

# NIBCO®

AHEAD OF THE FLOW®



Plumbing & Heating Valves

# Business-to-Business Solutions

Look to NIBCO for technology leadership.

The velocity with which e-business evolves demands that new products and services be continuously developed and introduced to keep our customers at the center of our business efforts. NIBCO provides an entire suite of business-to-business solutions that is changing the way we interact with customers.



[NIBCOpartner.com<sup>SM</sup>](http://NIBCOpartner.com) is an exclusive set of secure web applications that allow quick access to customer-specific information and online order processing. This self-service approach gives you 24/7 access to your order status putting you in total control of your business.

Real time information includes:

- Online order entry
- Viewable invoices & reports
- Inventory availability
- Current price checks
- Order status
- Online library of price sheets, catalogs & submittals



**Electronic Data Interchange (EDI)** makes it possible to trade business documents at the speed of light. This technology cuts the cost of each transaction by eliminating the manual labor and paperwork involved in traditional order taking. This amounts to cost-savings, increased accuracy and better use of resources.

With EDI, you can trade:

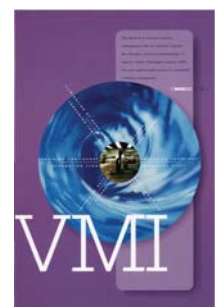
- Purchase orders
- PO Acknowledgements
- Invoices
- Product activity data
- Advanced ship notices
- Remittance advice



**Vendor Managed Inventory (VMI)**, a sophisticated service for automated inventory management, reduces your overhead by transferring inventory management, order entry and forecasting to NIBCO. This is an on-going, interactive partnership with NIBCO.

Through automation, VMI brings results:

- Improves customer service
- Optimum inventory efficiencies
- Better forecasting
- Cuts transaction costs
- Peace of mind
- Relief from day-to-day management
















# Table of Contents

Visit our website for the most current information .

	Page		Page
<b>Two Piece Ball Valves</b> .....	<b>4-11</b>	<b>Hose Bibbs &amp; Garden Valves</b> .....	<b>32-34</b>
Illustrated Index .....	4	Illustrated Index .....	32
T/S580 .....	5	46-U .....	33
T/S580-66 .....	6	56-U .....	33
T/S-FP-250 .....	7	61 .....	33
T/S-FP-600R-WH .....	8	C26 .....	33
T/S-FP-600R-N .....	9	C56-VB .....	33
T/S-FP-600N .....	10	54 .....	34
S-FP-600-ND .....	11	55 .....	34
<b>Gas Ball Valves, Gas Cocks &amp; Log Lighters</b> .....	<b>12-16</b>	57 .....	34
Illustrated Index .....	12	C4454 .....	34
GB10 .....	13	<b>Angle Sillcocks</b> .....	<b>35-36</b>
GB20 .....	13	Illustrated Index .....	35
GB30 .....	14	63-CL .....	36
GBV38M/GBV12M .....	14	63-CL-LS .....	36
GBV/GCH .....	15	763-CL .....	36
GB38FL/GB12FL .....	15	763-CL-LS .....	36
Notes .....	16	C763-I .....	36
<b>Frostproof Sillcocks</b> .....	<b>17-20</b>	<b>Stop &amp; Waste Valves</b> .....	<b>37-39</b>
Illustrated Index .....	17	Illustrated Index .....	37
Fig. 80M .....	18	75-CL .....	38
Fig. 85 .....	19	76-CL .....	38
Fig. 90M .....	20	725-CL .....	38
<b>PRO-Stop Supply Stops</b> .....	<b>21-26</b>	726-CL/726-LCL .....	38
Illustrated Index .....	21,22	75-CLK .....	38
7120 .....	23	75-CLT .....	39
7120PEX .....	23	4476 .....	39
7120TE .....	23	4776 .....	39
7140 .....	23	77 .....	39
7140F .....	23	777 .....	39
7140SJ .....	23	777-17 .....	39
7150 .....	24	<b>Bronze &amp; Brass Gate and Check Valves</b> .....	<b>40-46</b>
7160 .....	24	Index .....	40
7160PEX .....	24	TI/SI-7 .....	41
7170 .....	24	TI/SI-8 .....	42
7125 .....	24	T/S-29 .....	43
7125TE .....	24	TI/SI-3 .....	44
7145 .....	25	T/S-480 .....	45
7145SJ .....	25	T/S-413 .....	46
7155 .....	25	<b>Specialty Valves</b> .....	<b>47-50</b>
7155SJ .....	25	Index .....	47
7165 .....	26	64/64FC .....	48
7175 .....	26	64L/64LA .....	48
7145DX .....	26	C64B .....	48
<b>QTX Quarter Turn Low Pressure Valves</b> .....	<b>27-29</b>	C64C .....	48
Illustrated Index .....	27	C64F .....	49
QT73X .....	28	C64R .....	49
QT74X .....	28	C64T .....	49
QT63X .....	28	81/82 .....	49
QT763IX .....	28	724 .....	49
QT763X .....	28	44LD .....	50
QT54X .....	29	577-17 .....	50
QT55X .....	29	578-17 .....	50
QT56X .....	29	<b>Plastic Valves</b> .....	<b>51-55</b>
QT57X .....	29	Index .....	51
<b>Boiler Drains</b> .....	<b>30-31</b>	4660-S/T .....	52
Illustrated Index .....	30	4770 .....	53
72 .....	31	4750 - Just Right .....	54, 55
73-CL .....	31	<b>Low Pressure Valve Handwheel Options</b> .....	<b>56</b>
74-CL/74-DC .....	31	<b>Frostproof Sillcock Accessories &amp; Replacement Parts</b> .....	<b>57</b>
74-2 .....	31	<b>Low Pressure Valve Options &amp; Accessories Misc</b> .....	<b>57</b>
4464 .....	31	<b>Metal Connections</b> .....	<b>58, 59</b>
		<b>Frostproof Sillcock Maintenance &amp; Installation</b> .....	<b>60</b>
		<b>Figure Number Comparisons</b> .....	<b>61-64</b>
		<b>Warranty</b> .....	<b>65</b>

# Two-Piece Ball Valves

## Illustrated Index

<p>Two-Piece Brass/Bronze Ball Valve 400 lb. CWP</p>  <p><b>T or S-580</b> Sizes 1/2" thru 2" Threaded or Solder Ends page 5</p>	<p>Two-Piece Bronze Ball Valve with Stainless Steel Trim 400 lb. CWP</p>  <p><b>T or S-580-66</b> Sizes 1/2" thru 2" Threaded or Solder Ends page 6</p>	<p>Two-Piece Brass Ball Valve 250 lb. CWP</p>  <p><b>T or S-FP-250</b> Sizes 1/2" thru 1" Threaded or Solder Ends page 7</p>
<p>Two-Piece Brass Ball Valve with Wing Handle 600 lb. CWP</p>  <p><b>T or S-FP-600R-WH</b> Sizes 1/2" thru 1" Threaded or Solder Ends page 8</p>	<p>Two-Piece Brass Ball Valve with O-Ring Packing 600 lb. CWP</p>  <p><b>T or S-FP600R-N</b> Sizes 3/8" thru 2" Threaded or Solder Ends page 9</p>	<p>Two-Piece Brass Ball Valve NSF/ANSI 61 Compliant 600 lb. CWP</p>  <p><b>T or S-FP600-N</b> Sizes 1/4" thru 2" Threaded or Solder Ends page 10</p>
<p>Two-Piece Brass Ball Valve 600 lb. CWP</p>  <p><b>S-FP-600-ND</b> Sizes 1/2" thru 1" Solder Ends page 11</p>		

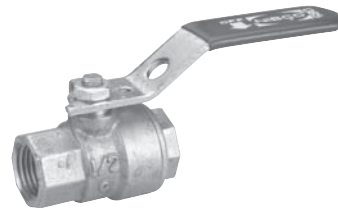
# Bronze Ball Valves

Two-Piece Body • Standard Port • Blowout-Proof Stem • PTFE Seats

**400 PSI/28 Bar Non-Shock Cold Working Pressure**

## MATERIAL LIST

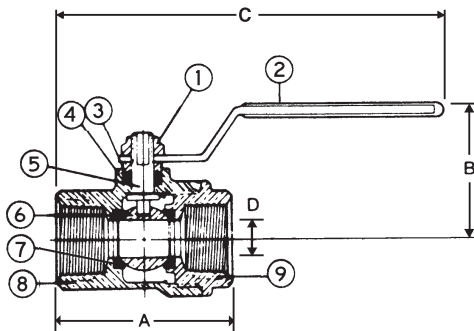
PART	SPECIFICATION
1. Handle Nut	Zinc Plated Steel
2. Handle	Zinc Plated Steel Clear Chromate Plastisol Coated
3. Packing Gland	Brass ASTM B 16 Alloy C36000
4. Packing	PTFE
5. Stem	Silicon Bronze ASTM B 371 Alloy C69400 or ASTM B 16 Alloy C36000
6. Ball	Brass ASTM B 124 Alloy C37700 or ASTM B 16 Alloy C36000
7. Seat Rings	PTFE
8. Body	Bronze ASTM B 584 Alloy C84400 or Brass ASTM B 124 Alloy C37700
9. Body End Piece	Bronze ASTM B 584 Alloy C84400 or Brass ASTM B 124 Alloy C37700



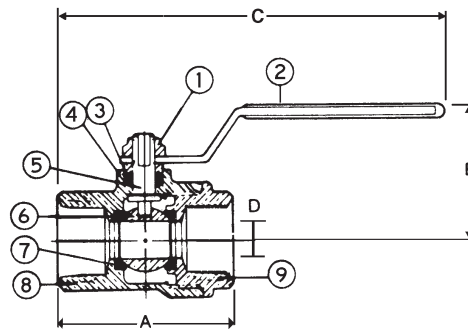
**T-580**  
Threaded



**S-580**  
Solder



**T-580**  
NPT x NPT



**S-580**  
C x C

## DIMENSIONS—WEIGHTS—QUANTITIES

Size	Dimensions																
	T-580		S-580		B	T-580		S-580		D Port	T-580		S-580				
In.	mm.	In.	mm.	In.		mm.	In.	mm.	In.		mm.	In.	mm.	Lbs.	Kg.	Lbs.	Kg.
½	15	2.00	51	1.94	49	1.56	40	4.88	124	4.84	123	.38	10	.50	.23	.50	.23
¾	20	2.28	58	2.63	67	1.72	44	5.00	127	5.19	132	.50	13	.70	.32	.70	.32
1	25	2.88	73	3.21	82	2.06	52	6.06	154	6.28	160	.75	19	1.20	.54	1.30	.59
1¼	32	3.41	87	3.81	97	2.31	59	6.34	161	6.56	167	1.00	25	1.80	.82	1.60	.73
1½	40	3.75	95	4.25	108	2.81	71	8.56	217	8.81	224	1.25	32	2.90	1.32	2.50	1.14
2	50	4.44	113	5.21	132	3.06	78	8.88	226	9.25	235	1.50	38	4.30	1.95	3.60	1.70

**S-580 series to be soft soldered into lines using solder with the melting point not exceeding 470° F. Higher temperature solders will damage the seat material.**

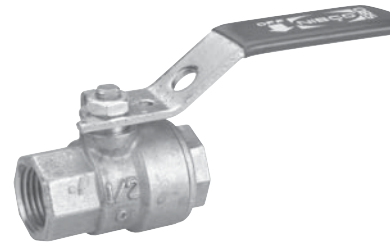
# Bronze Ball Valves

Two-Piece Body • Standard Port • Stainless Steel Trim • PTFE Seats • Blowout-Proof Stem

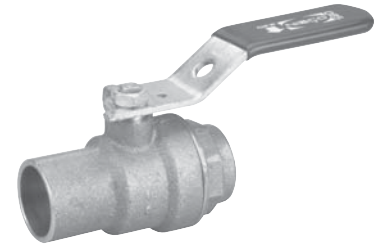
**400 PSI/28 Bar Non-Shock Cold Working Pressure**

## MATERIAL LIST

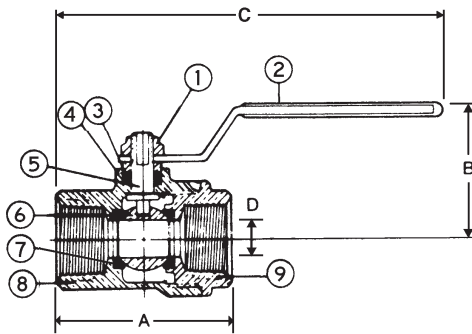
PART	SPECIFICATION
1. Handle Nut	Stainless Steel 300 Series
2. Handle	Zinc Plated Steel Clear Chromate Plastisol Coated
3. Packing Gland	Brass ASTM B 16 Alloy C36000
4. Packing	PTFE
5. Stem	Stainless Steel ASTM A 276 Type 316
6. Ball (Vented)	Stainless Steel ASTM A 276 Type 316 or ASTM A 351 Type CF8M
7. Seat Rings	PTFE
8. Body	Bronze ASTM B 584 Alloy C84400 or Brass ASTM B 124 Alloy C37700
9. Body End Piece	Bronze ASTM B 584 Alloy C84400 or Brass ASTM B 124 Alloy C37700



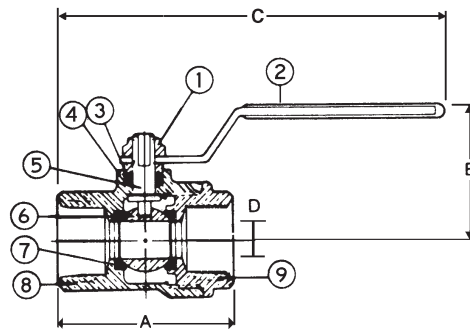
**T-580-66**  
Threaded



**S-580-66**  
Solder



**T-580-66**  
NPT x NPT



**S-580-66**  
C x C

## DIMENSIONS—WEIGHTS—QUANTITIES

Size	Dimensions														
	T-580-66		S-580-66		T-580-66		S-580-66		D Port		T-580-66		S-580-66		
In. mm.	In. mm.	In. mm.	In. mm.	In. mm.	In. mm.	In. mm.	In. mm.	In. mm.	In. mm.	In. mm.	In. mm.	Lbs.	Kg.	Lbs.	Kg.
½	15	2.00	51	1.94	49	1.56	40	4.88	124	4.84	123	.38	.10	.50	.23
¾	20	2.28	58	2.63	67	1.72	44	5.00	127	5.19	132	.50	.13	.70	.32
1	25	2.88	73	3.21	82	2.06	52	6.06	154	6.28	160	.75	.19	1.20	.54
1¼	32	3.41	87	3.81	97	2.31	59	6.34	161	6.56	167	1.00	.25	1.80	.82
1½	40	3.75	95	4.25	108	2.81	71	8.56	217	8.81	224	1.25	.32	2.90	1.32
2	50	4.44	113	5.21	132	3.06	78	8.88	226	9.25	235	1.50	.38	4.30	1.95

S-580 series to be soft soldered into lines using solder with the melting point not exceeding 470° F. Higher temperature solders will damage the seat material.



# Brass Ball Valves

Two-Piece Body • Full Port • Blowout-Proof Stem • PTFE Seats • Wing Handle

**1/2"-1" 250 PSI/16 BAR NON-SHOCK COLD WORKING PRESSURE**

NSF/ANSI 61-8 COMPLIANT



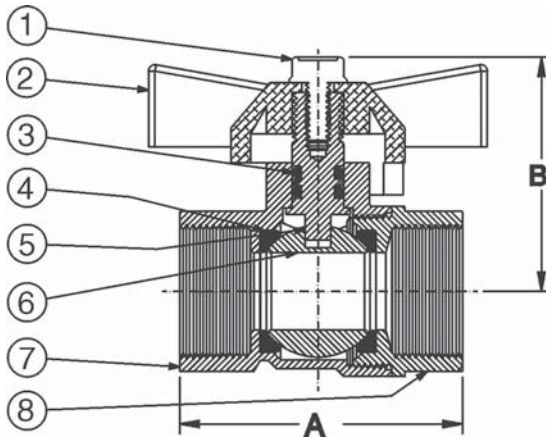
**T-FP-250**  
Threaded



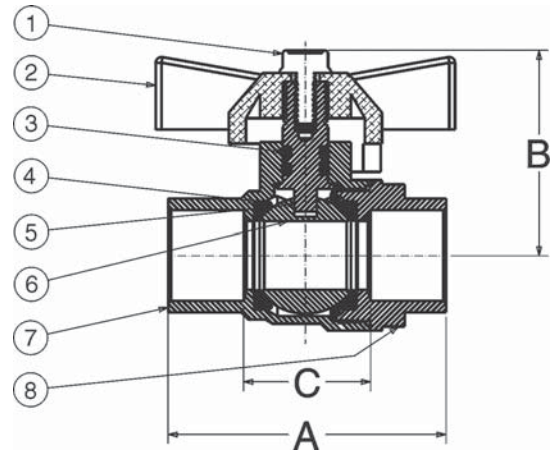
**S-FP-250**  
Solder

## MATERIAL LIST

PART	SPECIFICATION
1. Screw	Steel Plated
2. Handle	Aluminum
3. "O" Ring (2)	Nitrile (NBR)
4. Seat Ring	PTFE
5. Stem	Brass ASTM B16 Alloy C36000
6. Ball	Brass ASTM B16 Alloy C36000
7. Body	Forged Brass ASTM B283 Alloy C37700
8. Body End	Forged Brass ASTM B283 Alloy C37700



T-FP-250  
NPT x NPT



S-FP-250  
C x C

## DIMENSIONS—WEIGHTS—QUANTITIES

Size	Dimensions										Weights				
	T-FP-250		S-FP-250		T-FP-250		S-FP-250		S-FP-250		T-FP-250		S-FP-250		
	A	A	B	B	C	A	A	B	B	C	Lbs.	Kg.	Lbs.	Kg.	
1/2	15	1.77	45	1.95	50	1.44	37	1.44	37	0.90	23	.30	.14	.30	.14
3/4	20	2.17	55	2.81	71	1.56	40	1.56	40	1.24	31	.50	.23	.52	.24
1	25	2.58	66	3.37	86	1.73	44	1.81	46	1.48	38	.96	.44	1.02	.46



# Brass Ball Valves

Two-Piece Body • Wing Handle • Full Port • Blowout-Proof Stem • PTFE Seats

1/2" - 1" 600 PSI/40 Bar Non-Shock Cold Working Pressure

CONFORMS TO MSS SP-110 • ASME B16.44  
CGA CR 91-002 • UL LISTED

## MATERIAL LIST

PART	SPECIFICATION
1. Screw	Steel Plated
2. Wing Handle	Painted Aluminum
3. O-Ring	Fluorocarbon (FKM)
4. Stem	Brass ASTM B-16 Alloy C36000
5. Seat Ring	PTFE
6. Ball	Brass Chrome Plated ASTM B-16 Alloy C36000
7. Body End	Brass Forged ASTM B-283 Alloy C37700
8. Body	Brass Forged ASTM B-283 Alloy C37700

Note: CSA and UL approvals for T-FP600R-WH.

CSA is now approving agency for AGA and CGA standards. T-FP version only



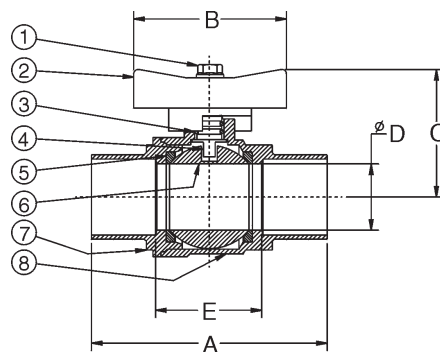
**T-FP600R-WH**

Threaded  
PTFE Seats

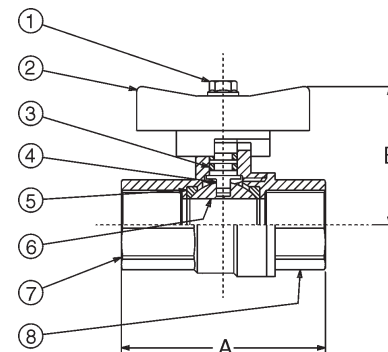


**S-FP600R-WH**

Solder  
PTFE Seats



**S-FP600R-WH**  
C x C



**T-FP600R-WH**  
NPT x NPT

## DIMENSIONS—WEIGHTS

Size	Dimensions														Weights				
	S-FP600R-WH		T-FP600R-WH		S-FP600R-WH		T-FP600R-WH		T-FP-600R-WH		T-FP600R-WH		S-FP600R-WH		T-FP600R-WH				
	A	A	B	B	C	D	E	A	A	B	B	C	D	E	Lbs.	Kg.	Lbs.	Kg.	
1/2	15	2.04	52	2.32	59	1.97	50	1.48	38	1.50	38	0.59	15	1.00	25	0.53	0.24	0.44	0.20
3/4	20	2.82	72	2.65	67	1.97	50	1.62	41	1.63	41	0.79	20	1.32	33	0.60	0.27	0.68	0.31
1*	25	3.37	86	3.05	77	2.76	70	1.85	47	1.85	47	0.98	25	1.48	38	1.05	0.48	1.17	0.53

\* Consult factory for availability



# Brass Ball Valves

Two-Piece Body • Full Port • Blowout-Proof Stem • PTFE Seats • Double O-Ring Packing

**3/8"-2" 600 PSI/40 BAR NON-SHOCK COLD WORKING PRESSURE**

CONFORMS TO MSS SP-110 • NSF/ANSI 61-8  
ASME B16.44 • CR 91-002 • UL LISTED

## MATERIAL LIST

PART	SPECIFICATION
1. Handle	Zinc Plated Steel with Vinyl Sleeve
2. Handle Nut	Zinc Plated Steel
3. O-Ring (2)	Fluorocarbon (FKM)
4. Stem	Brass ASTM B 16 Alloy C36000
5. Seat Ring (2)	PTFE
6. Ball	Chrome Plated Brass ASTM B 16 Alloy C36000
7. Body End	Forged Brass ASTM B 283 Alloy C37700
8. Body	Forged Brass ASTM B 283 Alloy C37700

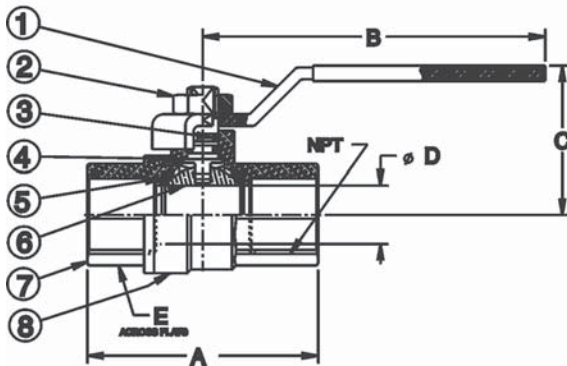


**S-FP-600R-N**  
Solder

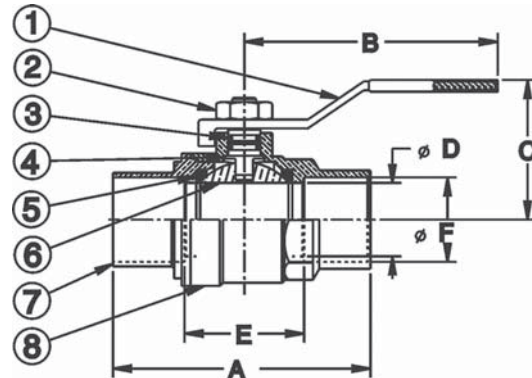


**T-FP-600R-N**  
Threaded

Note: CSA and UL approvals for T-FP-600 3/8"-2" only.  
CSA is now the approving agency for AGA and CGA standards.



**T-FP-600R-N**  
NPT x NPT



**S-FP-600R-N**  
C x C

## DIMENSIONS—WEIGHTS—QUANTITIES

Size	Dimensions														T-FP-600		S-FP-600										
	T-FP-600 A		S-FP-600 A		T-FP-600 B		S-FP-600 B		T-FP-600 C		S-FP-600 C		T-FP-600 D		S-FP-600 D		T-FP-600 E		S-FP-600 E		S-FP-600 F		Lbs.	Kg.	Lbs.	Kg.	
In. mm.	In. mm.	In. mm.	In. mm.	In. mm.	In. mm.	In. mm.	In. mm.	In. mm.	In. mm.	In. mm.	In. mm.	In. mm.	In. mm.	In. mm.	In. mm.	In. mm.	In. mm.	In. mm.	In. mm.	In. mm.	In. mm.	In. mm.	Lbs.	Kg.	Lbs.	Kg.	
3/8	10	1.81	46	—	—	3.35	85	—	—	1.42	36	—	—	.47	12	—	—	.87	22	—	—	—	—	.36	.16	—	—
1/2	15	2.32	59	2.03	52	3.35	85	3.35	85	1.52	39	1.52	39	.59	15	.59	15	1.02	26	.98	25	.63	16	.46	.21	.40	.18
3/4	20	2.65	67	2.81	71	3.35	85	3.35	85	1.67	42	1.67	42	.79	20	.79	20	1.26	32	1.24	32	.88	22	.70	.32	.62	.28
1	25	3.05	78	3.37	86	4.13	105	4.13	105	1.93	49	1.93	49	.98	25	.98	25	1.59	40	1.48	38	1.13	29	1.20	.55	1.02	.46
1 1/4	32	3.62	92	3.86	98	4.13	105	4.13	105	2.15	55	2.15	55	1.26	32	1.26	32	1.95	50	1.81	46	1.38	35	1.90	.86	1.64	.75
1 1/2	40	4.00	102	4.43	112	5.12	130	5.12	130	2.58	66	2.58	66	1.57	40	1.57	40	2.17	55	2.12	54	1.63	41	2.72	1.24	2.64	1.20
2	50	4.82	122	5.49	139	5.12	130	5.12	130	2.89	73	2.89	73	1.97	50	1.97	50	2.72	69	2.70	69	2.13	54	4.78	2.17	4.64	2.11



# Brass Ball Valves

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

**1/4"-2" 600 PSI/41.4 Bar Non-Shock Cold Working Pressure**

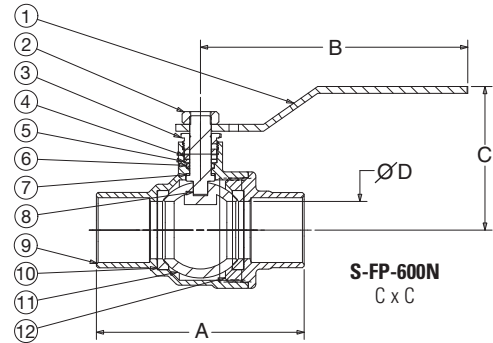
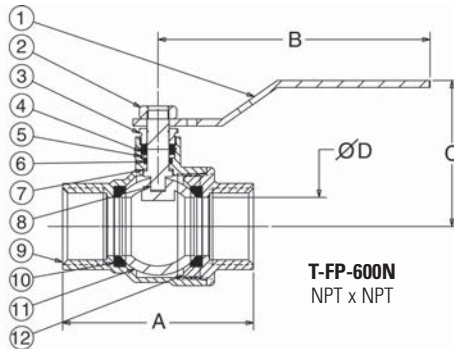
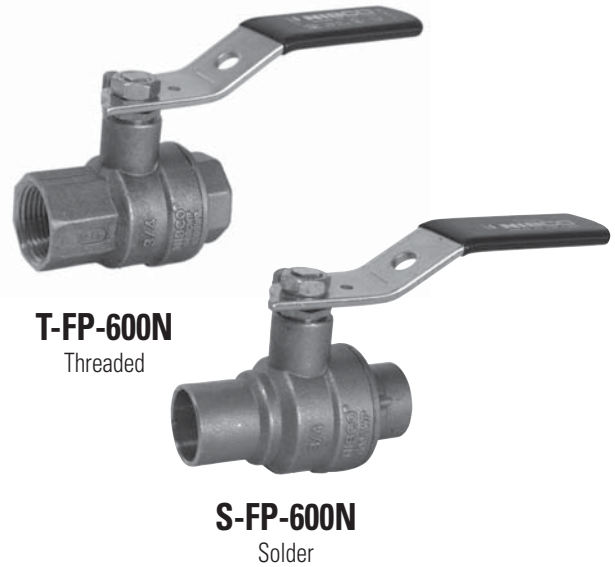
**2 1/2"-4" 400 PSI/27.6 Bar Non-Shock Cold Working Pressure**

CONFORMS TO MSS SP-110 • CSA TO ASME B 16.44 AND CR 91-002  
• FM APPROVED • UL LISTED • NSF/ANSI 61-8

## MATERIAL LIST

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)	Fluorocarbon (FKM)
7. Washer, Thrust	Reinforced PTFE
8. Stem	1/4" - 1" & 2 1/2" - 4 1 1/4" - 2" Brass ASTM B 16 Alloy C36000 Silicone Bronze ASTM B 371 Alloy 69400 or 69430
9. Body	Forged Brass ASTM B 283 Alloy C37700
10. Seat Ring	Virgin PTFE
11. Ball	1/4" - 3/4" & 2 1/2" - 4 1" - 2" Chrome Plated Brass ASTM B 16 Alloy C36000 Chrome Plated Forged Brass ASTM 283 Alloy C37700
12. End Piece	Forged Brass ASTM B 283 Alloy C37700

Note: CSA, FM, and UL approvals for T-FP-600N 1/2"-2" only.  
NSA is now the approving agency for AGA and CGA standards.  
NSF approval for S/T-FP600N 1/4" - 2" only.  
Meets Dimensional Requirements of MSS SP110



## DIMENSIONS—WEIGHTS—QUANTITIES

Size	Dimensions						Port D	T-FP-600N		S-FP-600N		T-FP-600N		S-FP-600N							
	A	A	B	B	C	C		Lbs.	Kg.	Lbs.	Kg.	Ctn.	Qty.	Ctn.	Qty.						
1/4	8	1.98	50	—	—	3.90	99	—	—	1.95	49	—	—	.31	8	.52	.24	—	—	24	—
3/8	10	1.98	50	2.02	51	3.90	99	3.90	99	1.95	49	1.95	49	.38	10	.49	.22	.46	.21	24	14
1/2	15	2.22	56	2.15	55	3.34	85	3.90	99	1.95	49	1.95	49	.50	13	.53	.24	.48	.22	18	18
3/4	20	2.66	67	2.94	75	3.34	85	4.66	118	2.30	58	2.30	58	.75	19	.96	.44	.90	.41	12	12
1	25	3.27	83	3.62	92	4.13	105	4.66	118	2.50	64	2.50	64	1.00	25	1.32	.60	1.25	.57	6	6
1 1/4	32	3.66	93	4.08	104	4.13	105	6.69	170	3.07	78	3.05	77	1.25	32	2.27	1.03	2.14	.97	4	4
1 1/2	40	3.96	100	4.63	118	5.13	130	6.69	170	3.25	83	3.23	82	1.50	38	3.12	1.42	2.94	1.33	2	2
2	50	4.66	118	5.78	147	5.13	130	6.69	170	3.55	90	3.55	90	2.00	51	4.52	2.05	4.46	2.02	2	2
2 1/2	65	5.56	141	6.38	162	9.44	240	9.90	252	4.25	108	4.25	108	2.50	64	7.00	3.18	7.30	3.32	5	1
3	75	6.38	162	7.36	187	9.44	240	9.90	252	5.00	127	4.65	118	3.00	76	9.40	4.27	10.40	7.73	4	1
4	100	7.75	197	—	—	9.44	240	—	—	5.25	140	—	—	4.00	102	16.50	7.49	—	—	4	—



# Brass Ball Valves

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

**600 PSI/41.4 Bar Non-Shock Cold Working Pressure**

CONFORMS TO MSS SP-110 • NSF/ANSI 61-8

## MATERIAL LIST

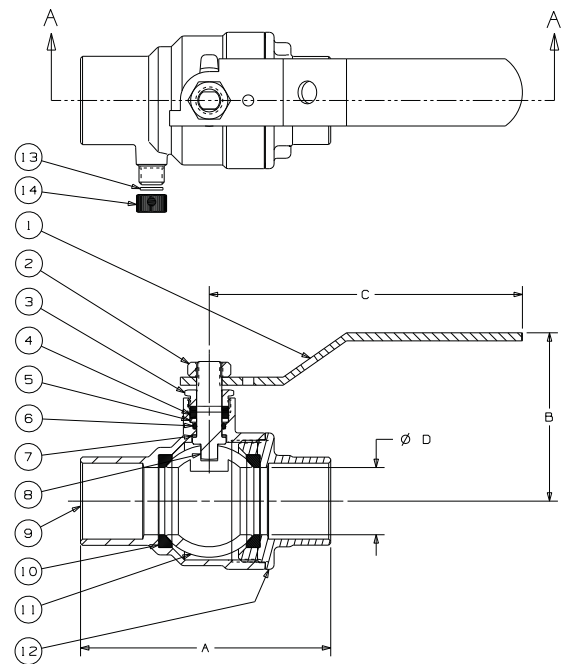
PART	SPECIFICATION
1. Handle	Steel, Plated
2. Nut, Handle	Steel, Plated
3. Pack Gland	Brass ASTM B 16 Alloy C36000
4. Packing, Stem	Virgin PTFE
5. Washer, Flat	430 Stainless
6. O-Ring, Stem	Fluorocarbon (FKM)
7. Washer, Thrust	Reinforced PTFE
8. Stem	Brass ASTM B 16 Alloy C36000
9. Body, Solder	Forged Brass ASTM B 283 Alloy C37700
10. Seat Ring	Virgin PTFE
11. Ball	Chrome Plated Forged Brass ASTM 283 Alloy C37700
12. End Piece, Solder	Forged Brass ASTM B 283 Alloy C37700
13. Drain Washer	Rubber
14. Drain Cap	Brass ASTM b 16 Alloy C36000



**S-FP-600-ND**  
Solder

## DIMENSIONS—WEIGHTS

Nom. Size	Approx. Net Wt./Lbs.	DIMENSIONS/INCHES			
		A	B	C	D
1/2	2.28	3.90	1.95	0.50	
3/4	3.05	4.66	2.30	0.75	
1	3.72	4.66	2.50	1.00	









**S-FP-600-ND**  
C x C



# Gas Ball Valves, Gas Cocks & Log Lighters

## Illustrated Index

<p>Two-Piece Gas Ball Valve with Lever Handle CSA Approved</p>  <p><b>GB-10</b> Sizes 3/8" thru 1" Threaded Ends page 14</p>	<p>Two-Piece Gas Ball Valve with Square Head CSA Approved</p>  <p><b>GB-20</b> Sizes 1/2" thru 3/4" Threaded Ends page 14</p>	<p>Two-Piece Gas Ball Valve with Tee Handle CSA Approved</p>  <p><b>GB-30</b> Sizes 1/2" thru 3/4" Threaded Ends page 15</p>
<p>Two-Piece Gas Ball Valve with Lever Handle CSA Approved</p>  <p><b>GBV/GCH</b> Sizes 3/8" thru 1/2" Female x Flare page 16</p>	<p>Two-Piece Gas Ball Valve with Lever Handle CSA Approved</p>  <p><b>GBV38FL/GBV12FL</b> Sizes 3/8" thru 1/2" Flare x Flare page 16</p>	<p>Two-Piece Gas Ball Valve with Lever Handle CSA Approved</p>  <p><b>GBV38M/GBV12M</b> Sizes 3/8" thru 1/2" Flare x Male page 15</p>

# Gas Ball Valve

## GB10 Female x Female, Lever Handle

- 1/2 PSI for indoor appliance connections per ANSI Z21.15 & CGA 9.1a
- 5 PSI for indoor shutoff per CGA 91-002 and ASME B16.44
- 400 PSI CWP Rated

### MATERIAL LIST

PART	SPECIFICATION
1. Screw	Steel, Plated
2. Handle	Painted Aluminum
3. Stem	Brass ASTM B 16 alloy C36000
4. O-Rings (2)	Fluorocarbon (FKM)
5. Ball	Chrome Plated Brass ASTM B 16 Alloy C36000
6. Seat Ring	TFM - 15% Glass Filled
7. Body	Forged Brass ASTM B 283 Alloy C37700
8. Body End Piece	Forged Brass ASTM B 283 Alloy C37700

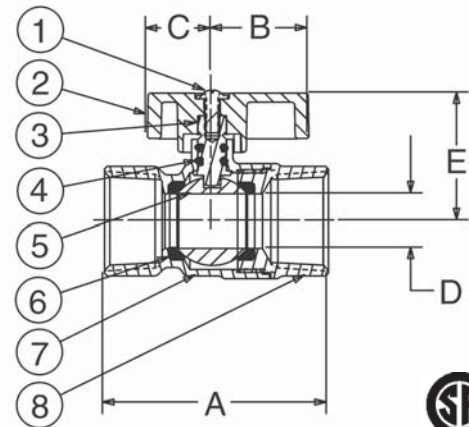
### DIMENSIONS—WEIGHT

Size	Dim. A	Dim. B	Dim. C	Dim. D	Dim. E	Weight
1/2"	2.33	0.71	1.05	0.44	1.29	.35
3/4"	2.45	0.71	1.05	0.59	1.41	.46

Note: For 3/8" and 1" valves, consult NIBCO Customer Service for specifications.



**GB10**



**GB10**



## GB20 Female x Female, Square Head

- 1/2 PSI for indoor appliance connections per ANSI Z21.15 & CGA 9.2
- 5 PSI for indoor shutoff per CGA 91-002 and ASME B16.44
- 400 PSI CWP Rated

### MATERIAL LIST

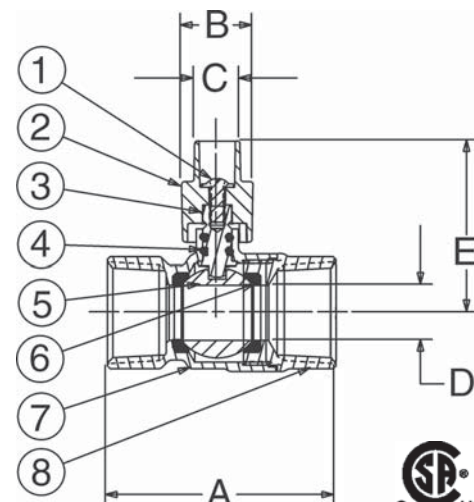
PART	SPECIFICATION
1. Screw	Steel, Plated
2. Handle	Painted Aluminum
3. Stem	Brass ASTM B 16 alloy C36000
4. O-Rings (2)	Fluorocarbon (FKM)
5. Ball	Chrome Plated Brass ASTM B 16 Alloy C36000
6. Seat Ring	TFM - 15% Glass Filled
7. Body	Forged Brass ASTM B 283 Alloy C37700
8. Body End Piece	Forged Brass ASTM B 283 Alloy C37700

### DIMENSIONS—WEIGHT

Size	Dim. A	Dim. B	Dim. C	Dim. D	Dim. E	Weight
1/2"	2.33	0.75	0.50	0.44	1.73	.34
3/4"	2.38	1.41	1.93	.59	.98	.55



**GB20**



**GB20**



# Gas Ball Valve

## GB30 — Female x Female, Tee Handle

- 1/2 PSI for indoor appliance connections per ANSI Z21.15 & CGA 9.2
- 5 PSI for indoor shut-off per CGA 91-002 and ASME B16.44
- 400 PSI CWP Rated

### MATERIAL LIST

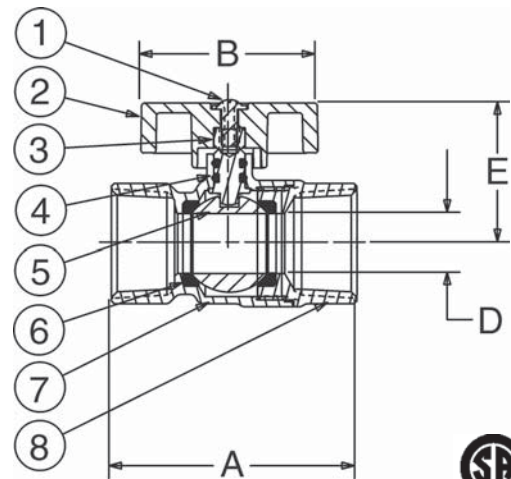
PART	SPECIFICATION
1. Screw	Steel, Plated
2. Handle	Painted Aluminum
3. Stem	Brass ASTM B 16 alloy C36000
4. O-Rings (2)	Fluorocarbon (FKM)
5. Ball	Chrome Plated Brass ASTM B 16 Alloy C36000
6. Seat Ring	TFM - 15% Glass Filled
7. Body	Forged Brass ASTM B 283 Alloy C37700
8. Body End Piece	Forged Brass ASTM B 283 Alloy C37700

### DIMENSIONS—WEIGHT

Size	Dim. A	Dim. B	Dim. D	Dim. E	Weight
1/2"	2.33	1.75	0.38	0.44	.35
3/4"	2.45	1.75	0.50	0.59	.46



GB30



GB30



## GBV 38M/GBV12M — Flare x Male, Lever Handle

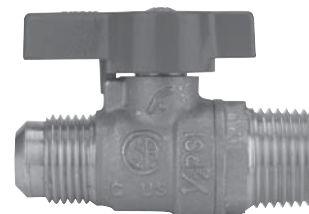
- 1/2 PSI for indoor appliance connections per ANSI Z21.15 & CGA 9.2
- 5 PSI for indoor shut-off per ASME B16.44, CGA 9.1, 9.2, and CR91-002

### MATERIAL LIST

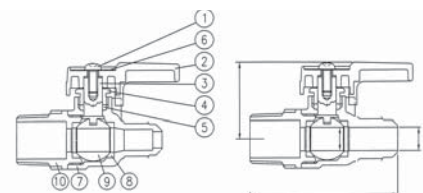
PART	SPECIFICATION
1. Screw	Steel AISI-1010
2. Handle	Zinc B86
3. Stem	Brass B16-C36000
4. Stem Gland Screw	Brass B16-C36000
5. Gland Packing	PTFE
6. Name Plate	Aluminum B209-1100
7. Body	Forged Brass B124-C37700
8. Ball Seat	PTFE
9. Ball	Brass B16-C36000
10. End Piece	Forged Brass B124-C37700

### DIMENSIONS—WEIGHT

Item	Size	Dim. A	Dim. B	Dim. D	Weight
GBV 38M	3/8" Flare x 1/2" Male	2.44	1.3	.28	.33
GBV12M	1/2" Flare x 1/2" Male	2.48	1.3	.39	.35



GB38M/GB12M



GB38M/GB12M





# Gas Valve

## GBV — Tamper Proof, Flare x FIP, Lever Handle

- 1/2 PSI for indoor appliance connections per ANSI Z21.15 & CGA 9.2
- 5 PSI for indoor shut-off per ASME B 16.44, CGA 9.1, 9.2, and CR91-002

### MATERIAL LIST

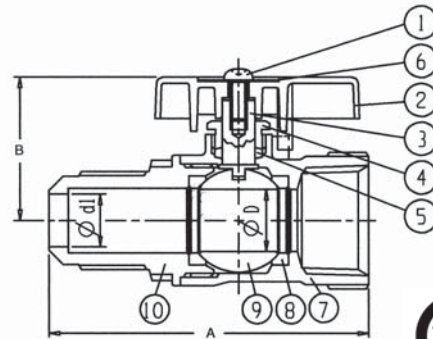
PART	SPECIFICATION
1. Screw	Steel AISI-1010
2. Handle	Zinc B86
3. Stem	Brass B16-C36000
4. Stem Gland Screw	Brass B16-C36000
5. Gland Packing	PTFE
6. Name Plate	Aluminum B209-1100
7. Body	Forged Brass B124-C37700
8. Ball Seat	PTFE
9. Ball	Brass B16-C36000
10. End Piece	Forged Brass B124-C37700

### DIMENSIONS—WEIGHT

Item	Size	Dim. A	Dim. B	Dim. D	Dim. d1	Weight
GBV 3812	3/8" Flare x 1/2" Female	2.44	1.22	.39	.28	.35
GBV12	1/2" Flare x 1/2" Female	2.52	1.22	.39	.39	.44
GBV 1516	5/8" Flare x 3/4" Female w/15/16-16 Flare Thread	3.03	1.38	.59	.50	.58
GCH	3/8" Flare x 1/2" Female w/9/16-24 Fine Flare Thread	2.44	1.22	.39	.28	.35



GBV/GCH



GBV/GCH



## GBV 38FL/GBV12FL — Flare x Flare, Lever Handle

- 1/2 PSI for indoor appliance connections per ANSI Z21.15 & CGA 9.2
- 5 PSI for indoor shut-off per ASME B16.44, CGA 9.1, 9.2, and CR91-002

### MATERIAL LIST

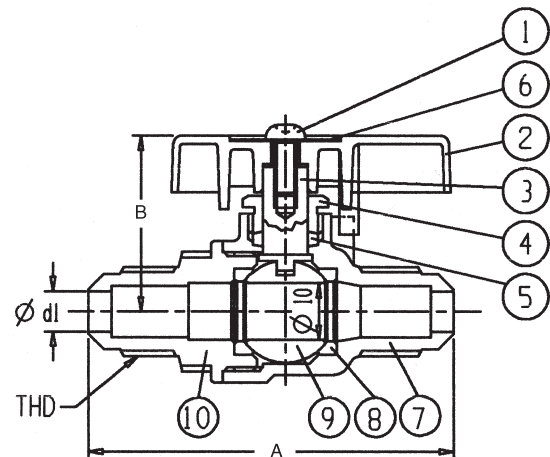
PART	SPECIFICATION
1. Screw	Steel AISI-1010
2. Handle	Zinc B86
3. Stem	Brass B16-C36000
4. Stem Gland Screw	Brass B16-C36000
5. Gland Packing	PTFE
6. Name Plate	Aluminum B209-1100
7. Body	Forged Brass B124-C37700
8. Ball Seat	PTFE
9. Ball	Brass B16-C36000
10. End Piece	Forged Brass B124-C37700

### DIMENSIONS—WEIGHT

Item	Size	Dim. A	Dim. B	Dim. D	Dim. d1	Weight
GBV 38FL	3/8" Flare	2.52	1.22	.39	.28	.32
GBV12FL	1/2" Flare	2.64	1.22	.39	.39	.36



GBV38FL/GB12FL



GBV38FL/GB12FL



# Notes

# Frostproof Sillcocks

## Illustrated Index

Bronze Frostproof Sillcock



**80M**  
 Sizes 1/2" x 4" - 1/2" x 14"  
 3/4" x 4" - 3/4" x 14"  
 1/2 Cup & Male End x Hose  
 3/4 Male & 1/2 Female End x Hose  
 page 19

Brass Frostproof Sillcock  
with Anti-Siphon



**85M**  
 Sizes 1/2" x 4" - 1/2" x 12"  
 1/2 Cup & Male End x Hose  
 page 20

Bronze Frostproof Sillcock  
with Anti-Siphon



**90M**  
 Sizes 1/2" x 4" - 1/2" x 14"  
 3/4" x 4" - 3/4" 14"  
 1/2 Cup & Male End x Hose  
 3/4 Male & 1/2 Female End x Hose  
 page 21

# Fig. 80M Frostproof Sillcock

Bronze Body • Nitrile Seat Disc for Positive Shut-off • Copper Body Tube •  
Built in Lockshield • Easy Grip Metal Handwheel • Meets CSA B125

### MATERIAL LIST

PART	SPECIFICATION
1. Handwheel Screw	304 or 430 Stainless Steel Passivated
2. Identification Disc	Aluminum
3. Handwheel	Aluminum or Zinc Alloy
4. Stuffing Box	ASTM B 16 36000
5. Packing	PTFE Impregnated Non-Asbestos
6. Packing Washer	ASTM B 16 36000
7. Body	ASTM B 584 C84400
8. Siding Wedge	Plastic HDPE
9. Body Tube	ASTM B 88
10. Stem Tube	ASTM B 88
11. Actuator	ASTM B 16 36000
12. Seat Disc Screw	430 Stainless Steel Passivated
13. Seat Disc	NBR
14. Seat Adapter	ASTM B 16 36000



**Fig. 80M**

1/2" (1/2 cup or 1/2 MIP to Hose)  
3/4" (3/4 MIP or 3/4 FIP to Hose)

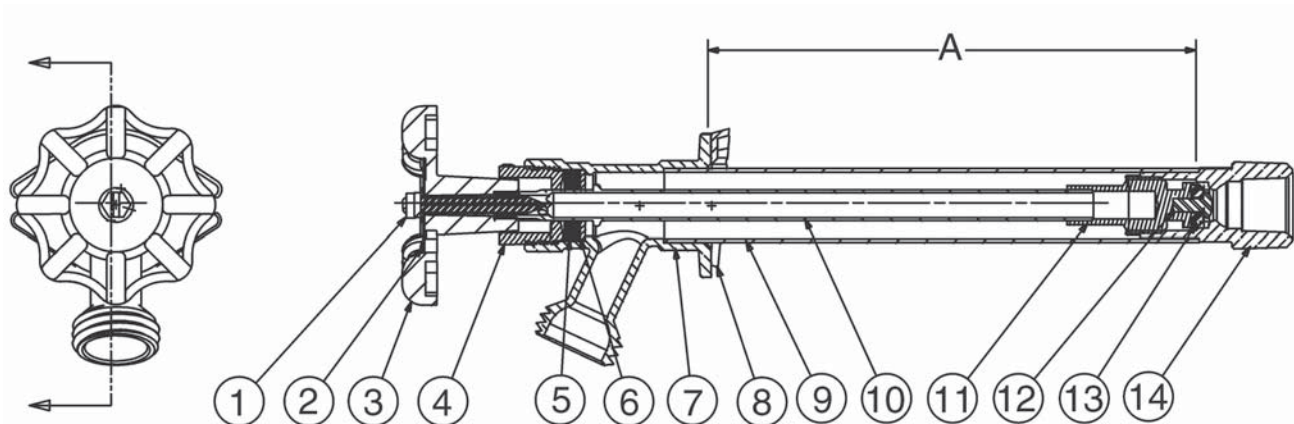
\* Includes siding wedge

### DIMENSIONS — WEIGHTS

Size (In.)	A	Wt. Lbs.
1/2 x 4	4	1.02
1/2 x 6	6	1.09
1/2 x 8	8	1.16
1/2 x 10	10	1.22
1/2 x 12	12	1.28
1/2 x 14	14	1.36

### DIMENSIONS — WEIGHTS

Size (In.)	A	Wt. Lbs.
3/4 x 4	4	1.10
3/4 x 6	6	1.10
3/4 x 8	8	1.23
3/4 x 10	10	1.30
3/4 x 12	12	1.36
3/4 x 14	14	1.42



# Fig. 85 Anti-Siphon Frostproof Sillcock

Chrome Plated Brass Body • Nitrile Seat Disc • Chrome Plated Brass Body Tube • Easy Grip Metal Handwheel  
• Complies to ASSE 1019-A • CSA Approved • IAPMO Listed

## MATERIAL LIST

PART	SPECIFICATION
1. Screw	Brass
2. Handwheel	Aluminum
3. I.D. Plate	Aluminum
4. Anti-Siphon Cap	Chrome Plated Brass
5. O-Ring	EPDM
6. Anti-Siphon Body	Acetal
7. Anti-Siphon Poppet	Acetal
8. Poppet Seat Disc	Nitrile
9. Siding Wedge	Plastic HDPE
10. Body Tube	Chrome Plated Brass
11. Stem Tube	Brass
12. Spring	Stainless Steel
13. Seat Poppet	Brass
14. O-Ring	EPDM
15. Diaphragm	Reinforced Rubber
16. Seat Retainer	Brass
17. Seat Disc	Nitrile
18. Screw	Brass
19. Seat Adapter	Brass
20. Pack Gland	Brass
21. Washer	Stainless Steel
22. Packing	Nitrile
23. Washer	Stainless Steel
24. Body	Chrome Plated Brass

\* Includes siding wedge  
See installations instructions on page 60.

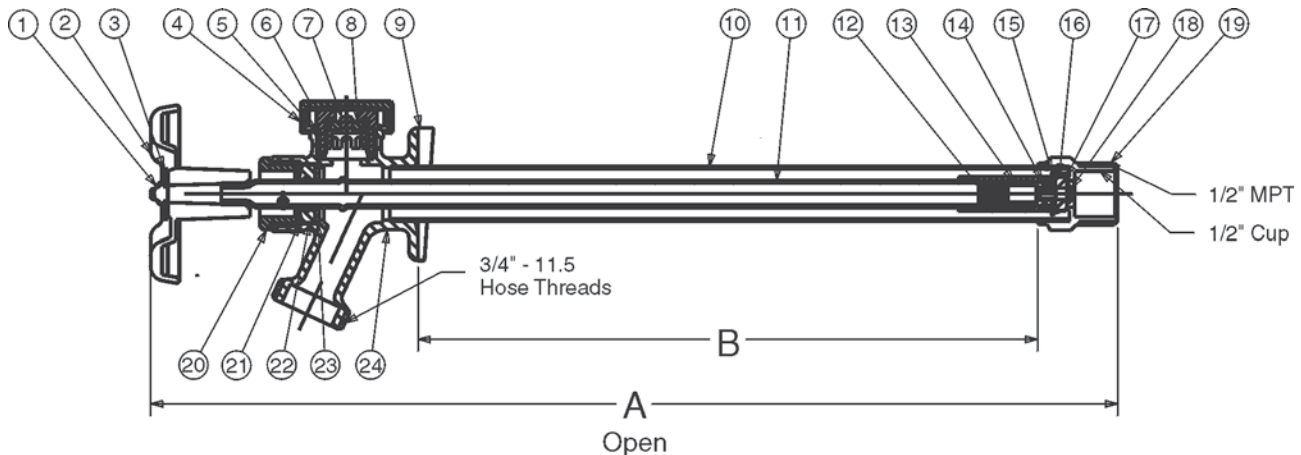


**Fig. 85**

1/2" (1/2 cup or 3/4 MIP to Hose)

## DIMENSIONS — WEIGHTS

Size (In.)	A	B	Wt. Lbs.
1/2 x 4	9	4	0.93
1/2 x 6	11	6	0.97
1/2 x 8	13	8	1.06
1/2 x 10	15	10	1.09
1/2 x 12	17	12	1.18
1/2 x 14	19	14	1.26



# Fig. 90 Anti-Siphon Frostproof Sillcock

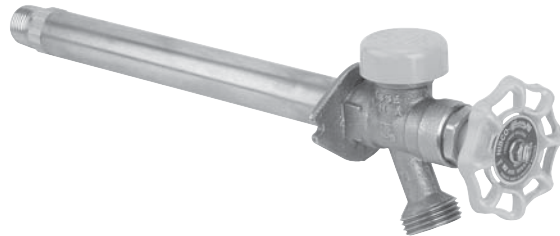
Bronze Body • Nitrile Seat Disc • Copper Body Tube • Self Draining • Built in Lockshield • Easy Grip Metal Handwheel • Complies to ASSE 1019-A • CSA Approved • IAPMO Listed



## MATERIAL LIST

PART	SPECIFICATION
1. Handwheel Screw	304 or 430 SS Passivated
2. Identification Disc	Aluminum
3. Handwheel	Aluminum or Zinc Alloy
4. Stuffing Box	ASTM B 16 Alloy C36000
5. Packing	PTFE Non-Asbestos
6. Packing Washer	ASTM B 36 Alloy C26000
7. Body	ASTM B 584 C84400
8. Stem Tube	ASTM B 88
9. Body Tube	ASTM B 88
10. Actuator	ASTM B 16 C36000
11. Seat Poppet	ASTM B 16 C36000
12. Seat Poppet O-Ring	EPDM
13. Seat Disc	NBR
14. Seat Disc Screw	430 SS Passivated
15. Seat Adapter	ASTM B 16 C36000
16. Seat Disc Retainer	ASTM B 16 C36000
17. Diaphragm	Reinforced NBR
18. Spring	ASTM B 313 S30200
19. Siding Wedge	Plastic HDPE
20. Anti-Siphon Body O-Ring	EPDM
21. Anti-Siphon Seat Disc	Thermoplastic Rubber
22. Anti-Siphon Poppet	Plastic Polypropylene
23. Anti-Siphon Body	Plastic Acetal
24. Anit-Siphon Cap	Plastic ABS

\* Includes siding wedge  
See installation instructions on page 60.

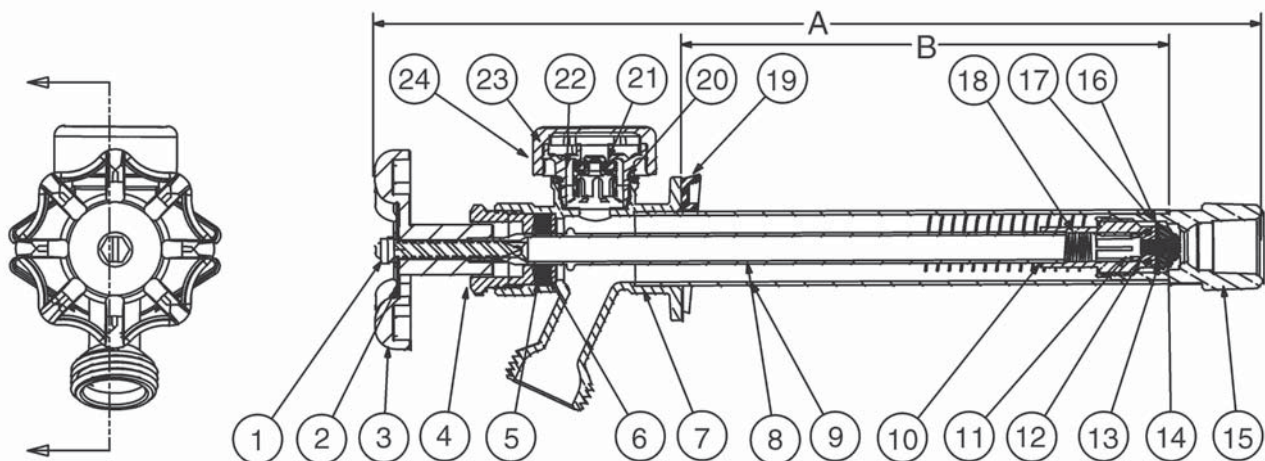


**Fig. 90M**

1/2" (1/2 cup or 1/2 MIP to Hose)  
3/4" (3/4 MIP or 1/2 FIP to Hose)











## DIMENSIONS — WEIGHTS

Size (In.)	A	B	Wt. Lbs.
1/2 x 4	9	4	0.95
1/2 x 6	11	6	1.07
1/2 x 8	13	8	1.14
1/2 x 10	15	10	1.21
1/2 x 12	17	12	1.27
1/2 x 14	19	14	1.34
3/4 x 4	9	4	1.08
3/4 x 6	11	6	1.15
3/4 x 8	13	8	1.21
3/4 x 10	15	10	1.28
3/4 x 12	17	12	1.34
3/4 x 14	19	14	1.41





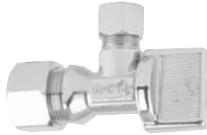
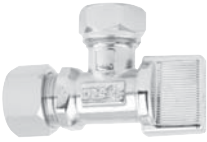


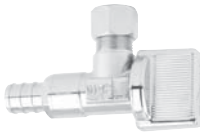
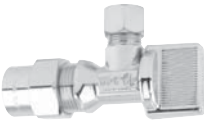

# PRO-Stop® Supply Stops - Straight Pattern

## Illustrated Index

<p>Quarter-Turn Supply Stop Straight Pattern</p>  <p><b>7120</b> Size 1/2" x 3/8" Solder Cup x Compression page 23</p>	<p>Quarter-Turn Supply Stop Straight Pattern</p>  <p><b>7120PEX</b> Size 1/2" x 1/2" Solder Cup x PEX page 23</p>	<p>Quarter-Turn Supply Stop Straight Pattern</p>  <p><b>7120TE</b> Size 5/8" O.D. x 3/8" O.D. Solder x Compression page 23</p>																		
<p>Quarter-Turn Supply Stop Straight Pattern</p>  <p><b>7140</b> Sizes 3/8" x 3/8" 5/8" x 3/8" 5/8" x 1/2" Compression x Compression page 23</p>	<p>Quarter-Turn Supply Stop Straight Pattern</p>  <p><b>7140F</b> Repair Stop Size 3/8" x 3/8" Female Compression x Compression page 23</p>	<p>Quarter-Turn Supply Stop Straight Pattern</p>  <p><b>7140SJ</b> Size 5/8" thru 7/16" Compression x Slip Joint page 23</p>																		
<p>Quarter-Turn Supply Stop Straight Pattern</p>  <p><b>7150</b> Sizes 3/8" x 3/8" 1/2" x 3/8" FIP x Compression page 24</p>	<p>Quarter-Turn Supply Stop Straight Pattern</p>  <p><b>7160</b> Sizes 1/2" x 3/8" PEX Barb x Compression page 24</p>	<p>Quarter-Turn Supply Stop Straight Pattern</p>  <p><b>7160PEX</b> Size 1/2" x 1/2" PEX Barb x PEX Barb page 24</p>																		
<p>Quarter-Turn Supply Stop Straight Pattern</p>  <p><b>7170</b> Size 1/2" x 3/8" CPVC x Compression page 24</p>	<table border="1"> <thead> <tr> <th colspan="2">MATERIAL LIST</th> </tr> <tr> <th>PART</th> <th>SPECIFICATION</th> </tr> </thead> <tbody> <tr> <td>Body and Nut</td> <td>Brass Chrome Plated</td> </tr> <tr> <td>Stem/Ball</td> <td>Brass</td> </tr> <tr> <td>Seat</td> <td>Nitrile</td> </tr> <tr> <td>Support Clip</td> <td>POM</td> </tr> <tr> <td>"O" Ring</td> <td>Nitrile</td> </tr> <tr> <td>Handle</td> <td>ABS or Zamac Chrome Plated</td> </tr> <tr> <td>Ferrule</td> <td>Brass</td> </tr> </tbody> </table>		MATERIAL LIST		PART	SPECIFICATION	Body and Nut	Brass Chrome Plated	Stem/Ball	Brass	Seat	Nitrile	Support Clip	POM	"O" Ring	Nitrile	Handle	ABS or Zamac Chrome Plated	Ferrule	Brass
MATERIAL LIST																				
PART	SPECIFICATION																			
Body and Nut	Brass Chrome Plated																			
Stem/Ball	Brass																			
Seat	Nitrile																			
Support Clip	POM																			
"O" Ring	Nitrile																			
Handle	ABS or Zamac Chrome Plated																			
Ferrule	Brass																			

# PRO-Stop® Supply Stops - Angle Pattern

## Illustrated Index

<p>Quarter-Turn Supply Stop Angle Pattern</p>  <p><b>7125</b> Sizes: 1/2" x 1/4" 1/2" x 3/8" Solder Cup x Compression page 24</p>	<p>Quarter-Turn Supply Stop Angle Pattern</p>  <p><b>7125TE</b> Sizes: 5/8" O.D. x 3/8" O.D. Solder x Compression page 24</p>	<p>Quarter-Turn Supply Stop Angle Pattern</p>  <p><b>7145</b> Sizes: 5/8" O.D. x 1/4" O.D. 5/8" O.D. x 3/8" O.D." 5/8" O.D. x 1/2" O.D. Compression x Compression page 25</p>
<p>Quarter-Turn Supply Stop Angle Pattern</p>  <p><b>7145SJ</b> Size 5/8" O.D. x 7/16" SJ FIP x Slip Joint page 25</p>	<p>Quarter-Turn Supply Stop Angle Pattern</p>  <p><b>7155</b> Sizes: 3/8" x 3/8" O.D. 1/2" x 1/4" O.D. 1/2" 3/8" O.D. 1/2" x 1/2" O.D. FIP x Compression page 25</p>	<p>Quarter-Turn Supply Stop Angle Pattern</p>  <p><b>7155SJ</b> Size 1/2" thru 7/16" O.D. FIP x Slip Joint page 25</p>
<p>Quarter-Turn Supply Stop Angle Pattern</p>  <p><b>7165</b> Sizes: 3/8" x 3/8" O.D. 1/2" x 3/8" O.D. PEX x Compression page 26</p>	<p>Quarter-Turn Supply Stop Angle Pattern</p>  <p><b>7175</b> Size 1/2" x 3/8" CPVC x Compression page 26</p>	<p>Quarter-Turn Supply Stop Dual Outlet Angle Pattern</p>  <p><b>7145DX</b> Size 5/8" O.D. x 3/8" O.D. x 3/8" O.D. Compression x Compression x Compression page 26</p>

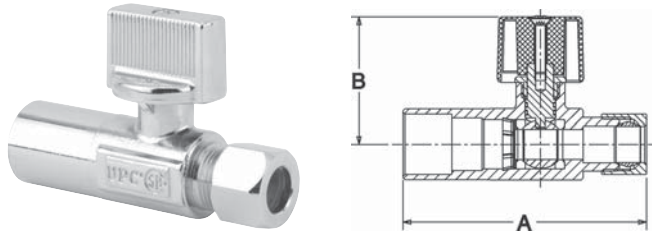
### MATERIAL LIST

PART	SPECIFICATION
Body and Nut	Brass Chrome Plated
Stem/Ball	Brass
Seat	Nitrile
Support Clip	POM
"O" Ring	Nitrile
Handle	ABS or Zamac Chrome Plated
Ferrule	Brass



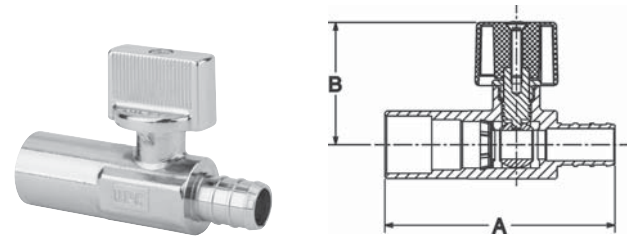
# PRO-Stop® Quarter-Turn Supply Stops

- 125 CWP Rated
- Compliant to CSA B125\* and NSF/ANSI 61-9
- IAPMO Listed



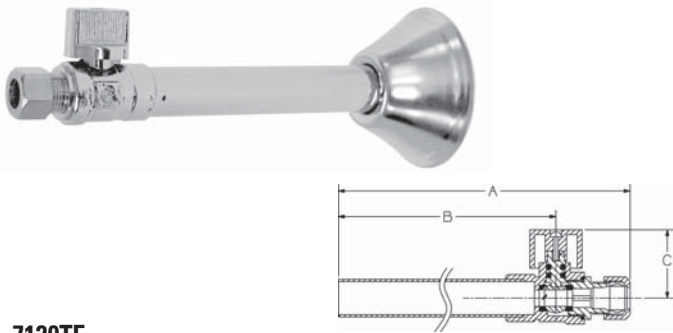
**7120**

DESCRIPTION	Inlet x Outlet	DIMENSIONS		APPROX. NET WT.
		A	B	
<b>STRAIGHT PATTERN</b> Solder x Compression	1/2 x 3/8	2.61"	1.34"	.224 lb



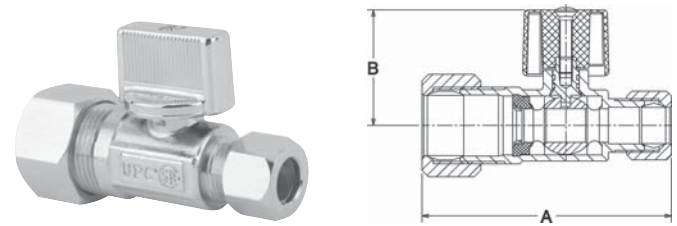
**7120PEX**

DESCRIPTION	Inlet x Outlet	DIMENSIONS		APPROX. NET WT.
		A	B	
<b>STRAIGHT PATTERN</b> Solder x PEX	1/2 x 1/2	2.68"	1.34"	.286 lb



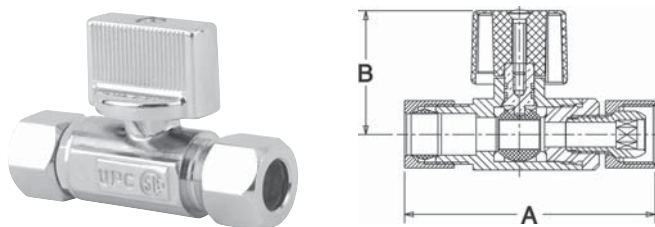
**7120TE**

DESCRIPTION	Inlet x Outlet	DIMENSIONS			APPROX. NET WT.
		A	B	C	
<b>STRAIGHT PATTERN</b> Solder x Compression	5/8 OD x 3/8	6.50"	5.28"	1.12"	.325 lb



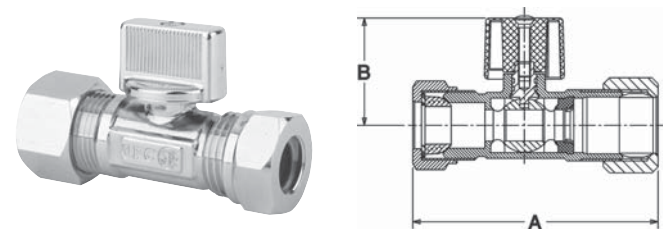
**7140**

DESCRIPTION	Inlet x Outlet	DIMENSIONS		APPROX. NET WT.
		A	B	
<b>STRAIGHT PATTERN</b> Compression x Compression	3/8 OD x 3/8	2.44"	1.18"	.251 lb
	5/8 OD x 3/8	2.60"	1.18"	.251 lb
	5/8 OD x 1/2	2.76"	1.18"	.264 lb



**7140F**

DESCRIPTION	Inlet x Outlet	DIMENSIONS		APPROX. NET WT.
		A	B	
<b>STRAIGHT PATTERN REPAIR STOP</b> Female Comp. x Compression	3/8 x 3/8	2.36"	1.18"	.196 lb



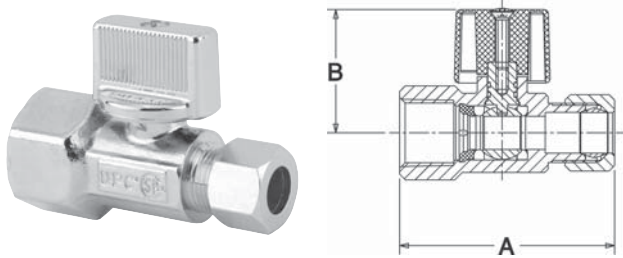
**7140SJ**

DESCRIPTION	Inlet x Outlet	DIMENSIONS		APPROX. NET WT.
		A	B	
<b>STRAIGHT PATTERN</b> Compression x Slip Joint	5/8 x 7/16	2.72"	1.18"	.385 lb

\*Applicable to specific valves

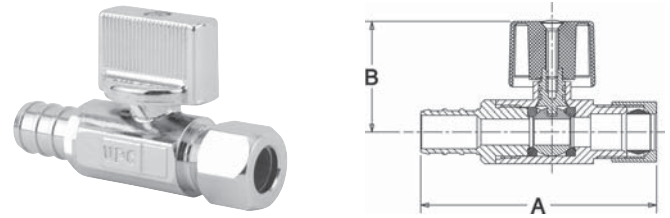
# PRO-Stop® Quarter-Turn Supply Stops

- 125 CWP Rated
- Compliant to CSA B125\* and NSF/ANSI 61-9
- IAPMO Listed



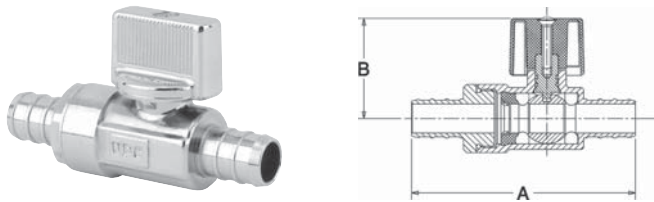
7150

DESCRIPTION	Inlet x Outlet	DIMENSIONS		APPROX. NET WT.
		A	B	
<b>STRAIGHT PATTERN</b> FIP x Compression	3/8 x 3/8	2.05"	1.57"	.202 lb
	1/2 x 3/8	2.24"	1.73"	.222 lb



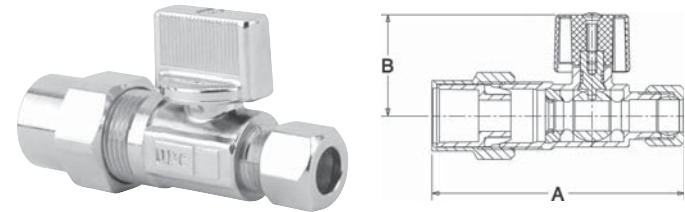
7160

DESCRIPTION	Inlet x Outlet	DIMENSIONS		APPROX. NET WT.
		A	B	
<b>STRAIGHT PATTERN</b> PEX x Compression	1/2 x 3/8	2.44"	1.18"	.183 lb



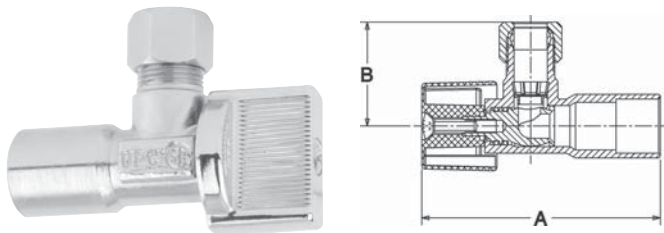
7160PEX

DESCRIPTION	NOM. SIZE	DIMENSIONS		APPROX. NET WT.
		A	B	
<b>STRAIGHT PATTERN</b> PEX x PEX	1/2	2.76"	1.18"	.308 lb



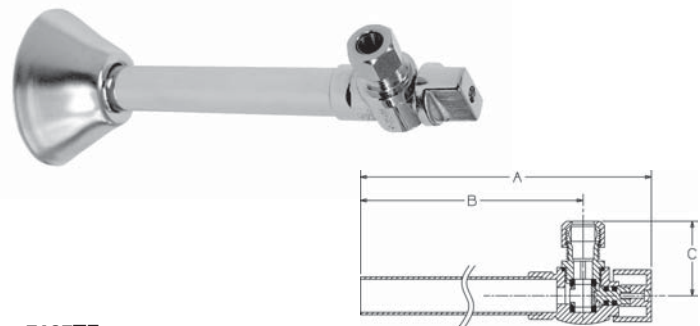
7170

DESCRIPTION	Inlet x Outlet	DIMENSIONS		APPROX. NET WT.
		B	D	
<b>STRAIGHT PATTERN</b> CPVC x Compression	1/2 x 3/8	3.03"	1.18"	.249 lb



7125

DESCRIPTION	Inlet x Outlet	DIMENSIONS		APPROX. NET WT.
		A	B	
<b>ANGLE PATTERN</b> Solder x Compression	1/2 x 1/4	2.56"	1.30"	.275 lb
	1/2 x 3/8	2.56"	1.18"	.218 lb

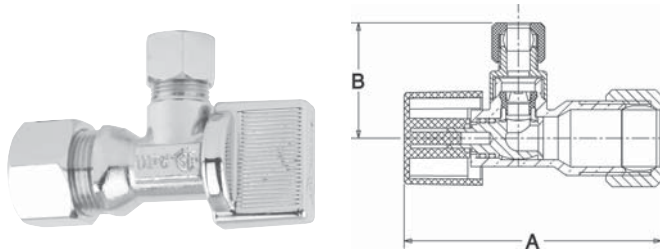


7125TE

DESCRIPTION	Inlet x Outlet	DIMENSIONS			APPROX. NET WT.
		A	B	C	
<b>ANGLE PATTERN</b> Solder x Compression	5/8 OD x 3/8	6.57"	5.67"	1.18"	.350 lb

# PRO-Stop® Quarter-Turn Supply Stops

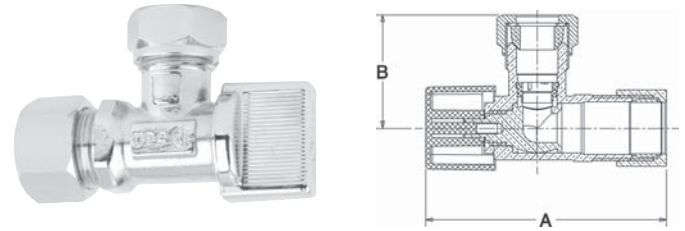
- 125 CWP Rated
- Compliant to CSA B125\* and NSF/ANSI 61-9
- IAPMO Listed



**7145**

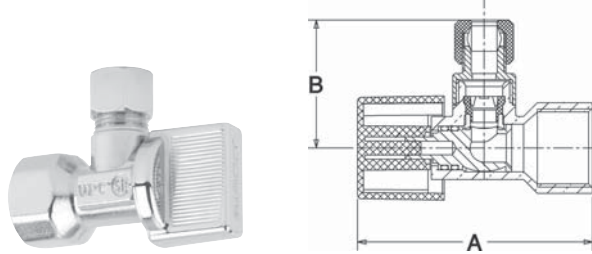
DESCRIPTION	Inlet x Outlet	DIMENSIONS		APPROX. NET WT.
		A	B	
<b>ANGLE PATTERN</b> Compression x Compression	5/8 OD x 1/4	2.80"	1.30"	.183 lb
	5/8 OD x 3/8	2.80"	1.22"	.240 lb
	5/8 OD x 1/2	2.80"	1.34"	.365 lb

\*Applicable to specific valves



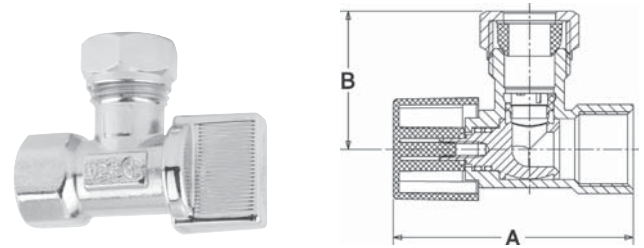
**7145SJ**

DESCRIPTION	Inlet x Outlet	DIMENSIONS		APPROX. NET WT.
		A	B	
<b>ANGLE PATTERN</b> Compression x Slip Joint	5/8 OD x 7/16	2.91"	1.34"	.372 lb



**7155**

DESCRIPTION	Inlet x Outlet	DIMENSIONS		APPROX. NET WT.
		A	B	
<b>ANGLE PATTERN</b> FIP x Compression	3/8 x 3/8	2.28"	1.22"	.183 lb
	1/2 x 1/4	2.32"	1.30"	.180 lb
	1/2 x 3/8	2.32"	1.22"	.180 lb
	1/2 x 1/2	2.32"	1.34"	.275 lb

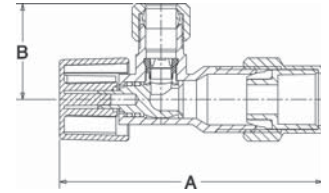
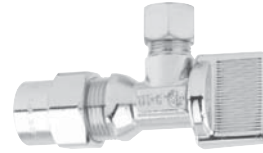
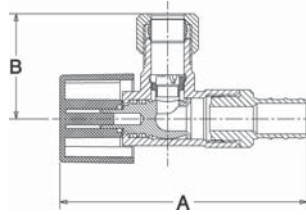
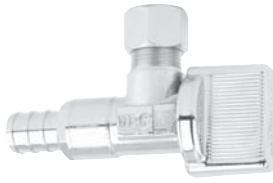


**7155SJ**

DESCRIPTION	Inlet x Outlet	DIMENSIONS		APPROX. NET WT.
		A	B	
<b>ANGLE PATTERN</b> FIP x Slip Joint	1/2 x 7/16	2.32"	1.34"	.268 lb

# PRO-Stop® Quarter-Turn Supply Stops

- 125 CWP Rated
- Compliant to CSA B125\* and NSF/ANSI 61-9
- IAPMO Listed

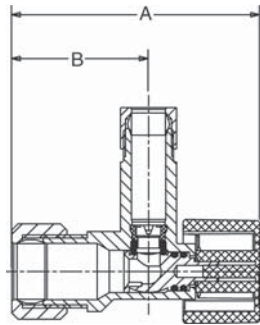


## 7165

DESCRIPTION	Inlet x Outlet	DIMENSIONS		APPROX. NET WT.
		A	B	
<b>ANGLE PATTERN</b> PEX x Compression	1/2 x 3/8	2.91"	1.22"	.180 lb

## 7175

DESCRIPTION	Inlet x Outlet	DIMENSIONS		APPROX. NET WT.
		A	B	
<b>ANGLE PATTERN</b> CPVC x Compression	1/2 x 3/8	3.23 "	1.22"	.242 lb



## 7145DX


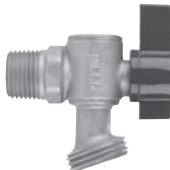






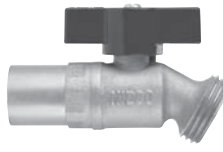
DESCRIPTION	Inlet x Outlet	DIMENSIONS		APPROX. NET WT.
		A	B	
<b>DUAL OUTLET ANGLE PATTERN</b> Comp x Comp x Comp	5/8 x 3/8 x 3/8	2.80"	1.54"	.338 lb

Contact Customer Service for 7155DX details.

\*Applicable to specific valves

# QTX Series Quarter-Turn Low Pressure Valves

## Illustrated Index

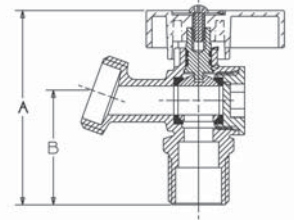
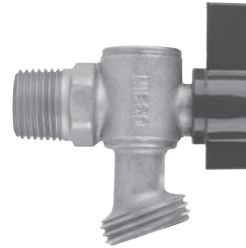
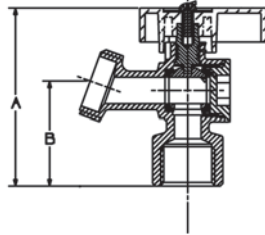
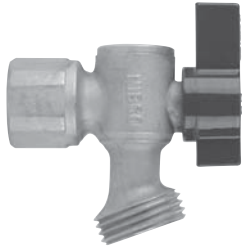
<p>Quarter-Turn Boiler Drain</p>  <p><b>QT73X</b> Sizes: 1/2" - 3/4" FIP to Hose page 28</p>	<p>Quarter-Turn Boiler Drain</p>  <p><b>QT74X</b> Sizes: 1/2" - 3/4" Cup or MIP Threads to Hose page 28</p>	<p>Quarter-Turn Angle Sillcock</p>  <p><b>QT63X</b> Size 1/2" - 3/4" Threaded to Hose page 28</p>
<p>Quarter-Turn Angle Sillcock</p>  <p><b>QT7631X</b> Sizes: 1/2" - 3/4" 1/2 Cup or 3/4 Ftg. to Hose page 28</p>	<p>Quarter-Turn Angle Sillcock</p>  <p><b>QT763X</b> Size 1/2" - 3/4" Solder to Hose page 28</p>	<p>Quarter-Turn No-Kink Hose Bibb</p>  <p><b>QT54X</b> Sizes: 1/2" - 3/4" Male or Cup to Hose page 29</p>
<p>Quarter-Turn No-Kink Hose Bibb</p>  <p><b>QT55X</b> Size 1/2" - 3/4" FIP to Hose page 29</p>	<p>Quarter-Turn Hose Bibb</p>  <p><b>QT56X</b> Size 1/2" - 3/4" Cup or Male to Hose Male Thread to Hose page 29</p>	<p>Quarter-Turn No-Kink Hose Bibb</p>  <p><b>QT57X</b> Size 1/2" - 3/4" 1/2" Cup or 3/4" Ftg. to Hose page 29</p>

### MATERIAL LIST

PART	SPECIFICATION
Screw	Steel
I.D. Tag	Aluminum
Handle	Zinc
Stem	Brass ASTM B 16 UNS C36000
O-Ring	Nitrile
Seat	PTFE
Ball	Brass ASTM B 16 UNS C36000
Adapter	Brass ASTM B 283 UNS C37700
Body	Brass ASTM B 283 UNS C37700

# QTX Series Quarter-Turn Low Pressure Valves

- Compliant to CSA B125\* and NSF/ANSI 61-9
- IAPMO Listed

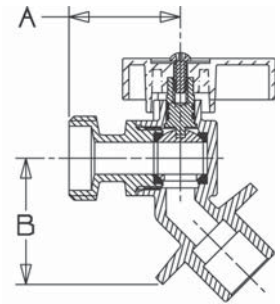
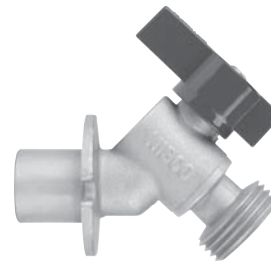
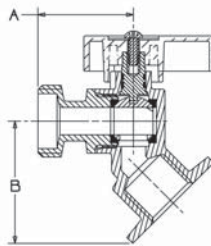
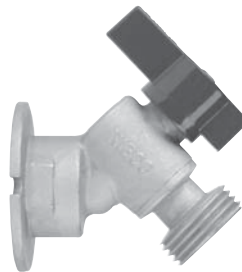


## QT73X

DESCRIPTION	Nom. Size	DIMENSIONS		APPROX. NET WT.
		A	B	
<b>BOILER DRAIN</b> FIP to Hose	1/2	2.64"	1.57"	.42 lb
	3/4	2.72"	1.65"	.46 lb

## QT74X

DESCRIPTION	Nom. Size	DIMENSIONS		APPROX. NET WT.
		A	B	
<b>BOILER DRAIN</b> Cup or MIP Threads to Hose	1/2	2.64"	1.57"	.40 lb
	3/4	2.72"	1.65"	.42 lb

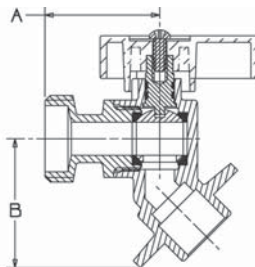
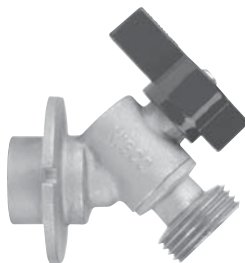


## QT63X

DESCRIPTION	Nom. Size	DIMENSIONS		APPROX. NET WT.
		A	B	
<b>ANGLE SILLCOCK</b> Threaded to Hose	1/2	1.38"	1.77"	.44 lb
	3/4	1.38"	1.85"	.48 lb

## QT763IX

DESCRIPTION	Nom. Size	DIMENSIONS		APPROX. NET WT.
		A	B	
<b>ANGLE SILLCOCK</b> 1/2 Cup or 3/4 Ftg. to Hose	1/2 or 3/4	1.38"	1.57"	.50 lb

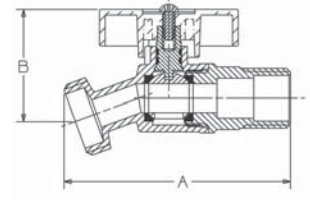
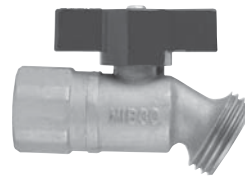
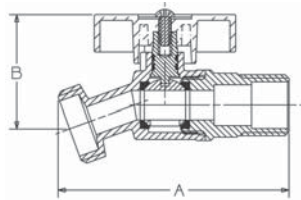


## QT763X

DESCRIPTION	Nom. Size	DIMENSIONS		APPROX. NET WT.
		A	B	
<b>ANGLE SILLCOCK</b> Solder to Hose	1/2	1.38"	1.54"	.43 lb
	3/4	1.38"	1.69"	.48 lb

# QTX Series Quarter-Turn Low Pressure Valves

- Compliant to CSA B125\* and NSF/ANSI 61-9
- IAPMO Listed

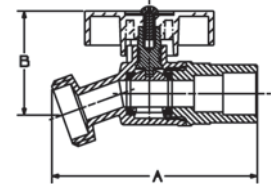
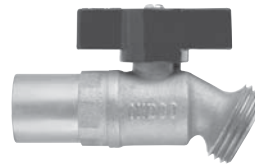
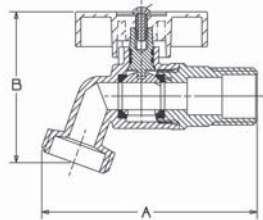


## QT54X

DESCRIPTION	Nom. Size	DIMENSIONS		APPROX. NET WT.
		A	B	
<b>NO-KINK HOSE BIBB</b> Male or Cup to Hose	1/2	3.15"	1.54"	.40 lb
	3/4	3.15"	1.54"	.42 lb

## QT55X

DESCRIPTION	Nom. Size	DIMENSIONS		APPROX. NET WT.
		A	B	
<b>NO-KINK HOSE BIBB</b> FIP to Hose	1/2	2.87"	1.54"	.40 lb
	3/4	3.15"	1.54"	.45 lb



## QT56X

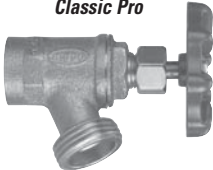

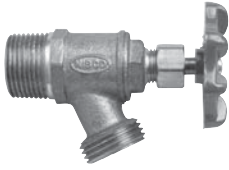
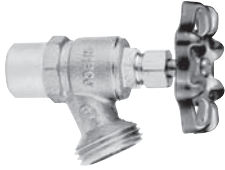
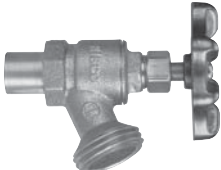

DESCRIPTION	Nom. Size	DIMENSIONS		APPROX. NET WT.
		A	B	
<b>HOSE BIBB</b> Cup or Male to Hose Male Thread to Hose	1/2	3.15"	2.17"	.40 lb
	3/4	3.15"	2.14"	.42 lb

## QT57X

DESCRIPTION	Nom. Size	DIMENSIONS		APPROX. NET WT.
		A	B	
<b>NO-KINK HOSE BIBB</b> 1/2 Cup or 3/4 Ftg. to Hose	1/2 or 3/4	3.11 "	1.54"	.42 lb

# Boiler Drains

## Illustrated Index

<p>Bronze Boiler Drain Screw-in Bonnet 125 lb. CWP <b>Classic Pro</b></p>  <p><b>73-CL</b> Sizes 1/2" - 3/4" FIP to Hose page 31</p>	<p>Bronze Boiler Drain Screw-in Bonnet 125 lb. CWP <b>Classic Pro</b></p>  <p><b>74-CL</b> Sizes 1/2" - 3/4" 1/2 Cup or MIP to Hose 3/4 MIP to Hose page 31</p>	<p>Bronze Boiler Drain Screw-in Bonnet 125 lb. CWP <b>Classic Pro</b></p>  <p><b>74-DC</b> Sizes 1/2" or 3/4" 1/2 FIP or 3/4 Male to Hose page 31</p>
<p>Boiler Drain Screw-in Bonnet</p>  <p><b>72</b> Sizes 1/2" - 3/4" Cup to Hose page 31</p>	<p>Boiler Drain Screw-in Bonnet</p>  <p><b>74-2</b> Sizes 1/2" Fitting to Hose page 31</p>	<p>Bronze Transition/Boiler Drain Screw-in Bonnet</p>  <p><b>4464</b> Size 1/2" Compression to Hose page 31</p>

### MATERIALS LIST

PART	SPECIFICATION
Body	Cast Copper - Based Alloy C84400
Bonnet	Cast Copper - Based Alloy C84400
Stem	Cold-formed Copper Alloy
Seat Disc	Buna-N
Seat Disc Screw	Stainless Steel, Type 410
Packing Nut	Free Cutting Brass - ASTM B 16
Packing	Graphite Impregnated, Asbestos-Free
Handwheel	Epoxy Coated Zinc Alloy
Handwheel Screw	Carbon Steel - Clear Chromate Finish

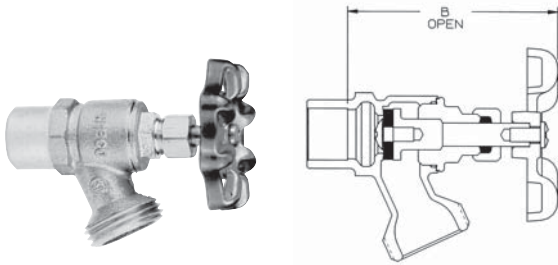


# Boiler Drains

125 lb. CWP to 100°F

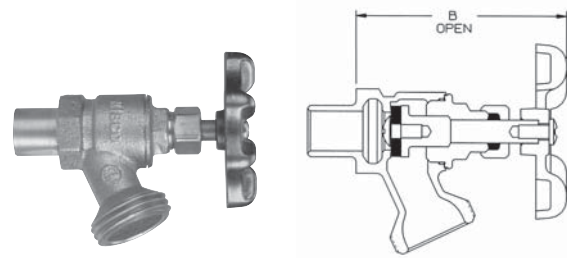
Maximum Temperature 180°F

CSA B125 Approved and IAPMO Listed



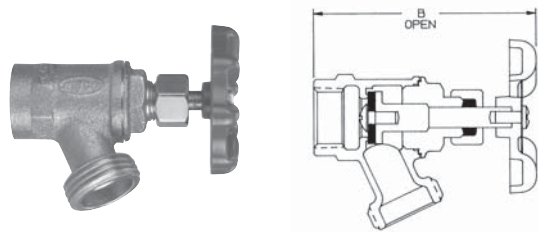
## 72

DESCRIPTION	NOM. SIZE	DIMENSIONS	APPROX. NET WT.
		B	
Boiler Drain Cup to Hose	1/2"	3 <sup>1</sup> / <sub>16</sub> "	.40 lb
	3/4"	2 <sup>13</sup> / <sub>16</sub> "	.40 lb



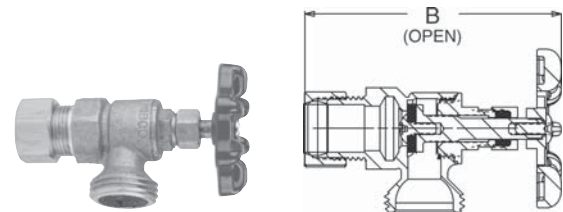
## 74-2†

DESCRIPTION	NOM. SIZE	DIMENSIONS	APPROX. NET WT.
		B	
Boiler Drain Fit to Hose	1/2"	3 <sup>3</sup> / <sub>8</sub> "	.40 lb



## 73-CL

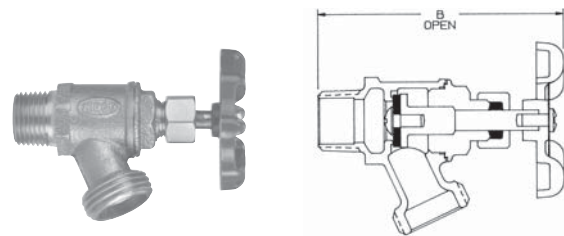
DESCRIPTION	NOM. SIZE	DIMENSIONS	APPROX. NET WT.
		B	
Boiler Drain Threaded to Hose	1/2"	3 <sup>1</sup> / <sub>4</sub> "	.50 lb
	3/4"	3 <sup>5</sup> / <sub>16</sub> "	.60 lb



## 4464†

DESCRIPTION	NOM. SIZE	DIMENSIONS	APPROX. NET WT.
		B	
Boiler Drain Compression to Hose	1/2"	3 <sup>1</sup> / <sub>4</sub> "	.50 lb

† - Not IAPMO Listed



## 74-CL, 74-DC








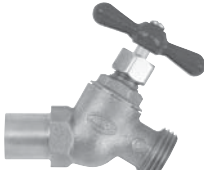

DESCRIPTION	NOM. SIZE	DIMENSIONS	APPROX. NET WT.
		B	
Boiler Drain Copper or Male Threads to Hose	1/2"	3 <sup>11</sup> / <sub>16</sub> "	.4 LB
	3/4"*	3 <sup>3</sup> / <sub>4</sub> "	.45 LB
1/2 FIP or 3/4 MIP to Hose	3/4"	3 <sup>3</sup> / <sub>4</sub> "	.50 lb

\* 3/4" furnished in male threads only



# Hose Bibbs & Garden Valves

## Illustrated Index

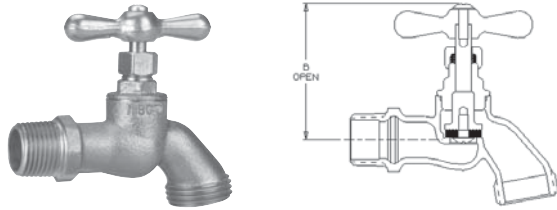
<p>Bronze Hose Bibb Screw-In Bonnet, Heavy Pattern 125 CWP</p>  <p><b>56U</b> Sizes 1/2" - 3/4" Cup or MIP to Hose MIP to Hose page 33</p>	<p>Bronze Hose Bibb Screw-In Bonnet 125 CWP</p>  <p><b>46U</b> Sizes 1/2" - 3/4" Cup or MIP to Hose MIP to Hose page 33</p>	<p>Bronze Hose Bibb with Vacuum Breaker Screw-in Bonnet, Heavy Pattern</p>  <p><b>C56-VB</b> Sizes 1/2" page 33</p>
<p>Brass Quarter-Turn Hose Bibb Brass Valve Design</p>  <p><b>C26</b> Sizes 1/2" - 3/4" Cup or MIP to Hose page 33</p>	<p>Bronze Bent Nose Garden Valve</p>  <p><b>61</b> Sizes 1/2" - 1" x 3/4" FIP to Hose page 33</p>	<p><b>Classic</b> Husky Pattern Bronze No-Kink Hose Bibb 125 lb. CWP</p>  <p><b>54</b> Sizes 1/2" - 3/4" Cup or MIP to Hose MIP to Hose page 34</p>
<p><b>Classic</b> Husky Pattern Bronze No-Kink Hose Bibb 125 lb. CWP</p>  <p><b>55</b> Sizes 1/2" - 3/4" FIP to Hose page 34</p>	<p><b>Classic</b> Husky Pattern Bronze No-Kink Hose Bibb 125 lb. CWP</p>  <p><b>57</b> Sizes 1/2" or 3/4" 1/2 Cup or 3/4 Fitting to Hose page 34</p>	<p><b>Classic</b> Husky Pattern Bronze No-Kink Hose Bibb 125 lb. CWP</p>  <p><b>C4454</b> Sizes 1/2" Compression to Hose page 34</p>

### MATERIALS LIST

PART	SPECIFICATION
Body	Cast Copper - Based Alloy C84400
Bonnet	Cast Copper - Based Alloy C84400
Stem	Cold-formed Copper Alloy
Seat Disc	Buna-N
Seat Disc Screw	Stainless Steel, Type 410
Packing Nut	Free Cutting Brass - ASTM B 16
Packing	Graphite Impregnated, Asbestos-Free
Handwheel	Epoxy Coated Zinc Alloy
Handwheel Screw	Carbon Steel - Clear Chromate Finish

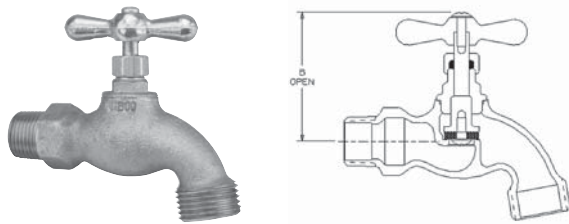
# Hose Bibbs

125 lb. CWP to 100 ° F  
Maximum Temperature 180 ° F



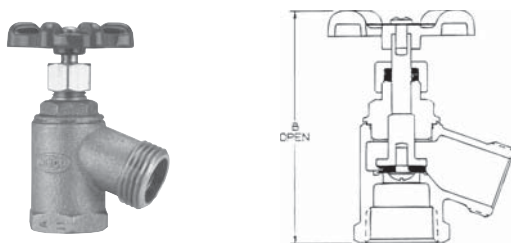
**46-U**

DESCRIPTION	NOM. SIZE	DIMENSIONS	APPROX. NET WT.
		B	
<b>Hose Bibb</b> Cup or MIP to Hose	1/2"	2 <sup>1</sup> / <sub>16</sub> "	.47 lb
MIP Thread to Hose	3/4"	2 <sup>1</sup> / <sub>16</sub> "	.50 lb



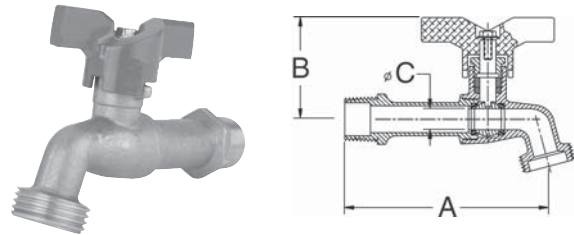
**56-U (Heavy Pattern)**

DESCRIPTION	NOM. SIZE	DIMENSIONS	APPROX. NET WT.
		B	
<b>Hose Bibb</b> Cup or MIP to Hose	1/2"	2 <sup>1</sup> / <sub>2</sub> "	.60 lb
MIP to Hose	3/4"	2 <sup>1</sup> / <sub>2</sub> "	.62 lb



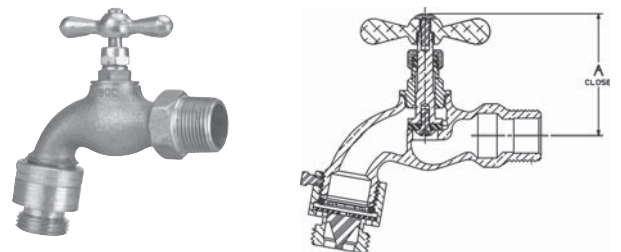
**61**

DESCRIPTION	NOM. SIZE	DIMENSIONS	APPROX. NET WT.
		B	
<b>Bent Nose Hose Bibb</b> FIP to Hose	1/2"	3 <sup>5</sup> / <sub>8</sub> "	.60 lb
	3/4"	3 <sup>3</sup> / <sub>4</sub> "	.70 lb
	1 x 3/4"	3 <sup>3</sup> / <sub>4</sub> "	.90 lb



**C-26**

DESCRIPTION	NOM. SIZE	DIMENSIONS			APPROX. NET WT.
		A	B	C	
<b>Brass Quarter-Turn Hose Bibb</b> Cup or MIP to Hose	1/2"	3 <sup>15</sup> / <sub>16</sub> "	1 <sup>15</sup> / <sub>16</sub> "	2 <sup>5</sup> / <sub>64</sub> "	.47 lb
	3/4"	3 <sup>15</sup> / <sub>16</sub> "	1 <sup>15</sup> / <sub>16</sub> "	2 <sup>5</sup> / <sub>64</sub> "	.52 lb



**C56-VB (Heavy Pattern)**

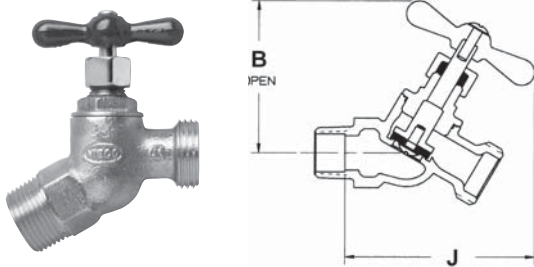
DESCRIPTION	NOM. SIZE	DIMENSIONS	APPROX. NET WT.
		B	
<b>Hose Bibb</b> 3/4 Cup or 3/4 MIP to Hose w/Vacuum Breaker	3/4"	2 <sup>1</sup> / <sub>2</sub> "	.60 lb

# "Husky" No-Kink Hose Bibbs

125 lb. CWP to 100 ° F

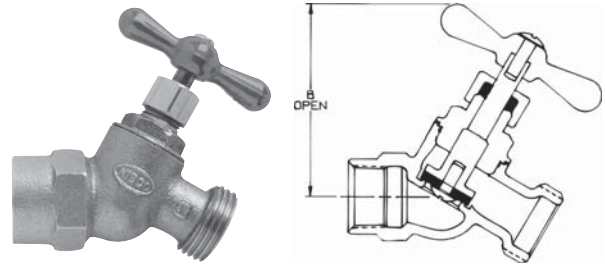
Maximum Temperature 180 ° F

CSA B125 Approved and IAPMO Listed



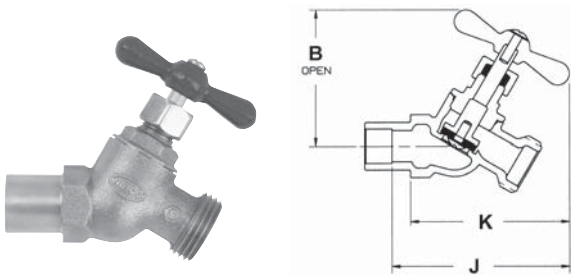
**54**

DESCRIPTION	NOM. SIZE	DIMENSIONS		APPROX. NET WT.
		B	J	
No-Kink Hose Bibb Male or Cup to Hose	1/2"	2 <sup>3</sup> / <sub>4</sub> "	3 <sup>1</sup> / <sub>8</sub> "	.55 lb
	3/4"	2 <sup>3</sup> / <sub>4</sub> "	3 <sup>1</sup> / <sub>8</sub> "	.59 lb



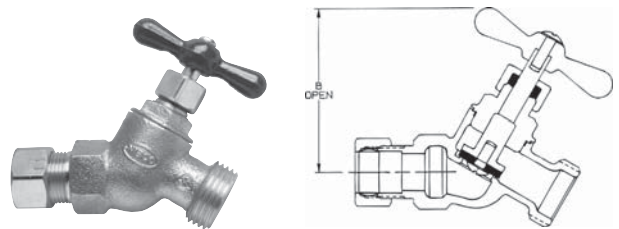
**55**

DESCRIPTION	NOM. SIZE	DIMENSIONS	APPROX. NET WT.
		B	
No-Kink Hose Bibb Female to Hose	1/2"	2 <sup>5</sup> / <sub>8</sub> "	.37 lb
	3/4"	2 <sup>5</sup> / <sub>8</sub> "	.40 lb



**57**





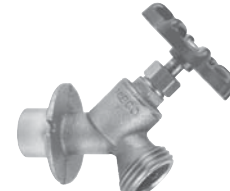
DESCRIPTION	NOM. SIZE	DIMENSIONS			APPROX. NET WT.
		B	J	K	
No-Kink Hose Bibb 1/2 Cup or 3/4 FIT to Hose	1/2"	2 <sup>3</sup> / <sub>4</sub> "	3 <sup>1</sup> / <sub>4</sub> "	2 <sup>15</sup> / <sub>16</sub> "	.62 lb
	3/4"	2 <sup>3</sup> / <sub>4</sub> "	3 <sup>1</sup> / <sub>4</sub> "	2 <sup>15</sup> / <sub>16</sub> "	.62 lb



**C4454**

DESCRIPTION	NOM. SIZE	DIMENSIONS	APPROX. NET WT.
		B	
No-Kink Hose Bibb Compression to Hose	1/2"	2 <sup>3</sup> / <sub>4</sub> "	.57 lb
	3/4"	2 <sup>3</sup> / <sub>4</sub> "	.57 lb

# Angle Sillcocks Illustrated Index

<p>Bronze Angle Sillcock Screw-in Bonnet 125 lb. CWP <b>Classic Pro</b></p>  <p><b>63-CL</b> Sizes 1/2" — 3/4" FIP to Hose page 36</p>	<p>Bronze Angle Sillcock with Lockshield 125 lb. CWP <b>Classic Pro</b></p>  <p><b>63-CL-LS</b> Sizes 1/2" — 3/4" FIP to Hose page 36</p>	<p>Bronze Angle Sillcock Screw-in Bonnet 125 lb. CWP <b>Classic Pro</b></p>  <p><b>763-CL</b> Sizes 1/2" — 3/4" Cup to Hose page 36</p>
<p>Bronze Angle Sillcock with Lockshield 125 lb. CWP <b>Classic Pro</b></p>  <p><b>763-CL-LS</b> Sizes 1/2" - 3/4" Cup to Hose page 36</p>	<p>Angle Sillcock Screw-in Bonnet</p>  <p><b>C763-I</b> Sizes 1/2" or 3/4" 1/2 Cup or 3/4 fitting to Hose page 36</p>	

## MATERIALS LIST

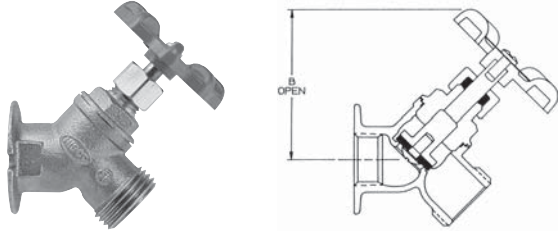
PART	SPECIFICATION
Body	Cast Copper - Based Alloy C84400
Bonnet	Cast Copper - Based Alloy C84400
Stem	Cold-formed Copper Alloy
Seat Disc	Buna-N
Seat Disc Screw	Stainless Steel, Type 410
Packing Nut	Free Cutting Brass - ASTM B 16
Packing	Graphite Impregnated, Asbestos-Free
Handwheel	Epoxy Coated Zinc Alloy
Handwheel Screw	Carbon Steel - Clear Chromate Finish

# Angle Sillcock Valves

125 lb. CWP to 100 ° F

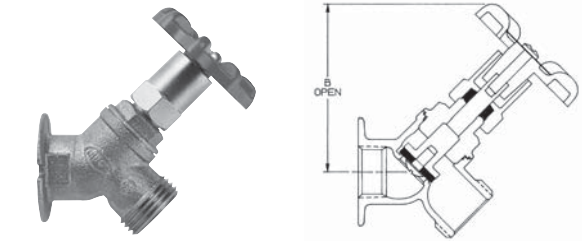
Maximum Temperature 180 ° F

CSA B125 Approved and IAPMO Listed



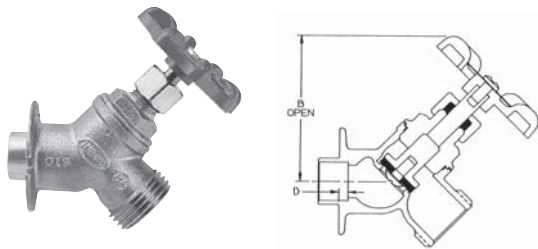
## 63-CL

DESCRIPTION	NOM. SIZE	DIMENSIONS		APPROX. NET WT.
		B		
Angle Sillcock FIP to Hose	1/2"	2 1/2"		.50 lb
	3/4"	2 1/2"		.53 lb



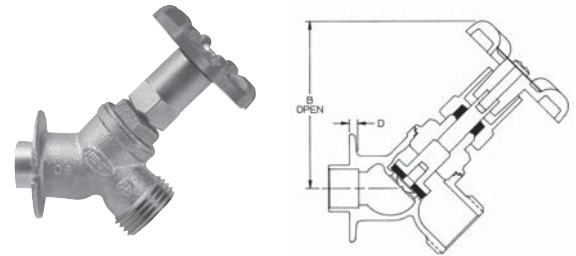
## 63-CL-LS

DESCRIPTION	NOM. SIZE	DIMENSIONS		APPROX. NET WT.
		B		
Angle Sillcock FIP to Hose with Lockshield	1/2"	2 13/16"		.60 LB
	3/4"	2 13/16"		.64 LB



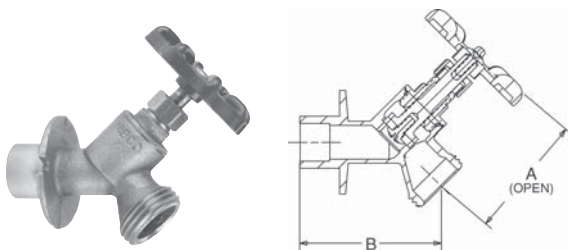
## 763-CL

DESCRIPTION	NOM. SIZE	DIMENSIONS		APPROX. NET WT.
		B	D	
Angle Sillcock Cup to Hose	1/2"	2 13/16"	5/32"	.53 lb
	3/4"	2 13/16"	9/32"	.57 lb



## 763-CL-LS

DESCRIPTION	NOM. SIZE	DIMENSIONS		APPROX. NET WT.
		B	D	
Angle Sillcock Cup to Hose with Lockshield	1/2"	2 13/16"	5/32"	.63 lb
	3/4"	2 13/16"	9/32"	.67 lb



## C763-1±





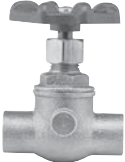


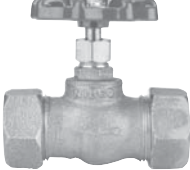




DESCRIPTION	NOM. SIZE	DIMENSIONS		APPROX. NET WT.
		A	B	
Angle Sillcock 1/2" or 3/4" Fitting to Cup	1/2" or 3/4"	2 7/16"	2 1/4"	.4 lb

± - Not CSA approved or IAPMO listed



# Stop & Stop Waste Valves

## Illustrated Index

<p>Bronze Boiler Drain Screw-in Bonnet 125 lb. CWP Classic</p>  <p><b>75-CL</b> Sizes 1/4" - 3/4" FIP x FIP page 38</p>	<p>Bronze Stop Valve Screw in Bonnet 125 lb. CWP <b>Classic Pro</b></p>  <p><b>725-CL</b> Sizes 1/4" - 3/4" Cup x Cup page 38</p>	<p>Bronze Stop &amp; Waste Valve with Drain Screw-in Bonnet <b>Classic Pro</b></p>  <p><b>76-CL</b> Sizes 1/2" - 3/4" FIP x FIP page 38</p>
<p>Bronze Stop &amp; Waste Valve with Drain Screw-in Bonnet <b>Classic Pro</b></p>  <p><b>726-CL</b> Sizes 1/2" - 3/4" Cup x Cup page 38</p>	<p>Bronze Stop Valve with Left Hand Drain Screw-in Bonnet 125 lb. CWP <b>Classic Pro</b></p>  <p><b>726-LCL</b> Sizes 1/2" - 3/4" Cup x Cup page 38</p>	<p>Bronze Stop Valve with Cross Handle Screw-in Bonnet 125 lb. CWP <b>Classic Pro</b></p>  <p><b>75-CLK</b> Sizes 1/2" - 3/4" FIP x FIP page 38</p>
<p>Bronze Stop Valve with Tee Handle Screw-in Bonnet 125 lb. CWP <b>Classic Pro</b></p>  <p><b>75CLT</b> Size 1/2" Female Thread page 39</p>	<p>Bronze Stop &amp; Waste Valve with Drain Screw-in Bonnet</p>  <p><b>4476</b> Sizes 1/2" - 3/4" Compression x Compression page 39</p>	<p>Bronze Stop &amp; Waste Valve Screw-in Bonnet 125 lb. CWP</p>  <p><b>4776</b> Size 1/2" CPVC x CPVC page 39</p>
<p>Angle Stop Valve 125 lb. CWP</p>  <p><b>77</b> Sizes 1/2" - 3/4" Female page 39</p>	<p>Angle Stop Valve 125 lb. CWP</p>  <p><b>777</b> Sizes 1/2" - 3/4" Cup page 39</p>	<p>Angle Stop Valve 125 lb. CWP</p>  <p><b>777-17</b> Size 3/4" Cup to Female page 39</p>

# Stop & Waste Valves

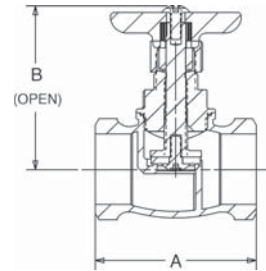
125 lb. CWP to 100 ° F

Maximum Temperature 180 ° F

CSA B125 Approved and IAPMO Listed

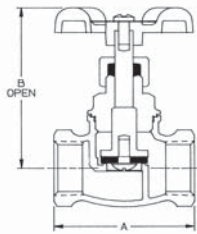
## MATERIALS LIST

PART	SPECIFICATION
Body	Cast Copper - Based Alloy C84400
Bonnet	Cast Copper - Based Alloy C84400
Stem	Cold-formed Copper Alloy
Seat Disc	Buna-N
Seat Disc Screw	Stainless Steel, Type 410
Packing Nut	Free Cutting Brass - ASTM B 16
Packing	Graphite Impregnated, Asbestos-Free
Handwheel	Epoxy Coated Zinc Alloy
Handwheel Screw	Carbon Steel - Clear Chromate Finish



### 75-CLK

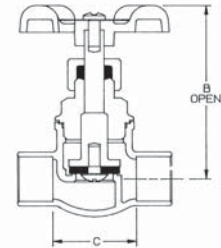
DESCRIPTION	NOM. SIZE	DIMENSIONS		APPROX. NET WT.
		A	B	
Stop & Waste Valve FIP x FIP	1/2"	2 <sup>3</sup> / <sub>16</sub> "	2 <sup>9</sup> / <sub>16</sub> "	.50 lb
	3/4"	2 <sup>5</sup> / <sub>16</sub> "	2 <sup>9</sup> / <sub>16</sub> "	.60 lb



### 75-CL

DESCRIPTION	*NOM. SIZE	DIMENSIONS		APPROX. NET WT.
		A	B	
Stop Valve FIP x FIP	1/2"	2 <sup>3</sup> / <sub>16</sub> "	2 <sup>9</sup> / <sub>16</sub> "	.50 lb
	3/4"	2 <sup>5</sup> / <sub>16</sub> "	2 <sup>9</sup> / <sub>16</sub> "	.60 lb

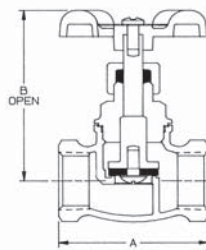
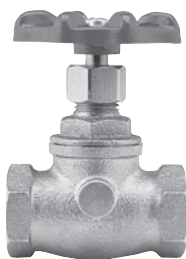
\*1/4" and 3/8" sizes available, specify figure 75 when ordering



### 725-CL

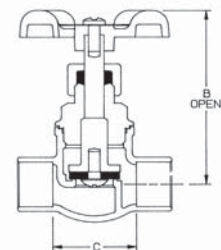
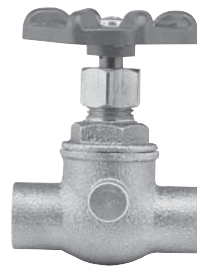
DESCRIPTION	NOM. SIZE	DIMENSIONS		APPROX. NET WT.
		B	C	
Stop Valve Cup x Cup	1/2"	2 <sup>9</sup> / <sub>16</sub> "	1 <sup>3</sup> / <sub>16</sub> "	.40 lb
	3/4" ‡	2 <sup>9</sup> / <sub>16</sub> "	1 <sup>3</sup> / <sub>16</sub> "	.50 lb

\*1/4" and 3/8" sizes available, specify figure 725 when ordering



### 76-CL

DESCRIPTION	NOM. SIZE	DIMENSIONS		APPROX. NET WT.
		A	B	
Stop & Waste Valve FIP x FIP	1/2"	2 <sup>3</sup> / <sub>16</sub> "	2 <sup>9</sup> / <sub>16</sub> "	.54 lb
	3/4"	2 <sup>5</sup> / <sub>16</sub> "	2 <sup>9</sup> / <sub>16</sub> "	.60 lb



### 726-CL, 726-LCL

DESCRIPTION	*NOM. SIZE	DIMENSIONS		APPROX. NET WT.
		B	C	
Stop & Waste Valve Cup x Cup	1/2"	2 <sup>9</sup> / <sub>16</sub> "	1 <sup>3</sup> / <sub>16</sub> "	.42 lb
	3/4" ‡	2 <sup>9</sup> / <sub>16</sub> "	1 <sup>3</sup> / <sub>16</sub> "	.49 lb

\*3/8" and 1" sizes available, specify figure 726 when ordering



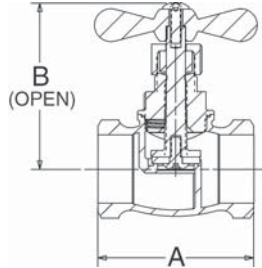


# Stop & Waste Valves

125 lb. CWP to 100 ° F

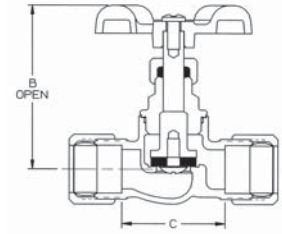
Maximum Temperature 180 ° F

CSA B125 Approved and IAPMO Listed



## 75-CLT

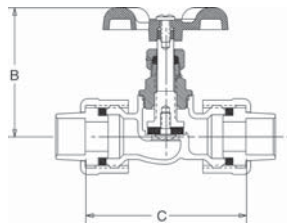
DESCRIPTION	*NOM. SIZE	DIMENSIONS		APPROX. NET WT.
		A	B	
Stop & Waste Valve Female Thread	1/2"	2 <sup>3</sup> / <sub>16</sub> "	2 <sup>9</sup> / <sub>16</sub> "	.50 lb



## 4476±

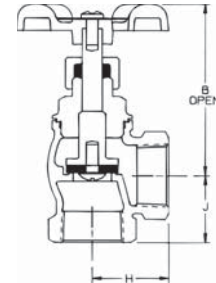
DESCRIPTION	NOM. SIZE	DIMENSIONS		APPROX. NET WT.
		B	C	
Stop & Waste Valve Comp. x Comp.	1/2"	2 <sup>9</sup> / <sub>16</sub> "	1 <sup>5</sup> / <sub>8</sub> "	.60 lb
	3/4"	2 <sup>9</sup> / <sub>16</sub> "	1 <sup>11</sup> / <sub>16</sub> "	.80 lb

± - Not CSA or IAPMO Listed



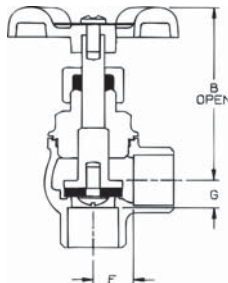
## 4776±

DESCRIPTION	NOM. SIZE	DIMENSIONS		APPROX. NET WT.
		B	C	
Stop & Waste Valve CPVC x CPVC	1/2"	2 <sup>9</sup> / <sub>16</sub> "	3"	.62 lb
	3/4"	2 <sup>9</sup> / <sub>16</sub> "	3 <sup>1</sup> / <sub>16</sub> "	.74 lb



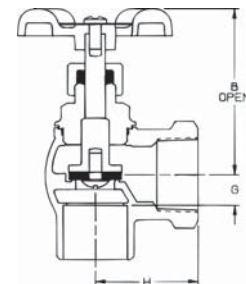
## 77

DESCRIPTION	NOM. SIZE	DIMENSIONS			APPROX. NET WT.
		B	H	J	
Angle Stop Valve Female	1/2"	2 <sup>9</sup> / <sub>16</sub> "	1 <sup>1</sup> / <sub>16</sub> "	1 <sup>5</sup> / <sub>16</sub> "	.50 lb
	3/4"	2 <sup>11</sup> / <sub>16</sub> "	1 <sup>3</sup> / <sub>16</sub> "	1"	.60 lb



## 777






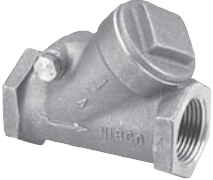
DESCRIPTION	NOM. SIZE	DIMENSIONS			APPROX. NET WT.
		B	F	G	
Stop & Waste Valve CPVC x CPVC	1/2"	2 <sup>7</sup> / <sub>16</sub> "	1/2"	3/8"	.40 lb
	3/4"	2 <sup>9</sup> / <sub>16</sub> "	5/8"	7/16"	.50 lb



## 777-17

DESCRIPTION	NOM. SIZE	DIMENSIONS			APPROX. NET WT.
		B	G	H	
Angle Stop Valve Cup to Female	3/4"	2 <sup>7</sup> / <sub>16</sub> "	7/16"	1 <sup>7</sup> / <sub>16</sub> "	.60 lb

# Bronze and Brass Gate & Check Valves - Index Page

<p>Brass Gate Valve Screw-in Bonnet • Reduced Port 200 lb. CWP</p>  <p><b>S or TI-7</b> Non-Rising Stem • Solid Wedge Sizes 1/2" - 4" Threaded or Solder Ends page 41</p>	<p>Brass Gate Valve Screw-in Bonnet • Full Port 200 lb. CWP</p>  <p><b>S or TI-8</b> Non-Rising Stem • Solid Wedge Sizes 1/4" - 4" Threaded or Solder Ends page 42</p>	<p>Bronze Gate Valve Screw-in Bonnet • Full Port 200 lb. CWP</p>  <p><b>S or T29</b> Non-Rising Stem • Solid Wedge Sizes 1/2" - 2" Threaded or Solder Ends page 43</p>
<p>Brass Check Valve Swing Type 200 lb. CWP</p>  <p><b>S or TI-3</b> Sizes 1/2" - 3" Threaded or Solder Ends page 44</p>	<p>Bronze Check Valve Inline Lift Type 200 lb. CWP</p>  <p><b>S or T480</b> Sizes 3/8" - 2" Threaded or Solder Ends page 45</p>	<p>Bronze Check Valve Horizontal Swing Type 125 lb. SWP/200 lb. CWP</p>  <p><b>S or T413</b> Sizes 1/2" - 3" Threaded or Solder Ends page 46</p>

# Brass Gate Valves

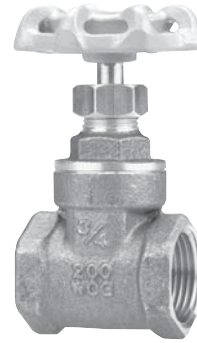
Brass Body • Non-Rising Stem • Reduced Port

**200 PSI/14 Bar Non-Shock Cold Working Pressure**  
**NSF/ANSI 61-8 Compliant**

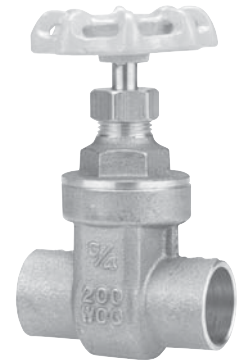
## MATERIAL LIST

PART	SPECIFICATION
1. Nut	Steel Plated ASTM A 108 Alloy G10100
2. Name Plate	Aluminum ASTM B 209 Alloy 1100
3. Handwheel	Cast Iron ASTM A 48 Class No. 35
4. Stem	Brass ASTM B 16 Alloy C36000
5. Packing Nut	Brass ASTM B 16 Alloy C36000 or B 584 Alloy C85700
*6. Gland	Brass ASTM B 16 Alloy C36000
7. Packing	Graphite/Rubber - Non-Asbestos
8. Bonnet	Brass ASTM B 584 Alloy C85700
9. Lock Nut	Brass ASTM B 16 Alloy C36000
10. Wedge	Brass ASTM B 584 Alloy C85700
11. Body	Brass ASTM B 584 Alloy C85700

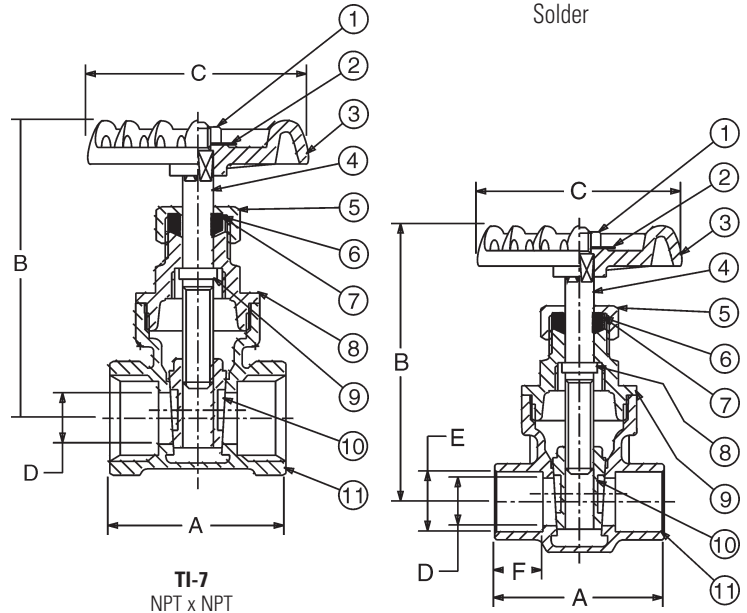
\*Packing gland only for valves 1½" and larger.



**TI-7**  
Threaded



**SI-7**  
Solder



**TI-7**  
NPT x NPT

**SI-7**  
Cup x Cup

## DIMENSIONS—WEIGHTS

Size	Dimensions																		WEIGHT						
	TI-7		SI-7		TI-7		SI-7		TI-7		SI-7		TI-7		SI-7		SI-7		TI-7		SI-7				
	A	A	B	B	C	C	D	D	E	F															
In. mm.	In. mm.	In. mm.	In. mm.	In. mm.	In. mm.	In. mm.	In. mm.	In. mm.	In. mm.	In. mm.	In. mm.	In. mm.	In. mm.	In. mm.	In. mm.	In. mm.	In. mm.	Lbs. Kg.	Lbs. Kg.	Lbs. Kg.	Lbs. Kg.				
½	15	1.54	39	1.61	41	2.72	69	2.72	69	2.13	54	2.13	54	0.47	12	0.47	12	0.63	16	0.50	13	0.46	0.21	0.46	0.21
¾	20	1.71	44	2.11	54	2.83	72	2.83	72	2.13	54	2.13	54	0.57	14	0.57	15	0.88	22	0.75	19	0.59	0.27	0.59	0.27
1	25	1.85	47	2.48	63	3.31	84	3.31	84	2.13	54	2.13	54	0.75	19	0.75	19	1.13	29	0.91	23	0.83	0.38	0.83	0.38
1¼	32	2.09	53	2.64	67	3.86	98	3.86	98	2.40	61	2.40	61	0.94	24	0.94	24	1.38	35	0.97	25	1.18	0.54	1.18	0.54
1½	40	2.24	57	2.95	75	4.57	116	4.57	116	3.03	77	3.03	77	1.25	32	1.25	32	1.63	41	1.09	28	1.65	0.75	1.65	0.75
2	50	2.40	61	3.50	89	4.92	125	4.92	125	3.03	77	3.03	77	1.48	38	1.48	38	2.13	54	1.34	34	2.62	1.19	2.62	1.19
2½	65	2.80	71	3.90	99	6.02	153	6.02	153	3.27	83	3.27	83	1.94	49	1.94	49	2.63	67	1.47	37	3.86	1.75	3.86	1.75
3	80	3.43	87	4.61	117	7.32	186	7.32	186	4.13	105	4.13	105	2.48	63	2.48	63	3.13	80	1.66	42	5.88	2.67	5.88	2.67
4	100	3.96	101	—	—	8.74	222	—	—	5.12	130	—	—	2.95	75	—	—	—	—	—	—	8.82	4.01	—	—

# Brass Gate Valve

Brass Body • Non-Rising Stem • Full Port

**200 PSI/14 Bar Non-Shock Cold Working Pressure**  
**NSF/ANSI 61-8 Compliant**

## MATERIAL LIST

PART	SPECIFICATION
1. Nut	Steel plated ASTM A 108 Alloy G10100
2. Name Plate	Aluminum ASTM B 209 Alloy 1100
3. Handwheel	Cast Iron ASTM A 48 Class No. 35
4. Stem	Brass ASTM B 16 Alloy C36000
5. Packing Nut	Brass ASTM B 16 Alloy C36000 or B 584 Alloy C85700
*6. Gland	Brass ASTM B 16 Alloy C36000
7. Packing	Graphite/Rubber Non-Asbestos
8. Bonnet	Brass ASTM B 584 Alloy C85700
9. Lock Nut	Brass ASTM B 16 Alloy C 36000
10. Wedge	Brass ASTM B 584 Alloy C85700
11. Body	Brass ASTM B 584 Alloy C85700

\*Packing gland only for valves 1½" and larger.

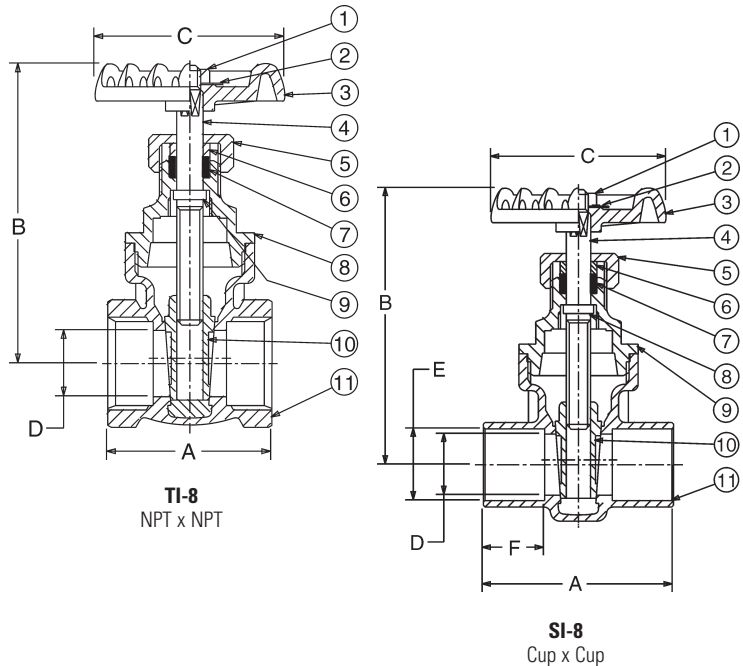
† Available with Drain in sizes 1/2" and 3/4" for TI-8. Specify TI-8D on order.



**TI-8**  
Threaded



**SI-8**  
Solder



## DIMENSIONS—WEIGHTS

Size	Dimensions																WEIGHT								
	TI-8		SI-8		TI-8		SI-8		TI-8		SI-8		TI-8		SI-8		TI-8		SI-8						
	A	A	B	B	C	C	D	D	E	F	TI-8	SI-8	Lbs.	Kg.	Lbs.	Kg.									
¼	8	1.61	41	—	—	2.76	70	—	—	2.13	54	—	—	0.39	10	—	—	—	—	0.55	0.25	—	—		
⅜	10	1.61	41	1.57	40	2.76	70	2.76	70	2.13	54	2.13	54	0.39	10	0.39	10	.50	13	0.38	10	0.55	0.25	0.55	0.25
½	15	1.69	43	1.77	45	2.83	72	2.83	72	2.13	54	2.13	54	0.50	12	0.50	13	.63	16	0.50	13	0.59	0.27	0.59	0.27
¾	20	1.85	47	2.32	59	3.31	84	3.31	84	2.13	54	2.13	54	0.75	19	0.75	19	.88	22	0.75	19	0.77	0.35	0.77	.035
1	25	2.13	54	2.76	70	3.86	98	3.86	98	2.40	61	2.40	61	0.94	24	0.94	24	1.13	29	0.91	23	1.06	0.48	1.06	0.48
1¼	32	2.40	61	2.87	73	4.57	116	4.57	116	3.03	77	3.03	77	1.25	32	1.25	32	1.38	35	0.97	25	1.54	0.70	1.54	0.70
1½	40	2.44	62	3.19	81	4.92	125	4.92	125	3.03	77	3.03	77	1.48	38	1.48	38	1.63	41	1.09	28	2.11	0.96	2.11	0.96
2	50	2.83	72	3.90	99	6.02	153	6.02	153	3.27	83	3.27	83	1.94	49	1.94	49	2.13	54	1.34	34	3.17	1.44	3.17	1.44
*2½	65	3.50	89	4.61	117	7.32	186	7.32	186	4.13	105	4.13	105	2.48	63	2.48	63	2.63	67	1.47	37	3.79	2.63	5.79	2.63
*3	80	3.98	101	5.20	132	8.70	221	8.70	221	4.41	112	4.41	112	2.95	75	2.95	75	3.13	80	1.66	42	8.10	3.68	8.10	3.68
*4	100	4.57	116	—	—	10.16	258	—	—	6.67	172	—	—	3.62	92	—	—	—	—	—	—	20.94	9.52	—	—

\*Conventional Port only

# 200 PSI CWP Bronze Gate Valves

Bronze Body • Screw-in Bonnet • Non-Rising Stem • Solid Wedge • Compact Design • Full Port

**200 PSI/14 Bar Non-Shock Cold Working Pressure**



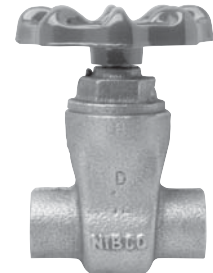
## MATERIAL LIST

PART	SPECIFICATION
1. Handwheel Screw	Stainless Steel, Type 430
2. Handwheel	Aluminum
3. Stem	Bronze ASTM B 99 Alloy C65100 H04
4. Stem O-Ring	EPDM
5. Bonnet	Cast Brass ASTM B 584 Alloy C84400
6. Wedge	Cast Brass ASTM B 584 Alloy C84400
7. Body	Cast Brass ASTM B 584 Alloy C84400

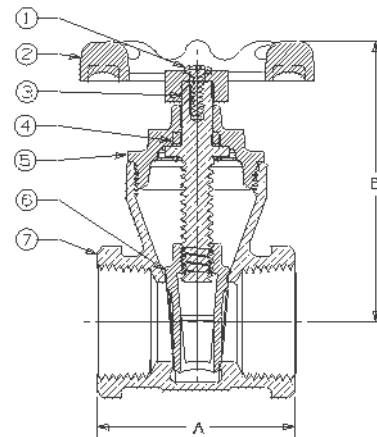
\*Ball Material of 1/4", 3/8" 1/2" and 3/4" Brass, ASTM B-16 Alloy 360, with hard chrome plate



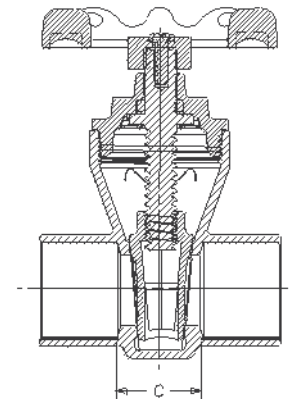
**T-29**  
Threaded



**S-29**  
Solder



**T-29**  
NPT x NPT



**S-29**  
Cup x Cup

Size	Dimensions						Weight				
	A		B		C		T-29		S-29		
In. mm.	In.	mm.	In.	mm.	In.	mm.	Lbs.	Kg.	Lbs.	Kg.	
1/2	15	1.81	46	2.52	64	0.81	21	.48	.22	.42	.19
3/4	20	2.00	51	2.83	72	0.88	22	.75	.34	.65	.30
1	25	2.31	59	3.27	83	1.06	25	1.22	.55	1.11	.50
1 1/4	32	2.63	69	3.64	92	1.13	29	1.62	.74	1.38	.63
1 1/2	40	2.75	70	4.16	106	1.19	29	2.12	.96	1.98	.90
2	50	2.88	73	4.88	124	1.31	33	3.29	1.49	3.23	1.47

# Brass Check Valves

Brass Body • Swing Type Check

**200 PSI/14 Bar Non-Shock Cold Working Pressure  
NSF/ANSI 61-8 Compliant**

## MATERIAL LIST

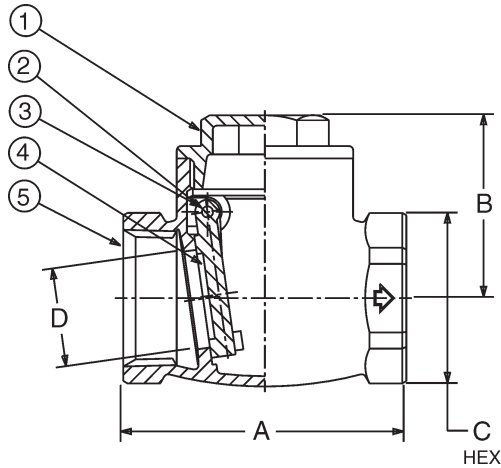
PART	SPECIFICATION
1. Bonnet	Bronze ASTM B 584 Alloy C85700
2. Plug	Bronze ASTM B 16 Alloy C36000
3. Pin	Brass ASTM B 16 Alloy C37700
4. Disc	Brass ASTM B 124 Alloy C37700
5. Body	Brass ASTM B 584 Alloy C85700 or Alloy C83600



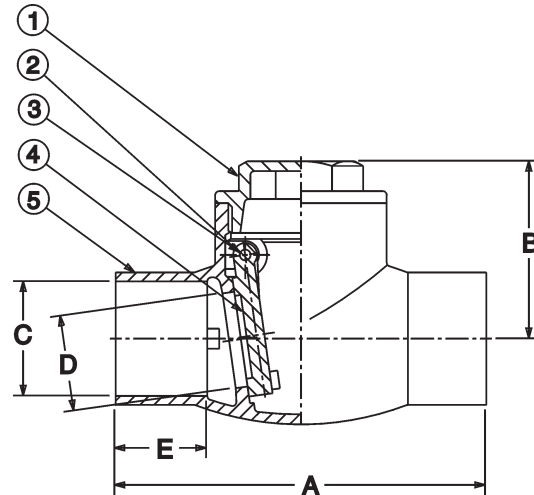
**TI-3**  
Threaded



**SI-3**  
Solder



**TI-3**  
NPT to NPT



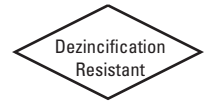
**SI-3**  
Cup x Cup

## DIMENSIONS—WEIGHTS

Size		Dimensions															WEIGHT						
		TI-3 A		SI-3 A		TI-3 B		SI-3 B		TI-3 C		SI-3 C		TI-3 D		SI-3 D		SI-3 E		TI-3		SI-3	
In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	Lbs.	Kg.	Lbs.	Kg.
½	15	2.05	52	2.13	54	1.50	38	1.50	38	1.00	25	0.63	16	0.52	13	0.52	13	0.50	13	0.46	0.21	0.46	0.21
¾	20	2.32	59	2.99	76	1.57	40	1.57	40	1.22	31	0.88	22	0.70	18	0.70	18	0.75	19	0.66	0.30	0.66	0.30
1	25	2.72	69	3.66	93	1.77	45	1.77	45	1.50	38	1.13	29	0.94	24	0.94	24	0.91	23	0.92	0.42	0.92	0.42
1¼	32	3.11	79	4.09	104	2.01	51	2.01	51	1.85	47	1.38	35	1.24	32	1.24	32	0.97	25	1.60	0.73	1.60	0.73
1½	40	3.50	89	4.57	116	2.17	55	2.17	55	2.11	54	1.63	41	1.42	36	1.42	36	1.09	28	1.79	0.81	1.79	0.81
2	50	4.29	109	5.51	140	2.64	67	2.64	67	2.60	66	2.13	54	1.81	46	1.81	46	1.34	34	2.87	1.30	2.87	1.30
2½	65	5.31	135	—	—	3.31	84	—	—	3.23	82	—	—	2.26	57	—	—	—	—	5.29	2.40	—	—
3	80	6.30	160	—	—	3.78	96	—	—	3.78	96	—	—	2.70	69	—	—	—	—	8.82	4.01	—	—
4	100	7.38	190	—	—	4.45	113	—	—	4.80	122	—	—	3.78	96	—	—	—	—	13.23	6.01	—	—

# Bronze Ring Check® Valve

Inline Lift Type • Resilient Discs • Spring Actuated



**200 PSI/14 Bar Non-Shock Cold Working Pressure**

## MATERIAL LIST

PART	SPECIFICATION
1. Body	Bronze ASTM B 584 Alloy C84400
2. Stem	Stainless Steel ASTM A 582 Alloy C30300
3. Spring	316 Stainless Steel
4. Disc Holder	Stainless Steel Type 301
5. Disc	Buna-N
6. Seat Screw	Stainless Steel ASTM A 276 Alloy S43000
7. Body End	Bronze ASTM B 584 Alloy C84400



**T-480**

Threaded



**S-480**

Solder

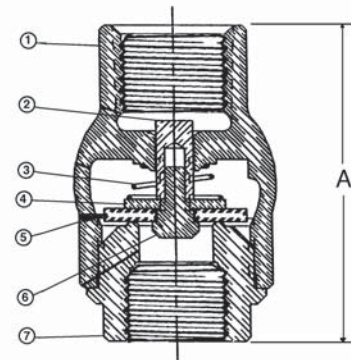
## DIMENSIONS—WEIGHTS—QUANTITIES

Size	Dimensions						T-480		S-480		
	ln.	mm.	ln.	mm.	ln.	mm.	ln.	mm.	Lbs.	Kg.	
3/8	10	2.00	51	1.38	35	1.44	37	0.41	10	0.44	0.20
1/2	15	2.06	52	1.38	35	1.19	30	0.36	9	0.40	0.18
3/4	20	2.25	57	1.63	41	1.31	33	0.48	12	0.52	0.24
1	25	2.63	67	2.00	51	1.50	38	0.77	29	0.85	0.39
1 1/4	32	2.94	75	2.38	60	1.69	43	1.14	25	1.28	0.58
1 1/2	40	3.31	84	2.75	70	2.00	51	1.63	41	1.75	0.79
2	50	3.69	94	3.38	86	2.31	59	2.27	58	2.70	1.23

Ordering: The T-480 and S-480 both have standard Buna-N Discs.

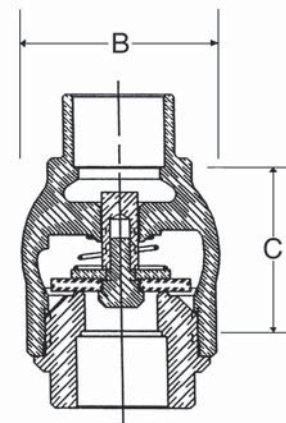
Also available with PTFE (Y) Discs; specify T-480-Y or S-480-Y.

Note: 3/8" thru 2" require 1/2 pound pressure to open.



**T-480**

NPT x NPT



**S-480**

Cup x Cup

# Bronze Check Valves

Horizontal Swing • Regrinding Type • Y-Pattern • Renewable Seat and Disc

**125 PSI/9 Bar Saturated Steam to 353° F/178° C**  
**200 PSI/14 Bar Non-Shock Cold Working Pressure**

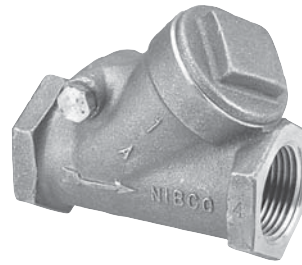


CONFORMS TO MSS SP-80

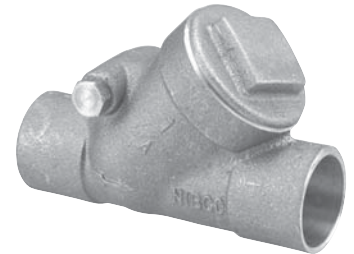
## MATERIAL LIST

PART	SPECIFICATION
1. Bonnet	Bronze ASTM B 62
2. Body	Bronze ASTM B 62
3. Hinge Pin	Bronze ASTM B 140 Alloy C31400 or B 134 Alloy C23000
4. Disc Hanger	Bronze ASTM B 62 or 304 Stainless Steel ¼" thru ¾"
5. Hanger Nut	Bronze ASTM B 16
6. Disc Holder	Bronze ASTM B 62
7. Seat Disc	Water, Oil or Gas (Buna-N) (W) Steam (PTFE) (Y) Bronze ASTM B 62 (B) FKM (V)
8. Seat Disc Nut	Bronze ASTM B 16 or B 62
9. Hinge Pin Plug	Bronze ASTM B 140 Alloy C32000 (Not shown)
*10. Seat Disc Washer	ASTM B 98 Alloy C65500 or ASTM B 103

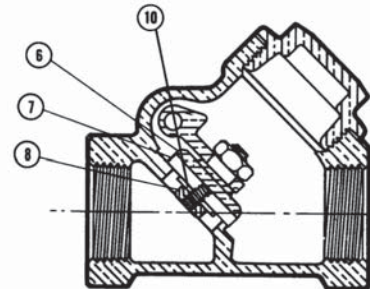
\*Sizes ¾", 1", 1¼", 1½" and 2" only



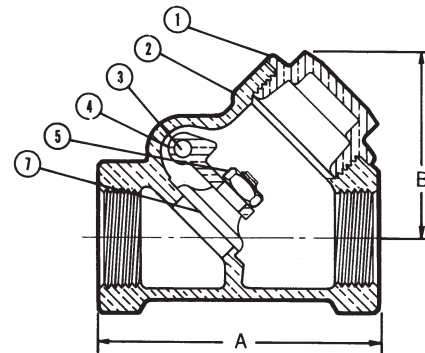
**T-413**  
Threaded



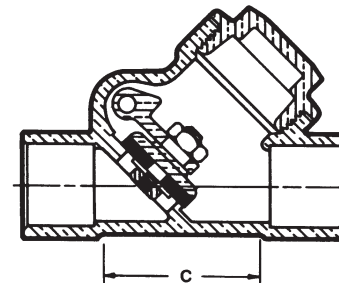
**S-413**  
Solder



**T-413-B**  
NPT x NPT



**T-413-Y**  
NPT x NPT



**S-413-W**  
Cup x Cup

Size	Dimensions						T-113		S-113		
	A		B		C		Lbs.	Kg.	Lbs.	Kg.	
In. mm.	In.	mm.	In.	mm.	In.	mm.					
1/4	8	2.13	54	1.63	41	1.38	35	0.50	0.23	0.51	0.23
3/8	10	2.13	54	1.63	41	1.31	33	0.47	0.22	0.48	0.22
1/2	15	2.44	62	1.69	43	1.50	38	0.55	0.25	0.55	0.25
3/4	20	2.94	75	1.88	48	1.88	58	0.90	0.41	0.88	0.40
1	25	3.56	90	2.31	59	2.25	57	1.46	0.66	1.48	0.67
1¼	32	4.19	106	2.69	68	2.75	70	2.17	0.99	2.22	1.01
1½	40	4.50	114	2.94	75	3.13	79	2.95	1.34	3.00	1.36
2	50	5.25	133	3.94	100	3.75	95	4.79	2.17	4.87	2.21
*2½	65	8.00	203	5.06	129	5.06	129	11.48	5.21	10.48	4.76
*3	80	9.25	235	6.25	159	6.25	159	17.53	7.96	15.29	6.94

Ordering: T-413 and S-413 normally furnished with Bronze Disc (T-413-B) or (S-413-B)  
Both available with PTFE Steam Disc (T-413-Y), (S-413-Y) or CSP Disc (T-413-W), (S-413-W)  
or 300°F 67 PSI steam FKM Disc (T-413-V).













\* Class 150 (433) furnished for these sizes.

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°).

Warning – Do Not Use For Reciprocating Air Compressor Service.

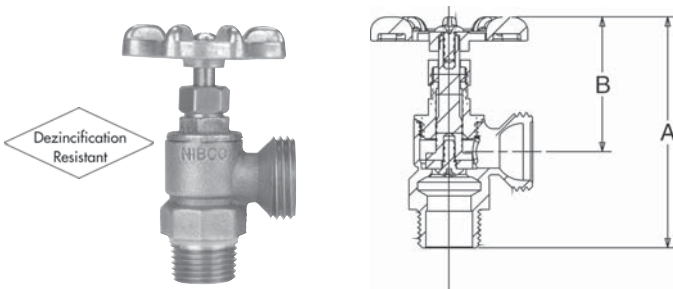


# Specialty Valves - Index Page

<p>Bronze Washer Box Valve Short, Medium or Long Shank Design</p>  <p><b>64/64C/64FC</b> Sizes 1/2" Cup or Male to Hose page 48</p>	<p>Bronze Washer Box Valve 2 Pc Long Shank Design</p>  <p><b>64L/64LA</b> Sizes 1/2" Cup or Male to Hose page 48</p>	<p>Chrome Plated Brass Washing Machine Valve In-Line Bypass</p>  <p><b>C64B</b> Sizes 1/2" Male x Female x Hose page 48</p>
<p>Chrome Plated Brass Washer Box Valve</p>  <p><b>C64C</b> Sizes 1/2" Compression x Hose page 48</p>	<p>Chrome Plated Brass Washing Machine Valve Front Operated</p>  <p><b>C64F</b> Sizes 1/2" Female x Hose page 49</p>	<p>Chrome Plated Washing Machine Valve In-Line Bypass Reversible</p>  <p><b>C64R</b> Sizes 1/2" Male x Female to Hose page 49</p>
<p>Chrome Plated Washing Machine Valve Top Operated</p>  <p><b>C64T</b> Sizes 1/2" Male to Hose page 49</p>	<p>Bronze Oil Tank Valve Screw In Bonnet</p>  <p><b>81/82</b> Sizes 1/2" x 3/8" MIP x MIP MIP x SAE Flare page 49</p>	<p>Bronze Water Heater Valve No-Kink</p>  <p><b>44LD</b> Sizes 3/4" Male Thread to Hose page 50</p>
<p>Bronze Ground Key Stop &amp; Drain Valve with Tee Handle</p>  <p><b>724</b> Sizes 1/2" - 1" Female Threaded Ends page 49</p>	<p>Bronze Water Meter Angle Stop Valve</p>  <p><b>577-17</b> Sizes: 3/4" x 1/2", 3/4" x 3/4", 1" x 3/4" Flare x FIP page 50</p>	<p>Bronze Water Meter Angle Stop &amp; Waste Valve with Drain Port</p>  <p><b>578-17</b> Sizes: 3/4" x 1/2", 3/4" x 3/4", 1" x 3/4" Flare x FIP page 50</p>

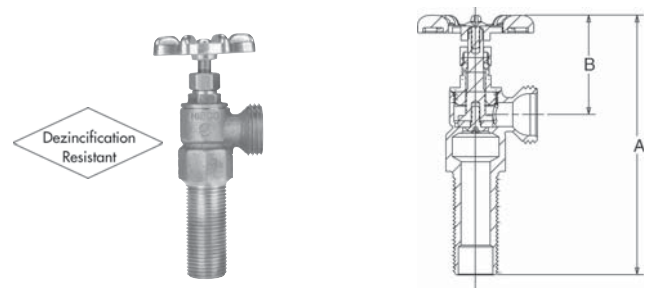
# Specialty Valves

125 lb. CWP to 100°F • Maximum Temperature 180°F



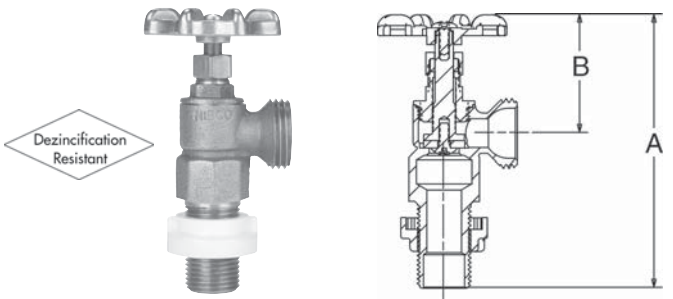
**64 Bronze Short Shank Washer Box Valve**

DESCRIPTION	Size	DIMENSIONS		APPROX. NET WT.
		A	B	
Cup or Male to Hose	1/2	5.59"	1.82"	.00 LB



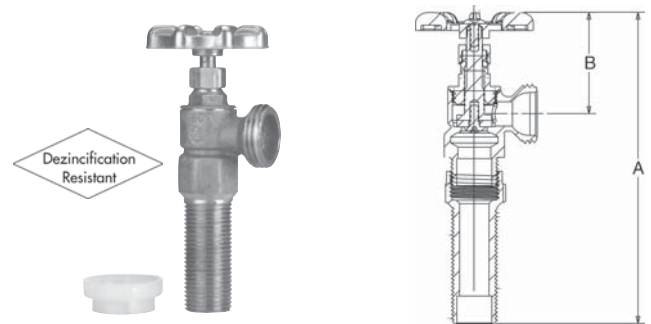
**64L 1-pc Bronze Long Shank Washer Box Valve**

DESCRIPTION	Size	DIMENSIONS		APPROX. NET WT.
		A	B	
Cup or NPSL/NPT to Hose	1/2	4.76"	1.82"	.00 lb



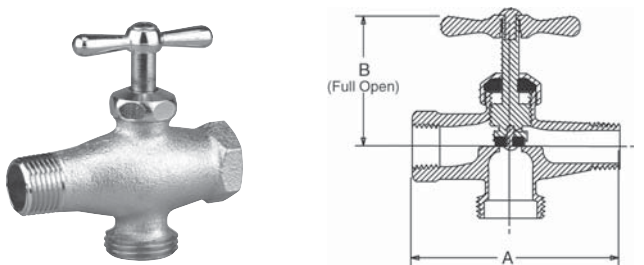
**64FC Bronze Medium Shank Washer Box Valve**

DESCRIPTION	Size	DIMENSIONS		APPROX. NET WT.
		A	B	
Cup or Male to Hose	1/2	4.4"	2.2"	.48 lb



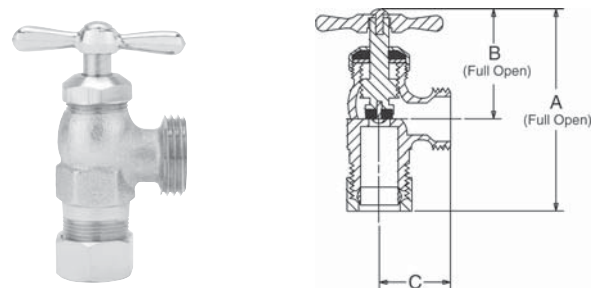
**64LA Bronze Long Shank Washer Box Valve w/Adapter**

DESCRIPTION	Size	DIMENSIONS		APPROX. NET WT.
		A	B	
Cup or Male to Hose	1/2	5.59"	1.82"	.000 lb



**C64B Inline Bypass Valve - Chrome Plated Brass Body**

DESCRIPTION	Size	DIMENSIONS		APPROX. NET WT.
		A	B	
Male x Female x Hose	1/2	3.31"	2.25"	.58 lb

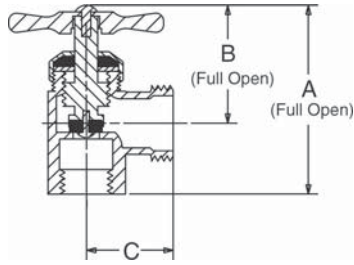


**C64C Washer Box Valve - Chrome Plated Brass Body**

DESCRIPTION	Size	DIMENSIONS			APPROX. NET WT.
		A	B	C	
Compression x Hose	1/2	3.54"	2.05"	1.19"	.40 lb

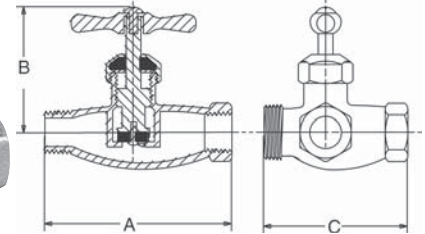
# Specialty Valves

125 lb. CWP to 100°F • Maximum Temperature 180°F



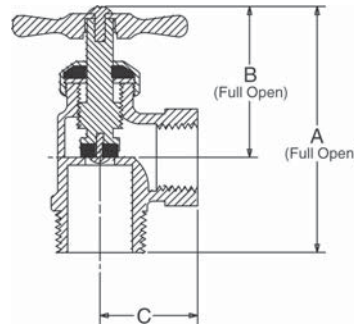
**C64F Front Operated Washing Machine Valve - Chrome Plated Brass Body**

DESCRIPTION	Size	DIMENSIONS			APPROX. NET WT.
		A	B	C	
Female x Hose	1/2	2.82"	1.94"	1.18"	.40 lb



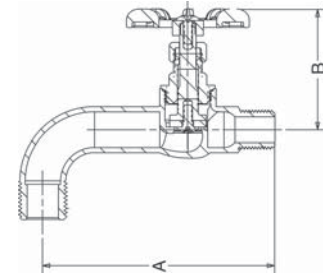
**C64R Reversible In Line Bypass - Chrome Plated Brass Body**

DESCRIPTION	Size	DIMENSIONS			APPROX. NET WT.
		A	B	C	
Male x Female to Hose	1/2	3.30"	2.36"	2.48"	.68 lb



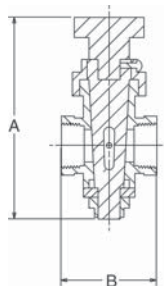
**C64T Top Operated Washing Machine Valve - Chrome Plate Brass Body**

DESCRIPTION	Size	DIMENSIONS			APPROX. NET WT.
		A	B	C	
Male to Hose	1/2	3.20"	2.08"	1.18"	.40 lb



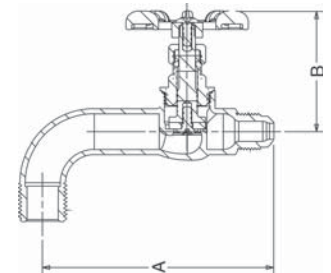
**81 Bronze Oil Tank Valve**

DESCRIPTION	Size	DIMENSIONS		APPROX. NET WT.
		A	B	
MIP x MIP MIP x SAE Flare	1/2 x 3/8	4.0"	2.0"	.000 lb



**724 Ground Key Stop & Drain Valve**

DESCRIPTION	Size	DIMENSIONS		APPROX. NET WT.
		A	B	
Female Threaded Ends	1/2	4.03"	2.14"	.90 lb
	3/4	4.09"	2.30"	1.02 lb
	2	5.41"	3.02"	1.96 lb

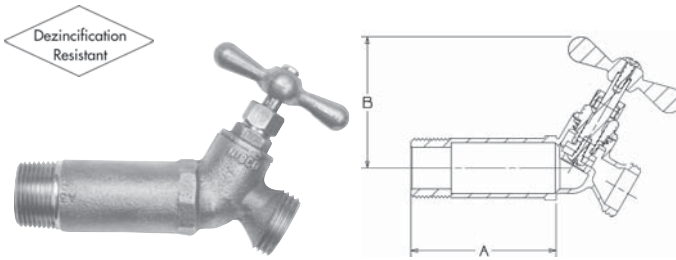


**82 Bronze Oil Tank Valve**

DESCRIPTION	Size	DIMENSIONS		APPROX. NET WT.
		A	B	
MIP x MIP MIP x SAE Flare	1/2 x 3/8	4.0"	2.0"	.000 lb

## Specialty Valves

125 lb. CWP to 100°F • Maximum Temperature 180°F



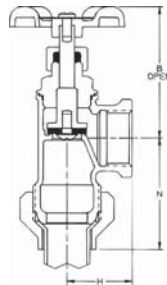
### 44LD Bronze Long Shank Water Heater Valve

DESCRIPTION	Size	DIMENSIONS		APPROX. NET WT.
		A	B	
Male Thread to Hose	3/4	2.71"	2.48"	0.60 lb

Optional Round Handwheel Available - Fig. 44LD-RW

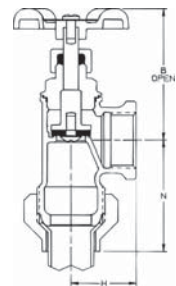
## Specialty Valves - Water Meter Valves

125 lb. CWP to 100°F • Maximum Temperature 180°F •  
All Bronze Body • Copper Alloy Stem and Nut



### 577-17 Bronze Angle Stop




DESCRIPTION	Size	DIMENSIONS			APPROX. NET WT.
		B	H	N	
Flare x FIP	3/4 x 1/2	2.56"	1.18"	1.94"	1.00 lb
	3/4	2.56"	1.18"	1.94"	.90 lb
	1 x 3/4	2.56"	1.81"	2.31"	1.20 lb



### 578-17 Bronze Angle Stop & Waste

DESCRIPTION	Size	DIMENSIONS			APPROX. NET WT.
		B	H	N	
Flare x FIP	3/4 x 1/2	2.56"	1.18"	1.94"	.90 lb
	3/4	2.56"	1.18"	1.94"	.90 lb
	1 x 3/4	2.56"	1.81"	2.31"	1.20 lb

# Plastic Valves - Index Page

<p>PVC Sch 40 Ball Valve 150 PSI CWP</p>  <p><b>4660-S/4660-T</b> Sizes 1/2" - 4" Threaded or Socket Ends page 52</p>	<p>CPVC-CTS Ball Valve 150 PSI CWP</p>  <p><b>4770</b> Sizes 1/2" - 2" CTS Socket Ends page 53</p>	<p>"Just Right" Hot Water Circulating Device</p>  <p><b>4750</b> Sizes 1/2" or 3/4" Compression Connections page 54</p>
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**\*DO NOT USE OR TEST THE PLASTIC VALVES LISTED IN THIS CATALOG WITH COMPRESSED AIR OR OTHER GASSES. SEE NIBCO® CHEMTROL® CHEM-AIRE® LITERATURE FOR INFORMATION ABOUT SHATTER-RESISTANT THERMOPLASTIC PIPING SYSTEMS SPECIFICALLY DESIGNED FOR COMPRESSED AIR OR OTHER GASSES.**

# PVC Ball Valves

One-Piece Molded PVC Body • Threaded or Socket Ends

**150 PSI/10.3 Bar Non-Shock Cold Working Pressure to 73° F/23° C**  
**Compliant to NSF/ANSI 61**

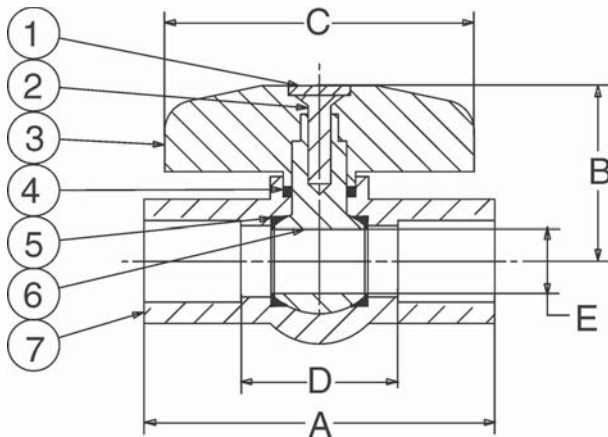


**4660-S**  
Socket Weld

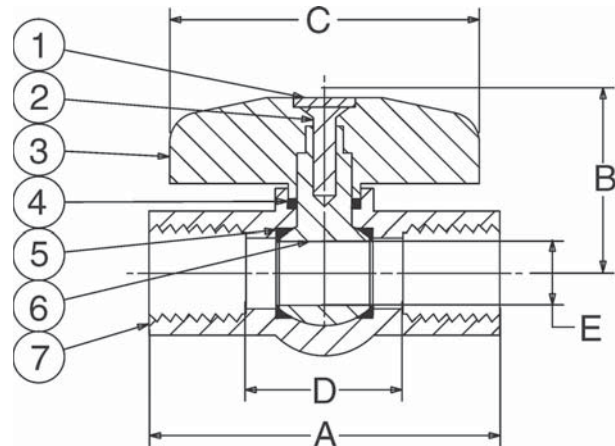
**4660-T**  
Threaded  
(not shown)

## MATERIAL LIST

PART	SPECIFICATION
1. Handle Cap	ABS
2. Screw	Zinc Plated Steel
3. Handle	ABS
4. O-Ring	EPDM
5. Seat Seal	PTFE, EPDM
6. Ball	PVC
7. Body	PVC



**4660-S**  
Socket x Socket



**4660-T**  
Threaded x Threaded

## DIMENSIONS—WEIGHTS—QUANTITIES

Size	Dimensions										4660-S		4660-T		
	A		B		C		D		E		Lbs.	Kg.	Lbs.	Kg.	
In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	Lbs.	Kg.	Lbs.	Kg.
½	15	3.27	83	1.69	42	2.76	70	1.52	39	0.55	14	0.17	0.08	0.18	0.08
¾	20	3.74	95	2.13	54	3.46	88	1.74	44	0.79	20	0.30	0.14	0.32	0.14
1	25	4.17	106	2.56	65	3.94	100	1.92	49	0.98	25	0.47	0.21	0.51	0.23
1 ¼	32	4.49	114	2.64	67	3.94	100	1.99	50	1.18	30	0.58	0.26	0.63	0.29
1 ½	40	5.12	130	3.07	78	4.29	109	2.37	61	1.42	36	0.91	0.41	0.97	0.44
2	50	5.79	147	3.50	89	5.28	134	2.79	71	1.83	46	1.50	0.68	1.60	0.73
2 ½	65	8.03	204	4.13	105	7.01	178	4.53	115	2.36	60	2.78	1.26	2.93	1.33
3	80	9.01	229	4.88	124	8.82	224	5.27	134	3.03	77	4.05	1.84	4.33	1.97
4	100	11.81	300	5.83	148	10.87	276	7.31	197	3.98	101	8.18	3.92	8.44	3.84

Socket ends per ASTM D 2466

Thread ends per ANSI B1.20.1

# CPVC-CTS Ball Valve

One-Piece Molded CPVC Body • Socket Ends

**150 PSI/10.3 Bar Non-Shock Cold Working Pressure to 73° F/23° C**  
**Compliant to NSF/ANSI 61**

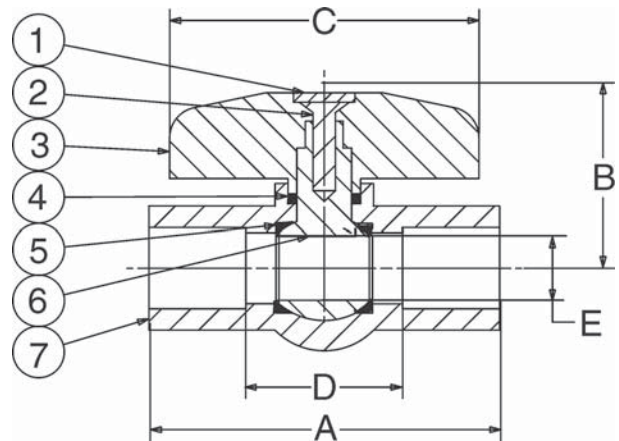
NSF STANDARD 14

## MATERIAL LIST

PART	SPECIFICATION
1. Handle Cap	ABS
2. Screw	Zinc Plated Steel
3. Handle	ABS
4. O-Ring	EPDM
5. Seat (2)	PTFE
6. Ball	CPVC
7. Body	CPVC



**4770**  
Socket Weld



**4770**  
Socket x Socket

## DIMENSIONS—WEIGHTS—QUANTITIES

Size	Dimensions										Weight		
	A		B		C		D		E		Lbs.	Kg.	
In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.		
½	15	2.68	68	1.34	34	2.36	60	1.20	33	0.49	12	.19	.08
¾	20	3.27	83	1.76	45	2.76	70	1.87	47	0.72	18	.35	.16
1	25	3.74	95	2.10	53	3.46	88	1.94	49	0.93	24	.54	.24
1 ¼	32	4.17	106	2.56	65	3.94	100	1.95	38	0.98	25	.70	.32
1 ½	40	4.49	114	2.64	67	3.94	100	1.97	50	1.18	30	1.06	.48
2	50	5.69	144	3.07	78	4.29	109	2.31	59	1.42	36	1.73	.79

Socket ends per ASTM D 2846. NSF61 Approved

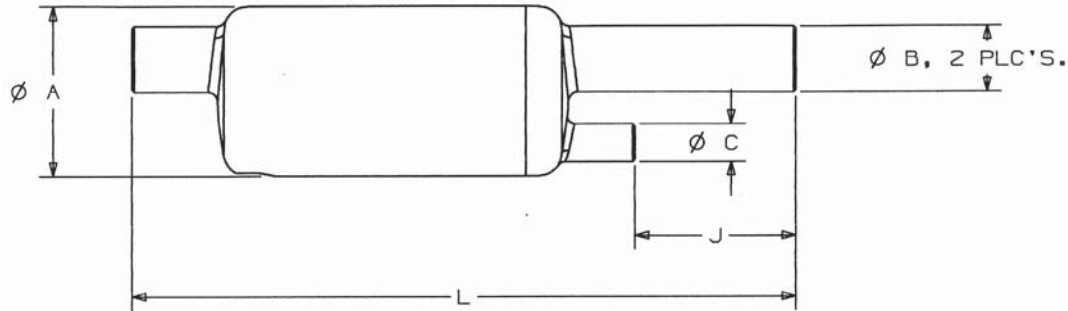
# Just Right. Hot Water Circulating Device

*Hot Water In Seconds!*

**CPVC FlowGuard Gold® Body**  
IAPMO Listed • NSF Approved • ASTM 1970  
Five Year Warranty

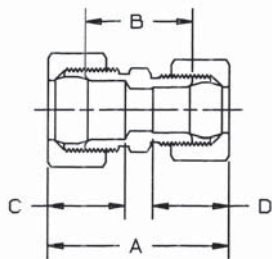


**4750**



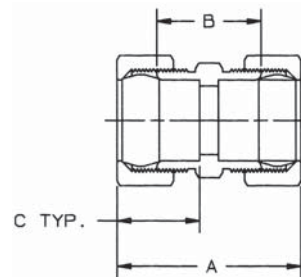
**Fig. 4750 Dimensions — Weight — Packaging — Price**

A	B	C	J	L	Net Weight (lbs)	Box	Packaging Case	Skid	UPC Code 039923	List Price
2.250	.875 (3/4" CTS)	.500 (3/8" CTS)	2.12	8.75	1.565	1	8	512	282705	<b>\$ 65.00</b>



**5/8" X 1/2" COMPRESSION FITTING Dimensions**  
(1/2" x 3/8" CTS)

A	B	C	D	Net Weight (lbs)
1.75	1.04	.75	.74	.1295



**7/8" X 7/8" COMPRESSION FITTING Dimensions**  
(3/4" x 3/4" CTS)

A	B	C	Net Weight (lbs)
2.02	1.15	.90	.3360

See page 55 for more information on use and installation.



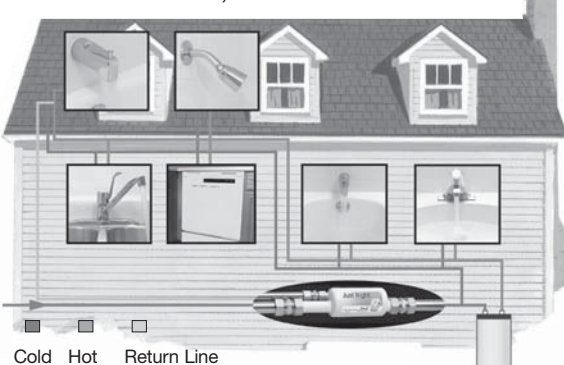
# Just Right® System delivers hot water right NOW.

If you're tired of turning on the faucet, and then waiting and waiting for hot water to finally get there, you owe it to yourself and your family to check out Just Right®.

Just Right recirculates the cooled water in your hot water pipes back into your water heater, and replaces it with the hot water you want. So you have hot water right away, at every faucet in your home.

## How the Just Right unit works.

One Just Right device is installed near the water heater, in the main water line. A return line is then added that connects the faucet farthest away to the Just Right unit. This creates a closed plumbing loop. Taking advantage of natural convection, water that cools off



while it's in your hot water pipes returns to the water heater to be reheated. You always have hot water at every faucet.

## Natural recirculation requires no electricity.

Convection – warm water rising and cooled water falling – is the principle that makes Just Right work. It occurs naturally, so it doesn't use electricity or



and there is only one moving part in the entire Just Right unit.



## Just Right actually saves up to 14,000 gallons of water per year.

When you wait and wait and wait for hot water to get to a faucet, that water typically goes down the drain, into the sewer or septic system. An average family of four wastes 7,000 to 14,000 gallons of water per year this way. With Just Right, that water is saved, reheated, and ready for you to use.

## Installs in new or existing homes.

If you're planning a new home, you should talk to your builder right away because Just Right is easily installed while the home is being plumbed.

Just Right can also be installed in most existing homes; the inset article that follows explains the installation process.

## Installation of the Just Right system.



Determine that your main hot water line is above the water heater. This likely is the case if your water heater is in the basement or crawl space. This allows hot water to rise and the cooled water to fall in a continuous loop once Just Right is installed.



Install the Just Right device in the main cold water pipe that feeds your water heater. In retrofit situations, this means cutting a 9 1/4" section out of the existing pipe and replacing that section with the Just Right device, using the compression fittings provided.



Install a return line that connects the Just Right device and the hot water faucet that is farthest from the water heater, using 1/2" hard copper or 3/8" soft copper tubing. Note: Consider hiring a plumber to complete this step.

Once Just Right is installed, you can turn on any water faucet in the house and get hot water in seconds, eliminating the wait and the waste normally required for the cold water in the line to clear. Hot water is now inches from the faucet rather than waiting in the basement.











**Just Right.**

Hot water. Right NOW!

**NIBCO**  
AHEAD OF THE FLOW

# Low Pressure Valve Handwheel Options

<p><b>Standard No Kink and Hose Bibbs Tee Handle</b></p> <p>Sizes ½" - ¾"</p> <p>Available as standard for all NIBCO valves with spline drive. Blue or silver color</p>	
<p><b>Cross Handles for the Classic Pro and T or S29 Valves</b></p> <p>Available for Classic Pro or T/S 29 Valves ½" thru 2".</p> <p>Used where standard handwheel would be out of reach or hand space is restricted.</p> <p>For field replacement, specify valve type and size. Spline drive only.</p>	
<p><b>Iron Handwheel for Brass Gate Valves</b></p> <p>Available for NIBCO ¼" thru 4".</p> <p>For field replacement, specify valve type and size. Square Stem Only.</p>	
<p><b>Lock Shield Bonnet Assembly Lockshield</b></p> <p>Available for NIBCO Classic Pro and Husky Valves ½- ¾", except straight hose bibbs.</p> <p>Use where valve might be subject to unauthorized use or tampering.</p>	
<p><b>Lockshield Handwheel</b></p> <p>Available for NIBCO Classic Pro and Husky Valves, except straight bibbs.</p> <p>Used as handle for lockshields. Specify – "Lockshield Handle."</p> <p>For field replacement, specify valve type and size. Spline drive only.</p>	
<p><b>Classic Pro Handwheel (2 1/8 Round)</b></p> <p>Available for NIBCO Classic Pro valves ½- ¾".</p> <p>Fits spline stem only. Available in blue or red.</p>	
<p><b>29 Replacement Handwheel</b></p> <p>Available for NIBCO S or T 29 Bronze Gate Valve sizes ½"-2"</p> <p>For field replacement only.</p>	
<p><b>Oval Handwheel</b></p> <p>Available for any valve with Spline Stem NIBCO sizes ½"-¾". Use where standard handwheel operation is restricted or exposed outside of the wall. Spline drive only.</p>	

NIBCO INC. reserves the right to change materials, options and accessories without notice.

## Frostproof Sillcock Accessories and Replacement Parts

### Handwheel Kit

Available for NIBCO 80M and 90M series Frostproof. Sizes ½"-¾"  
Square stem only. Includes replacement screw.



### Vacuum Breaker Replacement Kit

Available for NIBCO 90M and 85 series Frostproofs. Includes O-ring, poppet valve assembly, poppet housing body and cap.

In field replacement, specify valve type, size and date of installation



### Seat Assembly Packing Kit

Available for NIBCO 80M and 90M series Frostproofs. Includes packing, packing washer, poppet assembly and spring.

For field replacement, specify valve type, size and date of installation.

## Low Pressure Valve Options and Accessories Misc.

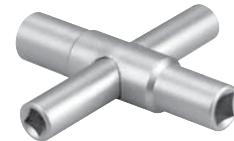
### Waste Cap with Rubber Gasket

A fast and convenient means for draining sections of line between valves.  
Fits NIBCO Low Pressure Valves sizes ¼"-¾".



### 4-Way Stem Key

Fits square stem sizes ¼", 9/32", 5/16" and 11/32".



### C750 Vacuum Breaker

Fits ¾" hose thread ends — hose bibbs, sillcocks, boiler drains.  
Break off screw for permanent installation



NIBCO INC. reserves the right to change materials, options and accessories without notice.

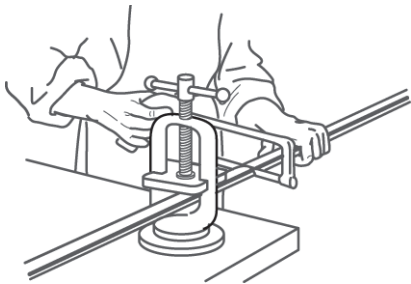
# Installations Instructions for Metal Connections

Analyze the application to determine which valve is best suited for installation, keeping in mind the service for which the valve is recommended. Before installing the correct valve, review the following installation instructions to prevent damage to the valve and assure its maximum efficiency.

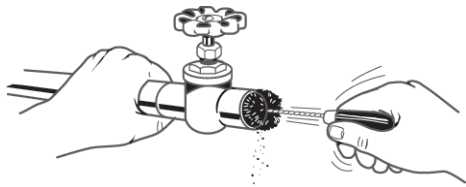
For Plastic Installation Instructions, contact Technical Services at 1.888.446.4226.

## SOLDERING

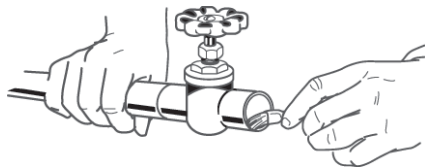
1. Cut tube end square. Ream, burr and size.



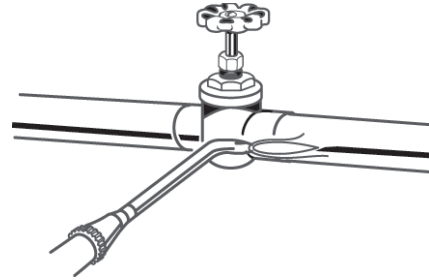
2. Use sand cloth or steel wire brush to clean both tube and cup to a bright metal. Steel wool is **not** recommended.



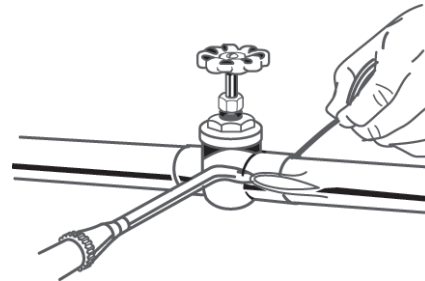
3. Apply flux to outside of tube and inside of solder cup. Surfaces to be joined must be completely covered. Use flux sparingly.



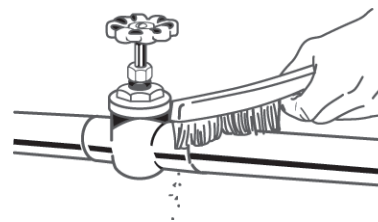
4. **Be sure that valve is fully open.** This applies only to globe and gate valves. Apply heat to tube first. Transfer as much heat as possible through the tube into the valve. Avoid prolonged heating of the valve itself. **For ball valves,** consult the installation instruction sheet or contact NIBCO Technical Services for assistance.



5. Use just enough solder: with wire solder, use 1" for 3/4" valve, etc. If too much solder is use, it may flow past tube and clog seating area. **The correct amount of solder is 1 1/2 times the diameter of the fitting or valve.**



6. Remove excess solder with small brush while plastic (soft), leaving a fillet around end of valve as it cools.



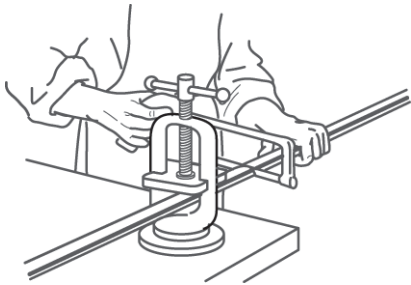
## BRAZING

The strength of a brazed joint does not vary appreciably with the different brazing materials, but depends to a large extent upon the maintenance of proper clearance between the outside of the tube and the valve socket. The interior dimensions of brazing valve sockets are machined to the closest tolerances and finished smooth to promote full capillary attraction.

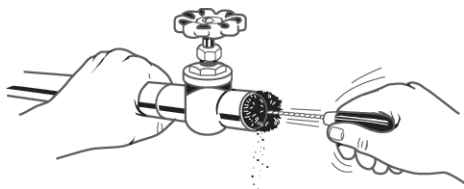
**NOTE:** Care should be observed in cleaning and in removing residues of the cleaning medium. Attempting to braze a contaminated or improperly cleaned surface will result in an unsatisfactory joint. Brazing alloys will not flow over or bond to oxides. Oily or greasy surfaces repel fluxes, leaving bare spots that oxidize and result in voids and inclusions.

# Installation Instructions for Metal Connections (cont.)

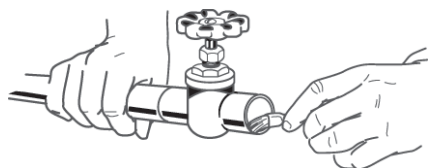
1. Cut tube end square to exact length needed, so that tube will enter valve socket all the way to the shoulder. Ream, burr and file.



2. Clean tube to a distance slightly more than what will fit into the socket, and clean valve socket. Wire brushes may be used, but avoid removing an excessive amount of metal. Fine sand cloth or emery cloth may be used with the same precautions. Steel wool is **not** recommended.



3. Apply flux to tube and socket sparingly and with a fairly thin consistency. Avoid flux on areas not cleaned, particularly inside of tube.

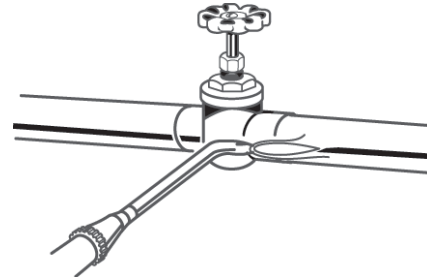


4. Assemble parts to be brazed. If fluxed parts are allowed to stand, the water in the flux will evaporate. Dried flux is liable to flake off, exposing metal surfaces to oxidation. Assemble joint by inserting tube into socket hard against the stop. The assembly should be firmly supported so that it will remain in alignment during the brazing operation. **Removal of bonnet is recommended when installing globe valves with soft seats.**

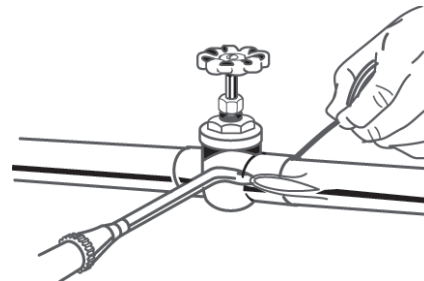
5. Apply heat to parts to be joined. The preferred method is by oxy-acetylene flame. Heat tube first, beginning one inch from edge of valve. Sweep flame around tube in short strokes up and down at right angles to run of tube. To avoid burning through tube, the flame should be in continuous motion and not allowed to remain on any one point.

Apply flame to valve at base of socket. Heat uniformly, sweeping flame from fitting to tube until flux on fitting becomes quite. Avoid excessive heating of valve.

When flux appears liquid and transparent on both tube and valve, start sweeping flame back and forth along axis of joint to maintain heat on parts to be joined, especially toward the base of the valve socket.



6. Apply brazing wire or rod at point where tube enters valve socket. Keep flame away from rod or wire at it is fed into the joint. Move flame back and forth as alloy is drawn into joint. When the proper temperature is reached, alloy will flow readily into space between tube outer wall and valve socket. When joint is filled, a continuous rim of brazing alloy will be visible.



## THREADING

Grit, dirt or any foreign matter accumulated in the pipe can hinder efficient valve operation and seriously damage vital valve parts. Thoroughly clean pipe internally with air or steam.

When threading pipe, gauge pipe threads for size and length to avoid jamming pipe against seat and disc. Thoroughly clean threaded end to remove any harmful steel or iron deposits. Apply pipe dope sparingly on pipe threads, never on valve threads. Do not allow any pipe dope into valve body in order to avoid damage to disc and seat.

Before installation, check line of flow through valve so that valve will function properly. Close valve completely before installation. Apply wrench to hex next to pipe and guard against possible distortion. After installation of valve, support the pipe line; a sagging pipe line can distort the valve and cause failure.

## COMPRESSION

For compression end connection, first slide compression nut onto copper tube, then slide on ferrule. Install the valve onto the copper tube and gently slide compression nut and ferrule up to the valve to engage. Do not use pipe dope. Tighten nut until resistance is felt. Tighten additional 1/2 turn. **DO NOT OVER TIGHTEN!**

# Maintenance & Installation Instructions for Frostproof Sillcock

## HOW THE FIGURE 85/90M WORKS

As shown on the schematic drawing on the right, the closing member (stem and disc assembly) of the Figure 85 or 90M Frostproof Sillcock operates by turning the handle in a clockwise manner to close and counter-clockwise to open.

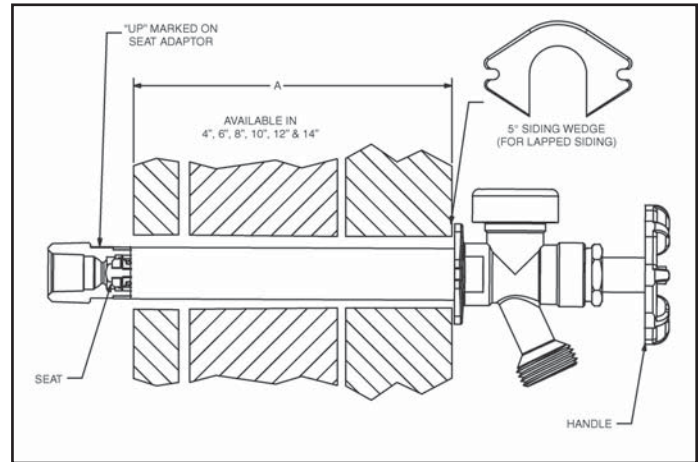
The valve's seat is at the opposite end from the handle. The valve is designed so that the seat area is situated safely behind the insulation of the home's exterior wall. This is to prevent the seat area from being exposed to freezing temperatures. Depending on the region of installation, the stem length is available in varying dimensions to accommodate the various insulation thicknesses behind the wall. The valve's "rough-in" dimension (see "A" dimension) pertains to the thickness of insulation and is measured from the frostproof sillcock's flange to the valve seat and is available in lengths 4", 6", 8", 10", 12" and 14".

The Figure 85 and 90M are designed to employ an integral back-flow prevention device to prevent potential back-siphonage. This back-siphonage, if unchecked, could compromise the safe potable water supply to the home, resulting in sickness or death.

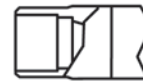
The independent testing bodies, American Society of Sanitary Engineering and Canadian Standards Association, have validated the valve's primary and preventative functions.

## TIPS FOR LONG LIFE

1. The hose should be carefully moved about, so as not to cause abnormal tension via pulling and/or jerking.
2. If the hose is left on the Figure 85 and 90M in freezing weather, the valve's self-draining feature will protect the sillcock from freeze damage if: 1) the nozzle is not left affixed to the hose; and 2) the entire hose length is on a plane lower than the fixed position of the frostproof sillcock.
3. The key to the Figure 85 and 90M being able to withstand and operate in freezing weather is that the closing member (seat disc) is inside the heated building. If the heat is temporarily shut down for a length of time that would allow freezing to take place, all water lines should be drained.
4. The figure 85 and 90M closes at the inlet of the sillcock. You will notice that it will drip for a few seconds after being closed. Wait at least 10 seconds. If dripping continues, close the valve more tightly in small increments until dripping ceases. Excessive closing force can damage components in the seating area.



## AVAILABLE SEAT ADAPTER CONNECTIONS



1/2" CUP x 1/2" MALE



1/2" FEMALE x 3/4" MALE

## INSTALLATION INSTRUCTIONS

1. Bore a 1 1/8" diameter hole through the wall in the desired position and insert the Figure 85 and 90M from the outside. Keep in mind a downward slope is required to aid draining and prevent damage to the sillcock due to freezing (see schematic drawing above).
  2. Position the spout (hose outlet) in a downward position.
  3. After the connection has been made to the water supply, secure the sillcock flange with suitable screws or fasteners. For installations on lapped-type siding, a siding wedge is supplied to give a finished look.
  4. If the connection is to be made by soldering, turn the handwheel to the fully open position before applying heat.\*
- \* **Warning: Avoid overheating when soldering — it could cause internal damage to seat area.**

## Figure Number Comparison

### Brass Ball Valves

For use as a guide only — some differences in design and materials are possible

NIBCO	AY McDonald	B&K	Hammond	Jomar	Legend	Matco-Norca	Red & White	Watts
SFP-250								
TFP-250								
S-580	2030S		8211		S-800	752C		WBVS-3
T-580	2030T		8201		T-800	752T		
SFP-600-RN	2032ES				S-1001			
TFP-600-RN	2032ET				T-1001			
SFP-600R-WH					S-1001-T			
TFP-600R-WH								
SFP-600N	2032S	107-500	8911	T100C-E	T-2000/T-1002		5044F	
TFP-600N	2032T	107-700	8901	S100C-E	S-2000/S-1002		5049F	
SFP-600-ND	2033S	107-550	8711		S-1100	754D	5063	

## Figure Number Comparison

### Gas Valves and Log Lighters

For use as a guide only — some differences in design and materials are possible

NIBCO	AY McDonald	B&K	Hammond	Jomar	Legend	Red & White	Watts
GB10	10709/10710	110-120	875	T-204/T-205	T3005	RW5200L	GBV
GB20	10711				T-3001	RW5200S	
GB30		111-120	876	T-204/T-205	T-3006		
GBV38M/GBV12M	10716	116-510			T-300FLxMIP		
GBV	10712	114-000	879	T-204	T-300FLxFIP	RW5210/11/21	GBV-FL
GCH		117-592		T-204			
GC12T/GC34T							
85LLB	10721	118-003		T-3200PB	T-3200PB		F1131
85LLC	10720	118-001		T-3200	T-3200		F1131
85ALLB	10722	118-004		T-3201PB	T-3201PB		F1131
85ALLC	10723	118-002		T-3201	T-3201		F1131

## Figure Number Comparison Quarter-Turn Supply Stop Valves

For use as a guide only — some differences in design and materials are possible

Inlet Size	Outlet Size	NIBCO	Brass Craft	Kenney	Legend	Watts
1/2" nom. Comp. (5/8" OD)	1/4" OD Comp.	7145	KTCR09C	2626PC	T595	BV894153
1/2" nom. Comp. (5/8" OD)	3/8" OD Comp.	7145	KTCR19C	2622PC	T595	BV894003
1/2" nom. Comp. (5/8" OD)	1/2" OD Comp.	7145	KTCR39C	2624PC	T595	
1/2" nom. Comp. (5/8" OD)	7/16" Slip Joint	7145	KT3341C	2623PC	T593	BV894303
3/8" FIP	3/8" OD Comp.	7145SJ	KTR15C	2047PC	T595 FIP	BV889003
1/2" nom. Comp (5/8" OD)	3/8" OD x 3/8" OD	7145DX		2903PC	T597	BV389403
1/2" FIP	1/4" OD Comp.	7155	KTR07C	2046PC	T595 FIP	BV890153
1/2" FIP	3/8" OD Comp.	7155	KTR17C	2048PC	T595 FIP	BV890003
1/2" FIP	1/2" OD Comp.	7155	KTR37C	2049PC	T595 FIP	
1/2" FIP	7/16" OD Slip Joint	7155SJ	KT3301C	2051PC	T593 FIP	BV890303
1/2" CPVC	3/8" OD Comp.	7165	KTPR19C	2880PC	T595	BV892403
1/2" FIP	3/8" OD x 3/8" OD	7155DX		2901PC	T597	BV389003
1/2" Sweat	1/4" OD Comp.	7125	KTR09C			
1/2" Sweat	3/8" OD Comp.	7125	KTR19C	2780PC	T595	BV892003
1/2" nom. Pex Barb	3/8" OD Comp.	7165	KTBRPX19C	2882PC	T595	BV891203
1/4" nom. Comp. (3/8" OD)	3/8" OD Comp.	7140	KTCR11C	2071PC		
3/8" OD Female Comp.	3/8" OD Comp.	7140F	KTCR11FC		T596	BV889253
1/2" nom Comp. (5/8" OD)	3/8" OD Comp.	7140	KTCR14C	2068PC	T596	BV894013
1/2" nom Comp. (5/8" OD)	7/16" Slip Joint	7140SJ	KT3345C	2070PC	T594	BV894313
1/2" nom Comp. (5/8" OD)	1/2" OD Comp.	7140	KTCR34C	2069PC		
3/8" FIP	3/8" OD Comp.	7150	KTR10C	2055PC	T596 FIP	BV889013
1/2" FIP	3/8" OD Comp.	7150	KTR12C	2058PC	T596 FIP	BV890013
1/2" CPVC	3/8" OD Comp.	7140	KTPR17C	2881PC		BV892413
1/2" Sweat	3/8" OD Comp.	7120	KTR14C	2781PC	T594	BV892013
1/2" Sweat	1/2" Pex Barb	7120	KTRB4C			
1/2" Pex Barb	3/8" OD Comp.	7160	KTBRPX14C	2883PC	T596	BV891213
1/2" Pex Barb	1/2" Pex Barb	7160PEX	KTBRPX44C		T596	BV891313

## Figure Number Comparison Frostproofs

For use as a guide only — some differences in design and materials are possible

NIBCO	Arrowhead	AY McDonald	B&K‡	Hammond‡	Legend‡	Mansfield	Matco-Norca‡	Red & White‡	Woodford‡
80M	456	2010/2012	104-000	38	T-551	378/379	209	FH	14
90M	426BFP/486BFP					578/579			17
85		2011/2013	104-500	58	T-552		212	FHB	

‡ Indicates Valve Line is Import ONLY.



# Figure Number Comparison

## Low Pressure Plumbing Valves

For use as a guide only — some differences in design and materials are possible

NIBCO	Arrowhead	AY McDonald‡	B&K‡	Hammond‡	Legend‡	Mansfield	Matco-Norca‡	Red & White‡	Watts‡
C26		2005	103-020	2007	T-537		646BV	RW303	BD-QT
44LD			102-816		T-539				
46U		2002	103-000	2002	T-531HP		646R	RW301	SC5
54	251VFB/351BFP		102-300	2004	T-533HP				
C4454	254CC				T-536HP				
55	253/353	2006	102-400	2005	T-534HP				
56U	301/302					44.42			
57	252CC		102-530		S-535HP				
56-VB	251VFB/351BFP								
61	900/925	2003	108-000	1035	T-543				
63CL	255/355	2015	108-100	1032	T-541	34.40	206H	RW252	SC4
63CL-LS	255LK/355LK	2016T			T-541LS	35.40			
763CL	255SW	2014	108-500	1034	S-541		206C	RW272	SC3
763CL-LS		2016S							
72			102-094		S-521				BD1C
74-2					S-524				
73CL	222/220	2004	102-100	712	T-522	526.40	204F	RW503	BD3F
74CL	221/223	2003	102-000	710	T-521	526.42	204M	RW502	BD1
75CL	800/825	2018	105-000	445	T-501	20.40	201T	RW193	ST
76CL	802/827	2023	105-100	545	T-511	22.40	202C	RW213	SWT
725CL	800SW/825SW	2017	105-500	446	S-501	20.41	201T	RW223	SS
726CL	802SW/827SW	2022	105-600	546	S-511	22.41	202C	RW272	SWS
4476	702CC/725CC	2019	105-610	549	T-512		202CM		
4776					T-513				
724		2892	105-900		T-25		201G		
77	850/870	2024	105-200	451	T-503				WAMV
777	851/871	2025	105-700		S-503				WAMV-W
4464			108-800		T-523	526.43			

‡ Indicates Valve Line is Import ONLY.

# Figure Number Comparison

## Low Pressure Plumbing Valves

For use as a guide only — some differences in design and materials are possible

NIBCO	Arrowhead	AY McDonald‡	B&K‡	Hammond‡	Legend‡	Mansfield	Matco-Norca‡	Red & White‡	Watts‡
64									WAS
64L									
64LA									
64ADP									
64FC									
C64B	250		102-204						
C64C	221CC		102-201		T-12				
C64F	247		102-203						
C64R	248		102-205						
C64T	249		102-202						
577-17	851/871		105-763	548	T-441				
578-17	850/870		105-773	547	T-442				
81/82			109-241		T-561/FLT-562				OTV/OTV-FL
SI3		2050S	101-500	968	S-451		521C	247	WCVS
TI3		2050T	101-000	967	T-451		521T	246	WCVS
S413			101-700		S-453				CVYS
T413			101-200		T-453				CVYS
S480				947	S-455				
T480				943	T-455				
SI7		2034S	100-450	568	S-400		518C		
TI7		2034T	100-400	567	T-400		518T		
SI8		2035T	100-500	668	S-401		514C	268	WGVs
TI8		2035S	100-000	667	T-401		514T	267	WGV
TI8-D			100-010	667-20	T-403				
S29									
T29									

‡ Indicates Valve Line is Import ONLY.

# Figure Number Comparison

## Plastic Ball Valves

For use as a guide only — some differences in design and materials are possible

NIBCO	AY McDonald	B&K	KBI	Legend	Matco-Norca	Red & White	Southern Valve
4660S	2060S	107-630	EBV-S	S-600	770S	1384	400
4660T	2060T	107-130	3BV-T	T-600	770T	1380	401
4770	2062	107-120	CBV-S	T-605			

# NIBCO

## Limited Warranty

*Applicable to NIBCO INC. Plumbing and Heating Valves only*

NIBCO INC. warrants each NIBCO plumbing and heating valve to be free from defects in materials and workmanship under normal use and service for a period of two (2) years date of purchase.

In the event any defect occurs which the owner believes is covered by this Warranty, the owner should immediately contact Technical Services of NIBCO INC., either in writing or by telephone call, (888) 446-4226 or (574) 523-3480. The owner will be instructed to return said valve, at the owner's expense to NIBCO INC. or an authorized NIBCO INC. representative for inspection. In the event said inspection discloses to NIBCO INC.'s satisfaction that said valve is defective, a replacement shall be mailed free of charge to the owner, and NIBCO INC. shall further pay the installing contractor the sum of fifty dollars (\$50.00) to be applied toward the cost of installation of the replacement valve.

### *Application to the NIBCO INC. Classic, Classic Pro and PROStop Valve Lines only*

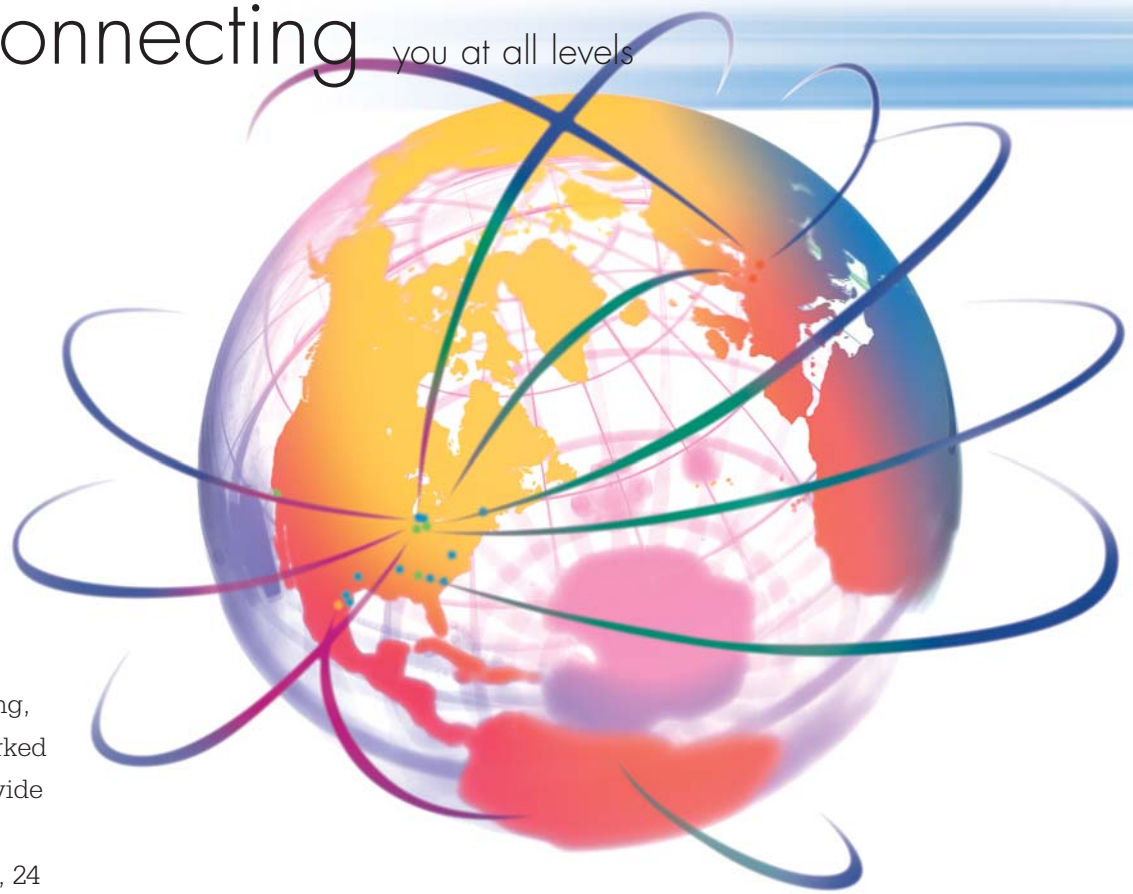
For the Classic Pro, Classic and PRO-Stop Line of NIBCO INC. valves, NIBCO INC. warrants that all Classic Pro and Classic plumbing valves shall be free from defect for as long as the original owner maintains control of the product. In addition there is a (5 year), fifty dollar (\$50.00) limited warranty on the Classic, Classic Pro and PRO-Stop valve lines under the conditions given in the preceding section above. If a defect in a Classic, Classic Pro or PRO-Stop valve occurs after the end of the five (5) year period, NIBCO INC. will replace the valve in issue only in the event an inspection by NIBCO INC. or an authorized representative of NIBCO INC. discloses to the satisfaction of NIBCO INC., that said valve is defective. However, the sole warranty for any Classic, Classic Pro and PRO-Stop valve product failure occurring after the five (5) year, fifty dollar (\$50.00) limited warranty period, is product replacement of like grade, quality, and function.

**TO THE EXTENT PERMITTED BY LAW, THIS WARRANTY SPECIFICALLY EXCLUDES INCIDENTAL AND CONSEQUENTIAL DAMAGES OF EVERY TYPE AND DESCRIPTION RESULTING FROM ANY CLAIMED DEFECT IN MATERIAL OR WORKMANSHIP, INCLUDING BUT NOT LIMITED TO, PERSONAL INJURIES AND PROPERTY DAMAGES TO THE EXTENT PERMITTED BY LAW, IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE LIMITED IN DURATION.**

This Warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

# Notes

globally connecting you at all levels

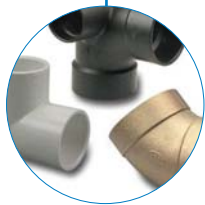


It's a new age of business, and a new way at NIBCO. From Elkhart, Indiana to Lodz, Poland, and points beyond, our company has integrated manufacturing, distribution, and networked communications to provide a seamless source of information and service, 24 hours a day, 7 days a week. But this integration hasn't happened overnight. It's been part of a long-term strategic process that has pushed us to reconsider every aspect of our business. The result? We're a vertically integrated manufacturer with the products and systems in place to deliver low cost and high quality. NIBCO® products are manufactured under a Quality Management System conforming to the current revision of ISO-9001 International Standards. We know the flow control industry is only going to get more demanding, and we are more than ready. We will continue to lead. That's what NIBCO is all about.



NIBCO® PEX Piping Systems • NIBCO® Press System®

## FITTINGS



Wrot and cast copper pressure and drainage fittings • Cast copper alloy flanges  
 • Wrot and cast press fittings • ABS and PVC DWV fittings • Schedule 40 PVC pressure fittings • CPVC CTS fittings • CPVC CTS-to-metal transition fittings  
 • Schedule 80 PVC and CPVC systems • CPVC metric piping systems  
 • CPVC BlazeMaster® fire protection fittings • Lead-Free\* fittings

BlazeMaster® is a registered trademark of The Lubrizol Corporation.  
 \*Weighted average lead content ≤0.25%

## VALVES & ACTUATION

Pressure-rated bronze, iron and alloy-iron gate, globe and check valves • Pressure-rated bronze ball valves • Boiler specialty valves • Commercial and industrial butterfly valves • Circuit balancing valves • Carbon and stainless steel ball valves  
 • ANSI flanged steel ball valves • Pneumatic and electric actuators and controls  
 • Grooved ball and butterfly valves • High performance butterfly valves • UL/FM fire protection valves • MSS specification valves • Bronze specialty valves • Low pressure gate, globe, check and ball valves • Frostproof sillcocks • Quarter-turn supply stops • Quarter-turn low pressure valves • PVC ball valves • CPVC CTS ball valves • Just Right® recirculating valves • Bronze & Iron Y-Strainers  
 • Lead-Free\* valves

\*Weighted average lead content ≤0.25%



## CHEMTROL®



Thermoplastic pipe, valves and fittings in PVC, Corzan® CPVC, polypropylene and PVDF Kynar® • Pneumatic and electric actuation systems

Corzan® is a registered trademark of The Lubrizol Corporation. • Kynar® is a registered trademark of Arkema Inc.

## eNIBCO

EDI—Electronic Data Interchange • VMI—Vendor Managed Inventory  
 • NIBCO.com • NIBCOpartner.com



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