

# NIBCO®

## Specified Valve Index



# 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> 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



This comprehensive valve index was designed to help you quickly identify pressure-rated valves for a variety of commercial construction and industrial applications. Our products are grouped into categories including ball, butterfly, gate, globe, check, lead-free, Chemtrol®, and Webstone® valves. NIBCO® metal valves are backed by a 125% product warranty and a knowledgeable technical service team that is only a phone call away.



Since 1904, NIBCO has been meeting the demands of its customers with products that are crafted with pride and quality workmanship. Today, NIBCO remains a privately owned, Midwest-based company, with a tradition of manufacturing excellence that spans five generations of family ownership.

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**Lead-free Catalog Markings:**



Manufactured from the HydraPure® silicon Performance Bronze® alloy

**LEAD FREE**

Third-party certified as lead free

LEAD-FREE: Weighted average lead content ≤ 0.25%

## Commercial/Mechanical/Potable Water/Industrial Services Bronze, Carbon and Stainless Steel Ball Valves

The NIBCO® ball valve line is one of the most specified mechanical service lines in use today. Specifying engineers recognize our bronze two-piece ball valves by name and have made them the choice in building service and general utility service applications. These versatile valves are specified worldwide in applications such as:

- Hot and cold water (including drinking water)
- Condenser and chilled water
- Hot water heating
- Low pressure steam
- Fire protection control as well as trim & drain
- Compressed air
- Vacuum
- Natural and LP gas
- Medical gas systems
- Process piping

### Why Engineers Specify NIBCO Ball Valves:

- Full port—high flow coefficient, less pressure drop
- Conventional port—non-critical flow requirements
- All valves have blowout proof stems
- Bronze valves are “dezincification-resistant”
- Insulated extended locking handle
- NIB-SEAL® insulated extended handle system
- Multiple design options and application specific features
- Authority in Lead-free products and alloys



To download the most current submittal sheet, go to:  
[www.nibco.com](http://www.nibco.com)

LEAD-FREE: Weighted average lead content ≤ 0.25%

**⚠ T-560-BR-R20/Y20  
T-560-BR-R66/Y66**



600 psi CWP  
1-piece bronze body  
Reduced port  
Bronze stem, brass ball or  
SS stem, SS ball  
PTFE or RPTFE seats  
Threaded connection  
MSS SP-110  
¼" - 2"

**⚠ T/S-580-70  
T/S-580-70-66**



600 psi CWP/150 psi SWP  
2-piece bronze body  
Conventional port  
Bronze or SS stem  
Chrome plated brass or SS ball  
RPTFE seats  
Threaded or solder connection  
MSS SP-110  
1 ¼" - 3"

**⚠ ⚙ T/S-580-80-LF  
T/S-580-66-LF**



**LEAD FREE**

600 psi CWP  
100 psi at 300°F  
2-piece bronze body  
Conventional port  
Bronze or SS stem  
Brass or SS ball  
RPTFE seats  
Threaded or solder connection  
MSS SP-145  
NSF/ANSI 372, NSF/ANSI 61-8  
IAPMO/ANSI Z1157 (IGC-157)  
1 ¼" - 3"

**⚠ T/S-585-70  
T/S-585-70-66**



600 psi CWP/150 psi SWP  
2-piece bronze body  
Full port  
Bronze or SS stem  
Chrome plated Brass or SS ball  
RPTFE seats  
Threaded or solder connection  
MSS SP-110  
¼" - 2"

**⚠ T/S-585-70-HC  
T/S-585-70-66-HC**



600 psi CWP  
2-piece bronze body  
Full port  
Bronze stem, chrome plated  
brass ball or SS stem, SS ball  
RPTFE seats  
Threaded or solder connection  
MSS SP-110  
½" - ¾"  
Hose cap and chain

**⚠ ⚙ T/S-585-80-LF  
T/S-585-66-LF**



**LEAD FREE**

600 psi CWP  
100 psi at 300°F  
2-piece bronze body  
Full port  
Brass or SS stem  
Bronze or SS ball  
RPTFE seats  
Threaded or solder connection  
MSS SP-145  
NSF/ANSI 372, NSF/ANSI 61-8  
IAPMO/ANSI Z1157 (IGC-157)  
¼" - 3"

**⚠ ⚙ T/S-585-80-LF-HC  
T/S-585-66-LF-HC**



**LEAD FREE**

600 psi CWP  
2-piece bronze body  
Full port  
Brass or SS stem  
Bronze or SS ball  
RPTFE seats  
Threaded or solder connection  
x ¾" hose connection  
MSS SP-145  
NSF/ANSI 372, NSF/ANSI 61-9  
IAPMO/ANSI Z1157 (IGC-157)  
½" and ¾"  
Hose cap and chain

**⚠ TPC-585-70  
TPC-585-77-66**



250 psi CWP  
200 psi at 250°F  
2-piece bronze body  
Full port  
SS stem, SS ball or bronze stem,  
chrome plated brass ball  
RPTFE seats  
Threaded X press  
end connection  
MSS SP-110  
½" - 2"

**⚠ ⚙ TPC-585-80-LF  
TPC-585-66-LF**



**LEAD FREE**

250 psi CWP  
225 psi at 250°F  
2-piece bronze body  
Full port  
SS stem, SS ball or bronze stem,  
brass ball  
RPTFE seats  
Threaded x Press end  
connection  
MSS SP-110  
NSF/ANSI 372, NSF/ANSI 61-8  
IAPMO/ANSI Z1157 (IGC-157)  
½" - 2"

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

† Patent Pending

LEAD-FREE: Weighted average lead content ≤ 0.25%



**PC-585-70**  
**PC-585-70-66**



250 psi CWP  
200 psi at 250°F  
2-piece bronze body  
Full port  
Bronze stem, chrome plated  
brass ball or SS stem, SS ball  
RPTFE seats  
Female press end connection  
MSS SP-110  
½" - 2"



**PC-585-80-LF**  
**PC-585-66-LF**  
**LEAD FREE**



250 psi CWP  
225 psi at 250°F  
2-piece bronze body  
Full port  
Bronze or SS stem  
Brass or SS ball  
RPTFE seats  
Female press end connection  
MSS SP-110  
NSF/ANSI 372, NSF/ANSI 61-8  
IAPMO/ANSI Z1157 (IGC-157)  
½" - 3"



**PC-585-70-HC**  
**PC-585-70-66-HC**



250 psi CWP  
2-piece bronze body  
Full port  
Bronze stem, chrome plated  
brass ball or SS stem, SS ball  
RPTFE seats  
Female press end connection  
x ¾" hose connection  
MSS SP-110  
½" - ¾"  
Hose cap and chain



**PC-585-80-LF-HC**  
**PC-585-66-LF-HC**  
**LEAD FREE**



250 psi CWP  
2-piece bronze body  
Full port  
Bronze or SS stem  
Brass or SS ball  
RPTFE seats  
Female press end connection  
x ¾" hose connection  
MSS SP-110  
NSF/ANSI 372, NSF/ANSI 61-9  
IAPMO/ANSI Z1157 (IGC-157)  
½" and ¾"  
Hose cap and chain



**TS/ST-585-70**



600 psi CWP/150 psi SWP  
2-piece bronze body  
Full port  
Bronze stem  
Chrome plated brass ball  
RPTFE seats  
Threaded x solder or  
solder x threaded connection  
MSS SP-110  
½" - 2"



**MTT-585-70**



600 psi CWP/150 psi SWP  
2-piece bronze body  
Full port  
Bronze stem  
Chrome plated brass ball  
RPTFE seats  
Male x female threaded  
end connection  
MSS SP-110  
½" - 2"



**T-585-70-CP**



600 psi CWP/150 psi CWP  
2-piece bronze body  
w/ chrome plating  
Full port  
Bronze stem  
Chrome plated brass ball  
RPTFE seats  
Threaded connection  
MSS SP-110  
½" - 2"



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

LEAD-FREE: Weighted average lead content ≤ 0.25%

**T/S-585-70-SU**



600 psi CWP/150 psi SWP  
2-piece bronze body  
Full port  
Bronze stem  
Chrome plated brass ball  
Thrd x Thrd, S x S, Thrd x S,  
S x Thrd connections  
MSS SP-110  
½" - 2"  
Single union

**T-585-70-66-ST**



600 psi CWP/250 psi SWP  
2-piece bronze body  
Full port  
SS stem, SS ball  
Carbon-filled PTFE seats  
Threaded connection  
MSS SP-110  
½" - 2"

**T-580-70-SV  
T-585-70-SV**



600 psi CWP  
2-piece bronze body w/  
safety vent  
Full port 1/2" - 1"  
Conventional port 1 ¼" - 2"  
Bronze stem  
Chrome plated brass ball  
RPTFE seats  
Threaded connection  
MSS SP-110  
OSHA 1910.147  
½" - 2"

**T-580-70-UL  
T-585-70-UL**



250 psi non-shock LP Gas  
2-piece bronze body  
Full Port ¼" - 1",  
Conventional port 1 ¼" - 3"  
Bronze stem  
Chrome plated brass ball  
RPTFE seats  
Threaded connection  
MSS SP-110  
ANSI/ASME B 16.33,  
CGA3.16, UL842 valves for  
Flammable fluids  
¼" - 3"

**TM-585-70-66**



600 psi CWP  
150 psi SWP  
2-piece bronze body  
w/ ISO direct mount actuation  
pad per ISO 5211  
Full port ½" - 2"  
Conventional port 2 ½"  
SS stem, SS ball  
RPTFE seats  
Threaded connection  
MSS SP-110  
½" - 2 ½"

**T/S-585-70-W3  
T/S-585-70-66-W3**



400 psi CWP  
2-piece bronze three-way body  
Full port ½" - 1"  
Conventional port 1 ¼" - 2"  
Brass stem, chrome plated brass  
ball or SS stem, SS ball  
Threaded or solder connection  
MSS SP-110  
½" - 2"

**KT/KG-505-W-8**



300 psi WWP  
2-piece UL/FM with or  
without tamper switches  
Full port  
Bronze stem  
Chrome plated brass ball  
Carbon-filled PTFE seats  
1" - 2 ½" threaded  
2" - 2 ½" grooved  
UL/FM approved for indoor  
and outdoor use  
California State Fire Marshall listed  
Approved by NYC M.E.A.

**KT-580-70-UL  
KT-585-70-UL**



300 psi WWP  
2-piece bronze fire protection trim valve  
Full port 1/4" - 1"  
Conventional port 1 ¼" - 3"  
Bronze stem  
Chrome plated brass ball  
RPTFE seats  
Threaded connection  
MSS SP-110  
UL listed for trim and drain (UL Subject 258)  
FM approved

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



## T/S-590-Y T/S-590-Y-66



600 psi CWP/150 psi SWP  
3-piece bronze body  
Full port ¼" - 1"  
Conventional port 1 ¼" - 3"  
Bronze stem, chrome plated brass ball or SS stem, SS ball  
PTFE seats  
Threaded or solder connection  
MSS SP-110  
¼" - 3"



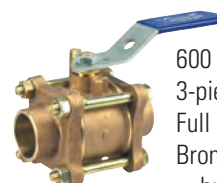
## G-590-Y G-590-Y-66



600 psi CWP  
3-piece bronze body  
Conventional port  
Bronze stem, chrome plated brass ball or SS stem, SS ball  
PTFE seats  
Grooved connection  
MSS SP-110  
1 ½" - 3"



## T/S-595-Y T/S-595-Y-66



600 psi CWP/150 psi SWP  
3-piece bronze body  
Full port  
Bronze stem, chrome plated brass ball or SS stem, SS ball  
PTFE seats  
Threaded or solder connection  
MSS SP-110  
¼" - 2 ½"



## PC-595-Y/R-LF PC-595-Y/R-66-LF

**LEAD FREE**



250 psi CWP/225 psi at 250°F  
3-piece bronze body  
Full port, blowout-proof stem  
Bronze or SS stem  
Brass or SS ball  
PTFE or RPTFE Seats  
Press end connections  
Commercial Hot 180°F  
NSF/ANSI 372 SP-110/145  
NSF/ANSI/CAN 61-2018  
½" - 2 ½"



## T/S-595-Y-LF T/S-595-Y-66-LF

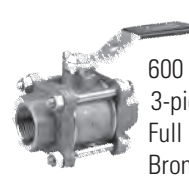
**LEAD FREE**



600 psi CWP / 100 psi at 300°F  
3-piece bronze body  
Full port  
Bronze or SS stem  
Brass or SS ball  
PTFE seats  
Threaded or solder connection  
MSS SP-145  
NSF/ANSI 372 and NSF/ANSI 61-8  
¼" - 2 ½"



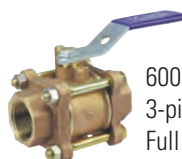
## T-595-Y-SS T-595-Y-66-SS



600 psi CWP/150 psi SWP  
3-piece body  
Full port  
Bronze stem, chrome plated brass ball or SS stem, SS ball  
PTFE seats  
Threaded Only  
MSS SP-110  
¼" - 2 ½"  
SS externals



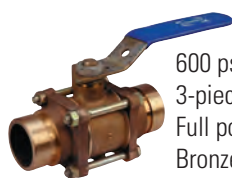
## T/S-595-Y



600 psi CWP/150 psi SWP  
3-piece bronze body  
Full port  
Bronze stem  
Chrome plated brass ball  
PTFE seats  
Thread x solder connection  
MSS SP-110  
¼" - 2"



## G-595-Y G-595-Y-66



600 psi CWP  
3-piece bronze body  
Full port  
Bronze stem, chrome plated brass ball or SS stem, SS ball  
PTFE seats  
Grooved connection  
MSS SP-110  
1 ½" - 2 ½"



## T-595-Y-UL



175 psi Non-Shock LP Gas  
3-piece bronze body  
Full port  
Bronze stem  
Chrome plated brass ball  
PTFE seats  
Threaded connection  
MSS SP-110  
UL842  
¼" - 2"



## CS-595-YX/EC and CS-595-YX-66/EC



600 psi CWP  
185 psi medical gas  
3-piece bronze body w/ copper stub ends  
Full port  
Bronze stem, chrome plated brass ball or SS stem, SS ball

PTFE seats  
Straight or expanded Copper tube connection  
MSS SP-110  
NFPA 99C and  
CGA pamphlet G-4-1  
½" - 2"



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

LEAD-FREE: Weighted average lead content ≤ 0.25%

**T-560-CS-R-25/66-LL**



2000 psi CWP  
1-piece carbon steel body  
Locking lever handle  
Reduced port  
CS stem or SS stem  
SS ball  
Graphoil packing, RPTFE seat  
Threaded connection  
MSS SP-110  
NACE MR Ø175  
¼" - 2"

**T-560-CS-R-25/66-FS-LL**



2000 psi CWP  
1-piece carbon steel body  
Locking lever handle  
Reduced port  
CS stem or SS stem  
SS ball  
Graphoil packing, RPTFE seat  
Threaded connection  
MSS SP-110  
NACE MR Ø175  
API 607 4th ed. fire safe  
¼" - 2"

**T-570-CS-R-25/66**



2000 psi CWP 1/2" - 1"  
1500 psi CWP 1 ¼" - 2"  
1-piece CS bar stock body  
Reduced port  
CS stem, CS ball  
or SS stem, SS ball  
PTFE packing & RPTFE seat  
Threaded connection  
MSS SP-110  
NACE MR Ø175  
½" - 2"

**TC-580-CS-R-25/66-LL**



2000 psi CWP  
2-piece carbon steel body  
Mounting pad  
Locking lever handle  
Conventional port  
CS stem or SS stem  
SS ball  
Carbon-filled PTFE packing  
RPTFE seat  
Threaded connection  
MSS SP-110  
NACE MR Ø175  
¼" - 2"

**TC-580-CS-R-25/66-SR**



2000 psi CWP  
2-piece carbon steel body  
Mounting pad  
Spring return handle  
Conventional port  
CS stem or SS stem  
SS ball  
Carbon-filled PTFE packing  
RPTFE seat  
Threaded connection  
MSS SP-110  
NACE MR Ø175  
¼" - 2"

**T-580-CS-R-25/66**



2000 psi CWP 1/4" - 1"  
1500 psi CWP 1 ¼" - 2"  
2-piece carbon steel body  
Conventional port  
CS stem or SS stem  
SS ball  
RPTFE packing  
RPTFE seat  
Threaded connection  
MSS SP-110  
NACE MR Ø175  
¼" - 2"

**TM/KM/BM-590-CS-R-66-FS-LL**



2000 psi CWP  
3-piece CS body  
ISO actuation  
Mounting pad  
Locking lever handle  
Conventional port  
Graphoil packing, RPTFE seat  
SS stem  
SS ball  
Enclosed bolt design  
Threaded, socket weld or  
butt weld connection  
MSS SP-110, MSS SP-72  
NACE MR Ø175  
API 607 4th ed. fire safe  
API 608 anti-static  
½" - 2"

**T/K-595-CS-R-66-LL**



1000 psi CWP  
3-piece carbon steel body  
Locking lever handle  
Full port  
SS stem  
SS ball  
Carbon filled PTFE packing  
RPTFE seat  
Threaded or socket weld connection  
MSS SP-110  
NACE MR Ø175  
¼" - 2"

**TM/KM-595-CS-R-66**



1000 psi CWP  
3-piece CS body  
ISO actuation mounting pad  
Carbon-filled PTFE packing  
RPTFE seat  
Full port  
SS stem  
SS ball  
Threaded or socket  
weld connection  
MSS SP-110  
NACE MR Ø175  
¼" - 2"

**T-560-S6-R-66-LL**



2000 psi CWP  
1-piece stainless steel body  
Locking lever handle  
Reduced port  
SS stem  
SS ball  
RPTFE seat, graphoil packing  
Threaded connection  
MSS SP-110  
NACE MR Ø175  
¼" - 2"

**T-560-S6-R-66-FS-LL**



2000 psi CWP  
1-piece stainless steel body  
Locking lever handle  
Reduced port  
SS stem  
SS ball  
RPTFE seat, graphoil packing  
Threaded connection  
MSS SP-110  
API-607 fire safe  
NACE MR Ø175  
¼" - 2"

**T-580-S6-R-66-LL**



2000 psi CWP  
2-piece stainless steel body  
Locking lever handle  
Reduced port  
SS stem  
SS ball  
Carbon-filled PTFE packing  
RPTFE seat  
Threaded connection  
MSS SP-110  
NACE MR Ø175  
¼" - 2"

**T-580-S6-R-66-SR**



2000 psi CWP  
2-piece stainless steel body  
Spring return handle  
Reduced port  
SS stem  
SS ball  
Carbon-filled PTFE packing  
RPTFE seat  
Threaded connection  
MSS SP-110  
NACE MR Ø175  
¼" - 2"

**T-585-S6-R-66-LL**



1000 psi CWP  
2-piece stainless steel body  
Locking lever handle  
Full port  
SS stem  
SS ball  
Carbon-filled PTFE packing  
RPTFE seat  
Threaded connection  
MSS SP-110  
NACE MR Ø175  
¼" - 2"

**T-585-S6-R-66-SR**



1000 psi CWP  
2-piece stainless steel body  
Spring return handle  
Full port  
SS stem  
SS ball  
Carbon-filled PTFE packing  
RPTFE seat  
Threaded connection  
MSS SP-110  
NACE MR Ø175  
¼" - 1"

**TM/KM/BM-590-S6-R-66-FS-LL**



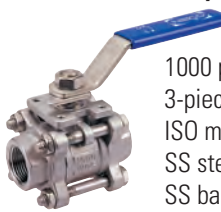
2000 psi CWP  
3-piece stainless steel body  
ISO mounting pad  
Locking lever handle  
Conventional port  
SS stem  
SS ball  
Enclosed bolt design  
RPTFE seat, graphoil packing  
Threaded, socket weld  
or butt weld connections  
MSS SP-110, MSS SP-72  
API 607 4th ed. fire safe  
API 608 anti-static  
NACE MR Ø175  
¼" - 2"

**T/K-595-S6-R-66-LL**



1000 psi CWP  
3-piece stainless steel body  
Locking lever handle  
Full port  
SS stem  
SS ball  
Carbon-filled PTFE packing  
RPTFE seat  
Threaded or socket  
weld connections  
MSS SP-110  
NACE MR Ø175  
¼" - 2"

**TM/KM-595-S6-R-66**



1000 psi CWP  
3-piece stainless steel body  
ISO mounting pad  
SS stem  
SS ball  
Carbon-filled PTFE packing  
RPTFE seat  
Threaded or socket  
weld connections  
MSS SP-110  
NACE MR Ø175  
¼" - 2"



## F-510-CS-R-66-FS

285 psi CWP  
1-piece carbon steel body  
Conventional port  
SS ball and stem  
Graphite & braided graphite packing set  
RPTFE seat  
Class 150 ASME B16.5 flanged connection  
MSS SP-72, ASME B16.34  
API 607 4th ed. fire safe  
API 608 anti-static, API 598  
½" - 12"



## F-510-S6-R-66-FS

275 psi CWP  
1-piece stainless steel body  
Conventional port  
SS ball and stem  
Graphite & braided graphite packing set  
RPTFE seat  
Class 150 ASME B16.5 flanged connection  
MSS SP-72, ASME B16.34  
API 607 4th ed. fire safe  
API 608 anti-static, API 598  
½" - 12"



## F-515-CS-F-66-FS

285 psi CWP  
2-piece carbon steel body  
Full port  
SS ball and stem  
Graphite & braided graphite packing set  
Carbon-filled PTFE seat  
Class 150 ASME B16.5 flanged connection  
MSS SP-72, ASME B16.34  
API 607 4th ed. fire safe  
API 608 anti-static, API 598  
½" - 12"



## F-515-S6-F-66-FS

275 psi CWP  
2-piece stainless steel body  
Full port  
SS ball and stem  
Graphite & braided graphite packing set  
Carbon-filled RPTFE seat  
Class 150 ASME B16.5 flanged connection  
MSS SP-72, ASME B16.34  
API 607 4th ed. fire safe  
API 608 anti-static, API 598  
½" - 12"



## F-530-CS-R-66-FS

740 psi CWP  
1-piece carbon steel body  
Conventional port  
SS ball and stem  
Graphite & braided Graphite packing set  
RPTFE seat  
Class 300 ASME B16.5 flanged connection  
MSS SP-72, ASME B16.34  
API 607 4th ed. fire safe  
API 608 anti-static, API 598  
½" - 10"



## F-530-S6-R-66-FS

720 psi CWP  
1-piece stainless steel body  
Conventional port  
SS ball and stem  
Graphite & braided graphite packing set  
RPTFE seat  
Class 300 ASME B16.5 flanged connection  
MSS SP-72, ASME B16.34  
API 607 4th ed. fire safe  
API 608 anti-static, API 598  
½" - 10"



## F-535-CS-F-66-FS

740 psi CWP  
2-piece carbon steel body  
Full port  
SS ball and stem  
Graphite & braided graphite packing set  
Carbon filled PTFE seat  
Class 300 ASME B16.5 flanged connection  
MSS SP-72, ASME B16.34  
API 607 4th ed. fire safe  
API 608 anti-static, API 598  
½" - 12"



## F-535-S6-F-66-FS

720 psi CWP  
2-piece stainless steel body  
Full port  
SS ball and stem  
Graphite & braided graphite packing set  
Carbon-filled PTFE seat  
Class 300 ASME B16.5 flanged connection  
MSS SP-72, ASME B16.34  
API 607 4th ed. fire safe  
API 608 anti-static, API 598  
½" - 12"



## LEAD FREE

NIBCO® carbon  
and stainless steel  
ball valves do not  
contain lead.



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

# Balancing Valves

NIBCO puts you in control with its balancing valves. These control valves are used to maintain a comfortable indoor climate while saving energy and reducing costs. Engineers specify NIBCO® balancing valves for optimum performance because their design ensures trouble-free operation and ease of maintenance in the following systems:

- HVAC
- Plumbing Systems



## Why Engineers Specify NIBCO Balancing Valves?

- Ensures desired flow to boilers and chillers
- Provides desired flow distribution throughout the building
- Comfortable indoor climate
- Globe valve design improves flow measurement accuracy
- Trouble-free operation
- Ease of maintenance



**1805-LF SERIES (S/T/P)**  
**Manual Balancing Valve**



**LEAD FREE**

600 psi Non-Shock  
Cold Working  
Pressure to 100°F  
Fixed orifice  
Dezincification resistant  
Stainless steel ball  
Stainless steel stem (Optional)  
Memory stop  
Available in low flow  
250°F max at 150 psi  
+/- 3% accuracy  
½" - 2"



**1810 SERIES (S/T/P)**  
**Manual Balancing Valve**



300 psi CWP  
Globe style  
Fixed orifice  
Dezincification resistant  
Integral internal memory stop  
Available in low-flow  
260°F max at 150 psi  
+/- 3% accuracy  
½" - 2"



**1810-LF SERIES (S/T/P)**  
**Manual Balancing Valve**



**LEAD FREE**

300 psi CWP  
Globe style  
Fixed orifice  
Dezincification resistant  
Integral internal memory stop  
Available in low-flow  
260°F max at 150 psi  
+/- 3% accuracy  
½" - 2"



**1880 SERIES (S/T/P)**  
**Automatic Balancing Valve**



300 psi CWP  
Double union ends  
Compact design  
Dezincification resistant  
Available in Low-Flow  
260°F max at 150 psi  
+/- 3% accuracy  
½" - 2"



**1820 SERIES (S/T/P)**  
**Combination Ball Valve**



600 psi CWP  
Integral strainer  
Fitted with one test point  
Drain valve  
Dezincification resistant  
250°F max at 200 psi  
½" - 2"



**1830 SERIES (S/T/P)**  
**Combination Ball Valve**



600 psi CWP  
Fitted with one test point  
Drain valve  
Dezincification resistant  
250°F max at 200 psi  
½" - 2"



**721-AR SERIES (F)**  
**Iron Stainer**



200 psi Non-Shock, -20 to 150°F  
Flanged (Class 125)  
Cast iron body  
Accessory tapings for  
PT ports and drains  
450°F max at 125 psi  
Sizes 2" - 16"



**737 SERIES (F/G)**  
**Iron Balancing Valve**



240 psi CWP  
Flanged (Class 125) or  
grooved ends  
Cast iron body and bonnet  
Non-rising stem design  
Positive shut-off with EPDM  
Elastomer disc  
Discrete memory stop  
250°F max at 175 psi  
Sizes 2 ½" - 12"



**739 SERIES (F)**  
**Iron Balancing Valve**



230 psi CWP  
Fixed orifice  
Flanged (Class 125)  
Ductile iron body and bonnet  
Positive shut off  
Ductile iron EPDM coated disc  
Integral memory stop  
250°F max at 175 psi  
Sizes 2 ½" - 16"



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

LEAD-FREE: Weighted average lead content ≤ 0.25%

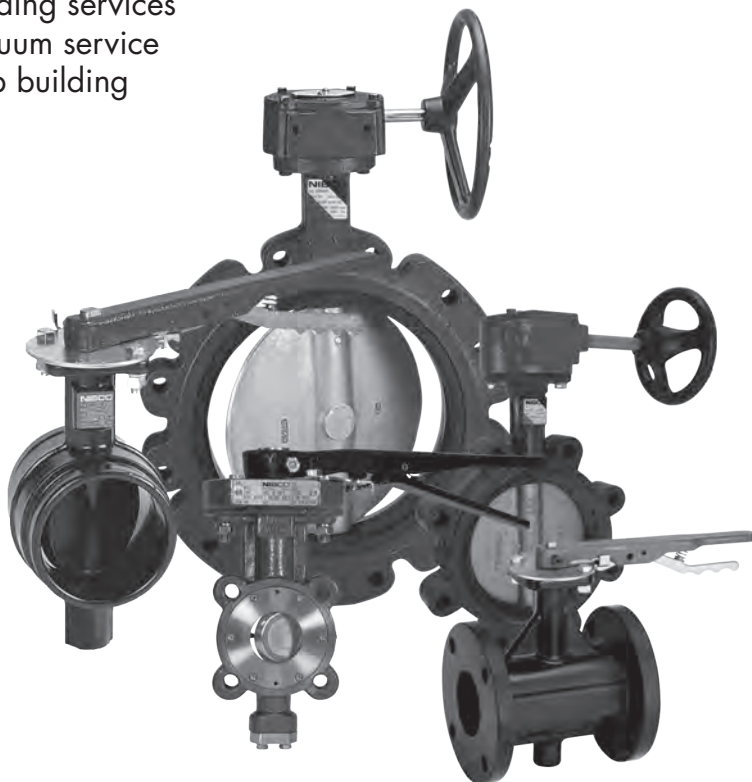
# Butterfly Valves

For commercial, mechanical, light industrial and fire protection applications, NIBCO is the most specified line of butterfly valves. With more than 60 years of valve experience, NIBCO produces 1,200 butterfly valve options. NIBCO® butterfly valves are engineered and manufactured as standard and assembled-to-order for the following applications:

- Isolation & throttling
- Hot and cold domestic water
- Compressed air
- Chemical
- Process piping
- HVAC
- Fire protection
- Building services
- Vacuum service
- Ship building

## Why Engineers Specify NIBCO Butterfly Valves?

- End connections and body styles for variety of applications
- Knowledgeable sales force keeps you up-to-date and experienced in writing specifications
- Lean manufacturing techniques mean short run flexibility and quick start-ups
- Produce standard and assembled-to-order valves
- Designed to comply with recognized standards including MSS, UL/FM, ASME, API, AWWA, US Coast Guard
- Dead-end service



### ⚠ GD-4765/4775



300 psi CWP  
Grooved mechanical style  
Ductile iron polyamide coated body  
EPDM or Buna-N coated disc  
SS stem  
Commercial  
2" - 12"

### ⚠ GD-4765N



**LEAD FREE**

300 psi CWP  
Grooved mechanical style  
Nylon coated ductile iron body  
EPDM coated disc  
SS stem  
Commercial  
NSF/ANSI 372  
NSF/ANSI 61-8  
2" - 12"

### ⚠ GD-4865/6865-4N/8N



300/350 WWP fire protection Grooved mechanical style  
Ductile iron polymer coated body  
Internal supervisory switch  
EPDM coated disc  
SS stem  
Commercial  
Fire protection - UL, FM  
California State Fire Marshall  
NSF Certified  
2" - 10"

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LEAD-FREE: Weighted average lead content ≤ 0.25%



**LD-1000 SERIES**  
**LEAD FREE**



150 psi CWP  
Lug style connection  
Ductile iron body  
1-piece SS stem (14"-24")  
2-piece SS stem (30"-48")  
Aluminum bronze, ductile iron,  
or SS disc  
EPDM or Buna-N cartridge liner  
w/ phenolic backing  
Pinned stem drive  
MSS SP-67  
14" - 24" certified to NSF/ANSI 372  
14" - 48"



**LD/WD-2000 SERIES**  
**LEAD FREE**



200 psi CWP  
Lug or wafer style connection  
Ductile iron body  
1-piece SS stem  
Aluminum bronze disc  
EPDM or Buna-N molded-in liner  
Geometric stem drive  
MSS SP-67  
US Coast Guard "Category A"  
NSF 61/ANSI 372  
2" - 12"



**PFD-2000**  
**LEAD FREE**



200 psi CWP  
Lug style with female press  
End connections  
Ductile iron body  
1-piece SS stem  
Aluminum bronze disc  
EPDM molded-in liner  
Geometric stem drive  
MSS SP-67  
NSF 61/ANSI 372  
2 1/2" - 4"



**LD/WD-3000 SERIES**  
**LEAD FREE**



250 psi CWP  
Lug or wafer style  
connection  
Ductile iron body  
1-piece SS stem  
Aluminum bronze,  
Ductile iron, or SS disc  
EPDM, Buna-N or FKM  
molded-in liner  
Geometric stem drive  
MSS SP-67  
US Coast Guard "Category A"  
NSF 61/ANSI 372  
2" - 12"



**LD/WD-3510**



250 psi CWP  
Lug or wafer style connection  
Ductile iron body  
1-piece SS stem  
Ductile iron disc  
EPDM molded in liner  
Accepts internal and external  
Supervisory switches  
MSS SP-67  
Fire protection - UL, FM, NYC  
B.S.A.  
California State Fire Marshall  
2" - 12"



**LD/WD-5022**  
**LEAD FREE**



285 psi CWP  
Wafer or lug style connection  
Ductile iron body  
1-piece SS stem  
Stainless steel disc  
EPDM molded-in liner  
Geometric stem drive  
MSS SP-67  
US Coast Guard "Category A"  
NSF 61/ANSI 372  
2" - 12"



**FC-2765, FC-2775**



200 psi CWP  
Flanged style  
Ductile iron polyamide  
coated body  
EPDM or Buna-N coated disc  
SS stem  
AMSE/B16.5  
Face to face dimension  
2" - 12"



**FC-5765, FC-5775**



285 psi CWP  
Flanged style  
Ductile iron polyamide coated body  
EPDM or Buna-N coated disc  
SS stem  
AMSE/B16.5  
Face to face dimension  
2" - 12"



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

LEAD-FREE: Weighted average lead content ≤ 0.25%

\*Selected seat and disc materials

# High Performance Butterfly Valves

NIBCO® high performance butterfly valves are ideally suited for commercial, industrial and mechanical HVAC services. The rugged design increases mechanical strength over standard butterfly valves and has exceptional chemical and heat resistance properties. These unique properties make the high performance butterfly valves suitable for applications involving hot water, condenser water, glycol, chilled water, compressed air, steam, chemical process, isolation and throttling.

## LEAD FREE

The following NIBCO high performance butterfly valves do not contain lead.



### LCS-6822-3



285 CWP  
Class 150  
Carbon steel body  
Locking lever  
Handle operator  
SS stem & disc  
PTFE seat & seals  
Key drive w/ ISO actuation mounting  
Lug style only  
MSS SP-68 (design)  
API 609 seat pressure & temperature ratings  
2 1/2" - 6"



### LCS-6822-5



285 CWP  
Class 150  
Carbon steel body  
Gear operator  
SS stem & disc  
PTFE seat & seals  
Key drive w/ ISO actuation mounting  
Lug style only  
MSS SP-68 (design)  
API 609 seat pressure & temperature ratings  
2 1/2" - 30"



### LCS-7822-3



740 CWP  
Class 300  
Carbon steel body  
Locking lever  
Handle operator  
SS stem & disc  
PTFE seat & seals  
Key drive w/ ISO actuation mounting  
Lug style only  
MSS SP-68 (design)  
API 609 seat pressure & temperature ratings  
2 1/2" - 6"



### LCS-7822-5



740 CWP  
Class 300  
Carbon steel body  
Gear operator  
SS stem & disc  
PTFE seat & seals  
Key drive w/ ISO actuation mounting  
Lug style only  
MSS SP-68 (design)  
API 609 seat pressure & temperature ratings  
2 1/2" - 24"



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

LEAD-FREE: Weighted average lead content ≤ 0.25%

# High Performance Butterfly Valves

NIBCO® Sure Seal® high performance butterfly valves are ideally suited for commercial, industrial and mechanical HVAC services. The rugged design increases mechanical strength over standard butterfly valve and has exceptional chemical and heat resistance properties. These unique properties make the high performance butterfly valves suitable for applications involving hot water, condenser water, glycol, chilled water, compressed air, steam, chemical process, isolation and throttling for applications requiring 3/655 body, disc and components.

## LEAD FREE

The following NIBCO Sure Seal high performance butterfly valves are stainless steel and do not contain lead.



### G1L-SSSR-H10



Class 150  
Stainless steel body  
SS stem & disc  
PTFE seat & seals  
Key drive w/ ISO actuation mounting  
Lug style shown  
MSS SP-68 (design)  
API 609 seat pressure & temperature ratings  
2 1/2" - 36"



### G1L-SSSR-G



Class 150  
Stainless steel body  
SS stem & disc  
PTFE seat & seals  
Key drive w/ ISO actuation mounting  
Lug style shown  
MSS SP-68 (design)  
API 609 seat pressure & temperature ratings  
2 1/2" - 36"



### G3L-SSSR-H10



Class 300  
Stainless steel body  
SS stem & disc, PTFE seat & seals  
Key drive w/ ISO actuation mounting  
Lug style shown  
MSS SP-68 (design)  
API 609 seat pressure & temperature ratings  
2 1/2" - 20"



### G3L-SSSR-G



Class 300  
Stainless steel body  
SS stem & disc, PTFE seat & seals  
Key drive w/ ISO actuation mounting  
Lug style shown  
MSS SP-68 (design)  
API 609 seat pressure & temperature ratings  
2 1/2" - 20"



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LEAD-FREE: Weighted average lead content ≤ 0.25%

## Bronze and Iron Multi-turn Valves

Engineers have specified NIBCO® gate, globe and check valves since 1963. These valves come in bronze, iron and ductile iron and are manufactured, assembled and tested in the USA from global and domestic components. NIBCO has experienced people and proven manufacturing methods that ensure a dependable valve for years to come. Engineered to meet the most demanding applications, NIBCO® bronze and iron multi-turn valves are suitable for the following:

- Isolation & throttling
- Hot and cold domestic water
- Compressed air
- Chemical
- Process piping
- Backflow prevention
- HVAC
- Fire protection
- Building services
- Steam

### Why Engineers Specify NIBCO Bronze & Iron Multi-turn Valves?

- Bronze multi-turn valves are manufactured in Nacogdoches, Texas
- Iron multi-turn valves are manufactured in Blytheville, Arkansas
- Meet UL, FM, MSS, ASME, ASTM, AWWA and ANSI standards
- Backed by a 125% limited warranty
- Engineered to meet a wide variety of applications based on years of experience
- Available in sizes 1/4" through 24"
- More than 55 years of valve experience



To download the most current submittal sheet, go to:  
<http://www.nibco.com>



**⚠ T-103-HC**  
Fire protection  
175 psi WWP  
Bronze body  
Non-rising stem  
HDWL malleable iron  
Screw-in bonnet  
Solid wedge  
Integral seat  
Threaded connection  
MSS SP-80, UL 668, FM  
2 ½"



**⚠ T-104-O**  
Fire protection  
175 psi WWP  
Bronze body  
OS&Y  
HDWL malleable iron  
Union bonnet  
Solid wedge  
Integral seat  
Threaded connection  
UL/ULC, FM, NYC B.S.A  
½" - 2"



**⚠ T/S-111**  
Class 125  
Bronze body  
Rising stem  
HDWL malleable iron  
Screw-in bonnet  
Solid wedge  
Integral seat  
Threaded or  
solder connection  
MSS SP-80  
¼" - 3"



**⚠ ⚗ T/S-111-LF  
LEAD FREE**  
300 psi CWP  
Bronze body  
Rising stem  
HDWL malleable iron  
Screw-in bonnet  
Solid wedge  
Integral seat  
Threaded or  
solder connection  
MSS SP-139  
NSF/ANSI 372  
NSF/ANSI 61-8  
¼" - 3"



**⚠ ⚗ PC-111-LF  
LEAD FREE**  
250† psi CWP  
180 psi at 200°F  
Bronze body  
Rising stem  
HDWL malleable iron  
Screw-in bonnet  
Solid wedge  
Integral seat  
Female press  
end connections  
Press ends  
leak detection  
MSS SP-139  
NSF/ANSI 372  
NFS/ANSI 61-8  
½" - 3"



**⚠ PF-111**  
200 psi CWP  
200 psi at 250°F  
Bronze body  
Rising stem  
HDWL malleable iron  
Screw-in bonnet  
Solid wedge  
Integral seat  
Female press  
end connections  
MSS SP-80  
½" - 2"



**⚠ T/S-113**  
Class 125  
Bronze body  
Non-rising stem  
HDWL malleable iron  
Screw-in bonnet  
Solid wedge  
Integral seat  
Threaded or  
solder connection  
MSS SP-80  
¼" - 3"



**⚠ ⚗ T/S-113-LF  
LEAD FREE**  
300 psi CWP  
Bronze body  
Non-rising stem  
HDWL malleable iron  
Screw-in bonnet  
Solid wedge  
Integral seat  
Threaded or  
solder connection  
MSS SP-139  
NSF/ANSI 372  
NSF/ANSI 61-8  
¼" - 3"



**⚠ T-113-HC**  
Class 125  
Bronze body  
Non-rising stem  
HDWL malleable iron  
Screw-in bonnet  
Solid wedge  
Integral seat  
Threaded x hose thread w/ cap  
and chain connection  
MSS SP-80  
½" - 1½"



**⚠ PF-113**  
200 psi CWP  
200 psi at 250°F  
Bronze body  
Non-rising stem  
HDWL malleable iron  
Screw-in bonnet  
Solid wedge  
Integral seat  
Female press  
end connections  
MSS SP-80  
½" - 2"



**⚠ ⚗ PC-113-LF  
LEAD FREE**  
250† psi CWP  
180 psi at 200°F  
Bronze body  
Non-rising stem  
HDWL malleable iron  
Screw-in bonnet  
Solid wedge  
Integral seat  
Female press  
end connections  
Press ends  
leak detection  
MSS SP-139  
NSF/ANSI 372  
NFS/ANSI 61-8  
½" - 3"

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

LEAD-FREE: Weighted average lead content ≤ 0.25%  
†200 psi for 2 ½" and 3"



**T-124**



Class 125  
Bronze body  
Rising stem  
HDWL malleable iron  
Union bonnet  
Solid wedge  
Integral seat  
Threaded connection  
MSS SP-80  
¼" - 3"



**T-131**



Class 150  
Bronze body  
Rising stem  
HDWL malleable iron  
Screw-in bonnet  
Solid wedge  
Integral seat  
Threaded connection  
MSS SP-80  
¼" - 3"



**T-133**



Class 150  
Bronze body  
Non-rising stem  
HDWL malleable iron  
Screw-in bonnet  
Solid wedge  
Integral seat  
Threaded connection  
MSS SP-80  
¼" - 3"



**T/S-134**



Class 150  
Bronze body  
Rising stem  
HDWL malleable iron  
Union bonnet  
Solid wedge  
Integral seat  
Threaded or  
solder connection  
MSS SP-80  
¼" - 3"



**T/S-134**



Class 150  
Bronze body  
Rising stem  
HDWL aluminum  
Bolted bonnet  
Solid wedge  
Integral seat  
Threaded or  
solder connection  
MSS SP-80  
4"



**T/S-136**



Class 150  
Bronze body  
Non-rising stem  
HDWL malleable iron  
Union bonnet  
Solid (¼" - 2") or  
Split (2 ½" - 3") wedge  
Integral seat  
Threaded or  
solder connection  
MSS SP-80  
¼" - 3"



**T/S-136**



Class 150  
Bronze body  
Non-rising stem  
HDWL aluminum  
Bolted bonnet  
Split wedge  
Integral seat  
Threaded or  
solder connection  
MSS SP-80  
4"



**T-154-A**



Class 200  
Bronze body  
Rising stem  
HDWL malleable iron  
Union Bonnet  
Solid alloy wedge  
Integral seat  
Threaded connection  
MSS SP-80  
¼" - 2"



**T-174-SS/A**



Class 300  
Bronze body  
Rising stem  
HDWL malleable iron  
Union bonnet  
Solid bronze or copper  
nickel alloy wedge  
Bronze integral  
or SS seat  
Threaded connection  
MSS SP-80  
¼" - 2"



**T-176-SS/A**



Class 300  
Bronze body  
Non-rising stem  
HDWL malleable iron  
Union bonnet  
Solid bronze or  
copper nickel alloy wedge  
Bronze integral  
or SS seat  
Threaded connection  
MSS SP-80  
¼" - 2"



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**KT-65-UL**



Fire protection  
175 psi WWP  
Bronze body  
Buna-N disc  
Screw-in bonnet  
Integral seat  
Threaded connection  
UL 258 listed trim & drain  
1/4" - 1"



**KT-211-W-UL**



Fire protection  
175 psi WWP  
Bronze body  
Buna-N disc  
Integral seat  
Threaded connection  
MSS SP-80  
UL 258 listed trim & drain  
1 1/4" - 3"



**T/S-211-B/Y**



Class 125  
Bronze body  
HDWL malleable iron  
Screw-in bonnet  
Bronze or PTFE disc  
Integral seat  
Threaded or solder connection  
MSS SP-80  
1/8" - 3"



**PF-211-Y**



200 psi CWP  
200 psi at 250°F  
Bronze body  
HDWL malleable iron  
Screw-in bonnet  
PTFE disc  
Integral seat  
Female press end connections  
MSS SP-80  
1/2" - 2"



**T/S-235-Y**



Class 150  
Bronze body  
HDWL malleable iron  
Union bonnet  
PTFE disc  
Integral seat  
Threaded or solder connection  
MSS SP-80  
1/8" - 3"



**T-256-AP**



Class 200  
Bronze body  
HDWL malleable iron  
Union bonnet  
SS plug disc  
SS mounted seat  
Threaded connection  
MSS SP-80  
1/4" - 3"



**T-275-B/Y**



Class 300  
Bronze body  
HDWL malleable iron  
Union bonnet  
Bronze or PTFE disc  
Integral seat  
Threaded connection  
MSS SP-80  
1/8" - 3"



**T-276-AP**



Class 300  
Bronze body  
HDWL malleable iron  
Union bonnet  
SS plug disc  
SS mounted seat  
Threaded connection  
MSS SP-80  
1/4" - 3"



**KT-291-W3**



Fire protection  
400 psi WWP  
Bronze side outlet globe valves  
Buna-N disc  
Integral seat  
Threaded connection  
1/4"



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**KT-67-UL**



Fire protection  
175 psi WWP  
Bronze body  
Screw-over bonnet  
Buna-N disc  
Integral seat  
Threaded connection  
UL 258 listed trim & drain  
½" - 1"



**T-301-W**



Fire protection  
175 psi WWP  
Bronze body  
HDWL aluminum  
Screw-in bonnet  
Buna-N (1 ¼"-2") or  
PTFE (2 ½"-3") disc  
Integral seat  
Threaded connection  
MSS SP-80  
UL/ULC listed trim & drain  
1 ¼" - 3"



**T/S-311-Y**



Class 125  
Bronze body  
HDWL malleable iron  
Screw-in bonnet  
PTFE disc  
Integral seat  
Threaded or solder connection  
MSS SP-80  
¼" - 3"



**PF-311-Y**



200 psi CWP  
200 psi at 250°F  
Bronze body  
HDWL malleable iron  
Screw-In bonnet  
PTFE disc  
Integral seat  
Female press end connections  
MSS SP-80  
½" - 2"



**T-331-HC**



Fire protection  
300 psi WWP  
Bronze body  
HDWL malleable iron  
Screw-in bonnet  
Rubber disc  
Integral seat  
Threaded x ANHF w/ cap  
and chain connection  
MSS SP-80, UL 668, FM  
2 ½"



**T-335-Y**



Class 150  
Bronze body  
HDWL malleable iron  
Union bonnet  
PTFE disc  
Integral seat  
Threaded connection  
MSS SP-80  
⅛" - 3"



**T-375-B**



Class 300  
Bronze body  
HDWL malleable iron  
Union bonnet  
Bronze disc  
Integral seat  
Threaded connection  
MSS SP-80  
¼" - 3"



**T-376-AP**



Class 300  
Bronze body  
HDWL malleable iron  
Union bonnet  
SS plug disc  
SS mounted seat  
Threaded connection  
MSS SP-80  
¼" - 2"



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**KT-403-W**



Fire protection  
Horizontal swing check  
200 psi WWP  
Bronze body  
Buna-N disc ½" - 2"  
PTFE disc 2 ½" - 3"  
Integral seat  
Threaded connection  
MSS SP-80  
½" - 3"



**T/S-413-B/Y/W/V**



Horizontal swing check  
Class 125  
Bronze body  
Bronze, PTFE, Buna-N or  
FKM disc  
Integral seat  
Threaded or solder connection  
MSS SP-80  
½" - 2"



**T/S-413-Y-LF**  
**LEAD FREE**



200 psi CWP  
100 psi at 300°F  
Bronze body  
Horizontal swing check  
Y-pattern  
PTFE disc  
Integral seat  
Threaded or solder connection  
MSS SP-139  
NSF/ANSI 372, NSF/ANSI 61-8  
¼" - 2"



**PC-413-Y-LF**  
**LEAD FREE**



Horizontal swing check  
200 psi CWP  
100 psi at 250°F  
Bronze body  
Y-pattern  
PTFE disc  
Female press end connections  
MSS SP-139  
NSF/ANSI-61-8, NSF/ANSI-372  
½" - 2"



**PF-413-Y**



Horizontal swing check  
200 psi CWP  
200 psi at 250°F  
Bronze body  
PTFE disc  
Integral seat  
Female press end connections  
MSS SP-80  
½" - 2"



**T/S-433-B/Y**



Horizontal swing check  
Class 150  
Bronze body  
Bronze or PTFE disc  
Integral seat  
Threaded or solder connection  
MSS SP-80  
¼" - 3"



**S-433-B**



Horizontal swing check  
Class 150  
Bronze body  
Bronze disc  
Integral seat  
Bolted bonnet  
Solder connection  
MSS SP-80  
4"



**T-453-B**



Horizontal swing check  
Class 200  
Bronze body  
Bronze disc  
Integral seat  
Threaded connection  
MSS SP-80  
¼" - 3"



**T-473-B/Y**



Horizontal swing check  
Class 300  
Bronze body  
Bronze or PTFE disc  
Integral seat  
Threaded connection  
MSS SP-80  
¼" - 2"



**T/S-480-Y**



Inline lift type check  
Class 125  
Bronze body  
Buna-N or PTFE disc  
Integral seat  
Threaded or solder connection  
⅜" - 2"



**T/S-480-Y-LF**  
**LEAD FREE**



250 psi CWP  
100 psi at 300°F  
Bronze body  
Inline lift type check  
Spring actuated  
PTFE disc  
Integral seat  
Threaded or solder connection  
NSF/ANSI 372, NSF/ANSI 61-8  
½" - 2"



**PF-480-Y**



Inline lift type check  
200 psi CWP  
200 psi at 250°F  
Bronze body  
Female press end connection  
½" - 2"



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LEAD-FREE: Weighted average lead content ≤ 0.25%



**F-607-OTS**



175 psi WWP fire protection  
Cast iron body  
OS&Y  
HDWL cast iron  
Bolted bonnet  
Solid wedge  
Bronze mounted seat  
Flanged connection  
MSS SP-70, UL/ULC, FM  
2 ½" - 12"



**F-607-RWS**



**LEAD FREE**

300 psi WWP fire protection  
Ductile iron body  
OS&Y  
HDWL ductile iron  
Bolted bonnet  
EPDM resilient wedge  
Flanged connection  
NSF/ANSI 372/61  
UL/ULC, FM  
AWWA  
2 ½" - 12"



**M/F-609**



175 psi WWP  
Fire protection indicator  
Post valve  
Cast iron body  
Non-rising stem  
C.I. square operating nut  
Bolted bonnet  
Solid wedge  
Bronze mounted seat  
Flanged or M.J. connection  
UL/ULC, FM  
4" - 12"



**M/F-609-RWS**



**LEAD FREE**

300 psi WWP  
Fire protection indicator  
Post valve  
Ductile iron body  
Non-rising stem  
C.I. square operating nut  
Bolted bonnet  
EPDM resilient wedge  
Flanged or M.J. connection  
UL/ULC, FM  
AWWA  
NSF/ANSI 372/61  
4" - 12"



**F-617-O/ON**



**T-617-O/ON**

Class 125  
Cast iron body  
OS&Y, HDWL cast iron  
Bolted bonnet  
Bronze trim or all iron trim  
2" - 8" flanged & threaded  
2" - 24" flanged  
MSS SP-70



**F/T-619-N/SON**



Class 125  
Cast iron body  
Non-rising stem  
HDWL cast iron or square  
Operating nut (SON)  
Bolted bonnet  
Bronze trim or all iron trim  
Flanged 2" - 16"  
Threaded 2" - 4"  
MSS SP-70



**F/MJ-619-RWS/SON**



**LEAD FREE**

300 psi CWP  
Cast iron body  
Non-rising stem  
HDWL ductile iron or C.I. square  
Operating nut  
Bolted bonnet  
EPDM resilient wedge  
Flanged or mechanical  
Joint connection  
NSF/ANSI 372/61  
AWWA  
2" - 12"



**F-667-O**



Class 250  
Cast iron body  
OS&Y  
HDWL cast iron  
Bolted bonnet  
Solid wedge  
Bronze mounted seat  
Flanged connection  
MSS SP-70  
2" - 12"



**F-669**



Class 250  
Cast iron body  
Non-rising stem  
HDWL cast iron  
Bolted bonnet  
Solid wedge  
Bronze mounted seat  
Flanged connection  
MSS SP-70  
2" - 12"



**F-697-O**



300 psi WWP  
Fire protection  
Cast iron body  
OS&Y  
HDWL cast iron  
Bolted bonnet  
Solid wedge  
Bronze mounted seat  
Flanged connection  
MSS SP-70, UL, FM  
2 ½" - 10"



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LEAD-FREE: Weighted average lead content ≤ 0.25%



**F-718-B/N**



Class 125  
Cast iron body  
HDWL cast iron  
Bolted bonnet  
Bronze or C.I. disc  
Bronze or C.I. mounted seat  
Flanged connection  
MSS SP-85  
2" - 10"



**F-768-B**



Class 250  
Cast iron body  
HDWL cast iron  
Bolted bonnet  
Bronze disc  
Bronze mounted seat  
Flanged connection  
MSS SP-85  
2" - 8"



**F-818-B**



Class 125  
Cast iron body  
HDWL cast iron  
Bolted bonnet  
Bronze disc  
Bronze mounted seat  
Flanged connection  
MSS SP-85  
2" - 8"

## Automatic Steam Stop Check Valve

NIBCO® steam stop check valve (F869B) is specifically designed for systems with boilers used in tandem.

**F-869-B**

Class 250  
Automatic stop check  
Cast iron body  
HDWL cast iron  
Bolted bonnet  
Bronze disc  
Bronze mounted seat  
Flanged connection  
MSS SP-85  
2 1/2" - 8"



The ASME B31, pressure piping code, requires two stop valves, preferably one stop-check valve closest to the boiler and one closer to the header, when a boiler is piped into a common header.

The NIBCO stop-check combines an angle stop valve with an internal automatic check valve. The stem is not connected to the disc; allowing the disc to float freely when the stem is in the open position. A piston attached to the disc prevents chattering and slamming due to pressures changes. The stem in the closed position holds the disc closed.

A differential pressure of only 0.75 psi will open the disc-piston assembly but it will not hold it open. There is no stem to hold the assembly in the open position; the valve relies on the output of the boiler. For this reason, the size of the stop-check valve is determined by the working output of the boiler and has no relationship to the size of the piping. Refer to the Flow Rate table in the iron globe valve section of the NIBCO Bronze and Iron Valve catalog. (Install in vertical position only.)



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**KG-900-W-LF**  
**LEAD FREE**



Fire protection  
Twin disc silent check  
250 psi WWP  
Ductile iron body  
Bronze disc  
Buna-N seat  
Grooved connection  
NSF 372  
ANSI/AWWA C606  
UL/ULC, FM  
2½" - 12"



**KW-900-W-LF**  
**LEAD FREE**



Fire protection  
Twin disc silent check  
250 psi WWP 2½" - 12"  
150 psi WWP 14" - 16"  
Cast iron body  
Bronze disc  
Buna-N seat  
Wafer connection  
NSF 372  
UL/ULC 2½" - 12"  
FM 2½" - 16"



**F-908-W**



Fire protection  
Horizontal swing check  
175 WWP  
Cast iron body  
Rubber disc  
Bronze mounted seat  
Flanged connection  
MSS SP-71  
UL/ULC, FM  
2½" - 12"



**F-910-LF, F-960-LF**  
**LEAD FREE**



Silent check  
Class 125/250  
Cast iron body  
Bronze disc  
Buna-N bonded to bronze seat  
Flanged Connection  
Class 125 FM Approved  
MSS SP-125  
2½" - 36"



**W-910-LF, W-960-LF**  
**LEAD FREE**



Silent check  
Class 125/250  
Cast iron body  
Bronze disc  
Buna-N bonded to bronze seat  
Wafer connection  
MSS SP-125  
FM approved  
(2" - 6" dual class ratings  
125 lb. and 250 lb.)  
2" - 10"



**G-917-W**



Spring actuated check  
250 psi WWP  
Cast iron body  
EPDM disc  
Bronze seat  
Grooved connection  
ANSI/AWWA C606 for steel pipe  
UL/ULC, FM, NYC M.E.A.  
2½" - 6"



**F/T-918-B/N**



Horizontal swing check  
Class 125  
Cast iron body  
Bronze or C.I. disc  
Bronze or C.I. mounted seat  
Flanged 2" - 12"  
Threaded 2" - 4"  
MSS SP-71 Type 1



**G/W-920-W-LF**  
**LEAD FREE**



(Grooved Shown)

Twin disc silent check  
Wafer 250/150 psi CWP  
Grooved 250 psi CWP  
Cast iron body  
Bronze disc  
Buna-N seat  
Wafer/grooved connection  
NSF/ANSI 372  
NSF/ANSI 61-8  
2" - 24" wafer  
2" - 12" grooved



**F-968-B**



Horizontal swing check  
Class 250  
Cast iron body  
Bronze disc  
Bronze mounted seat  
Flanged connection  
MSS SP-71  
2½" - 6"



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LEAD-FREE: Weighted average lead content ≤ 0.25%

**F-637-31**



Class 150 gate  
Ductile iron body  
OS & Y  
HDWL cast iron 2"-12"  
Steel 14"-24"  
Bolted bonnet  
Solid wedge  
Bronze mounted trim  
Raised face flanged  
connection  
MSS SP-128  
2"- 24"

**F-637-33  
LEAD FREE**



Class 150 gate  
Ductile iron body  
OS & Y  
HDWL cast iron 2"-12"  
Steel 14"-24"  
Bolted bonnet  
Solid wedge  
SS mounted trim  
Raised face flanged connection  
MSS SP-128  
NSF/ANSI 372  
NSF/ANSI 61-8  
2"- 24"

**F-639-31**



Class 150 gate  
Ductile iron body  
Non-rising stem  
HDWL cast iron  
Bolted bonnet  
Solid wedge  
Bronze mounted trim  
Raised face flanged  
connection  
MSS SP-128  
2"- 16"

**F-639-33  
LEAD FREE**



Class 150 gate  
Ductile iron body  
Non-rising stem  
HDWL cast iron  
Bolted bonnet  
Solid wedge  
SS mounted trim  
Raised face flanged  
connection  
MSS SP-128  
2"- 16"

**F-738-31**



Class 150 globe  
Ductile iron body  
HDWL cast iron  
Bolted bonnet  
Bronze disc  
Bronze mounted seat  
Raised face flanged  
connection  
MSS SP-85  
2"- 10"

**F-838-31**



Class 150 angle  
Ductile iron body  
HDWL cast iron  
Bolted bonnet  
Bronze disc  
Bronze mounted seat  
Raised face flanged  
connection  
MSS SP-85  
2"- 8"

**F-938-31**



Class 150 check  
Horizontal swing check  
Ductile iron body  
Bronze mounted trim  
Raised face flanged  
connection  
MSS SP-136  
2"- 12"

**F-938-33  
LEAD FREE**



Class 150 check  
Horizontal swing check  
Ductile iron body  
SS mounted trim  
Raised face flanged  
connection  
MSS SP-136  
NSF/ANSI 372  
NSF/ANSI 61  
2"- 12"

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

## Ductile Iron: Economical Choice For Superior Performance

Gray iron, ASTM A 126 Class B, has been used in water, steam and process piping for over a century and has certainly earned its reputation for strength, reliability and economy. The strength (tensile) is satisfactory for liquid and low pressure compressed fluids such as steam; but iron has no flexibility (yield) to absorb severe physical impact, hydraulic or thermal shock. This lack of flexibility is the result of carbon in flake form in the iron. When the tensile strength of iron is exceeded, carbon flakes spread the stress cracks, resulting in the iron shattering.

Ductile iron, ASTM A 395, has a yield approaching that of carbon steel. This yield is the result of turning the carbon flakes into carbon spheroids. The wall of a ductile iron valve can absorb the shock by stretching. The valve may be distorted but it does not shatter. Even if the tensile (almost double that of iron) is exceeded, the stretched wall will rip, not shatter.

Ductile iron is the ideal and economical solution to higher steam pressures up to 150 psi or where severe shock or other application stresses are present.

|                     | Ductile Iron<br>ASTM A 395<br>Grade 60-40-18 | Cast Iron<br>ASTM A 126<br>Class B | Cast Steel<br>ASTM A 216<br>Grade WCB |
|---------------------|----------------------------------------------|------------------------------------|---------------------------------------|
| <b>Tensile psi</b>  | 60,000                                       | 31,000                             | 70,000                                |
| <b>Yield psi</b>    | 40,000                                       | 0                                  | 36,000                                |
| <b>Elongation %</b> | 18                                           | 0                                  | 22                                    |

LEAD-FREE: Weighted average lead content ≤ 0.25%

# Chemtrol® Valves

With more than 60 years of experience in thermoplastics, NIBCO offers a full line of Chemtrol valves, fittings and pipe unsurpassed in performance and longevity. Chemtrol thermoplastics are dependable and work in the most demanding environments. True Union ball valves bring together strength and durability in a premium line of chemical- and corrosion-resistant ball valves that withstand harsh industrial conditions. Chemtrol products are used in commercial construction, water and waste water treatment, metal and chemical processing, food and pharmaceuticals, mining, power plants, oil refineries and more.

## LEAD FREE

The following Chemtrol valves are made of thermoplastics and do not contain lead.



### U45TB, F45TB LEAD FREE

True union ball valve  
PVC schedule 80  
250 psi at 73°F ½" - 2"  
150 psi at 73°F 3" - 6"  
Socket, threaded or flanged  
PTFE seats  
FKM or EPDM o-rings  
NSF 14 & 61  
ASTM F1970  
½" - 6"



### W45BG LEAD FREE

Model C wafer butterfly valve  
PVC schedule 80  
150 psi at 73°F  
Lever handle or gear operator  
EPDM encapsulated disc  
SS shaft and PTFE-SS bushings  
EPDM face o-rings  
ANSI/NSF 61  
2" - 10"



### U51TB, F51TB LEAD FREE

True union ball valve  
CPVC schedule 80  
250 psi at 73°F ½" - 2"  
150 psi at 73°F 3" - 6"  
Socket, threaded or flanged  
PTFE seats  
FKM or EPDM o-rings  
NSF 14 & 61  
ASTM F1970  
½" - 6"



### U45BC, U51BC LEAD FREE

True union ball check valve  
PVC schedule 80  
CPVC schedule 80  
150 psi at 73°F  
Socket, threaded or flanged  
FKM or EPDM o-rings  
NSF 14 & 61  
3" - 6"

LEAD-FREE: Weighted average lead content ≤ 0.25%



**S65TB, S66TB**  
**LEAD FREE**

Model C true union ball valve  
Kynar® PVDF schedule 80  
Natural or red pigmented  
150 psi at 73°F  
Socket or threaded  
PTFE seats  
FKM o-rings  
½" - 4"



**S61TB, S62TB**  
**LEAD FREE**

Model C true union ball valve  
Polypropylene (PP) schedule 80  
Natural or black pigmented  
150 psi at 73°F  
Socket or threaded  
PTFE seats  
FKM o-rings  
½" - 4"



**Ball Check Valves**  
**LEAD FREE**

Natural or black PP  
Natural or red Kynar® PVDF  
150 psi at 73°F  
Socket or threaded  
PTFE seats  
FKM or EPDM o-rings  
½" - 4"

## Chemtrol® PP and PVDF Socket Fusion Joining



Polypropylene (PP) is a member of the polyolefin family of plastics and may have the most versatile chemical resistance considering the fact that there are no known solvents for PP. Kynar PVDF is a tough, abrasion-resistant fluorocarbon material that has a maximum service temperature of 280°F. NIBCO manufactures Chemtrol socket fittings and pipe (with Schedule 80 piping dimensions) that must be heat fused together. These products are available in sizes ½" through 6".

Equipment to heat fuse PP and PVDF includes bench-mount machines for prefabrication assembly, handheld tools for more versatility, and all the accessories required for measuring, holding, and heating Chemtrol PP and PVDF products. Only the Chemtrol heat face sets are acceptable for use with Chemtrol pressure pipe and fittings. View the installation instructions found in the *Chemtrol Thermoplastic Piping Technical Manual* that is available online at [nibco.com](http://nibco.com).

Check out the "How to Join Chemtrol PP and PVDF Pipe and Fittings" video on the NIBCO YouTube channel: [youtube.com/NIBCOVideos](http://youtube.com/NIBCOVideos).



Kynar® is a registered trademark of Arkema, Inc.  
LEAD-FREE: Weighted average lead content ≤ 0.25%

## Not All Alloys are Created Equal: The Case for Silicon-Based Lead-free Alloys

For over two decades, NIBCO has been at the forefront of development and commercialization of lead-free plumbing products. When NIBCO introduced its first generation of HydraPure® lead-free products in 1992, NIBCO utilized the copper-bismuth alloy C89844. We discovered first hand that replacing lead with bismuth and other constituents not only affects manufacturability and product installation, but also service life. Similar alloys, including the copper-bismuth alloys C89833 and C89836, are still being used by many plumbing valve and fitting manufacturers today. However, our level of expertise with the research, development and testing of lead-free alloys, as well as production methods and quality controls, has given us a better understanding of the many technical pitfalls exhibited by bismuth-based alloys.

Today, NIBCO HydraPure lead-free valves, fittings and flanges are manufactured from the high quality, Silicon-based Performance Bronze® family of copper alloys (C87600, C87850, and C69300), which exhibit mechanical properties far exceeding traditional plumbing alloys.

| Alloy Comparison - Typical Mechanical Properties (Room Temperature) |                            |        |                                 |                      |              |
|---------------------------------------------------------------------|----------------------------|--------|---------------------------------|----------------------|--------------|
| Alloy                                                               | Description                | % Lead | Ultimate Tensile Strength (psi) | Yield Strength (psi) | % Elongation |
| C84400                                                              | Semi-Red Bronze            | 7%     | 34,000                          | 15,000               | 26           |
| C92200                                                              | Navy Steam Bronze          | 1.50%  | 34,000                          | 16,000               | 22           |
| C89833                                                              | Bismuth Based LF alloy     | >.25%  | 37,000                          | 17,000               | 28           |
| C89836                                                              | Bismuth Based LF alloy     | >.25%  | 33,000                          | 15,000               | 20           |
| C87600                                                              | Silicon Performance Bronze | >.25%  | 66,000                          | 32,000               | 20           |
| C87850/<br>C69300                                                   | Silicon Performance Bronze | >.25%  | 63,000                          | 26,000               | 25           |

### Corrosion Resistance

Corrosion as applied to bronze/brass is primarily related to dezincification and stress cracking. NIBCO HydraPure Silicon Performance Bronze valves and fittings have achieved the highest level of success in the following standardized tests:

Dezincification resistance – BS EN ISO 6506: 1995 corrosion of metal alloys

Stress corrosion cracking – ISO 6957: 1988 (E) copper alloys

### 3rd Party Reassurance

NIBCO HydraPure valve and fitting products are certified by the following listings which satisfy the requirements of the Safe Drinking Water Act:

NSF/ANSI 61-8 commercial hot 180°F (includes annex F and G)

NSF/ANSI 372



LEAD-FREE: Weighted average lead content ≤ 0.25%

## 3<sup>rd</sup>-Party Certified Lead-free Specified Products

NIBCO third-party certified lead-free valves are designed specifically for use in systems that deliver water for human consumption; this includes commercial as well as residential construction. Ball, gate and check valves are manufactured in NIBCO ISO 9001-registered facilities.



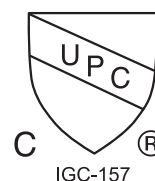
Lead-free bronze valves are manufactured from HydraPure silicon Performance Bronze®. Benefits of the Performance Bronze alloy include:

- 3rd-party tested corrosion resistant (dezincification and stress cracking)
- NSF/ANSI 61-8 (includes annex F & G)
- NSF/ANSI 372
- Meet or exceed MSS standards
- 5-year, 125% warranty
- Easy to install
- Easy to identify as lead free
  - White handles
  - HydraPure double oval and "Si" cast into valve body



NSF/ANSI 61  
NSF/ANSI 372

Certified Lead-free by  
Truesdail Labs to NSF/  
ANSI 61-8 (includes  
annex F  
and G) and  
NSF/ANSI 372



Applies to 585-LF  
series ball valves  
only

NIBCO lead-free iron valves are certified to NSF/ANSI 372.



Certified Lead-free  
by IAPMO R&T  
to NSF/ANSI 372



Certified Lead-free by WQA  
to NSF/ANSI 372

LEAD-FREE: Weighted average lead content ≤ 0.25%



**T/S-580-80-LF**

**T/S-580-66-LF**

**LEAD FREE**



600 psi CWP  
100 psi at 300°F  
2-piece bronze body  
Conventional port  
Bronze or SS stem  
Brass or SS ball  
Threaded or solder connection  
MSS SP-145  
NSF/ANSI 372, NFS/ANSI 61-8  
IAPMO/ANSI Z1157 (IGC-157)  
1 1/4" - 3"



**T/S-585-80-LF**

**T/S-585-66-LF**

**LEAD FREE**



600 psi CWP  
100 psi at 300°F  
2-piece bronze body  
Full port  
Bronze or SS stem  
Brass or SS ball  
Threaded or solder connection  
MSS SP-145  
NSF/ANSI 372, NFS/ANSI 61-8  
IAPMO/ANSI Z1157 (IGC-157)  
1/4" - 3"



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

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

**LEAD FREE**



600 psi CWP  
2-piece bronze body  
Full port  
Bronze or SS stem  
Brass or SS ball  
Threaded or solder connection  
x 3/4" hose connection  
MSS SP-145  
NSF/ANSI 372, NSF/ANSI 61-9  
IAPMO/ANSI Z1157 (IGC-157)  
1/2" and 3/4"  
Hose cap and chain



**PC-585-80-LF**

**PC-585-66-LF**

**LEAD FREE**



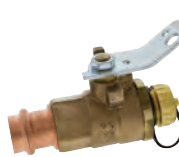
250 psi CWP  
225 psi at 250°F  
2-piece bronze body  
Full port  
Bronze or SS stem  
Brass or SS ball  
Female press end connection  
MSS SP-145  
NSF/ANSI 372, NFS/ANSI 61-8  
IAPMO/ANSI Z1157 (IGC-157)  
1/2" - 3"



**PC-585-80-LF-HC**

**PC-585-66-LF-HC**

**LEAD FREE**



250 psi CWP  
2-piece bronze body  
Full port  
Bronze or SS stem  
Brass or SS ball  
Female press end connection  
x 3/4" hose connection  
MSS SP-145  
NSF/ANSI 372, NFS/ANSI 61-9  
IAPMO/ANSI Z1157 (IGC-157)  
1/2" and 3/4"  
Hose cap and chain



**PC-595-Y/R-LF**

**PC-595-Y/R-66-LF**

**LEAD FREE**



250 psi CWP/225 psi at 250°F  
3-piece bronze body  
Full port, blowout-proof stem  
Bronze or SS stem  
Brass or SS ball  
PTFE or RPTFE Seats  
Press end connections  
Commercial Hot 180°F  
NSF/ANSI 372 SP-110/145  
NSF/ANSI/CAN 61-2018  
1/2" - 2 1/2"



**T/S-595-Y-LF**

**T/S-595-Y-66-LF**

**LEAD FREE**



600 psi CWP  
100 psi at 300°F  
3-piece bronze body  
Full port  
Bronze or SS stem  
Brass or SS ball  
Threaded or solder connection  
MSS SP-145  
NSF/ANSI 372, NFS/ANSI 61-8  
1/4" - 2 1/2"



**PC-111-LF**

**LEAD FREE**



250<sup>†</sup> psi CWP  
180 psi at 200°F  
Bronze body  
Rising stem  
HDWL malleable iron  
Screw-in bonnet  
Solid wedge  
Integral seat  
Female press end connections  
Press ends leak detection  
MSS SP-139  
NSF/ANSI 372  
NFS/ANSI 61-8  
1/2" - 3"



**T/S-111-LF**

**LEAD FREE**



300 psi CWP  
100 psi at 300°F  
Bronze body  
Rising stem  
HDWL malleable iron  
Screw-in bonnet  
Solid wedge  
Integral seat  
Threaded or solder connection  
MSS SP-139  
NSF/ANSI 372  
NFS/ANSI 61-8  
1/4" - 3" (T)  
1/2" - 2" (S)



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LEAD-FREE: Weighted average lead content ≤ 0.25%

<sup>†</sup>200 psi for 2 1/2" and 3"



**PC-113-LF  
LEAD FREE**



250<sup>+</sup> psi CWP  
180 psi at 200°F  
Bronze body  
Non-rising stem  
HDWL malleable iron  
Screw-in bonnet  
Solid wedge  
Integral seat  
Female press end connections  
Press ends leak detection  
MSS SP-139  
NSF/ANSI 372  
NFS/ANSI 61-8  
½" - 3"



**T/S-113-LF  
LEAD FREE**



300 psi CWP  
100 psi at 300°F  
Bronze body  
Non-rising stem  
HDWL malleable iron  
Screw-in bonnet  
Solid wedge  
Integral seat  
Threaded or solder connection  
MSS SP-139  
NSF/ANSI 372  
NFS/ANSI 61-8  
¼" - 3" (T)  
½" - 2" (S)



**T/S-413-LF  
LEAD FREE**



200 psi CWP  
100 psi at 300°F  
Bronze body  
Horizontal swing check  
Y-pattern  
PTFE disc  
Integral seat  
Threaded or solder connection  
MSS SP-139  
NSF/ANSI 372  
NFS/ANSI 61-8  
¼" - 2"



**T/S-480-Y-LF  
LEAD FREE**



250 psi CWP  
100 psi at 300°F  
Bronze body  
Inline lift type check  
Spring actuated  
PTFE disc  
Integral seat  
Threaded or solder connection  
MSS SP-139  
NSF/ANSI 372  
NFS/ANSI 61-8  
½" - 2"



**LD-1000 SERIES  
LEAD FREE**



150 psi CWP  
Lug style connection  
Ductile iron body  
1-piece SS stem (14"-24")  
2-piece SS stem (30"-48")  
Aluminum bronze,  
Ductile iron or SS disc  
EPDM or Buna-N cartridge  
Liner w/ phenolic backing  
Pinned stem drive  
MSS SP-67  
NSF/ANSI 372  
14" - 24"



**LD/WD-2000 SERIES  
LEAD FREE**



200 psi CWP  
Lug or wafer style connection  
Ductile iron body  
1-piece SS stem  
Aluminum bronze disc  
EPDM or Buna-N  
molded-in liner  
Geometric stem drive  
MSS SP-67  
US Coast Guard "Category A"  
NSF/ANSI 372  
2" - 12"



**GD-4765N  
LEAD FREE**



300 psi CWP  
Grooved mechanical style  
Ductile iron polyamide coated body  
EPDM coated disc  
Cold form stem drive  
MSS SP-67  
NSF/ANSI 372  
NFS/ANSI 61-8  
2" - 12"



**F-607-RWS  
LEAD FREE**



300 psi WWP fire protection  
Ductile iron body  
OS&Y  
HDWL ductile iron  
Bolted bonnet  
EPDM resilient wedge  
Flanged connection  
NSF/ANSI 372  
UL/ULC, FM  
AWWA  
2 ½" - 12"



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LEAD-FREE: Weighted average lead content ≤ 0.25%



**F/MJ-619-RWS/SON**

**LEAD FREE**



300 psi CWP  
Cast iron body  
Non-rising stem  
HDWL ductile iron or C.I. square  
Operating nut  
Bolted bonnet  
EPDM resilient wedge  
Flanged or mechanical  
Joint connection  
NSF/ANSI 372  
AWWA  
2" - 12"



**KW-900-W-LF**

**LEAD FREE**



Fire protection  
Twin disc silent check  
250 psi WWP 2 1/2" - 12"  
150 psi WWP 14" - 16"  
Cast iron body  
Bronze disc  
Buna-N seat  
Wafer connection  
NSF/ANSI 372  
NSF/ANSI 61-8  
UL/ULC 2 1/2" - 12"  
FM 2 1/2" - 16"



**KG-900-W-LF**

**LEAD FREE**



Fire protection  
Twin disc silent check  
250 psi WWP  
Ductile iron body  
Bronze disc  
Buna-N seat  
Grooved connection  
NSF/ANSI 372  
NSF/ANSI 61-8  
ANSI/AWWA C606  
UL/ULC, FM  
2 1/2" - 12"



**G/W-920-W-LF**

**LEAD FREE**



(Grooved Shown)

Twin disc silent check  
Wafer 250/150 psi CWP  
Grooved 250 psi CWP  
Cast iron body  
Bronze disc  
Buna-N seat  
Wafer or grooved connection  
NSF/ANSI 372  
NSF/ANSI 61-8  
2" - 24" wafer  
2" - 12" grooved



**W-910-LF, W-960-LF**

**LEAD FREE**



Silent check  
Class 125/250  
Cast iron body  
Bronze disc  
Buna-N bonded to bronze seat  
Wafer connection  
MSS SP-125  
NSF/ANSI 372  
FM approved  
(2" - 6" dual class ratings  
125 lb. and 250 lb.)  
2" - 10"



**F-910-LF, F-960-LF**

**LEAD FREE**



Silent check  
Class 125/250  
Cast iron body  
Bronze disc  
Buna-N bonded to bronze seat  
Flanged connection  
MSS SP-125  
NSF/ANSI 372  
NSF/ANSI 61-8  
Class 125 FM approved  
2 1/2" - 36"



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

LEAD-FREE: Weighted average lead content ≤ 0.25%



THE **ONLY WAY** TO ISOLATE  
**CIRCULATOR PUMPS**

The Webstone® Isolator® ball valves have revolutionized the installation of circulator pumps. Our original uni-flange design has evolved into the largest flanged ball valve program in the industry today. No matter what your installation requires, there is an Isolator to meet your needs.

## Why Engineers Specify Webstone Isolator Ball Valves:

- Allows virtually no air into system upon pump replacement
- Prevents electrolysis, minimizes risks of galvanic corrosion
- Heavy duty forged brass construction, unique uni-body design
- Blowout proof stem
- Conical inlet to minimize turbulence
- Available slotted holes for high velocity pumps
- Replaces a minimum of 3 components, eliminates 2 leak paths and saves 18 minutes of labor
- Available with fixed, rotating or round flanges
- Lead-free options available for use with potable water
- Guaranteed for life



## Fixed Flange



### **The Isolator UniFlange Ball Valve**

Full port forged brass ball valve  
w/ adjustable packing gland, nuts & bolts  
Pressure rating: 600 CWP  
Fits standard & high velocity pumps  
Sizes: ½"-2"

FIP x Flange  
SWT x Flange



### **The Isolator w/ Drain**

Full port forged brass uni-flange ball valve w/  
Hi-Flow hose drain, adjustable packing  
gland, nuts & bolts  
Pressure rating: 600 CWP  
Fits standard & high velocity pumps  
Patented technology  
Sizes: ¾"-2"

FIP x Flange  
SWT x Flange



### **The Isolator Circulator Pump Installation Kit**

Isolator & Isolator w/ Drain & 2 Full-Faced flange gaskets, nuts & bolts  
Pressure rating: 600 CWP  
Fits standard & high velocity pumps  
Patented technology  
Sizes: ¾"-1 ¼"

FIP x Flange  
SWT x Flange



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

## Rotating Flange

- Unique unibody design is preserved
- Fully removable, solid forged brass outer flange secured by snap ring
- 3way ball purges before or after the pump
- 360° rotation offers greater flexibility
- Inner & outer flanges are designed to help prevent problems from over-torquing



### The Isolator® w/ Rotating Flange

Full port forged brass UniFlange ball valve w/ detachable rotating flange, adjustable packing glands, nuts & bolts  
Fits standard & high velocity pumps  
Pressure rating: varies based on connection type, 600 CWP for the valve body  
Sizes: ¾"-2"

FIP x Rotating Flange  
Press x Rotating Flange  
SWT x Rotating Flange



### The Isolator w/ Rotating Flange (Lead-free)

Full port forged brass UniFlange ball valve w/ detachable rotating flange, adjustable packing glands, nuts & bolts  
Fits standard & high velocity pumps  
Pressure rating: varies based on connection type, 600 CWP for the valve body  
Certified to NSF/ANSI 61 & 372  
Sizes: ¾"-2"

Female PPR Metric Socket x Rotating Flange  
Female PPRCT Metric Socket x Rotating Flange  
FIP x Rotating Flange  
SWT x Rotating Flange  
Press x Rotating Flange



### The Isolator w/ Rotating Flange & MultiFunction Drain

Full port forged brass UniFlange ball valve w/ detachable rotating flange, multifunction Hi-Flow hose drain, adjustable packing glands, nuts & bolts  
Fits standard & high velocity pumps  
Pressure rating: varies based on connection type, 600 CWP for the valve body  
Patented technology  
Sizes: ¾"-2"

FIP x Rotating Flange  
Press x Rotating Flange  
SWT x Rotating Flange



### The Isolator w/ Rotating Flange & MultiFunction Drain (Lead-free)

Full port forged brass UniFlange ball valve w/ detachable rotating flange, multifunction Hi-Flow hose drain, adjustable packing glands, nuts & bolts  
Fits standard & high velocity pumps  
Pressure rating: varies based on connection type, 600 CWP for the valve body  
Certified to NSF/ANSI 61 & 372  
Patented technology  
Sizes: ¾"-2"

Female PPR Metric Socket x Rotating Flange  
Female PPRCT Metric Socket x Rotating Flange  
FIP x Rotating Flange  
SWT x Rotating Flange  
Press x Rotating Flange



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LEAD-FREE: Weighted average lead content ≤ 0.25%

**⚠ The Isolator® Circulator Pump Installation Kit**

Isolator Rotating Flange & Isolator w/ rotating flange & drain & 2 FullFaced flange gaskets, nuts & bolts

Fits standard & high velocity pumps

Pressure rating: varies based on connection type, 600 CWP for the valve body

Patented technology

Sizes: ¾" - 1 ¼"

FIP x Rotating Flange

Press x Rotating Flange

SWT x Rotating Flange



**⚠ The Isolator® Circulator Pump Installation Kit (Lead-free)**

Isolator Rotating Flange & Isolator w/ rotating flange & drain & 2 FullFaced flange gaskets, nuts & bolts

Fits standard & high velocity pumps

Pressure rating: varies based on connection type, 600 CWP for the valve body

Certified to NSF/ANSI 61 & 372

Patented technology

Sizes: ¾" - 1 ¼"

FIP x Rotating Flange

SWT x Rotating Flange

**The Isolator Double Flanged Check**

- The easiest way to add a check valve to any pump!
- Two sizes cover all standard Isolator installations.
- Installs between the pump & Isolator Uni-flanged Ball Valve



**⚠ Forged Brass Check Valve w/ Rotating Flange**

Includes one set of mounting bolts & full faced flange gasket

Fits standard & high velocity pumps

Pressure rating: 150 psi @ 200°F

Sizes: fits ¾" to 1 ¼" or 1 ½" to 2" Flange x Rotating Flange

**Round Flange**

**The ISOLATOR®**  
UNI-FLANGE BALL VALVE®  
with **ROUND FLANGE**

Flange features a round shape and bolt patterns specifically designed to accommodate the industry's most popular high efficiency variable speed pumps.



**⚠ The Isolator w/ Round Flange**

Full port forged brass UniFlange ball valve w/ round rotating flange, adjustable packing gland, nuts & bolts

Pressure rating: varies based on connection type, 600 CWP for the valve body.

Sizes: 1 ½" - 2"

FIP x Rotating Flange

Press x Rotating Flange

SWT x Rotating Flange



**⚠ The Isolator w/ Round Flange & Multi-Function Drain**

Full port forged brass UniFlange ball valve w/ round rotating flange, multifunction Hi-Flow hose drain, adjustable packing glands, nuts & bolts

Pressure rating: varies based on connection type, 600 CWP for the valve body

Patented technology

Sizes: 1 ½" - 2"

FIP x Rotating Flange

Press x Rotating Flange

SWT x Rotating Flange



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

LEAD-FREE: Weighted average lead content ≤ 0.25%

# The ISOLATOR® UNI-FLANGE BALL VALVE® **SELECT™** WITH 4-WAY SELECTABLE FLOW PATH



## **The Isolator® Select**

Easily fill, purge, sample or add a pressure gauge right at the pump  
1" side ports enable quicker filling and purging – ideal for Geothermal applications  
Easily direct fluid between 4 available ports & isolate the pump for replacement  
1" Press connection compatible with popular press tools  
Heavy duty forged brass construction  
Blowout proof stem & adjustable packing gland  
Full port forged brass Uni-Flange ball valve  
w/ 4-Way selectable flow path

Plugged FNPT ports,  
Adjustable packing gland, nuts, bolts, & flange gasket  
Fits standard & high velocity pumps  
Max temp: 250 F Max  
Pressure rating: 250 CWP  
Sizes: 1" FIP x Press x Rotating Flange



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# PRO-PAL S E R I E S



Webstone® Pro-Pal® Valves are your best choice for efficient installation and system operation, and for helping to control costs. Pro-Pal Valves combine commonly used components into a single forged brass alternative that will save time and space in any installation. Instead of just building your next piping system, innovate it with Pro-Pal Series Valves.

## Why Engineers Specify Webstone Pro-Pal Valves:

- Heavy duty forged brass construction
- Eliminates multiple fittings
- Results in cleaner looking installations
- Lead-free options available for use with potable water
- Guaranteed for life



Eliminate assemblies needed to isolate & drain any portion of a piped system.  
Replaces 6 components, eliminates 5 leak paths saves 45 minutes of labor.  
Winterize an entire building with simple quarter-turn actions.  
Reversible handle for added versatility.  
Exclusive adjustable flow path allows for draining from either side of the ball.

### Pro-Pal Ball Drain™

Full port forged brass ball valve w/ Hi-Flow hose drain,  
reversible handle & adjustable packing glands  
Pressure rating: varies based on connection type,  
600 CWP for the valve body.  
Patents pending  
Sizes: ½"-2"

FIP  
Press  
Press x FIP  
SWT  
SWT x FIP  
FIP x FIP Union  
Press x FIP Union  
SWT x FIP Union

### Pro-Pal Ball Drain™ (Lead-free)

Full port forged brass ball valve w/ Hi-Flow hose drain,  
reversible handle & adjustable packing glands  
Pressure rating: varies based on connection type,  
600 CWP for the valve body.  
Certified to NSF/ANSI 61 & 372  
Patents pending  
Sizes: ½"-2"

Female PPR Metric Socket  
Female PPRCT Metric Socket  
FIP  
Press  
Press x FIP  
SWT  
SWT x FIP  
FIP x FIP Union  
Press x FIP Union  
SWT x FIP Union

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LEAD-FREE: Weighted average lead content ≤ 0.25%





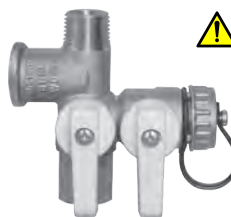
The 3-way ball controls flow between the expansion tank and the system.

Replaces 7 components, eliminates 6 leak paths, saves 54 minutes of labor.

Easily install, isolate, drain & replace any expansion tank.

Quickly connect entire system to the cold water feed.

Ideal for use with webstone air separator.



**Pro-Pal® Expansion Tank Pro Service Valve™**

Full port forged brass ball valve w/ Hi-Flow hose drain  
Pressure rating: 600 CWP  
Sizes: ½" FIP x MIP x FIP x Hose



Simultaneously drain, flush & refill any hydronic, solar, or closed loop system.

Replaces 7 components, eliminates 6 leak paths, saves 54 minutes of labor.

T-pattern flow path quickly and easily prevents the flow between the two hose connections.

Reversible handle for added versatility.



**Pro-Pal Purge & Fill™**

Full port forged brass ball valve w/ (2) Hi-Flow hose drains, reversible handle, & adjustable packing glands  
Pressure rating: varies based on connection type, 600 CWP for the valve body  
Patented technology  
Sizes: ¾" - 1 ½"  
FIP  
Press  
SWT



Ideal for primary/secondary piping in mod-con boiler systems.

Provides precise spacing required for hydraulic separation.

Enables power purging of secondary loops, improving efficiency at system startup.

Full port solid flow channel ensures highest possible flow rate.

Replaces 5 components, eliminates 4 leak paths, saves 36 minutes of labor - however, correct spacing for hydraulic separation cannot be achieved using off-the-shelf components.

The ONLY way to place a valve between closely spaced tees!



**Pro-Pal Purge Tee™**

Full port forged brass ball valve w/ reversible handle & adjustable packing gland  
Pressure rating: varies based on connection type, 600 CWP for the valve body  
Patented technology  
Sizes: 1" - 1 ¼"  
Press  
SWT



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Eliminates assemblies needed for installing drains into a line.

Hi-flow alternative for filling, draining, or venting closed-loop hydronic systems.

Add a garden hose connection to any water source in lines up to 2".

Replaces 2 components, eliminates 1 leak path, saves 9 minutes of labor.

### **Pro-Pal® T-Drain**

Full port forged brass ball valve w/ Hi-Flow hose drain & adjustable packing gland  
Pressure rating: varies based on connection type, 600 CWP for the valve body.  
Certified to NSF/ANSI 61G  
Patented technology  
Sizes: ½"-2"

Press  
SWT



## AIR SEPARATOR

**KNOCKING** PIPES  
ARE **NOT NORMAL**

The Webstone® Air Separator has a unique coalescing medium that captures both micro bubbles and static air from within a hydronic system. Using the Webstone Air Separator to properly vet the system improves efficiency, reduces wear on system components, improves system operation, minimizes customer call backs, reduces noise, and requires no regular maintenance.



### Why Engineers Specify Webstone Air Separator:

- Heavy duty forged brass construction
- Contains corrosion-resistant stainless steel coalescing medium
- Pin guided float ensures smooth operation
- Vent head & coalescing medium can be removed for cleaning
- Flow may be directed into either side of the unit
- Available replacement vent assemblies
- Ideal for use with Webstone® Expansion Tank Pro Service Valve
- Guaranteed for life

### **Forged Brass Air Separator**

w/ Removable vent head  
& coalescing medium

Pressure rating: 150 psi  
Sizes: ¾"-2"  
FIP  
Press  
SWT



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THE **ONLY** WAY TO INSTALL  
ANY **TANKLESS**  
**WATER HEATER**

The Webstone® patented Isolator® E•X•P™ Service Valve Kits allow for quicker, consistent quality tankless water heater installations with fewer leak paths. Clean, flush, or diagnose any tankless water heater with ease.

### Why Engineers Specify Webstone EXP Kits:

- The original tankless water heater service valves
- Heavy duty forged brass construction
- Replace 14 components, eliminates 12 leak paths saves 108 minutes of labor
- Multiple pressure relief options for residential and commercial applications
- Available E2 and E3 kits are compact solutions for tight quarters, pipe covers, and recessed boxes
- Lead-free brass suitable for use with potable water
- Guaranteed for life



**PREMIUM  
DESIGN**



#### Tankless Water Heater Service Valve Kit



Hot & cold set of full port forged brass ball valves w/ Hi-Flow hose drains, & pressure relief valve outlet, adjustable packing glands  
Includes residential pressure relief valve (150 psi/200k BTU)

Pressure rating: 600 CWP  
Certified to NSF/ANSI 61 & 372  
Patented technology  
Size: ¾"

FIP x FIP Union  
SWT x FIP Union



**SPACE  
SAVING**



#### Tankless Water Heater Service Valve Kit



Hot & cold set of full port forged brass ball valves w/ Hi-Flow hose drains, & pressure relief valve outlet, adjustable packing glands  
Includes your choice of pressure relief valve:

Residential HW (150 psi/200k BTU)  
Commercial HW (150 psi/2.7m BTU)

Pressure rating: varies based on connection type, 500 CWP for the valve body.  
Certified to NSF/ANSI 61 & 372  
Patented technology  
Sizes: ¾", 1"

FIP Union x FIP  
FIP Union x Press  
FIP Union x Push  
FIP Union x SWT



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**The ISOLATOR®  
E-X-P E2**  
TWH SERVICE VALVES



**Wall Hung & Combi Boiler  
Service Valve Kit**

Hot & cold set of full port forged brass ball valves w/ Hi-Flow hose drains, pressure relief valve outlet & 30 psi/510,000 btu pressure relief valve adjustable packing glands  
Pressure rating: varies based on connection type, 500 CWP for the valve body.  
Patented technology  
Sizes: ¾", 1"

FIP Union x FIP  
FIP Union x Press  
FIP Union x SWT

**The ISOLATOR®  
E-X-P E3**  
TWH SERVICE VALVES



**Tankless Water Heater  
Service Valve Kit**

Hot & cold set of full port forged brass ball valves w/ Hi-Flow hose drains, & adjustable pressure relief valve outlet, adjustable packing glands  
Includes your choice of pressure relief valve  
Residential HW (150 psi/200k BTU)  
Commercial HW (150 psi/200k BTU)  
Pressure rating: varies based on connection type, 500 CWP for the valve body.  
Certified to NSF/ANSI 61 & 372  
Patented Technology  
Sizes: ¾"

FIP Union x FIP  
FIP Union x Push  
FIP Union x SWT

**The ISOLATOR®  
E-X-P E3**  
TWH SERVICE VALVES



**The Isolator E-X-P E3 Wall Hung  
& Combi Boiler Service Valve Kit**

Hot & cold set of full port forged brass ball valves w/ Hi-Flow hose drains, adjustable pressure relief valve outlet & 30 psi/510,000 btu pressure relief valve  
Adjustable packing glands  
Pressure rating: varies based on connection type, 500 CWP for the valve body.  
Patented technology  
Sizes: ¾", 1"

FIP Union x FIP  
FIP Union x SWT  
FIP Union x Press

**The ISOLATOR®  
E-X-P**  
TWH SERVICE VALVES



**Complete Tankless Water Heater  
Installation Kit**

Includes your choice of EXP, E2, or E3 service valves w/ residential pressure relief valve (150 psi/200,000 BTU)  
¾ CGA gas ball valve (175 psi), & 24" x ¾" gas flex line  
Certified to NSF/ANSI 61 & 372  
Patented technology  
Sizes: ¾"

FIP Union x FIP  
FIP Union x SWT  
FIP Union x Press  
FIP Union x Push



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# WATER HEATER TEMPERING VALVE

**HOT WATER**  
MADE **BETTER**

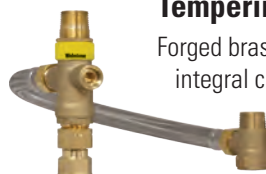
The Webstone® Water Heater Tempering valve mixes cold water from the supply with the hot output from the heater for greater effective hot water storage. This allows water to be stored at 140°F - mitigating the risk of Legionella bacteria in the tank. Adjustable temperature control limits output to 120°F and prevents the risk of scalding. Installation kit options include the Lead-free valve, temperature gauge and (2) ProPush™ flexible connectors for easy integration with the rest of the system.



## Why Engineers Specify Webstone Water Heater Tempering Valves

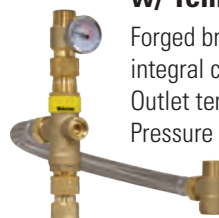
- Heavy duty forged brass construction
- Integrated recirculation port simplifies installation
- Optional temperature gauge available
- Available ProPush™ flexible connectors easily connect to Copper, CPVC or PEX
- Lead-free brass suitable for use with potable water
- Guaranteed for life

### **Water Heater Tempering Valve**



Forged brass valve w/ 18" flex hose connector & integral check valve  
Outlet temperature range 86°-120°F  
Pressure rating: 150 psi  
Certified to NSF/ANSI 61 & 372  
Sizes: 3/4" MIP x FIP

### **Water Heater Tempering Valve w/ Temperature Gauge**



Forged brass valve w/ 18" flex hose connector & integral check valve  
Outlet temperature range 86°-120°F  
Pressure rating: 150 psi  
Certified to NSF/ANSI 61 & 372  
Sizes: 3/4" MIP x FIP



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LEAD-FREE: Weighted average lead content ≤ 0.25%

# THERMOSTATIC MIXING VALVE

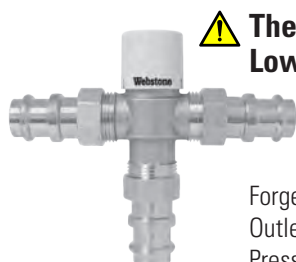
BECAUSE  
**NO ONE LIKES  
TO GET BURNED**

The Webstone® Thermostatic Mixing Valve provides output ranges from 95°–131°F (95°–120°F for the Canadian market) making them ideal for point of use, hydronic or water distribution systems. Temperature locking handles ensures user safety, available with integral check valves on inlets and union connections which simplify installation and maintenance.

## Why Engineers Specify Webstone Water Heater Tempering Valves:

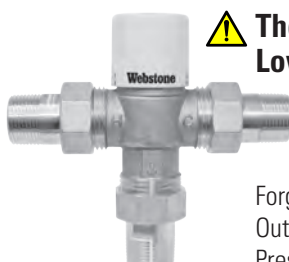
- Heavy duty forged brass construction
- Lead-free brass suitable for use with potable water
- Guaranteed for life

| APPLICATION: | LOW-TEMPERATURE HYDRONIC |          | WATER DISTRIBUTION SYSTEMS |          |                    |           | POINT OF USE SINGLE OR MULTI FIXTURE |                    | POINT OF USE SINGLE ONLY |
|--------------|--------------------------|----------|----------------------------|----------|--------------------|-----------|--------------------------------------|--------------------|--------------------------|
| TEMP RANGE:  | 95–131°F (35–55°C)       |          | 95–131°F (35–55°C)         |          | 95–120°F (35–49°C) |           | 95–131°F (35–55°C)                   | 95–120°F (35–49°C) | 95–131°F (35–55°C)       |
|              | NO CHECK                 | W/ CHECK | NO CHECK                   | W/ CHECK | NO CHECK           | W/ CHECK  | W/ CHECK                             | W/ CHECK           | W/ CHECK                 |
| Compression  | -                        | -        | -                          | -        | -                  | -         | -                                    | -                  | 7440W                    |
| MIP          | 7410W                    | 7420W    | 7410W                      | 7420W    | 7410W-CAN          | 7420W-CAN | 7420W                                | 7420W-CAN          | -                        |
| SWT          | 7510W                    | 7520W    | 7510W                      | 7520W    | 7510W-CAN          | 7520W-CAN | 7520W                                | 7520W-CAN          | -                        |
| PEX          | 7310W                    | 7320W    | 7310W                      | 7320W    | 7310W-CAN          | 7320W-CAN | -                                    | -                  | -                        |
| Press        | 7810W                    | 7820W    | 7810W                      | 7820W    | 7810W-CAN          | 7820W-CAN | -                                    | -                  | -                        |



### ⚠ Thermostatic Mixing Valve For Low Temperature Hydronic Applications & Water Distribution - Max 131°F

Forged brass valve  
Outlet temperature range 95-131°F  
Pressure rating: 150 psi  
Certified to NSF/ANSI 61 & 372,  
ASSE 1017, CSA B125.3   
Sizes: ½"-1"  
Optional Check Valve  
ASTM F1807 PEX  
MIP  
Press  
SWT

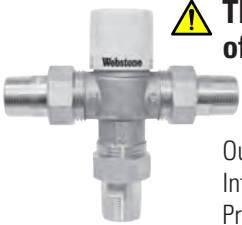


### ⚠ Thermostatic Mixing Valve For Low Temperature Hydronic Applications & Water Distribution - Max 120°F

Forged brass valve  
Outlet temperature range 95-120°F  
Pressure rating: 150 psi  
Certified to NSF/ANSI 61 & 372,  
ASSE 1017, CSA B125.3   
Sizes: ½"-1"  
Optional Check Valve  
ASTM F1807 PEX  
MIP  
Press  
SWT

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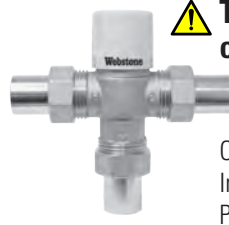
LEAD-FREE: Weighted average lead content ≤ 0.25%



**⚠ Thermostatic Mixing Valve for Point of Use Applications - Max 131°F**

Forged brass valve  
Suitable for single or multiple fixtures  
Outlet temperature range 95-131°F  
Integral check valve  
Pressure rating: 150 psi  
Certified to NSF/ANSI 61 & 372,  
ASSE 1017, ASSE 1070, CSA B125.3   
Sizes: ½" - 1"

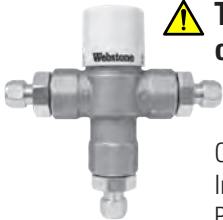
MIP  
SWT



**⚠ Thermostatic Mixing Valve for Point of Use Applications - Max 120°F**

Forged brass valve  
Suitable for single or multiple fixtures  
Outlet temperature range 95-120°F  
Integral check valve  
Pressure rating: 150 psi  
Certified to NSF/ANSI 61 & 372,  
ASSE 1017, ASSE 1070, CSA B125.3   
Sizes: ½" - 1"

MIP  
SWT



**⚠ Thermostatic Mixing Valve for Point of Use Application - Max 131°F**

Forged brass valve  
Suitable for single fixtures only  
Outlet temperature range 95-131°F  
Integral check valve  
Pressure rating: 150 psi  
Certified to NSF/ANSI 61 & 372,  
ASSE 1017, ASSE 1070, CSA B125.3   
Sizes: ⅜"

Compression



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# Notes

# NIBCO® Pressure Rated Metal Valves Limited Warranty



## **NIBCO INC. 125% LIMITED WARRANTY**

Applicable to NIBCO Pressure Rated Metal Valves

NIBCO INC. warrants each NIBCO pressure rated metal valve ("Valves") to be free from defects in materials and workmanship under normal use, service, and maintenance in accordance with the product specifications (including, but not limited to installation recommendations) for a period of five (5) years from the Warranty Commencement Date. The Warranty Commencement Date shall be the date upon which a Valve is installed.

NIBCO will repair or replace – at its option and at no charge – Valves that have been determined by NIBCO, or an authorized representative or agent thereof, to have failed solely because of a defect in materials or workmanship under normal use, service, and maintenance during the warranty period. Replacements shall be shipped free of charge to the owner. In the event of the replacement of any Valve, NIBCO shall further pay the owner the greater of twenty-five (25%) percent of the price of the Valve according to the published suggested list price schedule of NIBCO in effect at the time of purchase, or ten (\$10.00) dollars, to apply on the cost of the installation of said replacement Valve.

This limited warranty applies to all Valves installed, tested, applied, and used in accordance with NIBCO's approved and published recommendations and instructions.

This warranty does not cover any failure or damage for or caused by:

1. any product, parts, or systems which are not manufactured or sold by NIBCO;
2. any Valve which is used for purposes other than a purpose authorized by NIBCO;
3. any Valve not installed, tested, applied, used, or maintained in accordance with NIBCO's recommended installation guidelines and instructions;
4. any Valve not installed or used in accordance with applicable codes;
5. any damage caused by, contributed in whole or in part by, or resulting from, any of the following:
  - a. abuse, misuse, mishandling, alteration, tampering, neglect, or accidental damage such as, without limitation, vandalism;
  - b. natural disasters, such as, without limitation, flooding, windstorm, and lightning;
  - c. attachments or modifications not authorized by NIBCO;
  - d. external, physical or chemical qualities, or an unsuitable or hostile environment;;
  - e. any defects other than those in material or workmanship; or
  - f. any other cause beyond the control of NIBCO.

NIBCO DISCLAIMS ANY AND ALL LIABILITY FOR ANY OTHER DIRECT OR INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY KIND, INCLUDING BUT NOT LIMITED TO, ECONOMIC LOSS, LOSS OF BUSINESS, LOST PROFITS, PUNITIVE DAMAGES, MOLD INTRUSION, WATER DAMAGE, ETC.

Some states do not allow the exclusion or limitation of damages, so the above limitation or exclusion may not apply to you.

THIS WARRANTY IS THE ONLY WARRANTY FOR THE VALVES PROVIDED BY NIBCO, AND IS AND SHALL BE IN LIEU OF ANY AND ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, AN IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, AND FOR ALL OTHER OBLIGATIONS OR LIABILITIES ON THE PART OF A MANUFACTURER. NO EMPLOYEE OF NIBCO, OR ANY OTHER DISTRIBUTOR, AGENT, OR OTHER PERSON OR BUSINESS, IS AUTHORIZED TO MAKE ANY OTHER WARRANTY ON BEHALF OF NIBCO.

Some states do not allow limitations on implied warranties, so the above limitation may not apply to you.

In the event any defect occurs which is believed to be covered by this warranty, NIBCO Technical Services must immediately be contacted by calling 888.446.4226 or emailing CS-TechnicalServices@nibco.com. NIBCO Technical Services after being contacted will make further arrangements for the product's return to NIBCO at the customer's expense for review and evaluation.

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



## How to Order

State quantity, figure number and size for each valve or fitting you wish to order. See individual catalog pages for specific or special product designations.

### HOW MANY TO ORDER

NIBCO valves and fittings are decimal packed for your convenience in handling, shipping and stock-keeping. Number in master carton varies with item.

### POLICY ON RETURNS TO FACTORY

No NIBCO valves and fittings are to be returned without prior written agreement. Transportation must be prepaid. A 20% charge will be made to cover cost of rehandling and reinspection.

To the best of our knowledge, the information contained in this publication is accurate. However, NIBCO does not assume any liability whatsoever for the accuracy or completeness of such information. Final determinations of the suitability of any information or product for the use to be contemplated is the sole responsibility of the user. The manner of that use, and whether there is any infringement of patents, is also the sole responsibility of the user.

### TECHNICAL ASSISTANCE

Engineers, contractors, wholesalers or manufacturers may obtain special or technical assistance from any factory representative of NIBCO. Write, fax or phone.

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

PH: 1.574.295.3000 or 1.888.446.4226  
FAX: 1.574.295.3307 or 1.888.336.4226

# 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.



World Headquarters



Elkhart, Indiana

## MANUFACTURING

Metal Valves and Fittings



Blytheville, Arkansas



McAllen, Texas



Nacogdoches, Texas



Stuarts Draft, Virginia



Worcester, Massachusetts

Plastic Pipe, Valves, and Fittings



Greensboro, Georgia



Goshen, Indiana

Industrial Plastics



Charlestown, Indiana

## DISTRIBUTION

U.S. Distribution Centers



Elkhart, Indiana

International



Reynosa, Mexico



Lodz, Poland

## INTERNATIONAL

Global Offices



Elkhart, Indiana



Lodz, Poland

\*Denotes U.S. and International Direct Shipping Locations

## VALVES

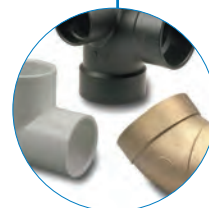


Pressure-rated bronze, iron and alloy-iron gate, globe and check valves • Pressure-rated bronze ball valves • Boiler specialty valves • Commercial and industrial butterfly valves • Lined butterfly valves • Circuit balancing valves and kits • Carbon and stainless steel ball valves • ANSI flanged steel ball valves • Lined 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 and CPVC plumbing and industrial ball valves • Bronze and iron y-strainers • Sample valves • Sanitary valves • Lead-free valves • Hydronic valves • Labor saving valves • Manifold systems • Water temperature control valves • System quality valves • Press x PEX transition valves

## FITTINGS

Wrot and cast copper pressure and drainage fittings • Cast copper alloy flanges • Powder coated steel companion 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 • Lead-free fittings • Press x PEX transition fittings • Cast bronze push fittings

LEAD-FREE: Weighted average lead content  $\leq 0.25\%$



## INDUSTRIAL PLASTICS

PVC and Corzan® CPVC schedule 80 fittings, true union ball and ball check valves, butterfly valves, and specialty valves • Polypropylene and Kynar® PVDF schedule 80 pipe, fittings, and true union ball and ball check valves • Pneumatic and electric actuation systems

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1516 MIDDLEBURY STREET  
ELKHART, IN 46516-4740  
USA

DOMESTIC CUSTOMER SERVICE  
PHONE: 800.234.0227  
FAX: 800.234.0557

TECHNICAL SERVICE  
PHONE: 888.446.4226  
FAX: 888.336.4226

INTERNATIONAL OFFICE  
PHONE: +1/574.295.3327  
FAX: +1/574.295.3455