	100
3/4	20	3.14	80	4.76	121	2.28	58	0.75	19	6.15	156	1.71	43	0.55	14	1.46	0.66	1.42	0.65	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.



NSF/ANSI 6





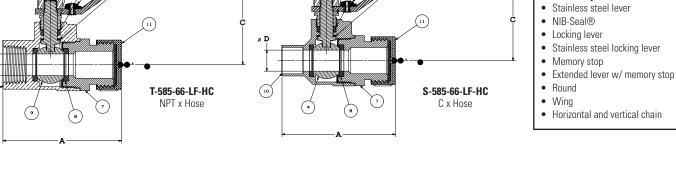


S-585-66-LF-HC

Solder x Hose

NIBCO ©HydraPure 0 \bigcirc 비 C **Handle Markings**

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*Weighted average lead content $\leq 0.25\%$



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NIBCO® Press System Lead-Free* Bronze Ball Valves

Features: Silicon Performance Bronze[®] Alloy • Two-Piece Body • Full Port • Blowout-Proof Stem • Copper End x 3/4" Hose Connection with Cap and Chain

Approvals: MSS SP-145 • IAPMO/ANSI Z1157 (IGC-157) • NSF/ANSI-61-9 and NSF/ANSI-372

Size range: 1/2" & 3/4" Pressure rating: 250 PSI non-shock cold working pressure

Lead-free* markings: Double oval in body casting, white handle and blue hang tag

	Μ	ATERIAL LIST
	PART	SPECIFICATION
1.	Handle Nut	Zinc Plated Steel
2.	Stem	Silicon Bronze ASTM B371 Alloy C69300
3.	Pack Gland	Brass ASTM B16 Alloy C36000
4.	Packing	PTFE
5.	Thrust Washer	Reinforced PTFE
6.	Handle Assembly	Zinc Plated Steel with Plastisol Coating
7.	Hose Body End	Silicon Bronze ASTM B371 Alloy C69300
8.	Ball	Silicon Bronze ASTM B283 Alloy C69300
9.	Seat Ring (2)	Reinforced PTFE
10.	Body	Silicon Bronze ASTM B584 Alloy C87600
11.	Boss seal o-ring	EPDM
12.	O-Ring	EPDM
13.	Press End Adapter	Wrot Copper ASTM B75 Alloy C12200
14.	Cap ¹	Die Cast Brass, EPDM Gasket
15.	Pop Rivet	Stainless Steel

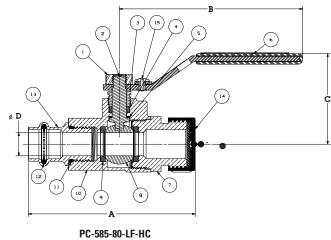


Dezincification Resistant



PC-585-80-LF-HC

Press Female x Hose End



C-585-80-LF-HC P x Hose

¹ Cap is for hose end thread protection only. Not to be used for pressure containing purposes.

Handle Options:

- Stainless steel lever
- NIB-Seal®
- Locking lever
- Stainless steel locking lever
- Memory stop
- Extended lever w/ memory stop
- Round
- Wing
- Horizontal and vertical chain



DIMENSIONS—WEIGHTS—QUANTITIES

SI	ZE		1	E	3	(;		D	I	E		F	(G	Wei	ight
In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	Lbs.	Kg.
1/2	15	3.61	92	3.76	96	1.96	50	0.50	13	5.93	151	1.53	39	0.70	18	12.70	0.42
3/4	20	4.32	110	4.76	121	2.28	58	0.75	19	7.28	185	1.95	50	0.96	24	1.70	0.77

MARNING: 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.

*Weighted average lead content < 0.25%





NIBCO® Press System Lead-Free* Bronze Ball Valves

Features: Silicon Performance Bronze[®] Alloy • Two-Piece Body • Full Port • Stainless Trim • Blowout-Proof Stem • Copper Ends x 3/4" Hose Connection with Cap and Chain

Approvals: MSS SP-145 • IAPMO/ANSI Z1157 (IGC-157) • NSF/ANSI-61-9 and NSF/ANSI-372

Size range: 1/2" & 3/4" Pressure rating: 250 PSI non-shock cold working pressure

Lead-free* markings: Double oval in body casting, white handle and blue hang tag

JPC)	$\overline{\mathcal{T}}$
C B NSF/ANSI 61 8 372 APMO/ANSI 21157	NSF/ANSI 61 NSF/ANSI 372
Dezincification	Syear 12.5%

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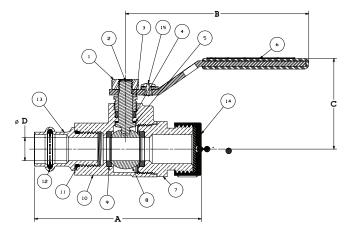
Resistant





PC-585-66-LF-HC

Press Female x Hose End



PC-585-66-LF-HC P x Hose

DIMENSIONS—WEIGHTS—OUANTITIES

_																	
S	SIZE A		B C		0	D			E		F		G	We	ight		
In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	Lbs.	Kg.
1/2	15	3.61	92	3.76	96	1.96	50	0.50	13	5.93	151	1.31	33	0.70	18	0.92	0.42
3/4	20	4.32	110	4.76	121	2.28	58	0.75	19	7.28	185	1.62	41	0.96	24	1.70	0.77

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.

*Weighted average lead content < 0.25%

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Handle Markings

containing purposes.

Handle Options:

NIB-Seal® Locking lever

Memory stop

Round

Wina

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Stainless steel lever

Stainless steel locking lever

Horizontal and vertical chain

Extended lever w/ memory stop



Dezincification Resistant

Lead-Free* Three Piece Bronze Ball Valves

Features: Silicon Performance Bronze[®] Alloy • Three-Piece Body • Full Port • Blowout-Proof Stem

Approvals: MSS SP-110 • NSF/ANSI-61-8 Commercial Hot 180°F (includes annex F and G) and NSF/ANSI-372

Size range: 1/4" - 2-1/2" Prossure rating: 600 PSI pop_she

Pressure rating: 600 PSI non-shock cold working pressure Maximum pressure / temperature: 100 PSI at 300° F

Lead-free* markings: Double oval in body casting, white handle and blue hang tag

	Ν	/IATERIAL LIST
	PART	SPECIFICATION
1.	Handle	Steel, Plated Plastisol Coated
2.	Handle Nut	Zinc Plated Steel
3.	Stem	Silicon Bronze ASTM B371 Alloy C69300
4.	Threaded Pack Gland	Brass ASTM B16 Alloy C36000
5.	Packing	PTFE
6.	Thrust Washer	Reinforced PTFE
7.	Body Bolts	Zinc Dichromate Plated Steel ASTM A449 Grade 5
8.	Body End (2)	Silicon Bronze ASTM B584 Alloy C87850
9.	Ball	Silicon Bronze ASTM B283 Alloy C69300
		or Stainless Steel ASTM A276 Type 316
10.	Body	Silicon Bronze ASTM B584 Alloy C87850
11.	O-Ring Seal (2)	FKM
12.	Seat Ring (2)	PTFE
13.	Body Nuts	Zinc Dichromate Plated Steel ASTM A449 Grade 5
14.	Handle Sleeve	Zinc Plated Steel



T-595-Y-LF

Threaded

NSF/ANSI 61

NSF/ANSI 372

S-595-Y-LF Solder

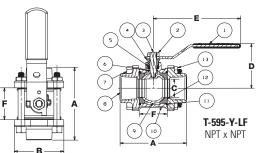
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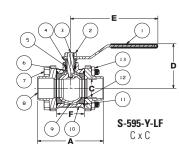
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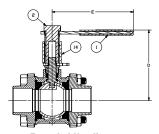
Handle Markings

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Note: valves are static grounded by a grounding washer. (Not Shown)







Extended Handle Representation for Suffix -EL

DIMENSIONS—WEIGHTS—QUANTITIES

			Dimensions																					
		T-595	i-Y-LF	S-59	95-Y-L	F						w/E	xtend	led Ha	ndle									
Si	ze		4		A	E	B		C		D		D	E			E		F	T-595	-Y-LF	S-595-	Y-LF	Master
ln.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	Lbs_	Kg	<u>hs</u>	Kg_	Ctn. Qty.
1⁄4	8	2.50	64	1.69	43	1.81	46	.38	10	1.69	43	2.80	71	3.82	97	3.91	99	1.13	29	1.03	.47	.89	.40	50
3⁄8	10	2.50	64	1.81	46	1.81	46	.38	10	1.69	43	2.79	71	3.82	97	3.91	99	1.13	29	.98	.44	.89	.40	50
1/2	15	2.50	64	2.06	52	1.81	46	.50	13	1.69	43	2.79	71	3.82	97	3.91	99	1.13	29	1.03	.47	.89	.40	50
3⁄4	20	3.00	76	2.94	75	1.94	49	.75	19	2.00	51	3.13	79	3.82	97	4.66	118	1.44	37	1.70	.77	1.59	.72	30
1	25	3.69	94	3.66	93	2.50	64	1.00	25	2.25	57	3.32	84	3.82	97	4.66	118	1.84	47	2.82	1.28	2.55	1.15	20
1 1⁄4	32	4.09	104	3.91	99	2.69	68	1.25	32	2.75	70	3.83	97	5.45	138	6.69	170	1.97	50	3.96	1.80	3.61	1.64	10
1 1/2	40	4.56	116	4.60	117	3.00	76	1.50	38	2.97	75	4.06	103	5.45	138	6.69	170	2.38	60	5.68	2.57	5.31	2.41	10
2	50	6.16	156	5.78	147	4.00	102	2.00	51	3.63	92	4.30	109	5.45	138	6.69	170	3.06	78	11.40	5.17	10.60	4.81	4
2 1/2	65	6.84	174	6.94	176	5.00	127	2.50	64	4.09	104	5.51	140	8.03	204	8.00	203	4.00	102	21.07	9.56	19.30	8.75	2

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.

*Weighted average lead content $\leq 0.25\%$

NIBCO INC. WORLD HEADQUARTERS • 1516 MIDDLEBURY ST. • ELKHART, IN 46516-4740 • USA • PH: 1.800.234.0227 TECH SERVICES PH: 1.888.446.4226 • FAX: 1.888.336.4226 • INTERNATIONAL OFFICE PH: +1.574.295.3327 • FAX: +1.574.295.3455 www.nibco.com



Lead-Free* Three Piece Bronze Ball Valves

Features: Silicon Performance Bronze® Alloy • Three-Piece Body • Full Port • 316SS Trim • Blowout-Proof Stem • Vented Ball

Approvals: MSS SP-110 • NSF/ANSI-61-8 Commercial Hot 180°F (includes annex F and G) and NSF/ANSI-372

Size range: 1/4" - 2-1/2" Pressure rating: 600 PSI non-shock cold working pressure Maximum pressure / temperature: 100 PSI at 300° F

Lead-free* markings: Double oval in body casting, white handle and blue hang tag

	MATERIAL LIST												
	PART	SPECIFICATION											
1.	Handle	Steel, Plated Plastisol Coated											
2.	Handle Nut	Stainless Steel 300 Series											
3.	Stem	Stainless Steel ASTM A276 Type 316											
4.	Threaded Pack Gland	Brass ASTM B16 Alloy C36000											
5.	Packing	PTFE											
6.	Thrust Washer	Reinforced PTFE											
7.	Body Bolts	Zinc Dichromate Plated Steel ASTM A449 Grade 5											
8.	Body End (2)	Silicon Bronze ASTM B584 Alloy C87850											
9.	Ball (Vented)	Stainless Steel ASTM A276 Type 316											
10.	Body	Silicon Bronze ASTM B584 Alloy C87850											
11.	O-Ring Seal (2)	FKM											
12.	Seat Ring (2)	PTFE											
13.	Body Nuts	Zinc Dichromate Plated Steel ASTM A449 Grade 5											

Note: valves are static grounded by a grounding washer (not shown).

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T-595-Y-66-LF

NPT x NPT



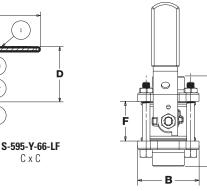
T-595-Y-66-LF Threaded

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S-595-Y-66-LF Solder





DIMENSIONS—WEIGHTS—QUANTITIES

		<u>T-595-</u>	<u>Y-66-LF</u>	S-595	-Y-66-L	F		Dimer	nsions	3						_				
Si	ze		A		Α		В		C		D		E	F		T-595-S	S-Y-LF	S-595-	Y-66-LF	Master
In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	Lbs.	Kg.	Lbs.	Kg.	Ctn. Qty.
1/4	8	2.50	64	1.69	43	1.81	46	.38	10	1.69	43	3.91	99	1.13	29	1.03	.47	.89	.40	50
3⁄8	10	2.50	64	1.81	46	1.81	46	.38	10	1.69	43	3.91	99	1.13	29	.98	.44	.89	.40	50
1/2	15	2.50	64	2.06	52	1.81	46	.50	13	1.69	43	3.91	99	1.13	29	1.03	.47	.89	.40	50
3⁄4	20	3.00	76	2.94	75	1.94	49	.75	19	2.00	51	4.66	118	1.44	37	1.70	.77	1.59	.72	30
1	25	3.69	94	3.66	93	2.50	64	1.00	25	2.25	57	4.66	118	1.84	47	2.82	1.28	2.55	1.15	20
1 1⁄4	32	4.09	104	3.91	99	2.69	68	1.25	32	2.75	70	6.69	170	1.97	50	3.96	1.80	3.61	1.64	10
1 1/2	40	4.56	116	4.60	117	3.00	76	1.50	38	2.97	75	6.69	170	2.38	60	5.68	2.57	5.31	2.41	10
2	50	6.16	156	5.78	147	4.00	102	2.00	51	3.63	92	6.69	170	3.06	78	11.40	5.17	10.60	4.81	4
2 1/2	65	6.84	174	6.94	176	5.00	127	2.50	64	4.09	104	8.00	203	4.00	102	21.07	9.56	19.30	8.75	2

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.

*Weighted average lead content $\leq 0.25\%$







NSF/ANSI 61 NSF/ANSI 372





NIBCO® Press System Lead-Free* Bronze Gate Valves

Features: Silicon Performance Bronze® Alloy • Screw-In Bonnet • Rising Stem

• Conforms to MSS SP-139 • Solid Wedge • Press Ends Leak Detection

Approvals: NSF/ANSI-61-8 Commercial Hot 180°F (includes Annex F and G) and NSF/ANSI-372

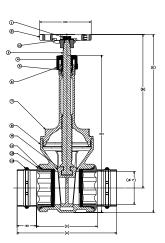
Size range: 1/2" - 3" Pressure rating: 250⁺ PSI non-shock cold working pressure Maximum pressure / temperature: 180 PSI at 200° F

Lead-free* markings: Double oval in body casting, white handle and blue hang tag

	MATERIAL LIST												
	PART	SPECIFICATION											
1.	Handwheel Nut	300 Series Stainless Steel											
2.	Handwheel	Malleable Iron ASTM A47, 35018											
3.	Stem	Silicon Bronze ASTM B371 Alloy C69430											
4.	Packing Gland	ASTM B16 C36000											
5.	Stem Packing	Aramid Fibers with Graphite											
6.	Packing Nut	ASTM B16 C36000											
7.	Bonnet	Silicon Bronze ASTM B584 Alloy C87850											
8.	Body	Silicon Bronze ASTM B584 Alloy C87850											
9.	Wedge	Silicon Bronze ASTM B584 Alloy C87850											
10.	Identification Plate	Aluminum											
11.	Boss seal o-ring (2)	EPDM											
12.	Press End Adapter (2)	Wrot Copper ASTM B75 Alloy C12200											
13.	Leak Detect O-Ring (2)	EPDM											







PC-111-LF Press x Press Female End

DIMENSIONS—WEIGHTS—QUANTITIES

SI	ZE		A		B		C	[<u> </u>			F		G		H	Weight		Master	
In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	Lbs.	Kg.	Ctn Qty.
1/2†	15	3.68	93.47	4.85	123	2.28	57.9	3.92	100	4.82	122	0.5	13	0.7	17.78	2.44	62	0.96	0.43	50
3⁄4	20	4.28	108.7	5.89	150	2.36	60	4.93	125	5.74	146	0.75	19	0.96	24	2.44	62	1.38	0.62	25
1	25	4.62	117.3	7.21	183	2.85	72.4	5.95	151	6.93	176	1.00	25	0.88	22.35	3.19	81	2.18	0.99	20
1-1⁄4	32	5.1	129.5	8.20	208	3.08	78.23	6.69	170	7.84	199	1.25	32	1.01	25.65	3.19	81	3.15	1.43	10
1-1/2	40	6.18	157	9.40	239	3.41	86.6	7.51	191	8.94	227	1.50	38	1.38	35	4.42	112.3	4.5	2.04	10
2	50	6.44	163.6	11.54	293	3.42	86.9	9.65	245	10.84	275	2.00	51	1.51	38.3	4.42	112.3	6.7	3.04	4
2-1/2	65	7.56	192	14.4	366	4.62	117.3	11.86	301	13.52	343	2.50	64	1.47	37.3	4.42	112.3	11.9	5.4	4
3	80	8.49	215.6	16.6	422	5.17	131.3	13.89	353	15.65	398	3.00	76	1.66	42.2	5.28	134.1	18.6	8.44	4

†200 PSI for 2 1/2" and 3"

‡No packing gland, packing only in this size.

MARNING: 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.

*Weighted average lead content ≤ 0.25%



Features: Silicon Performance Bronze[®] Alloy • Screw-In Bonnet • Rising Stem

Approvals: Conforms to MSS SP-139 • Solid Wedge • NSF/ANSI-61-8 Commercial Hot 180°F (includes annex F and G) and NSF/ANSI-372

Size range: 1/4" - 3" Pressure rating: 300 PSI non-shock cold working pressure Maximum pressure / temperature: 100 PSI at 300° F

Lead-free* markings: Double oval in body casting, white handle and blue hang tag

	MA	FERIAL LIST
	PART	SPECIFICATION
1.	Handwheel Nut	300 Series Stainless Steel
2.	Identification Plate	Aluminum
3.	Handwheel	Malleable Iron ASTM A47
4.	Stem	Silicon Bronze ASTM B371 Alloy C69430 or ASTM B99 Alloy C65100
5.	Packing Nut	Bronze ASTM B62 or ASTM B584 Alloy C84400 or Brass ASTM B16
6.	Packing Gland	Bronze ASTM B62 or ASTM B584 Alloy C84400 or Brass ASTM B16
7.	Packing	Aramid Fibers with Graphite
8.	Bonnet	Silicon Bronze ASTM B584 Alloy C87850
9.	Body	Silicon Bronze ASTM B584 Alloy C87850
10.	Wedge	Silicon Bronze ASTM B584 Alloy C87850

DIMENSIONS—WEIGHTS—QUANTITIES

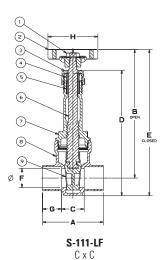
SI	ZE		4	E	3	(;)	E			F	(G	T-111-LF		Master
In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	Lbs.	Kg.	Ctn Qty.
1/4†	8	1.68	43	5.12	130	0.88	22	3.62	92	4.54	115	0.31	8	0.38	10	0.75	0.34	50
3/8†	10	1.68	43	5.20	132	0.84	21	3.62	92	4.56	116	0.38	10	0.42	11	0.72	0.33	50
1/2†	15	1.94	49	4.85	123	0.86	22	3.92	100	4.82	122	0.5	13	0.54	14	0.83	0.38	50
3/4	20	2.06	52	5.89	150	0.92	23	4.93	125	5.74	146	0.75	19	0.57	14	1.13	0.51	50
1	25	2.44	62	7.21	183	1.04	26	5.95	151	6.93	176	1.00	25	0.70	18	1.88	0.86	30
1-1/4	32	2.62	67	8.20	208	1.20	30	6.69	170	7.84	199	1.25	32	0.71	18	2.53	1.15	20
1-1/2	40	2.88	73	9.40	239	1.38	35	7.51	191	8.94	227	1.50	38	0.75	19	3.57	1.62	10
2	50	3.06	78	11.54	293	1.48	38	9.65	245	10.84	275	2.00	51	0.79	20	5.28	2.39	10
2-1/2	65	4.12	105	14.40	366	1.84	47	11.86	301	13.52	343	2.50	64	1.14	29	10.26	4.66	5
3	80	4.50	114	16.60	422	2.10	53	13.89	353	15.65	398	3.00	76	1.20	30	14.72	6.67	4
SI	ZE		4	E	3	(;	[)	E			F	(G	S-11	1-LF	Master
In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	Lbs.	Kg.	Ctn Qty.
1/2+	15	1.75	44	5.46	139	0.75	19	3.88	99	4.80	122	0.50	13	0.50	13	0.69	0.31	50
3/4	20	2.38	60	5.89	150	0.88	22	4.93	125	5.74	146	0.75	19	0.75	19	1.02	0.47	50
1	25	2.82	72	7.21	183	1.00	25	5.87	149	6.85	174	1.00	25	0.91	23	1.68	0.76	30
1-1/4	32	3.12	79	8.20	208	1.18	30	6.69	170	7.84	199	1.25	32	0.97	25	2.39	1.08	20
1-1/2	40	3.42	87	9.40	239	1.24	31	7.48	190	8.91	226	1.50	38	1.09	28	3.25	1.47	10
2	50	4.00	102	11.54	293	1.31	33	9.60	244	10.78	274	2.00	51	1.34	34	4.97	2.25	10

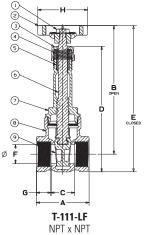
†No packing gland, packing only in this size.

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.

T-111-LF Threaded

*Weighted average lead content $\leq 0.25\%$







Dezincification

Resistant



NSF/ANSI 61

NSF/ANSI 372

S-111-LF Solder





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NIBCO[®] Press System Lead-Free^{*} Bronze Gate Valves

Features: Silicon Performance Bronze® Alloy • Screw-In Bonnet • Non-Rising Stem

Press Ends Leak Detection

Approvals: Conforms to MSS SP-139 • Solid Wedge • NSF/ANSI-61-8 Commercial Hot 180°F (includes Annex F and G) and NSF/ANSI-372

Size range: 1/2" - 3" Pressure rating: 250⁺ PSI non-shock cold working pressure Maximum pressure / temperature: 180 PSI at 200° F

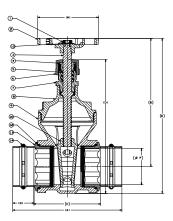
Lead-free* markings: Double oval in body casting, white handle and blue hang tag



M													
PART	SPECIFICATION												
1. Handwheel Nut	300 Series Stainless Steel												
2. Handwheel	Malleable Iron ASTM A47, 35018												
3. Stem	Silicon Bronze ASTM B371 Alloy C69430												
4. Packing Gland	ASTM B16 C36000												
5. Stem Packing	Aramid Fibers with Graphite												
6. Packing Nut	ASTM B16 C36000												
7. Stuffing Box	Silicon Bronze ASTM B584 Alloy C87850												
8. Bonnet	Silicon Bronze ASTM B584 Alloy C87850												
9. Body	Silicon Bronze ASTM B584 Alloy C87850												
10. Wedge	Silicon Bronze ASTM B584 Alloy C87850												
11. Identification Plate	Aluminum												
12. Boss seal o-ring (2)	EPDM												
13. Press End Adapter (2)	Wrot Copper ASTM B75 Alloy C12200												
14. Leak Detect O-Ring (2)	EPDM												

MATEDIAL LICT





PC-113-LF Press x Press Female End

DIMENSIONS—WEIGHTS—QUANTITIES

SI	ZE		Α		B		C		D		E		F		G		Н	Weight		Master
In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	Lbs.	Kg.	Ctn Qty.
1/2	15	3.68	93.47	3.66	93	2.28	57.9	3.34	84.84	4.24	107.7	0.5	13	0.7	17.78	2.44	62	0.91	0.41	30
3⁄4	20	4.24	107.7	3.94	100	2.36	59.9	3.85	97.8	4.64	118	0.75	19	0.96	24	2.44	62	1.28	0.58	25
1	25	4.62	117.3	4.62	117.3	2.85	72.4	4.69	119	5.52	140	1.00	25	0.88	22.35	3.19	81	2.09	0.95	20
1-1⁄4	32	5.1	129.5	5.19	132	3.08	78.2	5.26	133.6	6.25	159	1.25	32	1.01	25.65	3.19	81	3.03	1.37	10
1-1/2	40	6.18	157	6.3	160	3.41	86.6	6.07	154.2	7.5	191	1.50	38	1.38	35	4.42	112.3	4.18	1.9	10
2	50	6.44	163.6	7.09	180	3.42	86.9	7.33	186.2	8.59	218	2.00	51	1.51	38.3	4.42	112.3	6.1	2.77	4
2-1⁄2†	65	7.56	192	8.88	226	4.62	117.3	9.28	235.7	10.69	272	2.50	64	1.47	37.3	4.42	112.3	11.2	5.08	4
3†	80	8.49	215.6	10.24	2.6	5.17	131.3	10.71	272	12.5	318	3.00	76	1.66	42.2	5.28	134.1	17.37	7.89	4

†200 PSI for 2 1/2" and 3"

‡No packing gland, packing only in this 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.

*Weighted average lead content ≤ 0.25%

Revised 11/9/2017

Lead-Free* Bronze Gate Valves

Features: Silicon Performance Bronze® Alloy • Screw-In Bonnet • Non-Rising Stem

Approvals: Conforms to MSS SP-139 • Solid Wedge • NSF/ANSI-61-8 Commercial Hot 180°F (includes annex F and G) and NSF/ANSI-372

Size range: 1/4" - 3"

Pressure rating: 300 PSI non-shock cold working pressure Maximum pressure / temperature: 100 PSI at 300° F

Lead-free* markings: Double oval in body casting, white handle and blue hang tag

	Μ	ATERIAL LIST
	PART	SPECIFICATION
1.	Handwheel Nut	300 Series Stainless Steel
2.	Identification Plate	Aluminum
3.	Handwheel	Malleable Iron ASTM A47 (T-113)
4.	Stem	ASTM B99 Alloy C65100
5.	Packing Nut	Bronze ASTM B62 or ASTM B584 Alloy C84400 or Brass ASTM B16
6.	Packing Gland	Bronze ASTM B62 or ASTM B584 Alloy C84400 or Brass ASTM B16
7.	Packing	Aramid Fibers with Graphite
8.	Stuffing Box	Silicon Bronze ASTM B584 Alloy C87850
9.	Bonnet	Silicon Bronze ASTM B584 Alloy C87850
10.	Body	Silicon Bronze ASTM B584 Alloy C87850
11.	Wedge	Silicon Bronze ASTM B584 Alloy C87850



T-113-LF Threaded

DIMENSIONS—WEIGHTS—QUANTITIES

-																		
SI	ZE		۹	E	3	(;)	E			F		H	T-11	3-LF	Master
In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	Lbs.	Kg.	Ctn Qty.
1/4†	8	1.68	43	3.44	87	0.88	22	3.06	78	3.95	100	0.4	10	1.95	50	0.70	0.31	50
3/8†	10	1.68	43	3.44	87	0.84	21	3.95	100	3.95	100	0.42	11	1.95	50	0.67	0.30	50
1/2†	15	1.94	49	3.66	93	0.88	22	4.24	108	4.24	108	0.54	14	1.95	50	0.78	0.35	50
3/4	20	2.06	52	3.94	100	0.92	23	4.64	118	4.64	118	0.57	14	1.95	50	1.00	0.48	50
1	25	2.44	62	4.62	117	1.04	26	5.52	140	5.52	140	0.7	18	2.56	65	1.73	0.78	30
1-1/4	32	2.62	67	5.19	132	1.21	31	6.25	159	6.25	159	0.7	18	2.56	65	2.28	1.04	20
1-1/2	40	2.88	73	6.3	160	1.38	35	7.5	191	7.5	191	0.75	19	3.55	90	3.33	1.51	10
2	50	3.06	78	7.09	180	1.48	38	8.59	218	8.59	218	0.79	20	3.55	90	4.68	2.13	10
2-1/2	65	4.12	105	8.88	226	1.84	47	10.69	272	10.69	272	1.14	29	3.55	90	9.46	4.29	5
3	80	4.5	114	10.24	260	2.1	53	12.5	318	12.5	318	1.2	30	4.23	107	13.70	6.20	4

SI	ZE		A	E	3	(C		D		E		F		H	S-11	3-LF	Master
In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	Lbs.	Kg.	Ctn Qty.
1/2†	15	1.76	45	3.66	93	0.75	19	3.26	83	4.16	106	0.5	13	2.08	53	0.69	0.29	50
3/4	20	2.38	60	3.84	98	0.88	22	3.7	94	4.53	115	0.75	19	2.08	53	0.94	0.43	50
1	25	2.82	72	4.66	118	1	25	4.57	116	5.5	140	0.91	23	2.64	67	1.50	0.68	30
1-1/4	32	3.12	79	5.01	127	1.18	30	5.16	131	6.05	154	0.97	25	2.8	71	2.14	0.97	20
1-1/2	40	3.42	87	6.2	157	1.24	31	6	152	7.37	187	1.09	28	3.83	97	3.01	1.37	10
2	50	4	102	7.06	179	1.31	33	7.24	184	8.52	216	1.34	34	4.69	119	4.40	1.99	10

†No packing gland, packing only in this 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.

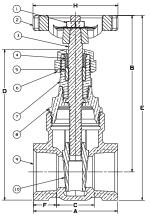


NSF/ANSI 61 NSF/ANSI 372

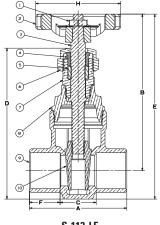




S-113-LF Solder



T-113-LF NPT x NPT



S-113-LF C x C

*Weighted average lead content $\leq 0.25\%$

27

8

S-413-Y-LF CxC

Lead-Free* Bronze Check Valves

Features: Silicon Performance Bronze® Alloy • Horizontal Swing • Regrinding Type • Y-Pattern • Renewable Seat and Disc

Approvals: Conforms to MSS SP-139 • NSF/ANSI-61-8 Commercial Hot 180°F (includes annex F and G) and NSF/ANSI-372

Size Range: 1/4" - 2"

Pressure Rating: 200 PSI Non-Shock Cold Working Pressure Maximum Pressure / Temperature: 100 PSI at 300° F

Lead-Free* marking: Double oval in body casting

SPECIFICATION 316SS or 304SS Silicon Bronze ASTM B283 Alloy C69300 Silicon Bronze ASTM B584 Alloy C87850
Silicon Bronze ASTM B283 Alloy C69300 Silicon Bronze ASTM B584 Alloy C87850
Silicon Bronze ASTM B584 Alloy C87850
1
316SS or 304SS
Silicon Bronze ASTM B584 Alloy C87850 or MPIF SS-316NI-25
PTFE
304SS or 316SS
Silicon Bronze ASTM B283 Alloy C69300
Silicon Bronze ASTM B584 Alloy C87850

*Sizes ¾ ", 1", 114", 114", 1144" and 2" only.

DIMENSIONS—WEIGHTS—QUANTITIES

												~~						
SI	ZE		Α		В		C		D	E	E	F	-	(3	T-41	3-LF	Master
In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	Lbs.	Kg.	Ctn Qty.
1/4	8	2.12	53.85	1.31	33.27	1.37	34.79	0.67	17	1.57	40	1.401	27	0.26	7	0.508	0.23	50
3/8	10	2.12	53.85	1.31	33.27	1.31	33.27	0.67	17	1.40	36	1.401	27	0.35	9	0.478	0.22	50
1/2	15	2.44	62	1.66	42	2.31	59	0.81	21	1.61	41	1.401	33	0.42	11	0.55	0.25	50
3/4	20	2.9	74	1.88	48	2.67	68	1.04	26	2.06	52	1.702	40	0.42	11	0.90	0.41	50
1	25	3.56	90	2.27	58	3.29	84	1.26	32	2.44	62	1.953	52	0.55	14	1.46	0.66	30
1-1/4	32	4.18	106	2.73	69	3.93	100	1.59	40	3.00	76	2.179	60	0.59	15	2.17	0.99	20
1-1/2	40	4.48	114	3.08	78	4.44	113	1.86	47	3.39	86	2.430	70	0.57	13	2.95	1.34	10
2	50	5.29	134	3.84	98	5.48	139	2.29	58	3.74	95	3.067	83	0.76	19	4.79	2.17	10

S	IZE		A		3		C)		Ε	F			G	S-41	3-LF	Master
In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	Lbs.	Kg.	Ctn Qty.
1/4	8	2.12	53.85	1.31	33.27	1.37	34.79	0.67	17	1.57	40	1.401	27	0.26	7	0.508	0.23	50
3/8	10	2.12	53.85	1.31	33.27	1.31	33.27	0.67	17	1.40	36	1.401	27	0.35	9	0.478	0.22	50
1/2	15	2.52	64	1.540	42	1.940	49	0.54	14	1.52	39	1.416	20	0.50	13	0.55	0.25	50
3/4	20	3.34	85	1.861	48	2.410	61	0.78	20	1.84	47	1.717	28	0.75	19	0.88	0.40	50
1	25	4.06	103	2.206	29	2.880	73	1.02	26	2.25	57	1.947	34	0.91	23	1.48	0.67	30
1-1/4	32	4.69	119	2.737	38	3.520	89	1.26	32	2.75	70	2.178	40	0.97	25	2.22	1.01	20
1-1/2	40	5.28	134	3.030	44	3.950	100	1.51	38	3.09	78	2.429	47	1.09	28	3.00	1.36	10
2	50	6.44	164	3.640	98	4.863	123	1.98	50	3.74	95	3.073	62	1.34	34	4.87	2.21	10

NIBCO check valves may be installed in both horizontal and vertical lines with upward flow or in any intermediate

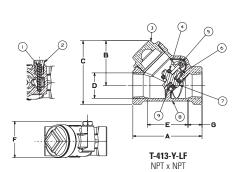
position. They will operate satisfactorily in a declining plane (no more than 15°). Install check valves as far from

Press end valve also available (PC-413-Y-LF). See NIBCO[®] Press System catalog.

pump discharge or line direction change as possible and at a minimum length of 5 times the pipe diameter. 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. Do not use for reciprocating air compressor service.

*Weighted average lead content $\leq 0.25\%$





T-413-Y-LF Threaded

S-413-Y-LF Solder















Lead-Free* Bronze Check Valves

Features: Silicon Performance Bronze[®] Alloy • Horizontal Swing • Regrinding Type • Y-Pattern • Renewable Seat and Disc • Press Ends

Approvals: Conforms to MSS SP-139 • NSF/ANSI-61-8 Commercial Hot 180°F (includes annex F and G) and NSF/ANSI-372

Size range: 1/2" - 2"

Pressure rating: 200 PSI non-shock cold working pressure Maximum pressure / temperature: 100 PSI at 250° F

Lead-free* marking: Double oval in body casting

	MAT	ERIAL LIST
	PART	SPECIFICATION
1.	Bonnet	Silicon Bronze ASTM B584 Alloy C87850
2.	Body	Silicon Bronze ASTM B584 Alloy C87850
3.	Hinge Pin	ASTM A276 Alloy S31600
		or ASTM A276 Alloy S30400
4.	Disc Hanger	Silicon Bronze ASTM B584 Alloy C87850
5.	Stainless Steel Nut (2)	ASTM F594 Alloy S31600
		or ASTM F594 Alloy S30400
6.	Disc Holder	Silicon Bronze ASTM B371 Alloy C69300
7.	Seat Disc	PTFE
8.	Hinge Pin Plug	ASTM B371 Alloy C69300
9.*	Disc Washer	304 Stainless Steel
10.	O-Ring	EPDM
11.	Press End Adapter	ASTM B75 Alloy C12200
12.	Crimp Evident Seal O-Ring	EPDM
Cinco I	1 100 10 100 100 and 20 only	

*Sizes 🕸, 1", 1🕸, 1🕸 and 2" only

DIMENSIONS—WEIGHTS

				Dimensi	ons				
SI	ZE	A (Lay	Length)	В (Н	eight)	Master	Weight		
In.	mm.	In.	mm.	In.	mm.	Ctn Qty	Lbs.	Kg.	
1/2	15	2.78	71	1.66	42	40	0.72	0.33	
3/4	20	3.25	83	1.90	48	40	1.13	0.51	
1	25	3.97	101	2.27	58	25	1.80	0.82	
1-1/4	32	4.64	118	2.67	68	20	2.42	1.10	
1-1/2	40	5.00	127	3.09	79	16	3.75	1.70	
2	50	5.85	149	3.84	98	4	6.02	2.73	

NIBCO check valves may be installed in both horizontal and vertical lines with upward flow or in any intermediate position. They will operate satisfactorily in a declining plane (no more than 15°). Install check valves as far from pump discharge or line direction change as possible and at a minimum length of 5 times the pipe diameter.

Do not use for reciprocating air compressor service.



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.

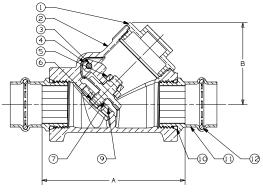


NSF/ANSI 61 NSF/ANSI 372





PC-413-Y-LF Press Ends



PC-413-Y-LF Press x Press

*Weighted average lead content ≤ 0.25%





Lead-Free* Bronze Ring Check® Valves

Features: Silicon Performance Bronze® Alloy • Inline Lift Type • Resilient Discs • Spring Actuated

Approvals: conforms to MSS SP-139 • NSF/ANSI-61-8 Commercial Hot 180°F (includes annex F and G) and NSF/ANSI-372

Size range: 1/2" - 2"

Pressure rating: 250 PSI non-shock cold working pressure Maximum pressure / temperature: 100 PSI at 300° F

Lead-free* marking: Double oval in body casting

MATERIAL LIST

PART	SPECIFICATION
1. Body	Silicon Bronze ASTM B584 Alloy C87850
2. Stem	Stainless Steel ASTM A582 Alloy S30300
3. Spring	Stainless Steel S31600
4. Disc Holder	Stainless Steel S31600
5. Disc	PTFE
6. Seat Screw	Stainless Steel ASTM A276 Alloy S43000
7. Body End	Silicon Bronze ASTM B584 Alloy C87850

DIMENSIONS—WEIGHTS—QUANTITIES

SI	ZE		A	E	3	(;	[)			T-480	-Y-LF	Master
In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	Lbs.	Kg.	Ctn Qty.
1/2	15	2.06	52	0.5	13	1.03	26	0.53	13	1.37	35	0.36	0.16	100
3/4	20	2.25	57	0.75	19	1.12	28	0.61	15	1.63	41	0.48	0.22	100
1	25	2.63	67	1	25	1.29	33	0.72	18	2.08	53	0.77	0.35	50
1-1/4	32	2.94	75	1.25	32	1.47	37	0.59	15	2.39	61	1.14	0.51	30
1-1/2	40	3.31	84	1.5	38	1.77	45	0.84	21	2.76	70	1.63	0.74	30
2	50	3.69	94	2	51	2.19	56	0.84	21	3.39	86	2.27	1.03	10

SI	ZE		4	E	3	(;)		E	S-480)-Y-LF	Master
In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	Lbs.	Kg.	Ctn Qty.
1/2	15	2.17	55	0.5	13	1.19	30	0.5	13	1.37	35	0.40	0.18	100
3/4	20	2.78	71	0.75	19	1.31	33	0.75	19	1.63	41	0.52	0.24	100
1	25	3.31	84	1	25	1.5	38	0.91	23	2.08	53	0.85	0.39	50
1-1/4	32	3.54	90	1.25	32	1.6	41	0.97	25	2.39	61	1.28	0.58	30
1-1/2	40	4.1	104	1.5	38	1.92	49	1.09	28	2.76	70	1.75	0.79	30
2	50	4.96	126	2	51	2.28	58	1.34	34	3.39	86	2.70	1.23	10

1/2" thru 2" require 1/2 pound pressure to open

NIBCO check valves may be installed in both horizontal and vertical lines with upward flow or in any intermediate position. They will operate satisfactorily in a declining plane (no more than 15°). Install check valves as far from pump discharge or line direction change as possible and at a minimum length of 5 times the pipe diameter.

Do not use for reciprocating air compressor service.

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.

*Weighted average lead content $\leq 0.25\%$

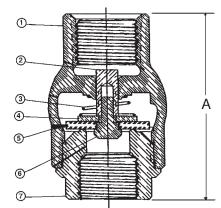




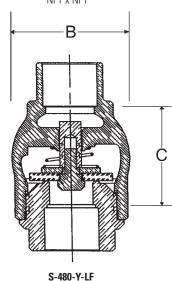


T-480-Y-LF Threaded

S-480-Y-LF Solder

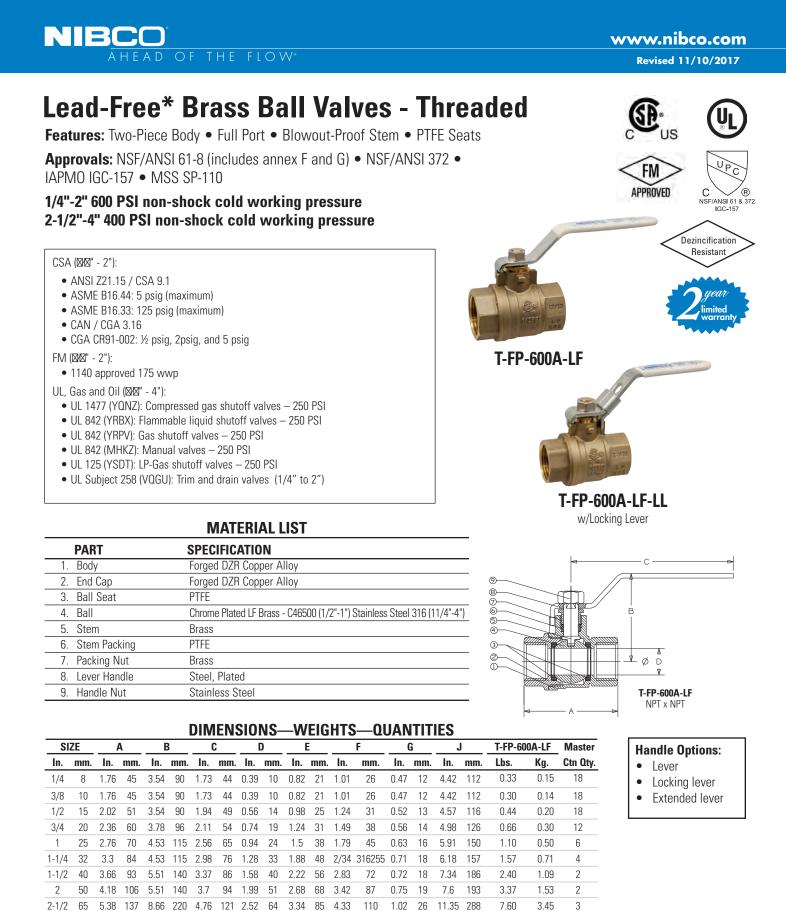


T-480-Y-LF NPT x NPT



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NIBCO INC. WORLD HEADQUARTERS • 1516 MIDDLEBURY ST. • ELKHART, IN 46516-4740 • USA • PH: 1.800.234.0227 TECH SERVICES PH: 1.888.446.4226 • FAX: 1.888.336.4226 • INTERNATIONAL OFFICE PH: +1.574.295.3327 • FAX: +1.574.295.3455 www.nibco.com



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.

4.95 126 6.38

*Weighted average lead content $\leq 0.25\%$

1.1 28 11.68 297

1.22 31 13.3 338

9.36

16.85

4.24

7.64

2

1

125

162

3 80 6.09 155 8.66 220 5.08 129 2.91 74 3.89 99 4.92

4 100 7.39 188

9.61 244 5.87

149 3.87

98



Dezincification

Resistant

Revised 11/10/2017

NSF/ANSI 61 & 372

Lead-Free* Brass Ball Valves - Threaded

Features: Two-Piece Body • Full Port • Blowout-Proof Stem • PTFE seats

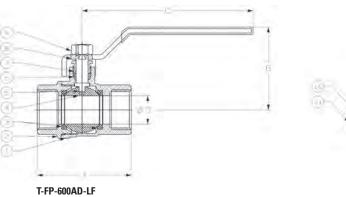
Approvals: IAPMO IGC-157 • MSS SP-110 • NSF/ANSI 61-8 (includes annex F and G) and NSF/ANSI 372

600 PSI non-shock cold working pressure

MATERIAL LIST SPECIFICATION PART Forged DZR Copper Alloy Body 1. 2. End Cap Forged DZR Copper Alloy 3. Ball Seat PTFE Stainless Steel or Chrome Plated Brass 4. Ball Brass 5. Stem 6. O-Ring (Stem Seal) Fluorocarbon (FKM) PTFE 7. Stem Packing Brass 8. Packing Nut 9. Lever Handle Steel, Plated 10. Drain Cap Brass 11. Seal Buna-N



w/Drain



NPT x NPT

DIMENSIONS—WEIGHTS—QUANTITIES

S	ize		4		3	(5	Po	rt D			Ctn.
In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	Lbs.	Kg.	Qty.
1/2	15	2.18	55	1.67	42	3.54	90	0.58	15	0.48	0.22	18
3/4	20	2.48	63	2.14	54	4.47	114	0.75	19	0.75	0.34	12

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.

*Weighted average lead content ≤ 0.25%

www.nibco.com

Revised 11/10/2017

Dezincification Resistant

Lead-Free* Brass Ball Valves - Solder

Features: Two-Piece Body • Full Port • Blowout-Proof Stem • PTFE Seats

Approvals: NSF/ANSI 61-8 (includes annex F and G) • NSF/ANSI 372 • IAPMO IGC-157 • MSS SP-110

3/8"-2" 600 PSI non-shock cold working pressure 2-1/2"-3" 400 PSI non-shock cold working pressure

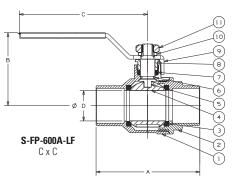
AHEAD OF THE FLOW

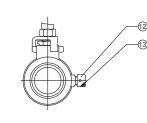
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	PART	SPECIFICATION
1.	Body	Forged DZR Copper Alloy
2.	End Cap	Forged DZR Copper Alloy
3.	Ball Seat	PTFE
4.	Ball	Stainless Steel or Chrome Plated Brass
5.	Stem	Brass
6.	O-Ring (Stem Seal)	Fluorocarbon (FKM)
7.	Stem Packing	PTFE
8.	Packing Nut	Brass
9.	Lever Handle	Steel, Plated
10.	Lock Washer	Stainless Steel
11.	Handle Nut	Stainless Steel
12.	Drain Cap*	Brass
13.	Seat*	EPDM

MATERIAL LIST

Note: *parts 12 and 13 are applicable to valve with drain only.





DIMENSIONS—WEIGHTS—QUANTITIES

SI	ZE		<u> </u>		3	(;)		Ε		F		<u>ì</u>			S-FP-60	DOA-LF	Master
In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	Lbs.	Kg.	Ctn Qty.
3/8	10	1.75	44	3.74	95	1.5	38	0.5	13	1	25	1.02	26	0.37	9	4.62	117	0.30	0.14	18
1/2	15	1.97	50	3.74	95	1.78	45	0.63	16	0.97	25	1.28	33	0.5	13	4.74	120	0.44	0.20	18
3/4	20	2.73	69	3.97	101	1.94	49	0.88	22	1.23	31	1.57	40	9.75	248	5.31	135	0.66	0.30	12
1	25	3.34	85	4.33	110	2.51	64	1	25	1.53	39	1.89	48	0.91	23	6.04	153	1.10	0.50	6
1-1/4	32	3.8	97	5	127	2.57	65	1.38	35	1.87	47	2.28	58	0.96	24	6.88	175	1.57	0.71	4
1-1/2	40	4.42	112	6.18	157	3.04	77	1.63	41	2.21	56	2.78	71	1.1	28	8.38	213	2.40	1.09	2
2	50	5.34	136	6.18	157	3.34	85	2.12	54	2.66	68	3.46	88	1.34	34	8.85	225	3.37	1.53	2
2-1/2	65	6.24	158	9.45	240	4.78	121	2.63	67	3.28	83	4.29	109	1.48	38	12.6	320	7.60	3.45	3
3	75	7.11	181	9.51	242	5.17	131	3.13	80	3.81	97	4.96	126	1.65	42	13.1	333	16.85	7.64	1
SI	ZE		4	E	3	(;		D		E		F	G	6	J		S-FP-60	DAD-LF	Master
In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	Lbs.	Kg.	Ctn Qty.
1/2	15	1.97	50	3.74	95	1.78	45	0.63	16	0.97	25	1.78	45	0.5	13	4.74	120	0.44	0.20	18
3/4	20	2.73	69	3.97	101	1.94	49	0.88	22	1.23	31	2.09	53	0.75	19	5.31	135	0.66	0.30	12
1	50	3.34	85	4.33	110	2.51	64	1	25	1.53	39	2.40	61	0.91	23	6.04	153	1.10	0.50	6
															-					

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.

*Weighted average lead content $\leq 0.25\%$





S-FP-600A-LF

0 50 0004 15



S-FP-600AD-LF w/Drain

Handle Options:

- Lever
- Extended lever

NIBCO® Press System Lead-Free* Brass Ball Valves

Features: Press Ends Leak Detection • Two-Piece Body • PTFE Seats • Full Port • Blowout-Proof Stem

Approvals: IAPMO/ANSI Z1157 (IGC-157) • NSF/ANSI-61 & 372 • MSS SP-145 • Conforms to ASME B16.51†

Size range: 1/2" - 2"

Pressure rating: 250 PSI non-shock cold working pressure Maximum pressure / temperature: 225 PSI at 250° F

Lead-Free* markings: White handle and blue hang tag

Applications: Drinking Water • Domestic Hot & Cold Water • HVAC (condensors, chilled water, hot water heating) • Isolation and Throttling (half-open to full-open only) • Connect to Rigid Copper Tubing Manufactured per ASTM B88, Condition H (hard drawn)

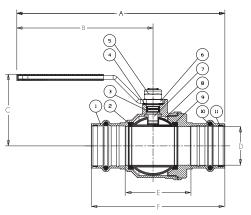
Reference Press System catalog for updated Approved Tool and Jaw Compatibility Matrix list.

Not intended for steam or gas usage.

		MATERIAL LIST
	PART	SPECIFICATION
1.	Body	Forged DZR Copper Alloy - C46500
2.	Seat Seal	PTFE
3.	0-ring	EPDM - ASTM D2000
4.	Washer	PTFE
5.	Lock Nut	Stainless Steel + Nylon
6.	Handle	Steel, Plated
7.	Stem	Brass
8.	Ball	Chrome Plated Brass - C46500 (1/2"-1")
		Stainless Steel 316 (11/4"-2")
9.	End Cap	Forged DZR Copper Alloy - C46500
10.	O-ring	EPDM - ASTM D2000
11.	Metal Ring	Stainless Steel (1-1/4"-2")*



Press x Press 1/2" - 2" (Patent Pending sizes 1-1/4" - 2')



PC-FP-600A-LF Press x Press 1/2" - 2":

†Tested to the performance criteria of ASME B16.51

‡ Patent Pending

DIMENSIONS—WEIGHTS—QUANTITIES

FP600A-L

NIBCO®

Handle Markings

NSF/ANSI 61 NSF/ANSI 372 _C UPC[®] IAPMO/ANSI Z1157

SIZE	A		В		C		D		E			F	Weight	
In.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	Lbs.	Kg.
1/2	4.57	116	3.66	93	2.09	53	0.631	16.03	1.30	33.0	2.87	73.0	0.38	0.17
3⁄4	5.71	145	4.17	106	2.80	71	0.883	22.43	1.63	41.5	3.44	87.5	0.73	0.33
1	5.83	148	4.17	106	3.15	80	1.140	28.96	1.83	46.5	3.64	92.5	1.00	0.46
1-1/4:	6.97	177	4.61	117	2.52	64	1.386	35.20	2.19	55.5	4.43	112.5	1.70	0.77
1-1⁄2‡	9.06	230	6.30	160	3.23	82	1.636	41.56	2.52	64.0	5.30	134.5	2.37	1.08
2±	9.88	251	6.30	160	3.23	82	2.137	54.28	3.39	86.0	6.69	170.0	3.96	1.80

IAPMO/ANSI Z1157: in addition to meeting ICG-157 test requirements, the IAPMO/ANSI Z1157 also requires Press ends to be fully tested to IAPMO PS-117 performance requirements which includes the following additional tests:

1. Unrestrained Hydrostatic Pressure Test at 20 °C (68°F)
 6. Hydraulic Shock (Water Hammer) Test

- 2. Unrestrained Hydrostatic Pressure Test at 93 °C (200°F)
- 3. Static Torsion Test for Press Connections
- static forsion Test for P
 Bending Test
- 5. Vacuum Test

Options:

•

•

Extended lever

Wing Handle

EPDM Seal for Press Ends

8. Thermal Cycling Test 9. Alternate Thermal Cycling Test 10. Dynamic Torsion Test for Press C

7. Vibration Test

10. Dynamic Torsion Test for Press Connections

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.

*Weighted average lead content < 0.25%

NIBCO[®] Press System Lead-Free^{*} Brass Ball Valves

Features: Press Ends Leak Detection • Two-Piece Body • PTFE Seats • Full Port • Blowout-Proof Stem

Approvals: IAPMO/ANSI Z1157 (IGC-157) • NSF/ANSI-61 & 372 • MSS SP-145 • Conforms to ASME B16.51⁺

Size range: 2 1/2" - 4" Pressure rating: 200 PSI non-shock cold working pressure Maximum pressure / temperature: 200 PSI at 200° F

Lead-Free* markings: White handle and blue hang tag

Applications: Drinking Water • Domestic Hot & Cold Water • HVAC (condensors, chilled water, hot water heating) • Isolation and Throttling (half-open to full-open only) • Connect to Rigid Copper Tubing Manufactured per ASTM B88, Condition H (hard drawn)

Reference Press System catalog for updated Approved Tool and Jaw Compatibility Matrix list.

Not intended for steam or gas usage.

MATERIAL LIST

	PART	SPECIFICATION
1	Handle	Steel Plated
2	Handle Cover	PVC
3	Handle Lock Nut	Steel
4	Stem	Brass/Bronze
5	Packing Nut	Brass/Bronze
6	Packing	PTFE
7	Leak Detection O-ring	EPDM - ASTM D2000
8	O-ring, Boss Seal	EPDM - ASTM D2000
9	Body End	Brass/Bronze
10	Ball	Stainless Steel
11	Body	Brass/Bronze
12	Ball Seat Seal	PTFE
13	Press End Adaptor w/Leak Detection	ASTM B75 Alloy C12200



EPDM Seal for Press Ends

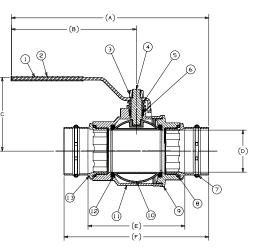






PC-FP-600A-LF Press x Press

2 1/2" - 4"



PC-FP-600A-LF Press x Press 2 1/2" - 4"

DIMENSIONS—WEIGHTS—QUANTITIES

SL	ZE		4	E	3	(;)	E			F	We	ight
In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	Lbs.	Kg.
2 1⁄2"	15	13.07	332	8.66	220	4.8	121.9	2.52	64	5.88	149.3	8.81	223.7	9.55	4.33
3	20	13.67	347.2	8.66	220	5.12	130	2.91	73.9	6.71	170.4	10.03	261.6	13.07	5.93
4	25	15.87	403.1	9.61	244.1	5.98	151.9	3.9	99	8.21	208.5	12.53	318.2	26.32	11.94

IAPMO/ANSI Z1157: in addition to meeting ICG-157 test requirements, the IAPMO/ANSI Z1157 also requires Press ends to be fully tested to IAPMO PS-117 performance requirements which includes the following additional tests:

1. Unrestrained Hydrostatic Pressure Test at 20 °C (68°F)

2. Unrestrained Hydrostatic Pressure Test at 93 °C (200°F) 7. Vibration Test 8. Thermal Cycling Test

3. Static Torsion Test for Press Connections

4. Bending Test 5. Vacuum Test

Options:

•

9. Alternate Thermal Cycling Test

10. Dynamic Torsion Test for Press Connections

6. Hydraulic Shock (Water Hammer) Test

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.

*Weighted average lead content ≤ 0.25%

†Tested to the performance criteria of ASME B16.51

NIBCO INC. WORLD HEADQUARTERS • 1516 MIDDLEBURY ST. • ELKHART, IN 46516-4740 • USA • PH: 1.800.234.0227 TECH SERVICES PH: 1.888.446.4226 • FAX: 1.888.336.4226 • INTERNATIONAL OFFICE PH: +1.574.295.3327 • FAX: +1.574.295.3455 www.nibco.com

NIBCO[®] Press System Lead-Free^{*} Brass Ball Valves

Features: Press Ends Leak Detection • Wing Handle • Two-Piece Body • PTFE Seats • Full Port • Blowout-Proof Stem

Approvals: IAPMO/ANSI Z1157 (IGC-157) • NSF/ANSI-61 & 372 • MSS SP-145 • Conforms to ASME B16.51†

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Size range: 1/2" - 1"
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Pressure rating: 250 PSI non-shock cold working pressure Maximum pressure / temperature: 225 PSI at 250° F

Lead-Free* markings: White handle and blue hang tag

Applications: Drinking Water • Domestic Hot & Cold Water • HVAC (condensors, chilled water, hot water heating) • Isolation and Throttling (half-open to full-open only) • Connect to Rigid Copper Tubing Manufactured per ASTM B88, Condition H (hard drawn)

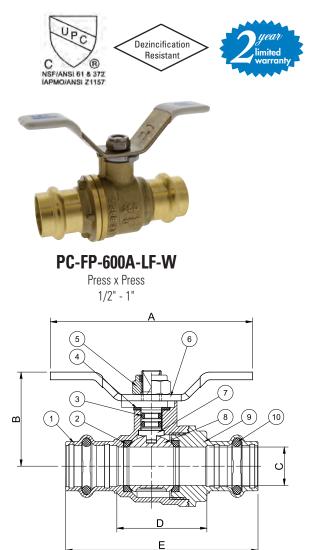
Reference Press System catalog for updated Approved Tool and Jaw Compatibility Matrix list.

Not intended for steam or gas usage.

		MATERIAL LIST
	PART	SPECIFICATION
1.	Body	Forged DZR Copper Alloy - C46500
2.	Seat Seal	PTFE
3.	O-ring	EPDM - ASTM D2000
4.	Washer	PTFE
5.	Lock Nut	Stainless Steel + Nylon
6.	Handle	Steel, Plated
7.	Stem	Brass
8.	Ball	Chrome Plated Brass - C46500
9.	End Cap	Forged DZR Copper Alloy - C46500
10.	O-ring	EPDM - ASTM D2000

MSS SP-145

Handle Markings



PC-FP-600A-LF-W Press x Press 1/2" - 1"

DIMENSIONS—WEIGHTS—OUANTITIES

							LIGHT	<u> </u>	97 11 1 1				
S	Size		Α		В		C		D		E	Weight	
In.	mm.	In.	mm.	In.	mm.	In.	mm.	ln.	mm.	In.	mm.	Lbs.	Kg.
1/2	12.7	3.11	79.00	1.45	36.80	0.59	15.00	1.39	35.20	2.96	75.20	0.4230	0.1918
3⁄4	19.05	4.25	108.00	2.15	54.70	0.79	20.00	1.70	43.20	3.51	89.20	0.8020	0.3637
1	25.40	4.25	108.00	2.31	58.70	0.98	25.00	1.90	48.20	3.71	94.20	1.0930	0.4957

IAPMO/ANSI Z1157: in addition to meeting ICG-157 test requirements, the IAPMO/ANSI Z1157 also requires Press

- ends to be fully tested to IAPMO PS-117 performance requirements which includes the following additional tests:
- 1. Unrestrained Hydrostatic Pressure Test at 20 °C (68°F) 2. Unrestrained Hydrostatic Pressure Test at 93 °C (200°F)
- 3. Static Torsion Test for Press Connections

Options:

4. Bending Test

5. Vacuum Test

•

•

Extended lever

Lever Handle

EPDM Seal for Press Ends

8. Thermal Cycling Test

7. Vibration Test

- 9. Alternate Thermal Cycling Test **10. Dynamic Torsion Test for Press Connections**

6. Hydraulic Shock (Water Hammer) Test

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.

*Weighted average lead content $\leq 0.25\%$

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†Tested to the performance criteria of ASME B16.51

NIBCO[®] Press System Lead-Free^{*} Brass Ball Valves

Features: Press End Leak Detection • Two-Piece Body • PTFE Seats • Full Port • Blowout-Proof Stem

Approvals: IAPMO/ANSI Z1157 (IGC-157) • NSF/ANSI-61 & 372 • MSS SP-145 • Conforms to ASME B16.51†

Size range: 1/2" - 1"

Pressure rating: 250 PSI non-shock cold working pressure Maximum pressure / temperature: 225 PSI at 250° F

Lead-Free* markings: White handle and blue hang tag

Applications: Drinking Water • Domestic Hot & Cold Water • HVAC (condensors, chilled water, hot water heating) • Isolation and Throttling (half-open to full-open only) • Connect to Rigid Copper Tubing Manufactured per ASTM B88, Condition H (hard drawn)

Reference Press System catalog for updated Approved Tool and Jaw Compatibility Matrix list.

Not intended for steam or gas usage.

		MATERIAL LIST
	PART	SPECIFICATION
1.	Body	Forged DZR Copper Alloy - C46500
2.	Seat Seal	PTFE
3.	O-ring	EPDM - ASTM D2000
4.	Washer	PTFE
5.	Lock Nut	Stainless Steel + Nylon
6.	Handle	Steel, Plated
7.	Stem	Brass
8.	Ball	Chrome Plated Brass - C46500 (1/2"-1")
9.	End Cap	Forged DZR Copper Alloy - C46500
10.	O-ring	EPDM - ASTM D2000

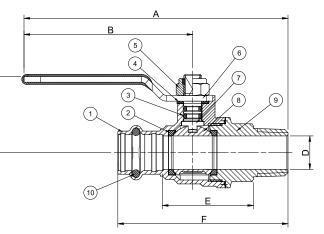
Options:

- Extended lever
- **EPDM Seal for Press Ends**
- Wing Handle





PCMT-FP-600A-LF Press x MIP 1/2" - 1"



PCMT-FP-600A-LF Press x Male 1/2" - 1"

†Tested to the performance criteria of ASME B16.51

DIMENSIONS—WEIGHTS—QUANTITIES

S	IZE		Α	E	3	(;		D		<u> </u>		F	We	Weight	
In.	mm.	In.	mm.	In.	mm.	ln.	mm.	In.	mm.	In.	mm.	In.	mm.	Lbs.	Kg.	
1/2	12.7	5.30	134.70	3.62	92.00	1.34	34.00	0.59	15.00	1.60	40.70	3.00	76.20	0.4520	0.2050	
3⁄4	19.05	6.07	154.20	4.13	105.00	2.06	52.20	0.79	20.00	2.00	50.70	3.53	89.70	0.7940	0.3601	
1	25.40	6.29	159.70	4.13	105.00	2.21	56.20	0.98	25.00	2.23	56.70	3.89	98.70	1.1730	0.5320	

IAPMO/ANSI Z1157: in addition to meeting ICG-157 test requirements, the IAPMO/ANSI Z1157 also requires Press

ends to be fully tested to IAPMO PS-117 performance requirements which includes the following additional tests 6. Hydraulic Shock (Water Hammer) Test

- 1. Unrestrained Hydrostatic Pressure Test at 20 °C (68°F)
- 2. Unrestrained Hydrostatic Pressure Test at 93 °C (200°F) 3. Static Torsion Test for Press Connections
- 4. Bending Test
- 5. Vacuum Test

8. Thermal Cycling Test

7. Vibration Test

9. Alternate Thermal Cycling Test

10. Dynamic Torsion Test for Press Connections

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.

*Weighted average lead content $\leq 0.25\%$

NIBCO® Press System Lead-Free* Brass Ball Valves

Features: Press End Leak Detection • Two-Piece Body • PTFE Seats • Full Port • Blowout-Proof Stem

Approvals: IAPMO/ANSI Z1157 (IGC-157) • NSF/ANSI-61 & 372 • MSS SP-145 • Conforms to ASME B16.51†

Size range: 1/2" - 1"

Pressure rating: 250 PSI non-shock cold working pressure Maximum pressure / temperature: 225 PSI at 250° F

Lead-Free* markings: White handle and blue hang tag

Applications: Drinking Water • Domestic Hot & Cold Water • HVAC (condensors, chilled water, hot water heating) • Isolation and Throttling (half-open to full-open only) • Connect to Rigid Copper Tubing Manufactured per ASTM B88, Condition H (hard drawn)

Reference Press System catalog for updated Approved Tool and Jaw Compatibility Matrix list.

Not intended for steam or gas usage.

	MATERIAL LIST
PART	SPECIFICATION
Body	Forged DZR Copper Alloy - C46500
Seat Seal	PTFE
0-ring	EPDM - ASTM D2000
Washer	PTFE
Lock Nut	Stainless Steel + Nylon
Handle	Steel, Plated
Stem	Brass
Ball	Chrome Plated Brass - C46500
End Cap	Forged DZR Copper Alloy - C46500
0-ring	EPDM - ASTM D2000
	Body Seat Seal O-ring Washer Lock Nut Handle Stem Ball End Cap

Options:

4. Bending Test

5. Vacuum Test

- Extended lever
- EPDM Seal for Press Ends
- Wing Handle

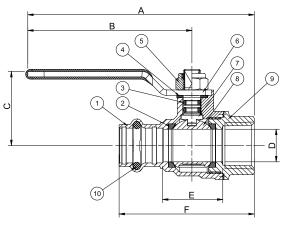


Handle Markings





PCT-FP-600A-LF Press x FIP 1/2" - 1"



PCT-FP-600A-LF Press x FIP 1/2" - 1"

†Tested to the performance criteria of ASME B16.51

DIMENSIONS—WEIGHTS—QUANTITIES

S	IZE		A	E	3	(;		D	E	E		F	We	ight
In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	Lbs.	Kg.
1/2	12.7	4.75	120.70	3.62	92.00	1.34	34.00	0.59	15.00	1.09	27.70	2.45	62.20	0.3950	0.1791
3⁄4	19.05	5.42	137.70	4.13	105.00	2.06	52.20	0.79	20.00	1.37	34.70	2.88	73.20	0.7280	0.3302
1	25.40	5.64	143.20	4.13	105.00	2.21	56.20	0.98	25.00	1.62	41.20	3.24	82.20	1.0520	0.4771

IAPMO/ANSI Z1157: in addition to meeting ICG-157 test requirements, the IAPMO/ANSI Z1157 also requires Press

- ends to be fully tested to IAPMO PS-117 performance requirements which includes the following additional tests:
- 1. Unrestrained Hydrostatic Pressure Test at 20 °C (68°F)
 6. Hydraulic Shock (Water Hammer) Test

 2. Unrestrained Hydrostatic Pressure Test at 93 °C (200°F)
 7. Vibration Test
- 2. Unrestrained Hydrostatic Pressure Test at 93 °C (200°F) 3. Static Torsion Test for Press Connections
- 8. Thermal Cycling Test
 - 9. Alternate Thermal Cycling Test
 - 10. Dynamic Torsion Test for Press Connections

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.

NIBCO® Press System Lead-Free* Brass Ball Valves

Features: Press End Leak Detection • Side Drain/Bleeder • Two-Piece Body • PTFE Seats • Full Port • Blowout-Proof Stem

Approvals: IAPMO/ANSI Z1157 (IGC-157) • NSF/ANSI-61 & 372 • MSS SP-145 • Conforms to ASME B16.51†

Size range: 1/2" - 1"

Pressure rating: 250 PSI non-shock cold working pressure Maximum pressure / temperature: 225 PSI at 250° F

Lead-Free* markings: White handle and blue hang tag

Applications: Drinking Water • Domestic Hot & Cold Water • HVAC (condensors, chilled water, hot water heating) • Isolation and Throttling (half-open to full-open only) • Connect to Rigid Copper Tubing Manufactured per ASTM B88, Condition H (hard drawn)

Reference Press System catalog for updated Approved Tool and Jaw Compatibility Matrix list.

Not intended for steam or gas usage.

		MATERIAL LIST
	PART	SPECIFICATION
1.	Body	Forged DZR Copper Alloy - C46500
2.	Seat Seal	PTFE
3.	O-ring	EPDM - ASTM D2000
4.	Washer	PTFE
5.	Lock Nut	Stainless Steel + Nylon
6.	Handle	Steel, Plated
7.	Stem	Brass
8.	Ball	Chrome Plated Brass - C46500
9.	End Cap	Forged DZR Copper Alloy - C46500
10.	O-ring	EPDM - ASTM D2000
11.	Washer	EPDM
12.	Nut	Brass

Options:

- Extended lever
- EPDM Seal for Press Ends
- Wing Handle



6. Hydraulic Shock (Water Hammer) Test

7. Vibration Test

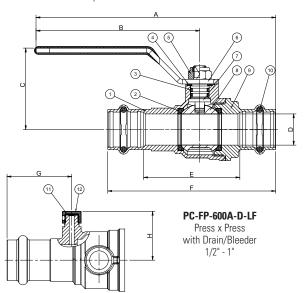
8. Thermal Cycling Test

9. Alternate Thermal Cycling Test



PC-FP-600A-D-LF

Press x Press with Drain/Bleeder 1/2" - 1"



DIMENSIONS—WEIGHTS—QUANTITIES

S	IZE		Α		В		C		D		E		F		G		Н	We	ight
In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	Lbs.	Kg.
1/2	12.7	5.26	133.70	3.62	92.00	1.34	34.00	0.59	15.00	2.15	54.70	3.73	94.70	2.09	53.00	1.44	36.50	0.5220	0.2368
3⁄4	19.05	6.05	153.70	4.13	105.00	2.06	52.20	0.79	20.00	2.43	61.70	4.24	107.70	2.32	59.00	1.44	36.50	0.8800	0.3991
1	25.40	6.11	155.20	4.13	105.00	2.21	56.20	0.98	25.00	2.61	66.20	4.42	112.20	2.44	62.00	1.59	40.50	1.2610	0.5719

IAPMO/ANSI Z1157: in addition to meeting ICG-157 test requirements, the IAPMO/ANSI Z1157 also requires Press ends to be fully tested to IAPMO PS-117 performance requirements which includes the following additional tests:

- ends to be fully tested to IAPMU PS-117 performance requirements w 1. Unrestrained Hydrostatic Pressure Test at 20 °C (68°F)
- 2. Unrestrained Hydrostatic Pressure Test at 93 °C (200°F)
- 3. Static Torsion Test for Press Connections
- 4. Bending Test
- 5. Vacuum Test

uum Test 10. Dynamic Torsion Test for Press Connections 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.

*Weighted average lead content $\leq 0.25\%$

†Tested to the performance criteria of ASME B16.51

NIBCO[®] Press System Lead-Free^{*} Brass Ball Valves

Features: Press End Leak Detection • 3/4" Hose Connection w/Cap • Two-Piece Body • PTFE Seats • Full Port • Blowout-Proof Stem

Approvals: IAPMO/ANSI Z1157 (IGC-157) • NSF/ANSI-61 & 372 • MSS SP-145 • Conforms to ASME B16.51†

Size range: 1/2" - 3/4"

Pressure rating: 250 PSI non-shock cold working pressure Maximum pressure / temperature: 225 PSI at 250° F

Lead-Free* markings: White handle and blue hang tag

Applications: Drinking Water • Domestic Hot & Cold Water • HVAC (condensors, chilled water, hot water heating) • Isolation and Throttling (half-open to full-open only) • Connect to Rigid Copper Tubing Manufactured per ASTM B88, Condition H (hard drawn)

Reference Press System catalog for updated Approved Tool and Jaw Compatibility Matrix list.

Not intended for steam or gas usage.

	MATERIAL LIST
PART	SPECIFICATION
Body	Forged DZR Copper Alloy - C46500
Seat Seal	PTFE
O-ring	EPDM - ASTM D2000
Washer	PTFE
Lock Nut	Stainless Steel + Nylon
Handle	Steel, Plated
Stem	Brass
Ball	Chrome Plated Brass - C46500
End Cap	Forged DZR Copper Alloy - C46500
O-ring	EPDM - ASTM D2000
Washer	EPDM
Nut	Brass
Cap Retainer	NBR
	Body Seat Seal O-ring Washer Lock Nut Handle Stem Ball End Cap O-ring Washer Nut

Options:

4. Bending Test

5. Vacuum Test

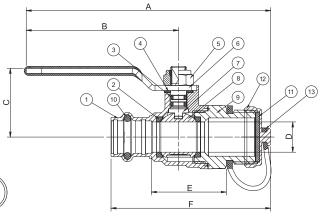
- Extended lever •
- EPDM Seal for Press Ends •
- Wing Handle

FP600A-L NSF/ANSI 61 NSF/ANSI 372 CUPC[®] IAPMO/ANSI Z115 NIBCO® **Handle Markings**





PC-FP-600A-LF-HC Press x Hose Cap 1/2" - 3/4"



PC-FP-600A-LF-HC Press x Hose Cap 1/2" - 3/4"

Tested to the performance criteria of ASMF B16.51

DIMENSIONS—WEIGHTS—QUANTITIES

S	IZE		Α	E	3	C	;		D	E			F	We	ight
In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	Lbs.	Kg.
1/2	12.7	4.51	114.50	3.62	92.00	1.34	34.00	0.59	15.00	1.46	37.20	3.11	79.00	0.5220	0.2368
3⁄4	19.05	5.10	129.50	4.13	105.00	2.06	52.20	0.79	20.00	1.74	44.20	3.52	89.50	0.8090	0.3669

IAPMO/ANSI Z1157: in addition to meeting ICG-157 test requirements, the IAPMO/ANSI Z1157 also requires Press

ends to be fully tested to IAPMO PS-117 performance requirements which includes the following additional tests: 1. Unrestrained Hydrostatic Pressure Test at 20 °C (68°F) 6. Hydraulic Shock (Water Hammer) Test

2. Unrestrained Hydrostatic Pressure Test at 93 °C (200°F)

- 7. Vibration Test 3. Static Torsion Test for Press Connections
 - 8. Thermal Cycling Test
 - 9. Alternate Thermal Cycling Test
 - 10. Dynamic Torsion Test for Press Connections

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.

NIBCO® Press System Lead-Free* Brass Ball Valves

Features: Press End Leak Detection • PEX end F1960 Cold Expansion • Two-Piece Body • PTFE Seats • Blowout-Proof Stem

Approvals: IAPMO/ANSI Z1157 (IGC-157) • NSF/ANSI-14 61 & 372 • MSS SP-145 • Conforms to ASME B16.51†

Size range: 1/2" - 2" Pressure rating: 250 PSI non-shock cold working pressure Maximum pressure / temperature: 225 PSI at 250° F

Lead-Free* markings: White handle and blue hang tag

EAD OF THE FLOW

Applications: Drinking Water • Domestic Hot & Cold Water • HVAC (condensors, chilled water, hot water heating) • Isolation and Throttling (half-open to full-open only) • Connect to Rigid Copper Tubing Manufactured per ASTM B88, Condition H (hard drawn)

Reference Press System catalog for updated Approved Tool and Jaw Compatibility Matrix list.

Not intended for steam or gas usage.

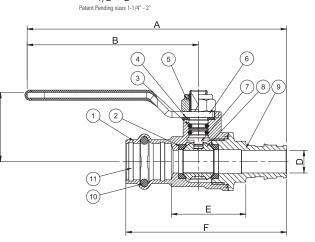
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		MATERIAL LIST
	PART	SPECIFICATION
1.	Body	Forged DZR Copper Alloy - C46500
2.	Seat Seal	PTFE
3.	O-ring	EPDM - ASTM D2000
4.	Washer	PTFE
5.	Lock Nut	Stainless Steel + Nylon
6.	Handle	Steel, Plated
7.	Stem	Brass
8.	Ball	Chrome Plated Brass - C46500 (1/2"-1")
		Stainless Steel 316 (11/4"-2")
9.	End Cap	Forged DZR Copper Alloy - C69300
10.	O-ring	EPDM - ASTM D2000
11.	Metal Ring	Stainless Steel (1-1/4"-2")*



PCPXA-FP-600A-LF Press x PEX (F1960 - Cold Expansion)

1/2" - 2"



PCPXA-FP-600A-LF Press x PEX (F1960 - Cold Expansion)

1/2" - 2" ^{††}

DIMENSIONS—WEIGHTS—QUANTITIES

NSF/ANSI 61 NSF/ANSI 372 CUPC IAPMO/ANSI Z115

PC-FP600A-L

NIRCO

Handle Markings

C

31	ZE		Α	E	3	(;	I)	E			F	We	ight
ln.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	Lbs.	Kg.
1/2	12.7	5.15	130.90	3.62	92.00	1.20	30.55	0.39	10.00	1.30	32.90	2.79	70.90	0.3400	0.1542
3⁄4	19.05	5.48	139.20	3.62	92.00	1.34	34.00	0.60	15.30	1.48	37.70	3.33	84.70	0.5090	0.2308
1	25.40	6.37	161.70	4.13	105.00	2.06	52.20	0.79	20.00	1.74	44.20	3.83	97.20	0.8620	0.3909
1 1⁄4															
1 ½	Coming Soon														
2															
	11E7. in additic	on to mooting	ICC 1E7 toot roc												
to be fully Inrestrain Inrestrain	tested to IAPM ed Hydrostatic ed Hydrostatic ion Test for Pr est	0 PS-117 perf c Pressure Te c Pressure Te	ormance require est at 20 °C (68° est at 93 °C (200	ments which PF) 6 PF) 7 8 9	e IAPMO/ANSI includes the fol . Hydraulic Sh . Vibration Tes . Thermal Cyc . Alternate Th 0. Dynamic To	lowing additi ock (Water st ling Test ermal Cycliu	onal tests: Hammer) Tes ng Test						0	verage lead cc nance criteria o ^{+†} P,	

NIBCO INC. WORLD HEADQUARTERS • 1516 MIDDLEBURY ST. • ELKHART, IN 46516-4740 • USA • PH: 1.800.234.0227 TECH SERVICES PH: 1.888.446.4226 • FAX: 1.888.336.4226 • INTERNATIONAL OFFICE PH: +1.574.295.3327 • FAX: +1.574.295.3455

www.nibco.com

Options:

•

•

Extended lever

Wing Handle

EPDM Seal for Press Ends

NIBCO[®] Press System Lead-Free^{*} Brass Ball Valves

Features: Press End Leak Detection • PEX End F1807 Crimp • Two-Piece Body • PTFE Seats • Blowout-Proof Stem

Approvals: IAPMO/ANSI Z1157 (IGC-157) • NSF/ANSI-14 61 & 372 • MSS SP-145 • Conforms to ASME B16.51†

```
Size range: 1/2" - 2"
```

Pressure rating: 250 PSI non-shock cold working pressure Maximum pressure / temperature: 225 PSI at 250° F

Lead-Free* markings: White handle and blue hang tag

Applications: Drinking Water • Domestic Hot & Cold Water • HVAC (condensors, chilled water, hot water heating) • Isolation and Throttling (half-open to full-open only) • Connect to Rigid Copper Tubing Manufactured per ASTM B88, Condition H (hard drawn)

Reference Press System catalog for updated Approved Tool and Jaw Compatibility Matrix list.

Not intended for steam or gas usage.

		MATERIAL LIST
	PART	SPECIFICATION
1.	Body	Forged DZR Copper Alloy - C46500
2.	Seat Seal	PTFE
3.	O-ring	EPDM - ASTM D2000
4.	Washer	PTFE
5.	Lock Nut	Stainless Steel + Nylon
6.	Handle	Steel, Plated
7.	Stem	Brass
8.	Ball	Chrome Plated Brass - C46500 (1/2"-1")
		Stainless Steel 316 (11/4"-2")
9.	End Cap	Forged DZR Copper Alloy - C69300
10.	O-ring	EPDM - ASTM D2000
11.	Metal Ring	Stainless Steel (1-1/4"-2") ⁺

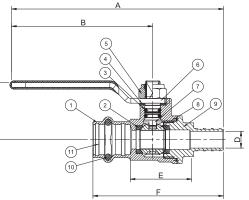


- Extended lever
- EPDM Seal for Press Ends
- Wing Handle



Handle Markings







†Tested to the performance criteria of ASME B16.51

⁺⁺Patent Pending

1/2" - 2" **

DIMENSIONS -WEIGHTS-QUANTITIES Weight SIZE Α В D F С Е In. Lbs. In. In. In. In. In. Kg. mm. mm. mm. mm. In. mm mm. mm. 92.00 12.7 129.90 3.62 1.20 30 55 0.39 10.00 1.30 32.90 2.75 69.90 0.3280 0.1487 1/2 5.11 3⁄4 19.05 5.19 131.70 3.62 92.00 1.34 34.00 0.60 15.30 1.50 38.20 3.04 77.20 0.4810 0.2181 25.40 5.97 151.70 4.13 105.00 2.06 52.20 0.80 20.30 1.72 43.70 3.43 87.20 0.7850 0.3560 1 1 1/4 1 1/2 Coming Soon 2

IAPMO/ANSI Z1157: in addition to meeting ICG-157 test requirements, the IAPMO/ANSI Z1157 also requires Press

- ends to be fully tested to IAPMO PS-117 performance requirements which includes the following additional tests: 1. Unrestrained Hydrostatic Pressure Test at 20 °C (68°F)
 - 6. Hydraulic Shock (Water Hammer) Test
- 2. Unrestrained Hydrostatic Pressure Test at 93 °C (200°F) 7. Vibration Test
 - 8. Thermal Cycling Test
- 3. Static Torsion Test for Press Connections 4. Bending Test
- 9. Alternate Thermal Cycling Test
 - **10. Dynamic Torsion Test for Press Connections**

5. Vacuum Test 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.

*Weighted average lead content $\leq 0.25\%$

NIBCO® Press System Lead-Free* Brass Ball Valves

Features: Press End Leak Detection • FIP Union • Two-Piece Body • PTFE Seats • Full Port • Blowout-Proof Stem

Approvals: IAPMO/ANSI Z1157 (IGC-157) • NSF/ANSI-61 & 372 • MSS SP-145 • Conforms to ASME B16.51†

Size range: 1/2" - 1"

Pressure rating: 250 PSI non-shock cold working pressure Maximum pressure / temperature: 225 PSI at 250° F

Lead-Free* markings: White handle and blue hang tag

Applications: Drinking Water • Domestic Hot & Cold Water • HVAC (condensors, chilled water, hot water heating) • Isolation and Throttling (half-open to full-open only) • Connect to Rigid Copper Tubing Manufactured per ASTM B88, Condition H (hard drawn)

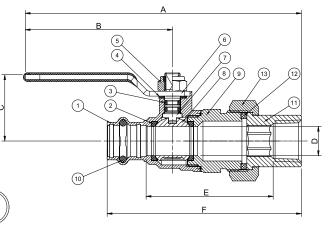
Reference Press System catalog for updated Approved Tool and Jaw Compatibility Matrix list.

Not intended for steam or gas usage.

		MATERIAL LIST
	PART	SPECIFICATION
1.	Body	Forged DZR Copper Alloy - C46500
2.	Seat Seal	PTFE
3.	O-ring	EPDM - ASTM D2000
4.	Washer	PTFE
5.	Lock Nut	Stainless Steel + Nylon
6.	Handle	Steel, Plated
7.	Stem	Brass
8.	Ball	Chrome Plated Brass - C46500
9.	End Cap	Forged DZR Copper Alloy - C46500
10.	O-ring	EPDM - ASTM D2000
11.	Fitting	Forged DZR Copper Alloy - C46500
12.	Washer	EPDM
13.	Nut	Brass



Press x FIP Union 1/2" - 1"



PCFU-FP-600A-LF Press x FIP Union 1/2" - 1"

Trested to the performance criteria of ASME B16 51

DIMENSIONS—WEIGHTS—QUANTITIES

NSF/ANSI 61 NSF/ANSI 372 c UPC

IO/ANSI Z115

S1

PC-FP600A-LF

NIRCO

Handle Markings

S	IZE		A	E	3	(;		D	E			F	We	ight
In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	Lbs.	Kg.
1/2	12.7	6.23	158.20	3.62	92.00	1.34	34.00	0.59	15.00	2.57	65.20	3.93	99.70	0.7720	0.3501
3⁄4	19.05	6.92	175.70	4.13	105.00	2.06	52.20	0.79	20.00	2.84	72.20	4.38	111.20	1.2040	0.5461
1	25.40	7.17	182.20	4.13	105.00	2.21	56.20	0.98	25.00	3.11	79.00	4.77	121.20	1.7750	0.8051

IAPMO/ANSI Z1157: in addition to meeting ICG-157 test requirements, the IAPMO/ANSI Z1157 also requires Press

ends to be fully tested to IAPMO PS-117 performance requirements which includes the following additional tests:

 1. Unrestrained Hydrostatic Pressure Test at 20 °C (66°F)
 6. Hydraulic Shock (Water Hammer) Test

 2. Unrestrained Hydrostatic Pressure Test at 93 °C (200°F)
 7. Vibration Test

2. Unrestrained Hydrostatic Pressure lest at 93 °C (. 3. Static Torsion Test for Press Connections

- 4. Bending Test
- 5. Vacuum Test

Options:

Extended lever

Wing Handle

EPDM Seal for Press Ends

9. Alternate Thermal Cycling Test 10. Dynamic Torsion Test for Press Connections

8. Thermal Cycling Test

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.

NIBCO[®] Press System Lead-Free^{*} Brass Ball Valves

Features: Press Ends Leak Detection • MIP Union • Two-Piece Body • PTFE Seats • Full Port • Blowout-Proof Stem

Approvals: IAPMO/ANSI Z1157 (IGC-157) • NSF/ANSI-61 & 372 • MSS SP-145 • Conforms to ASME B16.51†

Size range: 1/2" - 1"

Pressure rating: 250 PSI non-shock cold working pressure Maximum pressure / temperature: 225 PSI at 250° F

Lead-Free* markings: White handle and blue hang tag

Applications: Drinking Water • Domestic Hot & Cold Water • HVAC (condensors, chilled water, hot water heating) • Isolation and Throttling (half-open to full-open only) • Connect to Rigid Copper Tubing Manufactured per ASTM B88, Condition H (hard drawn)

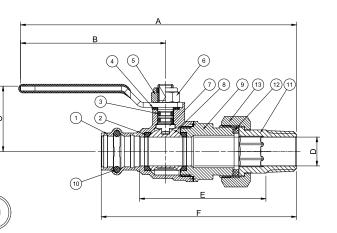
Reference Press System catalog for updated Approved Tool and Jaw Compatibility Matrix list.

Not intended for steam or gas usage.

		MATERIAL LIST
	PART	SPECIFICATION
1.	Body	Forged DZR Copper Alloy - C46500
2.	Seat Seal	PTFE
3.	O-ring	EPDM - ASTM D2000
4.	Washer	PTFE
5.	Lock Nut	Stainless Steel + Nylon
6.	Handle	Steel, Plated
7.	Stem	Brass
8.	Ball	Chrome Plated Brass - C46500
9.	End Cap	Forged DZR Copper Alloy - C46500
10.	O-ring	EPDM - ASTM D2000
11.	Fitting	Forged DZR Copper Alloy - C46500
12.	Washer	EPDM
13.	Nut	Brass



Press x MIP Union 1/2" - 1"



PCMU-FP-600A-LF Press x MIP Union 1/2" - 1"

DIMENSIONS—WEIGHTS—QUANTITIES

NSF/ANSI 61 NSF/ANSI 372 CUPC[®] IAPMO/ANSI Z11

SI	SIZE A		Α	E	3	C	;		D	E	E		F	Weight	
In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	ln.	mm.	Lbs.	Kg.
1/2	12.7	6.31	160.20	3.62	92.00	1.34	34.00	0.59	15.00	2.60	66.00	4.00	101.70	0.6720	0.3048
3⁄4	19.05	6.92	175.70	4.13	105.00	2.06	52.20	0.79	20.00	2.81	71.50	4.38	111.20	1.0580	0.4799
1	25.40	7.13	181.20	4.13	105.00	2.21	56.20	0.98	25.00	3.05	77.50	4.73	120.20	1.5790	0.7162
3⁄4" x 1⁄2"							(coming So	on						

3⁄4" x 1⁄2

Options:

Extended lever

Wing Handle

EPDM Seal for Press Ends

IAPMO/ANSI Z1157: in addition to meeting ICG-157 test requirements, the IAPMO/ANSI Z1157 also requires Press ends to be fully tested to IAPMO PS-117 performance requirements which includes the following additional tests:

1. Unrestrained Hydrostatic Pressure Test at 20 °C (68°F) 6. Hydraulic Shock (Water Hammer) Test

- 2. Unrestrained Hydrostatic Pressure Test at 93 °C (200°F)
- 3. Static Torsion Test for Press Connections
- 4. Bending Test
- 5. Vacuum Test

8. Thermal Cycling Test 9. Alternate Thermal Cycling Test

7. Vibration Test

10. Dynamic Torsion Test for Press Connections

PC-FP600A-LF

NIBCO

Handle Markings

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.

*Weighted average lead content $\leq 0.25\%$

†Tested to the performance criteria of ASME B16.51

NIBCO® Press System Lead-Free* Brass Ball Valves

Features: Press End Leak Detection • Solder Union • Two-Piece Body • PTFE Seats • Full Port • Blowout-Proof Stem

Approvals: IAPMO/ANSI Z1157 (IGC-157) • NSF/ANSI-61 & 372 • MSS SP-145 • Conforms to ASME B16.51†

Size range: 1/2" - 1"

Pressure rating: 250 PSI non-shock cold working pressure Maximum pressure / temperature: 225 PSI at 250° F

Lead-Free* markings: White handle and blue hang tag

Applications: Drinking Water • Domestic Hot & Cold Water • HVAC (condensors, chilled water, hot water heating) • Isolation and Throttling (half-open to full-open only) • Connect to Rigid Copper Tubing Manufactured per ASTM B88, Condition H (hard drawn)

Reference Press System catalog for updated Approved Tool and Jaw Compatibility Matrix list.

Not intended for steam or gas usage.

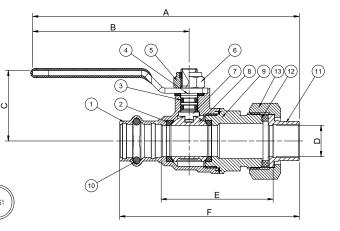
MATERIAL LIST	
ODEOLEIOATION	

	PART	SPECIF	FICATION
1.	Body	Forged D	DZR Copper Alloy - C46500
2.	Seat Seal	PTFE	
3.	O-ring	EPDM -	ASTM D2000
4.	Washer	PTFE	
5.	Lock Nut	Stainles	ss Steel + Nylon
6.	Handle	Steel, Pl	Plated
7.	Stem	Brass	
8.	Ball	Chrome	Plated Brass - C46500
9.	End Cap	Forged D	DZR Copper Alloy - C46500
10.	O-ring	EPDM -	ASTM D2000
11.	Fitting	Forged D	DZR Copper Alloy - C46500
12.	Washer	EPDM	
13.	Nut	Brass	
	i ons: Extended lever		Off Y PC-FP6DDA-LF NSFANSI 61 PF Y NBBCO0 LPF LPF Y Y AHEAD OF THE FLOW LPF LPF
	EPDM Seal for Press Ning Handle	Ends	Handle Markings



PCSU-FP-600A-LF Press x Solder Union

1/2" - 1"



PCSU-FP-600A-LF Press x Solder Union 1/2" - 1"

Tested to the performance criteria of ASMF B16.51

DIMENSIONS—WEIGHTS—QUANTITIES

SIZE		Α		B		(;		D	E			F	Weight	
In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	Lbs.	Kg.
1/2	12.7	5.72	145.20	3.62	92.00	1.34	34.00	0.59	15.00	2.13	54.10	3.41	86.70	0.6130	0.2780
3⁄4	19.05	6.64	168.70	4.13	105.00	2.06	52.20	0.79	20.00	2.44	62.10	4.10	104.20	1.0010	0.4540
1	25.40	6.90	175.20	4.13	105.00	2.21	56.20	0.98	25.00	2.68	68.10	4.50	114.20	1.4880	0.6749

IAPMO/ANSI Z1157: in addition to meeting ICG-157 test requirements, the IAPMO/ANSI Z1157 also requires Press

ends to be fully tested to IAPMO PS-117 performance requirements which includes the following additional tests: **1. Unrestrained Hydrostatic Pressure Test at 20 °C (68°F) 6. Hydraulic Shock (Water Hammer) Test**

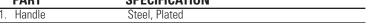
- 2. Unrestrained Hydrostatic Pressure Test at 20 °C (88°F)
- 3. Static Torsion Test for Press Connections
- 4. Bending Test
- 5. Vacuum Test

9. Alternate Thermal Cycling Test

7. Vibration Test 8. Thermal Cycling Test

10. Dynamic Torsion Test for Press Connections

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.



1.	Handle	Steel, Plated
2.	Nut, Handle	Steel, Plated
3.	Pack Gland	Brass ASTM B 16 Alloy C36000
4.	Packing, Stem	Virgin PTFE
5.	Washer, Flat	430 Stainless
6.	O-Ring (Stem Seal)	EPDM
7.	Washer, Thrust	Reinforced PTFE
8.	Stem	Silicon Bronze ASTM B371 Alloy C69300
9.	Body	Silicon Bronze ASTM B283 Alloy C69300
10.	Seat Ring	Virgin PTFE
11.	Ball	Silicon Bronze ASTM B283 Alloy C69300
12.	End Piece	Silicon Bronze ASTM B283 Alloy C69300

(includes annex F and G) and NSF/ANSI-372 Size range: 1/4" - 2"

Approvals: MSS SP-110 • NSF/ANSI-61-8 Commercial Hot 180°F

Lead-Free* Bronze Ball Valves

Pressure rating: 600 PSI non-shock cold working pressure Maximum pressure / temperature: 100 PSI at 300° F

Lead-free* markings: Double oval in body casting, white handle and blue hang tag

	PART	SPECIFICATION
1.	Handle	Steel, Plated
2.	Nut, Handle	Steel, Plated
3.	Pack Gland	Brass ASTM B 16 Alloy C36000
4.	Packing, Stem	Virgin PTFE
5.	Washer, Flat	430 Stainless
6.	O-Ring (Stem Seal)	EPDM
7.	Washer, Thrust	Reinforced PTFE
8.	Stem	Silicon Bronze ASTM B371 Alloy C69300
9.	Body	Silicon Bronze ASTM B283 Alloy C69300
10.	Seat Ring	Virgin PTFE
11.	Ball	Silicon Bronze ASTM B283 Alloy C69300
12.	End Piece	Silicon Bronze ASTM B283 Alloy C69300

MATERIAL LIST

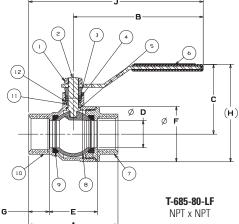
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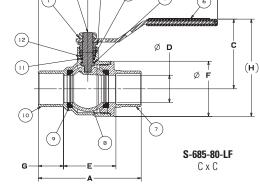
T-685-80-LF Threaded



Solder







DIMENSIONS—WEIGHTS—QUANTITIES

SI	ZE		4	E	3	(;)	E		F	:	(3		J	T-685	-80-LF	S-685	-80-LF	Master
In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	Lbs.	Kg.	Lbs.	Kg.	Ctn Qty.
1/4	8	1.98	50	3.95	100	1.95	50	0.31	8	1.09	28	1.24	31	0.42	11	4.93	125	0.52	0.24	_	_	24
3/8	10	1.98	50	3.95	100	2.01	51	0.50	13	1.09	28	1.24	31	0.40	10	4.93	125	0.49	0.22	0.46	0.21	24
1/2	15	2.22	56	3.95	100	2.01	51	0.50	13	1.00	25	1.24	31	0.61	15	5.06	129	0.47	0.21	0.46	0.21	80
3/4	20	2.66	68	4.76	121	2.30	58	0.75	19	1.42	36	1.64	42	0.63	16	6.09	155	0.70	0.32	0.69	0.31	60
1	25	3.27	83	4.76	121	2.56	65	1.00	25	1.77	45	2.03	52	0.75	19	6.4	163	1.10	0.50	1.12	0.51	40
1-1/4	32	3.56	90	6.75	171	3.07	78	1.25	32	2.01	51	2.38	60	0.76	19	8.51	216	1.69	0.77	1.66	0.75	4
1-1/2	40	3.98	101	6.75	171	3.31	84	1.50	38	2.44	62	2.89	73	0.77	20	8.73	222	2.58	1.17	2.71	1.23	2
2	50	4.52	115	6.75	171	3.56	90	2.00	51	2.94	75	3.6	91	0.79	20	9.01	229	4.37	1.98	4.62	2.1	8

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.

*Weighted average lead content $\leq 0.25\%$







Blowout-Proof Stem







Features: Silicon Performance Bronze® Alloy • Two-Piece Body • Full Port • Blowout-Proof Stem • Stainless Trim

Approvals: MSS SP-110 • NSF/ANSI-61-8 Commercial Hot 180°F (includes annex F and G) and NSF/ANSI-372

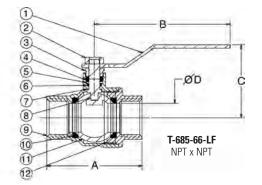
Size range: 1/4" - 2"

Pressure rating: 600 PSI non-shock cold working pressure Maximum pressure / temperature: 100 PSI at 300° F

Lead-free* markings:

Double oval in body casting, white handle and blue hang tag

		MATERIAL LIST
	PART	SPECIFICATION
1.	Handle	Steel, Plated
2.	Nut, Handle	Steel, Plated
3.	Pack Gland	Brass ASTM B16 Alloy C36000
4.	Packing, Stem	Virgin PTFE
5.	Washer, Flat	Stainless Steel ASTM A240 Alloy S43000
6.	O-Ring (Stem Seal)	EPDM
7.	Washer, Thrust	Reinforced PTFE
8.	Stem	Stainless Steel ASTM A276 Type 316
9.	Body	Silicon Bronze ASTM B283 Alloy C69300
10.	Seat Ring	Virgin PTFE
11.	Ball	Stainless Steel ASTM A276 Type 316 or ASTM A351 Type CF8M
12.	End Piece	Silicon Bronze ASTM B283 Alloy C69300





S-685-66-LF

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DIMENSIONS—WEIGHTS—QUANTITIES

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(12)

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		T-685	-66-LF	S-685	-66-LF		T-685-66-LF S-685-66-LF T-685-66-LF S-685-66-LF S-685-66-LF S-685-66-LF											-66-LF	-											
SI	ZE		۱		۱	E	3	(;		נ		E		E		F		G		G		J		J	T-685	-66-LF	T-685	-66-LF	Master
In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	ln.	mm.	Lbs.	Kg.	Lbs.	Kg.	Ctn. Qty.
1/4	8	1.98	50	2.02	51	3.95	100	1.95	50	0.31	8	1.09	28	1.4	36	1.24	31	0.42	11	0.31	8	4.93	125	4.88	124	0.52	0.24	0.50	0.23	24
3/8	10	1.98	50	2.12	54	3.95	100	2.01	51	0.5	13	1.09	28	1.36	35	1.24	31	0.4	10	0.38	10	4.93	125	4.88	124	0.49	0.22	0.46	0.21	24
1/2	15	2.22	56	2.34	59	3.95	100	2.01	51	0.5	13	1	25	1.34	34	1.24	31	0.61	15	0.5	13	5.06	129	4.98	126	0.47	0.21	0.46	0.21	80
3/4	20	2.66	68	3.13	80	4.76	121	2.3	58	0.75	19	1.42	36	1.63	41	1.64	42	0.63	16	0.75	19	6.09	155	6.23	158	0.70	0.32	0.69	0.31	60
1	25	3.27	83	3.77	96	4.76	121	2.56	65	1	25	1.77	45	1.92	49	2.03	52	0.75	19	0.92	23	6.4	163	6.58	167	1.10	0.50	1.12	0.51	40
1-1/4	32	3.56	90	4.21	107	6.75	171	3.07	78	1.25	32	2.01	51	2.25	57	2.38	60	0.76	19	0.97	25	8.51	216	8.72	221	1.39	0.77	1.66	0.75	4
1-1/2	40	3.98	101	4.84	123	6.75	171	3.31	84	1.5	38	2.44	62	2.63	67	2.89	73	0.77	20	1.1	28	8.73	222	9.05	230	2.58	1.17	2.81	1.23	2
2	50	4.52	115	5.83	148	6.75	171	3.56	90	2	51	2.94	75	3.12	79	3.6	91	0.79	20	1.36	35	9.01	229	9.57	243	4.37	1.98	4.62	2.10	8

MARNING: 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.





Lead-Free* Bronze Ball Valves

Features: Silicon Performance Bronze[®] Alloy • Two-Piece Body • Full Port • Blowout-Proof Stem

Approvals: MSS SP-110 • NSF/ANSI-61-8 Commercial Hot 180°F (includes annex F and G) and NSF/ANSI-372

Size range: 1/2" - 1"

Pressure rating: 600 PSI non-shock cold working pressure Maximum pressure / temperature: 100 PSI at 180° F

Lead-free* markings: Double oval in body casting, white handle and blue hang tag

M	IAT	ER	IAL	LIS	5T

	PART	SPECIFICATION
1.	Handle	Steel, Plated
2.	Nut, Handle	Steel, Plated
3.	Pack Gland	Brass ASTM B16 Alloy C36000
4.	Packing, Stem	Virgin PTFE
5.	Washer, Flat	430 Stainless
6.	O-Ring, Stem	EPDM
7.	Washer, Thrust	Reinforced PTFE
8.	Stem	Silicon Bronze ASTM B371 Alloy C69300
9.	Body, Solder	Silicon Bronze ASTM B283 Alloy C69300
10.	Seat Ring	Virgin PTFE
11.	Ball	Silicon Bronze ASTM B283 Alloy C69300
12.	End Piece, Solder	Silicon Bronze ASTM B283 Alloy C69300
13.	Drain Washer	Rubber
14.	Drain Cap	Brass ASTM B16 Alloy C36000

DIMENSIONS—WEIGHTS

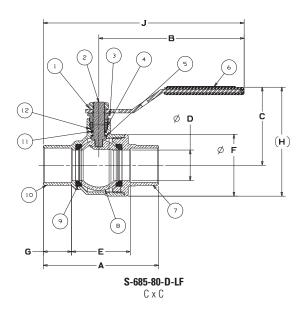
Nom.	Approx.	DIMENSIONS/INCHES										
Size	Net Wt./Lbs.	Α	В	C	D							
1/2	0.504	2.28	3.90	1.95	0.50							
3/4	0.943	3.05	4.66	2.30	0.75							
1	1.114	3.72	4.66	2.50	1.00							





S-685-80-D-LF Solder





	DIMENSIONS—WEIGHTS																		
NOM SIZE A B C D E F G J Weight										ight									
In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	Lbs.	Kg.	Lbs.	Kg.	Lbs.	Kg.
1/2	15	2.47	63	3.96	101	1.99	51	0.50	13	1.47	37	1.48	38	0.5	13	5.11	130	0.50	0.23
3/4	20	3.24	82	4.76	121	2.39	61	0.75	19	1.74	44	1.87	47	0.75	19	6.35	161	0.94	0.43
1	20	3.87	98	2.56	65	4.76	121	1.00	25	2.02	51	2.27	58	0.92	23	6.68	170	1.11	0.51

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.

*Weighted average lead content ≤ 0.25%

NIBC AHEAD OF THE FLOW



Lead-Free* Bronze Stop & Drain Valves

Features: Silicon Performance Bronze® alloy

Approvals: NSF/ANSI 61-8 (includes annex F and G) and NSF/ANSI 372

Pressure rating: 125 PSI non-shock cold working pressure Maximum pressure / temperature: 125 PSI at 180° F

Lead-free* markings: Double oval in body casting and white handle

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MATERIALS LIST

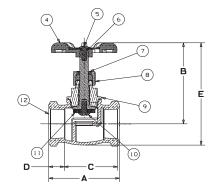
PART	SPECIFICATION
Body	ASTM B584 Alloy C87850
Bonnet	ASTM B584 Alloy C87850
Stem	Cold-formed Copper Alloy
Seat Disc	EPDM
Seat Disc Screw	Stainless Steel, Type 410
Packing Nut	Free Cutting Brass - ASTM B16
Packing	Graphite Impregnated, Asbestos-Free
Handwheel	Epoxy Coated Zinc Alloy
Handwheel Screw	Carbon Steel - Clear Chromate Finish



726-LF Cup x Cup

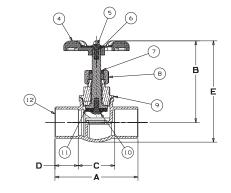


76-LF FIP x FIP



76-LF

DESCRIPTION	NOM.	DIMENS	APPROX.	
DESCRIPTION	SIZE	Α	В	NET WT.
Stop & Waste	1/2"	2 ³ /16"	2 ^{9/} 16"	.54 lb
Valve FIP x FIP	3/4"	2 ⁵ /16"	2 ⁹ /16"	.60 lb



726-LF

DESCRIPTION	*NOM.	DIMEN	APPROX.	
DESCRIPTION	SIZE	В	C	NET WT.
Stop & Waste	1/2"	2 ⁹ /16"	1 ³ /16"	.42 lb
Valve Cup x Cup	3/4"	2 ⁹ /16"	1 ³ /16"	.49 lb

DIMENSIONS—WEIGHTS—QUANTITIES

NO	/I SIZE		A	E	3		;		D		Ξ	F	-	76	LF	726	-LF	Master
In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	Lbs.	Kg.	Lbs.	Kg.	Ctn Qty.
1/2	15	2.16	55	2.19	56	1.44	37	0.36	9	3.06	78	2.12	54	0.54	0.XX	0.42	0.XX	50
3/4	20	2.28	58	2.31	59	1.28	33	0.50	13	3.21	82	2.12	54	0.60	0.XX	0.49	0.XX	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.

*Weighted average lead content ≤ 0.25%



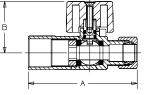
Pressure Rating: 125 PSI Non-Shock Cold Working Pressure





NIBCO® PRO-Stop® Supply Stops are specifically designed for use in applications that deliver water for human consumption; this includes commercial as well as residential construction.

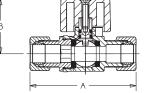




7120-LF 🔨

DECODIDITION	Inlet v Outlet	DIMEN	ISIONS	APPROX.
DESCRIPTION	Inlet x Outlet	A	В	NET WT.
STRAIGHT PATTERN	1/2 x 1/2 OD	2.73"	1.15"	.212 lb
Solder x Compression	1/2 x 3/8 OD	2.44"	1.15"	.172 lb



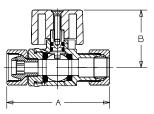


7140-LF 🛆

DECODIDITION	hulat is Outlat	DIMEN	ISIONS	APPROX.
DESCRIPTION	Inlet x Outlet	Α	В	NET WT.
	5/8 OD x 1/2 OD	2.62"	1.15"	.252 lb
	5/8 OD x 3/8 OD	2.34"	1.15"	.213 lb
STRAIGHT PATTERN	5/8 OD x 1/4 OD	2.28"	1.15"	.205 lb
Compression x Compression	½ OD x 1/2 OD	2.73"	1.15"	.245 lb
	1/2 OD x 3/8 OD	2.50"	1.15"	.207 lb
	3/8 OD x 3/8 OD	2.22"	1.15"	.170 lb

MATERIAL LIST							
PART	SPECIFICATION						
BODY / BODY END	DZR COPPER ALLOY CHROME PLATED						
RETAINER	DZR COPPER ALLOY						
STEM	DZR COPPER ALLOY						
BALL	DZR COPPER ALLOY CHROME PLATED						
COMPRESSION NUT	BRASS – CHROME PLATED						
FERRULE	BRASS						
0-RING	EPDM						
HANDLE	ABS – CHROME PLATED						
SCREW STAINLESS STEEL							

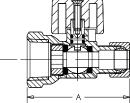




7140F-LF 🗥

DECODIDITION	lalat a Qutlat	DIMEN	ISIONS	APPROX.		
DESCRIPTION	Inlet x Outlet	Α	В	NET WT.		
STRAIGHT PATTERN Female Comp x Compression	3/8 ODF x 3/8 OD	2.09"	1.15"	.170 lb		





7150-LF 🗥

DECODIDITION	Inlet x Outlet	DIMEN	ISIONS	APPROX.	
DESCRIPTION	Inlet x Outlet	Α	В	NET WT.	
	1/2 x 1/2 OD	2.28"	1.21"	.228 lb	
STRAIGHT PATTERN FIP x Compression	1/2 x 3/8 OD	2.09"	1.21"	.197 lb	
	3/8 x 3/8 OD	2.01"	1.15"	.160 lb	



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.

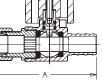
*Weighted average lead content ≤ 0.25%

Pressure Rating: 125 PSI Non-Shock Cold Working Pressure



NIBCO[®] PRO-Stop[®] Supply Stops are specifically designed for use in applications that deliver water for human consumption; this includes commercial as well as residential construction.

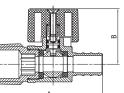




7160-LF 🔨

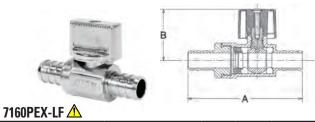
DECODIDITION	Inlet x Outlet	DIMEN	ISIONS	APPROX.	
DESCRIPTION	Intel X Outlet	Α	В	NET WT.	
STRAIGHT PATTERN	1/2 x 3/8 OD	2.24"	1.15"	.152 lb	
PEX x Compression	1/2 x 1/4 OD	2.27"	1.15"	.153 lb	





7160M-LF 🔨

DESCRIPTION			ISIONS	APPROX.
DESCRIPTION	DESCRIPTION Inlet x Outlet	Α	В	NET WT.
STRAIGHT PATTERN PEX x MIP	1/2 x 1/2	2.22"	1.15"	.159 lb

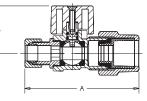


DESCRIPTION	Inlat v Outlat	DIMEN	ISIONS	APPROX.
DESCRIPTION	N Inlet x Outlet	Α	В	NET WT.
STRAIGHT PATTERN PEX x PEX	1/2 x 1/2	2.26"	1.15"	.134 lb

MARNING: 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.

MATERIAL LIST				
PART	SPECIFICATION			
BODY / BODY END	DZR COPPER ALLOY CHROME PLATED			
STEM	DZR COPPER ALLOY			
BALL	DZR COPPER ALLOY CHROME PLATED			
COMPRESSION NUT	BRASS – CHROME PLATED			
FERRULE	BRASS			
0-RING & GASKET	EPDM			
TRANSITION TAILPIECE	CPVC			
HANDLE	ABS – CHROME PLATED			
SCREW	STAINLESS STEEL			

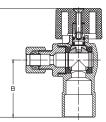




7170-LF 🔨

DECODIDEION	la la tru Outla t	DIMENSIONS		APPROX.
DESCRIPTION	Inlet x Outlet	A	В	NET WT.
STRAIGHT PATTERN CPVC x Compression	1/2 x 3/8 OD	2.80"	1.17"	.262 lb

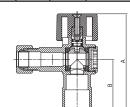




7125-LF <u>^</u>

DESCRIPTION	Inlet x Outlet	DIMENSIONS		APPROX.	
	Intel X Outlet	Α	В	NET WT.	
ANGLE PATTERN Solder x Compression	1/2 x 1/2 OD	2.46"	1.29"	.220 lb	
	1/2 x 3/8 OD	2.46"	1.29"	.185 lb	
	1/2 x 1/4 OD	2.46"	1.29"	.182 lb	





*Weighted average lead content ≤ 0.25%

7125DX-LF 🛝

DECORIDITION	lalata Ordet	DIMENSIONS		APPROX.
DESCRIPTION	Inlet x Outlet	Α	В	NET WT.
DUAL OUTLET ANGLE PATTERN Solder x Comp x Comp	1/2 x 3/8 OD x 3/8 OD	2.44"	1.28"	.237 lb

NIBCO INC. WORLD HEADQUARTERS • 1516 MIDDLEBURY ST. • ELKHART, IN 46516-4740 • USA • PH: 1.800.234.0227 TECH SERVICES PH: 1.888.446.4226 • FAX: 1.888.336.4226 • INTERNATIONAL OFFICE PH: +1.574.295.3327 • FAX: +1.574.295.3455

www.nibco.com



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Pressure Rating: 125 PSI Non-Shock Cold Working Pressure

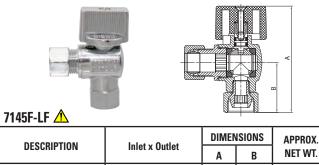


NIBCO® PRO-Stop® Supply Stops are specifically designed for use in applications that deliver water for human consumption; this includes commercial as well as residential construction.



7145-LF 🔨

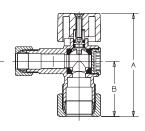
DESCRIPTION	Inlet x Outlet	DIMEN	ISIONS	APPROX.	
	miet x Outlet	Α	В	NET WT.	
	5/8 OD x 1/2 OD	2.50"	1.33"	.261 lb	
	5/8 OD x 3/8 OD	2.50"	1.33"	.224 lb	
ANGLE PATTERN	5/8 OD x 1/4 OD	2.50"	1.33"	.224 lb	
Compression x Compression	1/2 OD x 1/2 OD	2.50"	1.33"	.245 lb	
	1/2 OD x 3/8 OD	2.50"	1.33"	.205 lb	
	3/8 OD x 3/8 OD	2.23"	1.06"	.171 lb	



DESCRIPTION	lalat a Ordat	DIMEN	DIMENSIONS	APPROX.			
	Inlet x Outlet	Α	В	NET WT.			
ANGLE PATTERN Female Comp x Compression	3/8 ODF x 3/8 OD	2.19"	1.03"	.176 lb			

MATERIAL LIST						
PART	PART SPECIFICATION					
BODY / BODY END	DZR COPPER ALLOY CHROME PLATED					
RETAINER	DZR COPPER ALLOY					
STEM	DZR COPPER ALLOY					
BALL	DZR COPPER ALLOY CHROME PLATED					
COMPRESSION NUT	BRASS – CHROME PLATED					
FERRULE	BRASS					
0-RING	EPDM					
HANDLE	ABS – CHROME PLATED					
SCREW	STAINLESS STEEL					

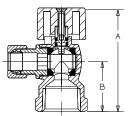




7145DX-LF 🕂

DECODIDITION			ISIONS	APPROX.
DESCRIPTION	Inlet x Outlet	Α	В	NET WT.
DUAL OUTLET	5/8 OD x 3/8 OD x 3/8 OD	2.51"	1.35"	.284 lb
ANGLE PATTERN Comp x Comp x Comp	5/8 OD x 3/8 OD x 1/4 OD	2.51"	1.35"	.287 lb





7155-LF 🔨

DESCRIPTION	hulat u Outlat	DIMENSIONS		APPROX.	
	Inlet x Outlet	Α	В	NET WT.	
ANGLE PATTERN FIP x Compression	1/2 x 1/2 OD	2.25"	1.08"	.246 lb	
	1/2 x 3/8 OD	2.25"	1.08"	.209 lb	
	1/2 x 1/4 OD	2.25"	1.08"	.207 lb	
	3/8 x 3/8 OD	2.15"	.980"	.177 lb	

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.

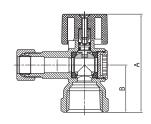


Pressure Rating: 125 PSI Non-Shock Cold Working Pressure



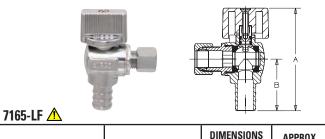
NIBCO[®] PRO-Stop[®] Supply Stops are specifically designed for use in applications that deliver water for human consumption; this includes commercial as well as residential construction.





7155DX-LF 🛆

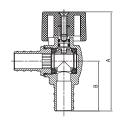
DESCRIPTION	Inlet x Outlet	DIMEN	ISIONS	APPROX.
DESCRIPTION	illiet x outlet	A B	NET WT.	
DUAL OUTLET	1/2 x 3/8 OD x 3/8 OD	2.25"	1.08"	.260 lb
ANGLE PATTERN FIP x Comp x Comp	1/2 x 3/8 OD x 1/4 OD	2.25"	1.08"	.263 lb



DECODIDITION	Index of Order	DIMEN	ISIONS	APPROX.
DESCRIPTION	Inlet x Outlet	Α	В	NET WT.
ANGLE PATTERN	1/2 x 3/8 OD	2.35"	1.18"	.164 lb
PEX x Compression	1/2 x 1/4 OD	2.35"	1.18"	.165 lb

MATERIAL LIST								
PART	SPECIFICATION							
BODY / BODY END	DZR COPPER ALLOY CHROME PLATED							
STEM	DZR COPPER ALLOY							
BALL	DZR COPPER ALLOY CHROME PLATED							
COMPRESSION NUT	BRASS – CHROME PLATED							
FERRULE	BRASS							
O-RING & GASKET	EPDM							
TRANSITION TAILPIECE	CPVC							
HANDLE	ABS – CHROME PLATED							
SCREW	STAINLESS STEEL							

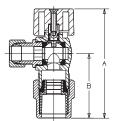




7165PEX-LF 🔨

DECONIDION	lalat a Outlat	DIMEN	ISIONS	APPROX.
DESCRIPTION	Inlet x Outlet	Α	В	NET WT.
ANGLE PATTERN PEX x PEX	1/2 x 1/2	2.35"	1.18"	.148 lb





7175-LF \Lambda

DESCRIPTION	lalat a Ordet	DIMEN	ISIONS	APPROX.
DESCRIPTION	Inlet x Outlet	Α	В	NET WT.
ANGLE PATTERN CPVC x Compression	1/2 x 3/8 OD	2.85"	1.69"	.279 lb



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.

NIBCO® PRO-Stop® End Connection Information

NIBCO[®] Pro-Stop[®] Supply Stops are available with several end connection styles and types allowing connection to a variety of supply piping as follows:

FIP (Female Iron Pipe):

• Internal National Pipe Taper (NPT) threads per ASMEI B1.20.1.

AD OF THE FLOW

MIP (Male Iron Pipe)

• External National Pipe Taper (NPT) threads per ASME B1.20.1.

Solder

N | = 3

 Solder cup, dimensionally compliant with ASME B16.18 or B16.22, for connection to copper tubing conforming to ASTM B88 by soldering.

PEX

• Male barbed end, dimensionally compliant with ASTM F1807 and CSA B137.5, intended to be inserted inside PEX tubing and joined using copper crimp ring or stainless steel sleeve.

CPVC

• Internal socket, dimensionally compliant with ASTM D2846, for connection by solvent welding to CPVC-CTS tubing.

PUSH:

 Internal socket that utilizes an elastomeric seal that fits into an annual recess and is compressed radially upon insertion of tubing and gripper ring that holds the tubing in place. Intended for connection to copper tubing conforming to ASTM B88, CPVC-CTS tubing conforming to ASTM D2846, or PEX tubing (with tubing insert for support) conforming to ASTM F876.

Compression

Internal socket-type of connection, based on SAE J512, for joining to copper tubing conforming to ASTM B88. The radial deformation (compression) of a metallic ferrule seals and grips the tubing.

Female Comp

Internally threaded connection that connects to a valve or fitting with compression end, once the compression nut and ferrule are removed. Sealing is by means of an elastomeric seal drawn up tight against the externally threaded end of the compression connection.

Installation instructions are printed on the back side of the plastic bags containing each specific model of NIBCO 7000 Series Supply Stops.

Concerning Compression-Style Joint Assemblies

For compression-type connections we recommend connecting only copper tubing. In general, there should be no need to apply pipe sealant compound or PTFE tape to the compression joint and the nut on a compression connection should be tightened to the point of feeling resistance, then tightening no more than additional ½ turn. Do Not Overtighten.

Although compression-end style end connections will mate onto tubing of other materials, such as, CPVC-CTS and PEX tubing, NIBCO does not recommend installing compression end assemblies on any piping product other than copper tubing conforming to ASTM B88.



Lead-Free* Iron Valves



Grooved End Butterfly Valves GD-4765-N

- Sizes: 2" through 12"
- Polyamide coated ductile iron body
- EPDM encapsulated disc
- NSF/ANSI 61-8 and NSF/ANSI 372
- Conforms to MSS SP-67
- Reference catalog C-BFV for spec sheet



Lug/Wafer Style Butterfly Valves

- Sizes: 2" through 12"
- Ductile iron body
- Molded-in EPDM seat liner
- NSF/ANSI 372
- Designed to comply with MSS SP 67
- Reference catalog C-BFV for spec sheet



Silent Check Valves 900/910/920/960 Series

- 2" through 36"
- Wafer, flanged or grooved ends
- Performance Bronze® trim
- NSF/ANSI 61-8 and NSF/ANSI-372
- Conforms to MSS SP-125
- Reference catalog C-BIV for spec sheets



Lead-Free* Iron Valves



Resilient Wedge Gate Valves 607/619-RW

- Sizes: 2-1/2" through 12"
- Epoxy coated interior/exterior
- Ductile iron ASTM A536 / EPDM ASTM D2000
- Rising and non-rising stem
- NSF/ANSI 372
- Reference catalog C-BIV for spec sheets



Ductile Iron Gate Valves F-637-33

- Sizes: 2" through 24"
- OS&Y / raised face flanges
- 316 stainless steel trim
- Solid wedge
- NSF/ANSI 61-8 and NSF/ANSI 372
- Reference catalog C-BIV for spec sheets



Ductile Iron Swing Check Valves F-938-33

- Sizes: 2" through 12"
- Bolted bonnet
- 316 stainless steel trim
- Raised face flanges
- NSF/ANSI 61-8 and NSF/ANSI 372
- Reference catalog C-BIV for spec sheets

Performance Bronze[®] 580, 585 & 595 Series Thread, Solder and NIBCO[®] Press System[®] Ball Valve Handles

A wide variety of handles are available to fulfill safety and operation requirements. The carbon steel lever handle with plastisol cover is standard and additional handle options are shown. If an optional handle is desired, please indicate which one when ordering. Some options are factory installed and some require field assembly.



*Weighted average lead content $\leq 0.25\%$

Performance Bronze® Threaded, Solder and NIBCO® Press System Ball Valves



NIB-SEAL® Technical Data

NIBCO $^{\circ}$ bronze ball valves installed with NIB-SEAL $^{\circ}$ insulated handles are the best approach that keeps your insulated piping system completely intact.

The revolutionary NIB-SEAL[®] insulated handle system used with a NIBCO bronze ball valve, stops condensate, cold. Its unique thermal barrier design keeps moisture from infiltrating your insulated system while preventing thermal energy loss through exposed metal handles.

Designed for new installations or retrofitting existing systems, NIB-SEAL® bronze ball valves offer a wide range of advantages where insulated piping is desirable.

In addition, the NIB-SEAL[®] handle was tested to UL 2043 and is UL listed for installation in air-handling spaces (plenums).

- Protective sleeve provides a stationary surface to affix the insulation, allowing operation of the valve without destroying the integrity of the insulated system.
- High-strength CPVC cylindrical handle design features easy access to standard adjustable memory stop for system balancing.
- Cap and insulating plug provide a vapor seal to prevent exchange of air, to maximize the efficiency of your insulated piping system.
- Position indicators allow at-a-glance determination of whether valve is in open or closed position.
- Preformed hole allows for convenient tagging.



Cap keeps moisture-laden air out to reduce chance of condensate formation

Insulation plug provides vapor seal, keeping air from infiltrating the insulated system

Handle nut

Indicator gives at-a-glance valve position

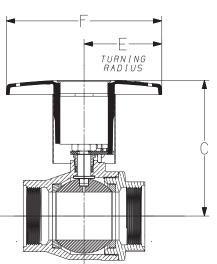
Memory stop plate and screws for system balancing

Preformed hole for identification tag

Extension handle of durable non-thermal conductive CPVC prevents formation of condensation

Protective sleeve allows operation of valve handle and maintenance of valve packing while maintaining integrity of piping insulation

NIBCO two-piece or three-piece bronze ball valve is an integral part of the NIB-SEAL valve system



	Dimensions									
	Va	alve Serie	S	Va	lve Serie	s				
		580-LF		5	85/595-LF					
Size	С	E	F	С	E	F				
.250	_	_	_	3.750	2.188	4.25				
.375	—	_	_	3.750	2.188	4.25				
.500	—	-	_	3.750	2.188	4.25				
.750	_	_	_	4.000	2.188	4.25				
1.000	_	_	_	4.25	2.188	4.25				
1.250	4.250	2.188	4.25	5.375	3.375	6.50				
1.500	5.375	3.375	6.50	5.563	3.375	6.50				
2.000	5.563	3.375	6.50	5.875	3.375	6.50				
2.500	5.875	3.375	6.50	_	_	_				
*Use 58	5/595 fo	r 1/4" - 1"								

For bronze ball valves with factory-installed NIB-SEAL® insulated handle, order appropriate NIBCO valve figure number with suffix "NS."

Example: T-585-80-LF-NS, 1/2"

NIB-SEAL on sweat ball valves are shipped unassembled.

Sample Specification

For piping systems requiring up to 2" of insulation, specify a non-conductive CPVC extended-handle bronze ball valve tested to UL 2043, is UL listed for installation in air handling spaces (plenums),that offers a vapor seal, adjustable memory stop, position indicators and convenient valve packing maintenance—all without disturbing the insulation. Specify NIB-SEAL[®] insulated handle.

Example: T-585-80-LF-NS

*Weighted average lead content $\leq 0.25\%$

U.S. PATENT 9,810,344

NIB-SEAL® Locking Handle

The patented technology of the 3-in-1 NIB-SEAL locking handle solves three problems at once: **it extends, it insulates,** and **it locks**. The innovative locking handle design extends valve actuation to provide ample room for insulating around piping systems, and its unique thermal barrier system prevents heat transfer and condensate development. The NIB-SEAL locking handle also allows the valve to be locked in the full open or closed position to prevent incidental actuation.

Designed for new installations, the NIB-SEAL locking handle is engineered to work with NIBCO $^{\mbox{\tiny B}}$ bronze ball valves.**

Applications: For piping systems requiring up to 2" of insulation, specify a non-conductive CPVC extended-locking handle bronze ball valve tested to UL 2043, and UL listed for installation in air handling spaces. The assembly offers a vapor seal, position indicators, locking device, and actuation without disturbing the insulation. Designed for new installations, the NIB-SEAL locking handle installed on bronze ball valves offers a wide range of advantages for typical commercial HVAC systems as well as industrial applications where insulated piping with a locking device is desirable. Specify NIB-SEAL insulated locking handle.

Approvals: UL 2043

Safety Lock Compatibility: Cable lock as small as ¹/₈" diameter to padlock as big as 0.33" diameter shackle.

Temperature Range: 15° F to 250° F

Not intended for steam applications in excess of 15 PSI.



LOCKING DEVICE works with padlock* or cable lock*

CAP keeps moisture-laden air out to reduce chance of condensate formation

INSULATION PLUG provides vapor seal, reducing air infiltrating the system

LOCKING MECHANISM

EXTENSION HANDLE of durable non-thermal conductive CPVC prevents formation of condensation

PREFORMED HOLE for identification tag

PROTECTIVE SLEEVE allows operation of valve handle and maintenance of valve packing while maintaining integrity of piping insulation



NIBCO BALL VALVE

Dimensions

Series 585											
Sizes		4		В	(C					
	In.	mm.	In.	mm.	In.	mm.					
1⁄4″	2.19	55.58	4.25	107.95	5.30	134.59					
³ ⁄8″	2.19	55.58	4.25	107.95	5.30	134.58					
1⁄2″	2.19	55.58	4.25	107.95	5.42	137.56					
3⁄4″	2.19	55.58	4.25	107.95	5.69	144.50					
1″	2.19	55.58	4.25	107.95	5.88	149.40					
11⁄4″	3.38	85.73	6.50	165.10	6.84	173.67					
11⁄2″	3.38	85.73	6.50	165.10	7.06	179.33					
2″	3.38	85.73	6.50	165.10	7.30	185.44					

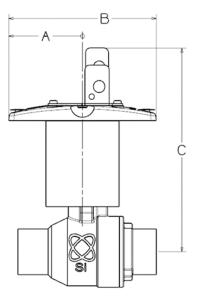
Factory installed only.

Order appropriate factory installed NIBCO valve figure number with suffix "LX". Example: T-585-70-LX, $\prime\!\!/_2$ "

NIB-SEAL on solder/sweat ball valves are shipped unassembled.

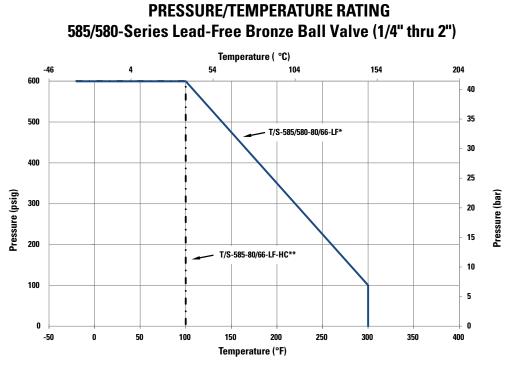
** Valve type showing above is just for handle representation

* Padlock and cable lock not included

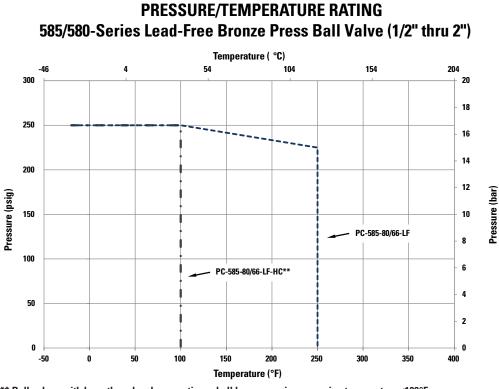




Pressure Temperature Ratings - T/S/PC-585/580-LF



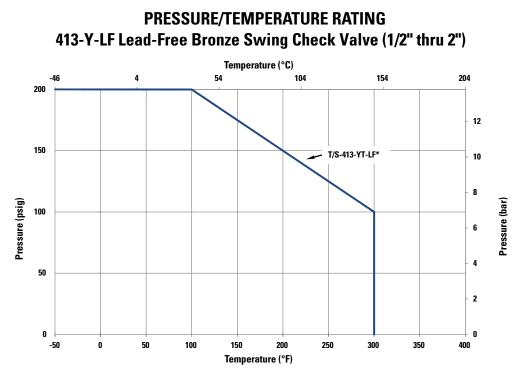
* Ball valves with solder cup end connections shall have maximum working pressure derated based upon a maximum service temperature of 250°F. Reference ASME B16.18 or the NIBCO Commercial Ball Valve catalog for further information. ** Ball valves with hose thread end connections shall have a maximum service temperature 100°F.



** Ball valves with hose thread end connections shall have a maximum service temperature ${\leq}100^{\circ}\text{F}.$



Pressure Temperature Ratings - T/S-413-Y-LF



* Swing check valves with solder cup end connections shall have maximum working pressure derated based upon a maximum service temperature of 250°F. Reference ASME B16.18 or the NIBCO® Bronze & Iron Valve catalog for further information.





www.nibco.com

Engineering Data Index

Listings, Approvals and Standards	
Valve Sample Specifications	
Chemistries and Properties of Copper Alloys	
Figure Number Comparison	
Valve Installation	
Valve Warranty	

Listings, Approvals and Standards

ASME A112.4.14, *Manually Operated, Quarter-Turn Shutoff Valves for Use in Plumbing Systems*, establishes requirements for manually operated, quarter-turn valves in nominal sizes less than or equal to NPS 2. These valves are intended for indoor installation as potable water shutoff valves between the meter and the supply stop. Valves covered by this Standard are intended for service at temperatures between 34°F (1°C) and 180°F (82°C), with an allowable working pressure rating not less than 125 psi (862 kPa).

ASME A112.18.1/CSA B125.1, *Plumbing Supply Fittings*, establishes requirements for plumbing supply fittings and accessories located between the supply stop and the terminal fitting, including lawn and sediment faucets; kitchen sink, lavatory, bidet, bath, and shower supply fittings; humidifier and clothes washer supply stops; and supply stop valves.

IAPMO IGC-157, *Ball Valves*, covers ball valves in sizes NPS 1/8 to NPS 4, with rated working pressures of at least 125 psi (860 kPa), intended for water supply systems, and specifies requirements for materials, physical characteristics, performance testing, and markings.

IAPMO/ANSI Z1157, *Press Ball Valves*, in addition to meeting ICG-157 test requirements, the IAPMO/ANSI Z1157 also requires Press ends to be fully tested to IAPMO PS-117 performance requirements which includes the following additional tests:

- 1. Unrestrained Hydrostatic Pressure Test at 20 °C (68°F)
- 2. Unrestrained Hydrostatic Pressure Test at 93 °C (200°F)
- 3. Static Torsion Test for Press Connections
- 4. Bending Test
- 5. Vacuum Test

- 6. Hydraulic Shock (Water Hammer) Test
- 7. Vibration Test
- 8. Thermal Cycling Test
- 9. Alternate Thermal Cycling Test
- 10. Dynamic Torsion Test for Press Connec

MSS SP-25, *Standard Marking Systems for Valves, Fittings, Flanges and Unions*, establishes a marking system that applies to valves, fittings, flanges, and unions used in piping connections that include, but are not limited to, flanged, soldered, brazed, threaded, or welded joints. These specified markings serve to identify the manufacturer, rating designation, materials of construction, and special service limitations imposed by the manufacturer.

MSS SP-80, *Bronze Gate, Globe, Angle, and Check Valves*, establishes minimum requirements pressure-temperature ratings, materials, end connections, dimensions, marking, inspection, and testing of bronze gate, globe, angle, and check valves in Class 125, 150, 200, 300, and 350 for threaded and solder ends and Class 150 and 300 for flanged ends.

MSS SP-110, *Ball Valves Threaded, Socket-Welding, Solder-Joint, Grooved, and Flared Ends*, covers carbon steel, alloy steel, stainless steel, gray cast iron, ductile iron, malleable iron and copper alloy ball valves with threaded, socket-welding, solder-joint, grooved, and flared end connections. The sizes covered range from nominal size 1/4 through 4. These valves are intended for on-off operation and should be used for modulating or throttling only when recommended by the manufacturer.

Listings, Approvals and Standards (cont...)

MSS SP-139, *Copper Alloy Gate, Globe, Angle, and Check Valves for Low Pressure/Low Temperature Plumbing Applications*, establishes requirements for pressure-temperature ratings, materials, end connections, dimensions, marking and testing of copper alloy gate, globe, angle, and check valves for use in plumbing applications and other purposes where a non-Class, Cold Working Pressure (CWP) rating is sufficient.

MSS SP-145, *Metal Ball Valves for Low Pressure/Low Temperature Plumbing Applications*, establishes requirements for pressure-temperature ratings, materials, design, dimensions, marking, and testing of ball valves with a minimum CWP rating of 125 psi (860 kPa).

NSF/ANSI 14, *Plastics Piping System Components and Related Materials*, establishes minimum physical, performance, and health effects requirements for plastic piping system components and related materials, including but not limited to pipes, fittings, valves, joining materials, gaskets, and appurtenances. These criteria were established for the protection of public health and the environment.

NSF/ANSI 61, *Drinking Water System Components* – Health Effects, establishes minimum requirements for the chemical contaminants and impurities that are indirectly imparted to drinking water from products, components, and materials used in drinking water systems. It is intended to cover specific materials or products that come in contact with; drinking water, drinking water treatment chemicals, or both. The products and materials covered include, but are not limited to, process media, protective materials, joining and sealing materials, pipes, and related products, mechanical devices used in treatment, transmission, or distribution systems, and mechanical plumbing devices.

- **Cold Water Application:** An end-use that is intended to result in continuous exposure to water at ambient temperature. Products are tested for an end-use temperature of 73 ± 4°F (23 ± 2°C).
- **Domestic Hot Water Application:** An end-use that is intended to result in continuous or intermittent exposure to water above that is above ambient; such as a part of the hot side of a residential piping system. Products are tested for an end-use temperature of 140 ± 4°F (60 ± 2°C).
- **Commercial Hot Water Application:** An end-use that is intended to result in continuous or intermittent exposure to water that is above ambient and domestic hot conditions; such as a part of the hot side of a commercial piping system (e.g., commercial dishwasher). Products are tested for an end-use temperature of 180 ± 4°F (82 ± 2°C).
- Annex F: This revision lowered the total allowable concentration (TAC) for lead from 15 μg/L to 5 μg/L and lowered the single product allowable concentration (SPAC) for lead from 1.5 μg/l to 0.5 μg/L. The requirements defined within Annex F of NSF/ANSI 61 were incorporated into the body of the standard on July 1, 2012.
- Annex G: An optional evaluation method for products that need to meet a 0.25% weighted average lead content standard. Products evaluated for compliance with Annex G must first comply with the full requirements of NSF/ ANSI 61. The method for evaluation of lead content is in accordance with NSF/ANSI 372.

NSF/ANSI 372, *Drinking Water System Components* – Lead Content, establishes procedures for the determination of lead content based on the wetted surface areas of products. This Standard applies to any drinking water system component that conveys or dispenses water for human consumption through drinking or cooking.

Sample Specification

LINE CONTROL VALVES 3" AND SMALLER

SILICON BRONZE TWO-PIECE BALL VALVES – **THREAD AND SOLDER:** Valves shall be rated 600 PSI non-shock CWP and will have 2-pc. lead-free^{*} dezincification-resistant body, end piece, stem and ball, PTFE seats, full port, separate pack nut with adjustable stem packing, anti-blowout stems and have the capability of accepting extended operating handles. Valve ends shall have full depth ANSI threads or extended solder connections. Valves shall conform to MSS SP-110 and be 3rd party certified to NSF/ANSI-61-8 (commercial hot 180°F), NSF/ANSI-372, and IAPMO IGC-157.

ACCEPTABLE VALVES: NIBCO® T-585-80-LF (thread); S-585-80-LF (solder) or T-585-66-LF (thread); S-585-66-LF (solder)

NIB-SEAL[®]: Where piping is insulated, ball valves shall be equipped with 2" extended handles of non-thermal conductive material that meets UL 2043 approved for inside air plenum. Also provide a protective sleeve that allows operation of the valve without breaking the vapor seal or disturbing the insulation. Memory stops, which are fully adjustable after insulation is applied, shall be included.

ACCEPTABLE VALVES:

NIBCO® T-585-80-LF-NS (thread); S-585-80-LF-NS (solder) or T-585-66-LF-NS (thread); S-585-66-LF-NS (solder)

SILICON BRONZE BALL VALVES – **PRESS SYSTEM**[®]: Valve body rated to 600 PSI non-shock CWP, connections rated to 250 PSI CWP, lead-free^{*} dezincification-resistant body, end piece, stem and ball, PTFE seats, full port, separate pack nut with adjustable stem packing, anti-blowout stems and have the capability of accepting extended operating handles. Valve ends shall be wrot copper ASTM B75 alloy for copper to copper pipe connections. Valves shall conform to MSS SP-145 and be 3rd party certified to NSF/ANSI-61-8 (commercial hot 180°F), NSF/ANSI-372, and IAPMO IGC-157.

ACCEPTABLE VALVES: NIBCO® PC-585-80-LF or PC-585-66-LF

SILICON BRONZE THREE-PIECE BALL VALVES: Valves shall be rated 600 PSI non-shock CWP and will have 3-pc. lead-free^{*} dezincification-resistant body, end pieces, stem and ball, PTFE seats, full port, separate pack nut with adjustable stem packing, anti-blowout stems and have the capability of accepting extended operating handles. Valve ends shall have full depth ANSI threads or extended solder connections. Valves shall conform to MSS SP-110 and be 3rd party certified to NSF/ANSI-61-8 (commercial hot 180°F) and NSF/ANSI-372.

ACCEPTABLE VALVES: NIBCO® T-595-Y-LF (thread); S-595-Y-LF (solder) or T-595-Y-66-LF (thread); S-595-Y-66-LF (solder)

SILICON BRONZE GATE VALVES: Valves shall be rated 300 PSI non-shock CWP, rising or non-rising stem, screw-in bonnet, solid wedge. Body, bonnet, external stuffing box and wedge are to be of lead-free* dezincification-resistant material. Stems shall be of dezincificationresistant silicon bronze ASTM B 371 or low-zinc alloy B 99, non-asbestos packing and malleable or ductile iron hand wheel. Valve ends may be threaded or solder-type. Valves shall conform to MSS SP-139 and be 3rd party certified to NSF/ANSI-61-8 (commercial hot 180°F) and NSF/ANSI-372.

ACCEPTABLE VALVES: NIBCO® T-111-LF (thread); S-111-LF (solder); T-113-LF (thread); S-113-LF (solder)

SILICON BRONZE SWING CHECK VALVES: Valves shall be Y-pattern swing-type rated 300 PSI non-shock CWP. Body, bonnet, and disc hanger are to be of lead-free* dezincification-resistant material and PTFE seat disc. Valve ends may be thread or solder-type. Valves shall conform to MSS SP-139 and be 3rd party certified to NSF/ANSI-61-8 (commercial hot 180°F) and NSF/ANSI-372.

ACCEPTABLE VALVES: NIBCO® T-413-Y-LF (thread); S413-Y-LF (solder)

SILICON BRONZE RING CHECK VALVES: Valves shall be rated a minimum 250 PSI inline lift check, resilient disc, spring actuated. Body and end piece, to be of lead-free* dezincification-resistant material. Valves shall conform to MSS SP-139 and be 3rd party certified to NSF/ANSI-61-8 (commercial hot 180°F) and NSF/ANSI-372.

ACCEPTABLE VALVES: NIBCO® T-480-Y-LF (thread); S480-Y-LF (solder)



Sample Specification (cont...)

LINE CONTROL VALVES 2 1/2" AND LARGER

DUCTILE IRON SINGLE FLANGE BUTTERFLY VALVES: Valves shall be rated a minimum 200 PSI wafer or lug style, ductile iron body, EPDM resilient seat manufactured in accordance with MSS-SP67 Type I. Valves shall be third party certified to NSF/ANSI 372 and/or NSF/ANSI-61-G.

ACCEPTABLE VALVES: NIBCO[®] WD2000 (wafer); LD2000 (lug)

DUCTILE IRON GROOVED END BUTTERFLY VALVES: Valves shall be rated a minimum 300 PSI grooved mechanical style, ductile iron body, EPDM resilient seat manufactured in accordance with MSS-SP67. Valves shall be third party certified to NSF/ANSI 372 and/or NSF/ANSI-61-G.

ACCEPTABLE VALVES:

NIBCO® GD4765N (grooved)

IRON GATE VALVES: Valves shall be rated a minimum 200 PSI flanged, bolted bonnet, Class 125/150 OS&Y or NRS, iron body manufactured in accordance with MSS-SP70 gray cast iron or MSS-SP128 ductile iron or AWWA C509/C515.Packing and gaskets to be asbestos free. Valves shall be third party certified to NSF/ANSI 372 and/or NSF/ANSI-61-G.

ACCEPTABLE VALVES: NIBCO® F637-33; F607RW; F619RW

IRON SWING CHECK VALVES: Valves shall be rated a minimum 200 PSI flanged style Class 150, iron body manufactured in accordance with MSS SP136. Valves shall be third party certified to NSF/ANSI 372 and/or NSF/ANSI-61-G.

ACCEPTABLE VALVES: NIBCO[®] F938-33

IRON CENTER GUIDED CHECK VALVES: Valves shall be center guided, sliding disc type. To be rated a minimum 200 PSI flanged/ wafer style Class 125/250, iron body manufactured in accordance with MSS SP-125 cast iron. Valves shall be third party certified to NSF/ANSI 372 and/or NSF/ANSI-61-G.

ACCEPTABLE VALVES:

NIBCO® F910-LF/F960-LF (flanged); W910-LF/W960-LF (wafer)

IRON TWIN DISC CHECK VALVES: Valves shall be twin disc wafer or grooved end type. To be rated a minimum 200 PSI flanged/ wafer style Class 125, iron body manufactured in accordance with ASME B16.1. Valves shall be third party certified to NSF/ANSI 372 and/or NSF/ANSI-61-G.

ACCEPTABLE VALVES:

NIBCO® W-920-W-LF (wafer); G-920-W-LF (grooved)

Mech. Properties

Alloy Description

ø

Chemistries and Properties of Copper Alloys

Type	Common	ommon ASTM UNS Nominal % - Maximum Trace %						Streng	%								
F.	Name/App.	1	Vos.	Cu	Pb	Bi	Zn	Sn	Р	Fe	Ni	Si	AI	Other	UTS	YS	Elong
								Leaded	Bras	S							
S	Free Cutting	B 16	C 36000	61.5	2.7	-	35.4	-	-	-	-	-	-	-	50,000	20,000	15
Brass	Forging Brass	B 124	C 37700	59.5	2.0	-	38.0	-	-	0.3	-	-	-	-	52,000	20,000	45
<u> </u>	Semi-Red Brass	B 584	C 84400	81.0	7.0	-	9.0	3.0	0.02	0.4	1.0	0.005	0.005	S 0.08	29,000	13,000	18
											<u>.</u>						
	Commercial	B 140	C 31400	89.0	1.9	-	9.1	-	-	0.1	0.7	-	-	-	52,000	45,000	18
- ZC	Ounce Metal	B 62	C 83600	85.0	5.0	-	5.0	5.0	0.05	0.3	1.0	0.005	0.005	S 0.08	30,000	14,000	20
Bronze	Navy "M"	B 61	C 92200	88.0	1.5	-	4.5	6.0	0.05	0.25	1.0	0.005	0.005	S 0.05	34,000	16,000	22
- 10	Ni Bronze	B 584	C 97600	65.0	4.0	-	6.0	4.0	0.05	1.5	20.3	0.15	0.005	S 0.08	40,000	17,000	10
							Le	ad Fre	e* Bra	ISS	1						
	Yellow Brass YB	-	C 27450	62.5	0.25	-	37.5	-	-	0.35	-	-	-	-	63,000	47,000	25
-	Yellow Brass YB	-	C 27451	63.0	0.25	-	36.9	-	0.12	-	-	-	-	-	63,000	47,000	25
-	Uninhibited YB	B 124	C 46400	60.0	0.20	-	39.2	0.7	-	0.1	-	-	-	-	69,000	46,000	27
ິ	Inhibited YB	-	C 46500	60.0	0.20	-	39.2	0.7	-	0.1	-	-	-	As 0.04	70,000	48,000	25
Bras	Si Red Brass	B 371	C 69400	81.5	0.30	-	14.5	-	-	0.2	-	4.0	-	-	90,000	45,000	20
m -	Inhibited YB	B 371	C 69430	81.5	0.30	-	14.5	-	-	0.2	-	4.0	-	As 0.04	90,000	45,000	20
e e	Bismuth Brass	-	C 89320	89.0	0.09	5.0	1.0	6.0	0.3	0.2	1.0	0.005	0.005	S 0.08	40,000	20,000	30
Ļ	Bismuth Brass	-	C 89325	86.0	0.10	3.2	1.0	10.0	0.1	0.15	1.0	0.005	0.005	S 0.08	35,000	18,000	20
Lead-Free	Bismuth Brass	-	C 89831	89.0	0.10	3.2	3.0	3.2	0.05	0.3	1.0	0.005	0.005	S 0.08	34,000	15,000	20
۔ ۳	Bismuth Brass	-	C 89833	89.0	0.09	2.2	3.0	5.0	0.05	0.3	1.0	0.005	0.005	S 0.08	37,000	17,000	28
-	Bismuth Brass	-	C 89835	87.0	0.09	2.2	3.0	6.7	0.1	0.2	1.0	0.005	0.005	S 0.08	35,000	18,000	20
-	Bismuth Brass	-	C 89836	89.0	0.25	2.5	3.0	5.5	-	0.35	0.9	0.005	0.005	S 0.08	37,000	19,000	30
-	Bismuth Brass	B 584	C 89844	84.5	0.20	3.0	8.0	4.0	0.05	0.3	1.0	0.005	0.005	S 0.08	34,000	15,000	30
							Lea	ad Fre	e* Bro	nze							<u>.</u>
	Al Bronze	B 150	C 64200	91.0	0.05	-	0.5	0.2	-	0.3	0.25	1.8	7.0	Mn 0.1	90,000	55,000	28
а ХС	Low Si Bronze	B 98	C 65100	98.5	0.05	-	1.5	-	-	0.8	-	1.5	-	Mn 0.7	70,000	55,000	15
Bronze	Cu Si Alloy 1	B 584	C 69300	75.0	0.09	-	21.9	0.2	0.1	0.1	0.1	3.0	-	Mn 0.1	80,000	49,000	10
ה	Cu Si Alloy 1	B 584	C 87600	89.0	0.09	-	5.5	-	-	0.2	-	4.5	-	Mn 0.2	66,000	32,000	20
Free*	Silicon Bronze	B 584	C 87700	89.0	0.09	-	8.0	2.0	0.15	0.5	0.25	3.0	-	Mn 0.8	58,000	23,000	3
Ĕ.	Silicon Bronze	B 584	C 87710	86.0	0.09	-	10.0	2.0	0.15	0.5	0.25	4.0	-	Mn 0.8	50,000	21,000	2
Lead-	Cu Si Alloy 1	B 584	C 87850	76.0	0.09	-	20.9	0.1	0.12	0.1	0.2	3.0	-	Mn 0.1	59,000	22,000	16
L L	Tin Bronze	B 584	C 90300	87.5	0.30	-	4.0	0.05	0.2	0.2	1.0	0.005	0.005	S 0.05	45,000	21,000	30
-	Al Bronze	B 148	C 95400	83.2	-	-	-	-	-	4.0	1.5	-	10.8	Mn 0.5	75,000	30,000	12
								Cop	per								
Cu Cu	Oxygen Free Cu	B 16	C 10200	99.95	-	-	-		-	-	-	-	-	0 0.001	36,000	28,000	40
0	Phos DeOx Cu	B 16	C 12200	99.9	-	-	-	-	0.02	-	-	-	-	Cu Min	40,000	32,000	25

Chemical Composition

[†] UTS = Ultimate Tensile Strength; YS = Yield Strength

Data listed represents reasonable approximations suitable for general engineering use. See applicable ASTM and CDA specification references.



Lead-Free* Valve Figure Number Comparison

Noted valves 3rd party listed.

COMMER	CIAL VALVES	NIBCO	Milwaukee	Apollo (Conbraco)	Watts
e	Two-Pc. Bronze Full Port	S/T-585-LF	UPBA400/450	77CLF-100/200	LFB6080/6081
Bronze Ball	Two-Pc. Bronze Conventional Port	S/T-580-LF	UPBA100/150	70LF-100/200	LFB6000/6001
•	Three-Pc. Bronze Full Port	S/T-595-Y-LF	UPBA300/350	82LF-100/200	—
e ~	Rising Stem Gate	S/T-111-LF	UP149/148	101S-LF/101T-LF	—
Bronze Gate and Check	Non-Rising Stem Gate	S/T-113-LF	UP105/115	102S-LF/102T-LF	LFGVS/LFGV
ronz	Swing Check	S/T-413Y-LF	UP1509/509	163S-LF/163T-LF	LFCVS/LFCV
	Inline Check	S/T-480Y-LF	UP1548T/548T	61-LF	LF601S/60
	OS&Y Gate	F637-33	—	—	—
	OS&Y Gate RW	F607RW	—	—	—
Iron Gate and Check	Non-Rising Stem Gate RW	F619RW	—	—	—
and (Swing Check	F938-33	—	—	—
ate a	Center Guided Check Flanged	F910/960 LF	—	—	—
on G	Center Guided Check Wafer	W910/960 LF	—	—	—
	Twin Disc Wafer	W920W-LF	—	—	—
	Twin Disc Grooved	G-920-W-LF	—	—	—
fly	Ductile Iron Single Flange Wafer	WD2000			DBF-04
Buttlerfly	Ductile Iron Single Flange Lug	LD2000	ML133E/233E/333E		DBF-03
Bu	Ductile Iron Single Flange Grooved	GD4765N	_	—	—

Pl	UMBIN	G VALVES	NIBCO	Milwaukee	Apollo (Conbraco)	Watts
1 996	Jze	Two-Pc. Brass / Bronze Full Port	S/T-685-LF	UPBA475B/485B	77FLF-100/200	LFFBV-3C
Brac		Two-Pc. Brass Full Port	FP-600A-LF	UPBA475B/485B	94ALF	LFFBV-3C

		NIBCO	BrassCraft	Legend	Watts
	Straight Sweat x Compression	7120-LF	KTR14X C	T594 NL	—
	Angle Sweat x Compression	7125-LF	KTR*9X C	T595 NL	—
	Dual Outlet Sweat x Comp x Comp	7125DX-LF	—	T597 NL	_
	Straight Comp x Comp	7140-LF	KTCR*4X C	T596 NL	—
	Straight Female Comp x Comp	7140F-LF	KTCR11FX C	T596 NL	LFBV894013
	Angle Comp x Comp	7145-LF	KTCR*9X C	T595 NL	LFBV894**3
s	Angle Female Comp x Comp	7145F-LF	—	T595 NL	—
1/4-Turn Supply Stops	Dual Outlet Comp x Comp x Comp	7145DX-LF		T597 NL	LFBV389403
pply	Straight FIP x Comp	7150-LF	KTR1*X C	T596 NL FIP	LFBV890013
n Su	Angle FIP x Comp	7155-LF	KTR**X C	T595 FIP	LFBV890*03
ļ ļ	Dual Outlet FIP x Comp x Comp	7155DX-LF	—	T597 NL FIP	LFBV389003
14	Srtaight PEX x Comp	7160-LF	KTBRPX14X C	T596 NL	—
	Straight PEX x MIP	7160M-LF	—		_
	Straight PEX x PEX	7160PEX-LF	KTBRPX44X C	T596 NL	_
	Angle PEX x Comp	7165-LF	KTBRPX19X C	T595 NL	—
	Angle PEX x PEX	7165PEX-LF			_
	Straight CPVC x Comp	7170-LF	KTPR14X C	T596 NL	_
	Angle CPVC x Comp	7175-LF	KTPR19X C	T595 NL	-

Valve Installation

SOLDERING RECOMMENDATIONS:



1. Ensure proper joint preparation for solder cup and mating tube:

Proper joint preparation is critical in order to achieve a satisfactory solder joint - follow all best practices for prepping tube by using a coarse emery cloth or a clean wire brush, including square cutting, de-burring (inside and outside), cleaning, etc.



2. Select appropriate solder, flux and heat:

The selection of a compatible solder / flux combination is a critical first step to achieving a quality joint.

Solder: NIBCO recommends plumbing solders with a melting point above 400°F. Solders with a melting point above 400°F include traditional 95/5 tin / antimony and those containing silver or other filler elements.

Flux: The purpose of flux is to clean, prep, and protect the surfaces of the joint to

accept solder. It is important that the flux utilized has an active temperature range compatible with the intended solder. Many plumbing flux and solder combinations have been confirmed for use with silicon bronze alloys. There are generally many flux types beyond plumbing – best practice calls for installers to utilize plumbing paste fluxes containing chlorides. Contact the flux manufacturer regarding the suitability of their flux for use with any intended solder. Confirming flux suitability per local plumbing code is the responsibility of the installer.





Heat: Silicon bronze alloys will transfer heat away from the heat affected area more slowly than copper or leaded bronze; therefore, more attention may be required to achieve uniform heating of the alloy. Select torch tip and gas mix to adequately distribute the heat. The hotter the flame, the more skill and technique are required.

3. Ensure sufficient joint heating:

Ball valves should be in the CLOSED position and gate valves OPEN when soldering.

Ensuring sufficient heat is critical to achieving a satisfactory solder joint.

Valve Installation (cont...)

Standard soldering techniques can be used with proper selection of a solder and flux combination.** Even, uniform heat should be accomplished by directing the inner-most flame tip (neutral flame) to the joint, remembering these critical points:

- Begin by mildly preheating the socket and tube.
- Do not direct the flame into the gap.
- Heat the entire joint, always keep the flame moving do not linger in any one position.
- Watch for the flux to activate, per flux manufacturer's recommendation. Flux will generally bubble as it reaches activation temperature, taking care not to burn out the flux.
- Apply the flame to the base of the solder cup the farthest point you want to draw the solder to.
- With uniform heating around the base of the cup, touch the solder to the joint. If the solder doesn't melt remove the solder and continue heating the entire joint.
- When the solder begins to melt, return the flame to the base of the cup, rotating the flame 360 degrees around the cup.

Due to expansion and contraction of materials after heating, the ball valve or gate valve pack nut may need to be tightened.









For soldering and peel test recommendations, review video at www.nibcoleadfree.com

BRAZING RECOMMENDATIONS:

Lead-Free* silicon bronze alloy brazing, including filler material selection and installation, is identical to that used in good industry practice for traditional plumbing products.

THREADING RECOMMENDATIONS:

When threading pipe, gauge pipe threads for size and length to avoid jamming pipe against seat or disc. Thoroughly clean threaded end to remove excess material shavings. For a good joint, use PTFE tape OR pipe dope. If pipe dope is used, apply sparingly on pipe threads, NEVER on valve threads. Do not allow any pipe dope into valve body in order to avoid damage to disc, ball or seat. Close valve completely before installation. Apply wrench to hex next to pipe and guard against possible distortion.

PRESS SYSTEM:

For NIBCO[®] Press System Engineering data, installation instructions, tool / jaw compatibility matrix, and warranty information reference NIBCO catalog C-NPS.

** ASTM B828 Standard Practice for Making Capillary Joints by Soldering of Copper and Copper Alloy Tube and Fittings.





Notes



Notes





Notes





NIBCO INC. 125% LIMITED WARRANTY Applicable to NIBCO INC. Pressure Rated Metal Valves

NIBCO INC. warrants each NIBCO[®] pressure rated metal valve to be free from defects in materials and workmanship under normal use and service for a period of five (5) years from date put into service, with the exception of models FP-600A-LF, PC-FP600A-LF, FP-600AD-LF, and Pro-Stop[®] Quarter Turn Supply Stops, for which a two (2) year warranty period from date put into service applies.

In the event any defect occurs which the owner believes is covered by this warranty, the owner should immediately contact NIBCO Technical Services, either in writing or by telephone at (888) 446-4226 or (574) 295-3000. The owner will be instructed to return said product, at the owner's expense, to NIBCO INC., or an authorized representative for inspection. In the event said inspection discloses to the satisfaction of NIBCO INC. that said valve is defective, it will be replaced at the expense of NIBCO INC. Replacements shall be shipped free of charge to the owner. In the event of the replacement of any valve, NIBCO INC. shall further pay the owner Twenty-Five (25%) Percent of the price of the valve according to the published suggested list price schedule of NIBCO INC. in effect at the time of purchase to apply on the cost of the installation of said replacement valve.

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> NIBCO INC. World Headquarters 1516 Middlebury Street Elkhart, IN 46516-4740 USA

> > Phone: 1.574.295.3000 Fax: 1.574.295.3307 Technical Service Phone: 1.888.446.4226 Fax: 1.888.336.4226

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