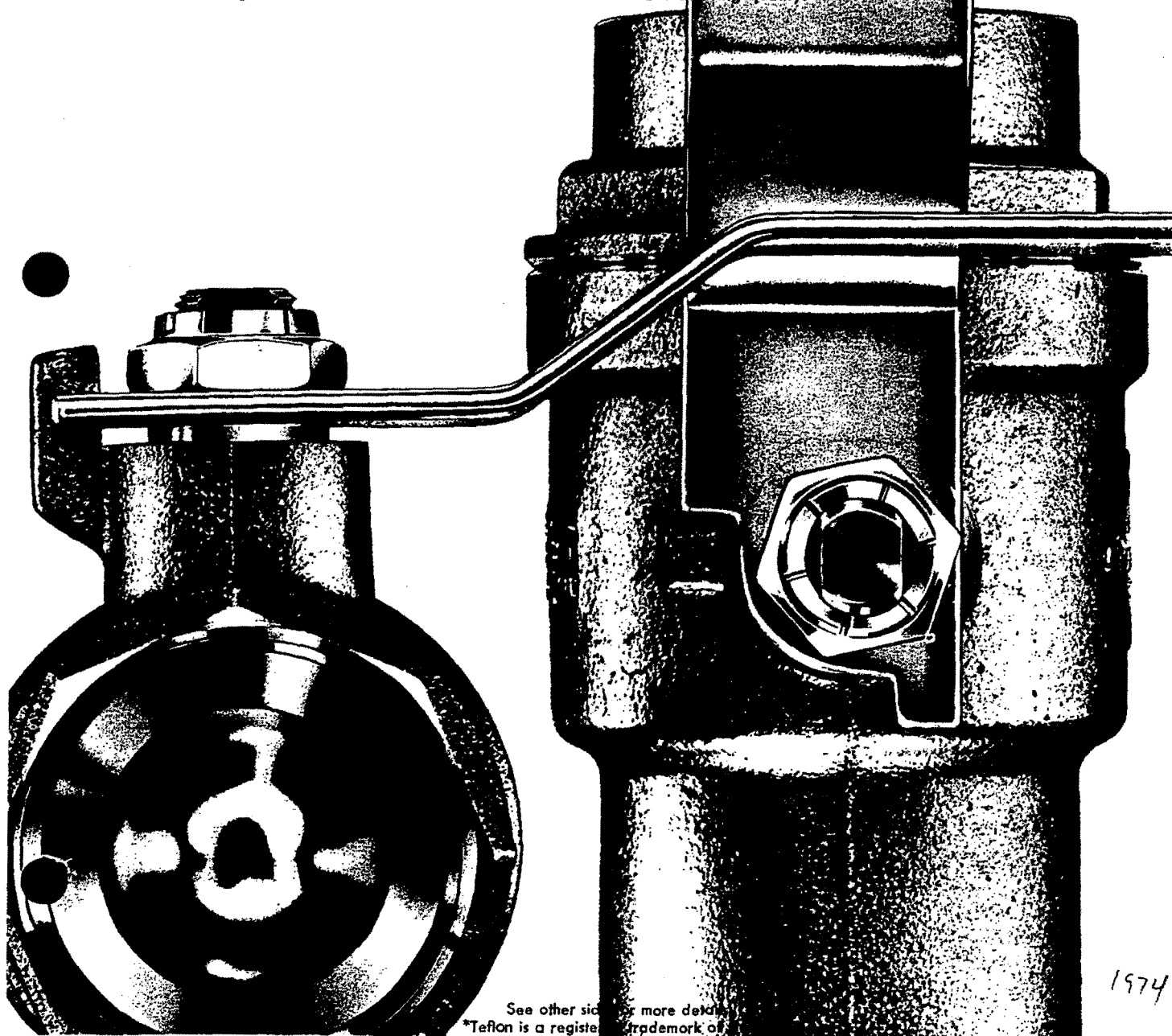


NIBCO's newest resilient seal entry, **THE RING BALL™ VALVE**

It's more of a valve, and more of a choice.

NIBCO's latest addition to its family of bubble-tight ring seal products is probably the most ball valve you can buy for the money. With its conventional port design, the Ring Ball gives more flow than most valves in its price class. Plus these extra-quality features:

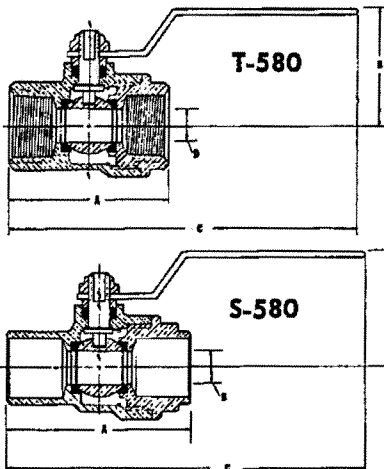
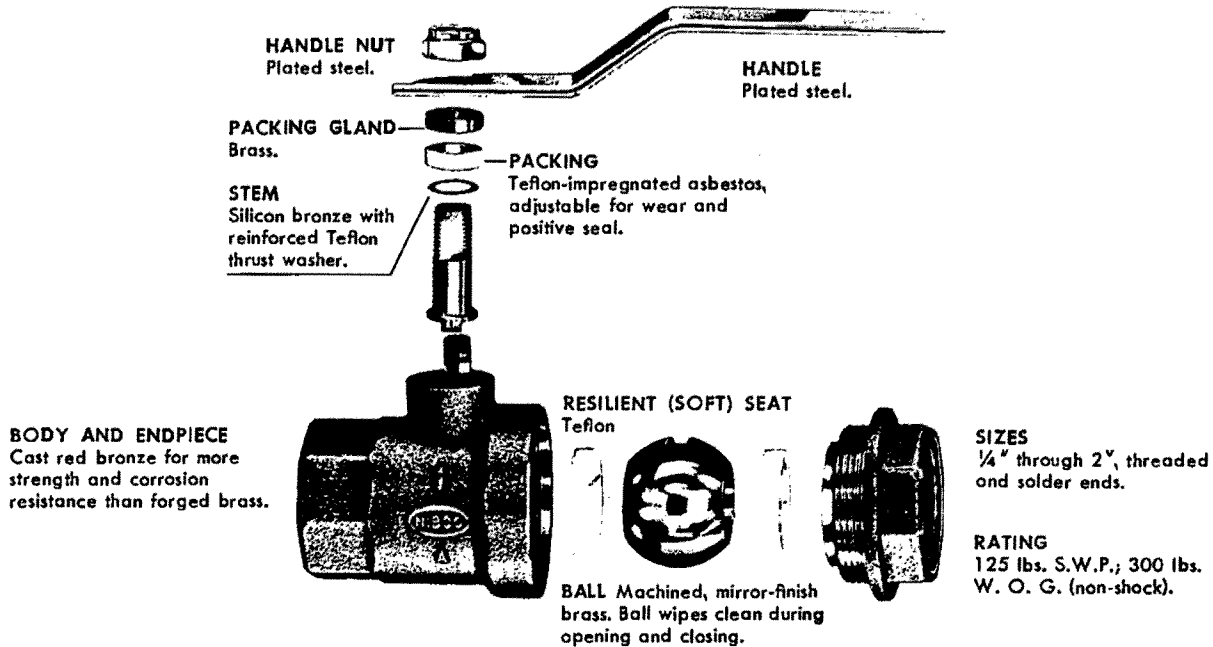
- High service rating of 125 lbs. S.W.P., 300 lbs. W.O.G. (non-shock).
- Choice of solder or threaded-end connections from 1/4" through 2".
- Adjustable packing of Teflon*-impregnated asbestos for more life than O-ring designs.
- Corrosion-resistant cast red bronze body and endpiece.
- Bubble-tight, quarter-turn shutoff.
- Complies with Federal Specification WW-35a, Amendment 2, type II, class A, style 3.
- And the exclusive \$5 guarantee of NIBCO manufacturing quality.



See other side for more details.
*Teflon is a registered trademark of

1974

A closer look at features that rate the RING BALL VALVE as your better choice



DIMENSIONS

WEIGHTS

QUANTITIES

Nominal Size	Dim. A		Dim. B	Dim. C		Dim. D Part	Approx. Net Wt.		Box Qty.	Carton Qty.
	Threaded T-580	Solder S-580		Threaded	Solder		Threaded	Solder		
1/4"	2	1 1/2	1 1/2	4 1/2	4 3/4	3/4†	.3	.3	5	100
3/8"	2	1 1/2	1 1/2	4 1/2	4 3/4	3/4	.3	.3	5	100
1/2"	2	1 1/2	1 1/2	4 1/2	4 7/8	3/4	.4	.4	5	100
3/4"	2 1/2	2 1/2	1 7/8	5	5 1/4	1/2	.7	.7	5	100
1"	2 1/2	3 1/2	2 1/4	6 1/4	6 1/2	3/4	1.2	1.2	1	50
1 1/4"	3 1/2	3 1/2	2 3/4	6 1/2	6 1/2	1	1.9	1.7	1	25
1 1/2"	3 3/4	4 1/4	2 13/16	8 1/4	8 1/4	1 1/4	3.0	2.7	1	10
2"	4 1/2	5 1/2	3 1/4	8 3/4	9 1/4	1 1/2	4.5	4.4	1	10

† 3/4" on S-580

NOTE: 316 stainless steel ball available. Prices on request.
Combinations of threaded to solder ends available. Prices on request.

NIBCO Quality Backed by the Exclusive \$5 Guarantee.

NIBCO INC. guarantees each fitting (including plumbing and heating valves) manufactured by it to be free from defects in material and workmanship under normal use and service within limitations recommended by it. If any NIBCO fitting is returned to NIBCO INC. at

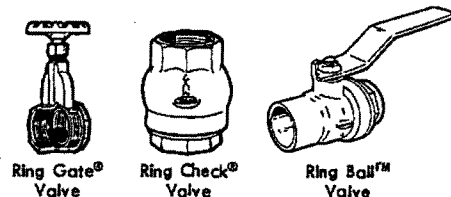
Elkhart, Indiana, and if, upon examination, NIBCO INC. finds to its satisfaction that such fitting is thus defective, it will replace such fitting without cost. In addition, it will pay \$5.00 to apply on the cost of installing the replacement fitting.

THIS GUARANTEE IS EXPRESSLY IN LIEU OF ANY AND ALL OTHER GUARANTEES AND/OR WARRANTIES.



NIBCO INC.
500 Simpson Avenue
Elkhart, Indiana 46514

The growing family of ring valves



● NIBCO BALL VALVES

ONE PIECE
TWO PIECE
THREE PIECE
STAINLESS STEEL
CARBON STEEL
BRONZE



NIBCO

580 SERIES

Two-piece ball valves

NIBCO's product philosophy is to design, produce, and market the right valve for the application intended. In doing this, NIBCO's customers enjoy long-term dependable service at pricing that is realistic and very competitive. NIBCO's figure number 580 and 585 bronze Ring Ball® valves are consistent in conforming to this view.

Rather than designing a ball valve that has excessive weight and costly, rarely required premium features, NIBCO has evaluated the valves' intended usage and designed accordingly. The result is a bronze two-piece, end-entry ball valve that

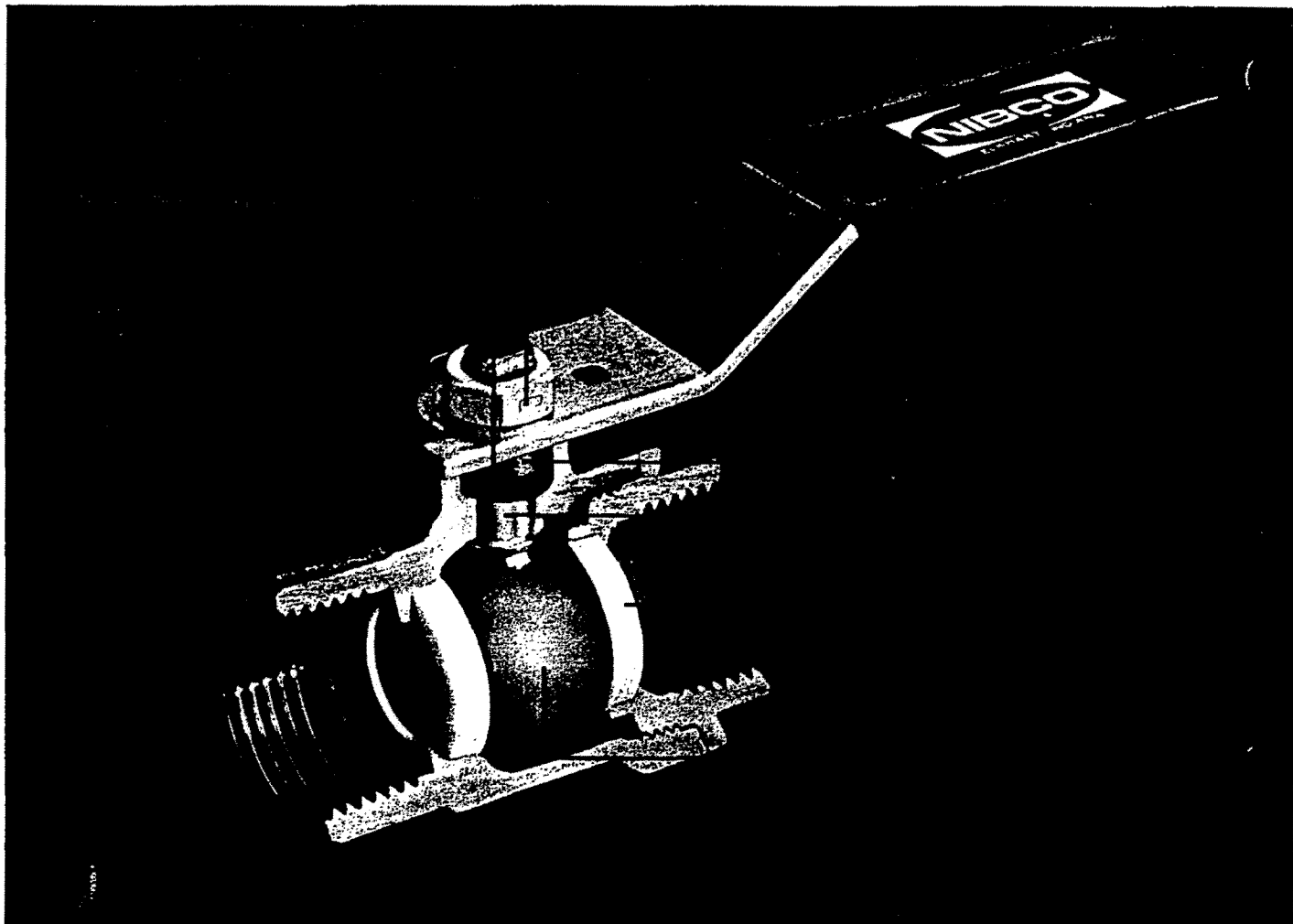
has a proven 10-year record of performance in a wide range of residential, commercial, and light industrial applications. Only a fractional percentage, out of hundreds of thousands of 580/585 ball valves produced, has come back as unsatisfactory or defective.

Conventional Port. The 580 line, offered in sizes from ½" through 2" and rated at 125 SWP/400 WOG, has a conventional port that provides more than adequate flow for the majority of residential and commercial applications.

Full Port. The 585, rated at 150 SWP/400 WOG in sizes from ¼" through 1", has a full port offering optimum flow for those applications with critical flow requirements. In fact, NIBCO offers you the *only* full port two-piece, end-entry bronze ball valve in the ¾" and 1" sizes.

Federal Specification Compliance. Both the 580 and 585 meet Federal Specification WW-V-35, Type II, Class A, and are available with either threaded or solder ends.

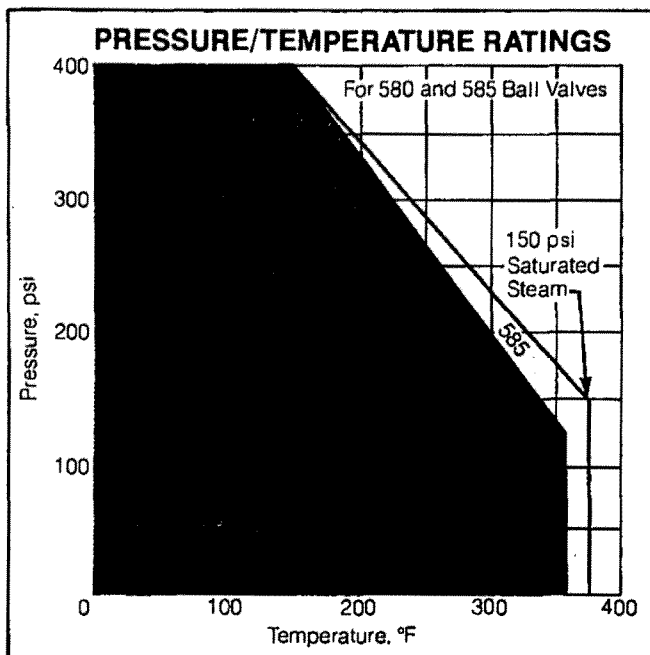
The valves that do the job—the rightweight 580 and 585. Check the features below and see why NIBCO offers you more value.



RESIDENTIAL		
FLUIDS	USAGE	APPLICATIONS
Water	Shutoff Low Velocity Throttling	Water Heater Water Softener Sprinklers Main Shutoff Solar Swimming Pools

COMMERCIAL/LIGHT INDUSTRIAL

FLUIDS	USAGE	APPLICATIONS
Water	Shutoff Low Velocity Throttling	Chillers Condensers Pumps Vats Condensate Lines
Steam	Shutoff Low Velocity Throttling	Cookers Steam Trace Line Branch Lines Hose Stops Equipment Shutoff
Air	Shutoff Low Velocity Throttling	Non-bleed Branch Lines Condensate Drain Oxygen and All Inert Gases
Petroleum	Shutoff Low Velocity Throttling	Gasoline Kerosine Diesel Oil Wax Tar
Chemicals	Shutoff Low Velocity Throttling	Solvents Paint Resins Glues Ink Varnish Glucose Alcohol



VALVE SERIES	SIZE	SALES CTN. QTY.	MASTER CTN. QTY.	APPROX. NET WT.		PORT SIZE	FLOW* C _v
				THREADED	SOLDER		
580	½"	5	100	.5	.5	¾"	5
	¾"	5	100	.7	.7	½"	9
	1"	5	50	1.3	1.3	¾"	20
	1¼"	1	25	1.9	1.8	1"	39
	1½"	1	10	2.9	3.0	1¼"	72
	2"	1	10	4.5	4.8	1½"	88
585	¼"	5	100	.6	.5	¾"	5
	¾"	5	100	.6	.5	¾"	10
	½"	5	100	.6	.6	½"	17
	¾"	5	50	.9	.9	¾"	40
	1"	1	25	1.8	1.6	1"	66

*C_v = the flow coefficient for valves, expressing the flow rate in gallons per minute of 60°F water with 1.0 psi pressure drop across valve.

Note: The conventional port #580 ball has provided satisfactory service for over 10 years, offering more than adequate flow for the vast majority of applications. The #580 offers double the flow as compared to a globe valve.

NIBCO	T-580/585	S-580/585	¼" - 2"
Consolidated Brass—Apollo	70-100	70-200	¼" - 3"
Watts Regulator	B-6000	B-6001	¼" - 3"
Crane (Gem)	2180	2182	¼" - 2"
Hammond	805	806	¼" - 2"
Jenkins	900-T	902-T	¼" - 2"
Red & White	5009	5019	¾" - 2"
Lee Brothers—Vanguard	810-23	810-10	½" - 2"
Polaris	944-23	944-10	¼" - 2"

To be used as a guide only. Some variation in detail possible.



NIBCO

560 SERIES

One-piece ball valves

NIBCO designed the T-560 line after intensive discussions with engineers in processing, refining, and manufacturing plants. We asked what they considered most important in a one-piece ball valve, and what features they wanted. We got the answers. Now you've got the right ball valve for the job. And best of all, it's backed with NIBCO's unbeatable reputation for quality, with on-time delivery and attractive pricing.

Three body materials. To match your application needs, NIBCO offers the T-560 in three body materials—bronze, carbon steel, and 316 stainless steel. Bronze is ideal for service

up to 600 psi; carbon steel and 316 stainless steel will withstand pressures to 2000 psi in sizes through 1". For 1¼" through 2" steel sizes, the pressure rating is 1500 psi.

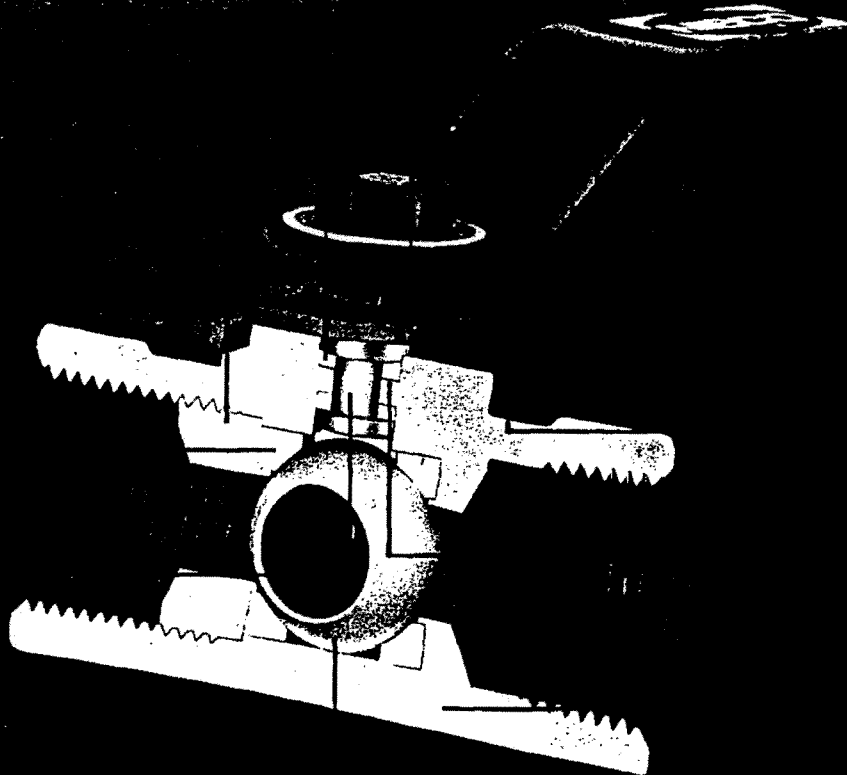
Three seat materials. Virgin TFE seats, with 600 psi and 366°F ratings, offer better sealing with low line pressures. For higher pressures, glass-reinforced TFE and bronze-moly-filled TFE are available on the carbon steel and stainless steel ball valves, for temperatures to 400°F at the valve's pressure rating.

One-piece body. The one-piece

construction of the T-560 gives you an important safety advantage: It eliminates the chance of accidental disassembly when downstream piping is being turned. Of course, it also greatly reduces the chances of a leak.

Standard features. A hole drilled in the ball stem slot allows the pressure to equalize between the body cavity and the ball bore when the valve is in the full open position. This eliminates the possibility of damaging or blowing out the seat should entrapped fluid expand rapidly.

A stainless steel spring washer grounds the stem to the valve body to



prevent static electric discharge on all T-560 valves.

Compact design saves space and weight; and the valve may be installed in any position. The quick quarter-turn handle clearly shows valve position.

Integral mounting pads make it simple to install actuators.

The seat cavities are machined to allow ball to seal metal-to-metal in case fire should destroy the seats.

The handle can be removed even while valve is in service, with no stem leakage. Separate steel nuts are used to secure both the packing and the handle.

Blowout-proof stem cannot be removed while valve is installed, because it has an interior shoulder and is loaded from within the valve. A reinforced TFE thrust washer creates an internal seal that improves as the pressure increases.

Handle Options. The lever handle is standard on T-560 valves. But many other handle styles are available, such as round, extended round, oval, extended oval, and wing. Specify optional handle when ordering valve.

Actuators. Both electric and pneumatic actuators can be ordered for NIBCO T-560 valves.

- Boiler shutoff
- Condensate drains
- By-pass lines
- Paper-making machines
- Boiler feedwater
- Saturated steam
- Chemical process lines
- Petroleum process lines

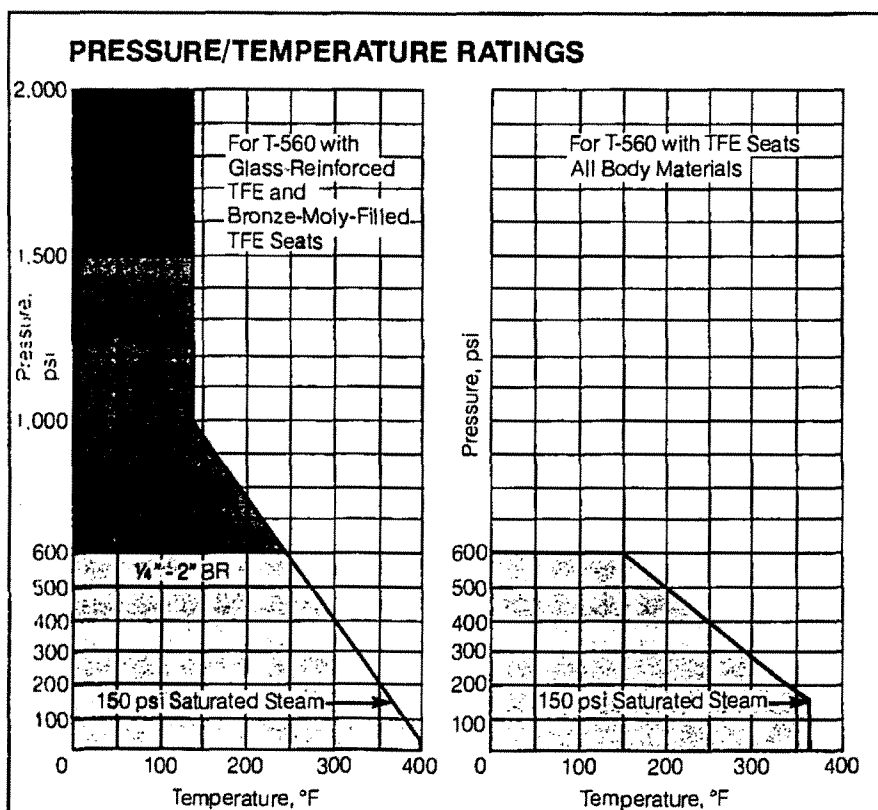
NIBCO	T-560-BR	T-560-CS	T-560-S6
Apollo	91	93	96
Clayton/Mark	—	880	882
Gemini	76-1-RT-1	76-4-RT-4	76-6-RT-6
Hills-McCanna	M502-BR	M502-CS	M502-S6
Jamesbury	—	450	650
Smith	140G	—	300T
Watts	—	C7100	—
Worcester	5811R	5844R	5866R

To be used as a guide only. Some variation in detail possible.

VALVE SERIES	SIZE	SALES CTN. QTY.*	MASTER CTN. QTY.*	APPROX. NET WT.	PORT SIZE	FLOW** C _v
T-560	¼"	5	50	.64	⅜"	5
	⅜"	5	50	.60	⅜"	10
	½"	5	50	.57	⅜"	5
	¾"	5	50	.79	½"	9
	1"	1	30	1.34	⅝"	21
	1¼"	1	20	2.11	1⅜"	32
	1½"	1	10	2.98	1"	47
	2"	1	10	4.57	1¼"	85

*Quantities based on lever handle.

**C_v = the flow coefficient for valves, expressing the flow rate in gallons per minute of 60°F water with 1.0 psi pressure drop across valve.



NIBCO

590 SERIES

Three-piece ball valves

The NIBCO 590 and 595 Series Ball Valves are based on a proven, versatile three-piece design that combines superior performance characteristics with fast, economical in-line maintenance. These bronze valves offer swing-out accessibility that makes them ideal for commercial and industrial installations where frequent cleaning and seal replacement are necessary.

The 590 Series has a conventional port, providing more than adequate flow for most commercial and industrial applications. Both threaded and solder ends are available in sizes from 1/2" through 2 1/2".

For full flow, specify the 595 Series, with full port. Available in sizes from 1/4" through 2", these valves offer

unobstructed flow for applications that require optimum flow conditions.

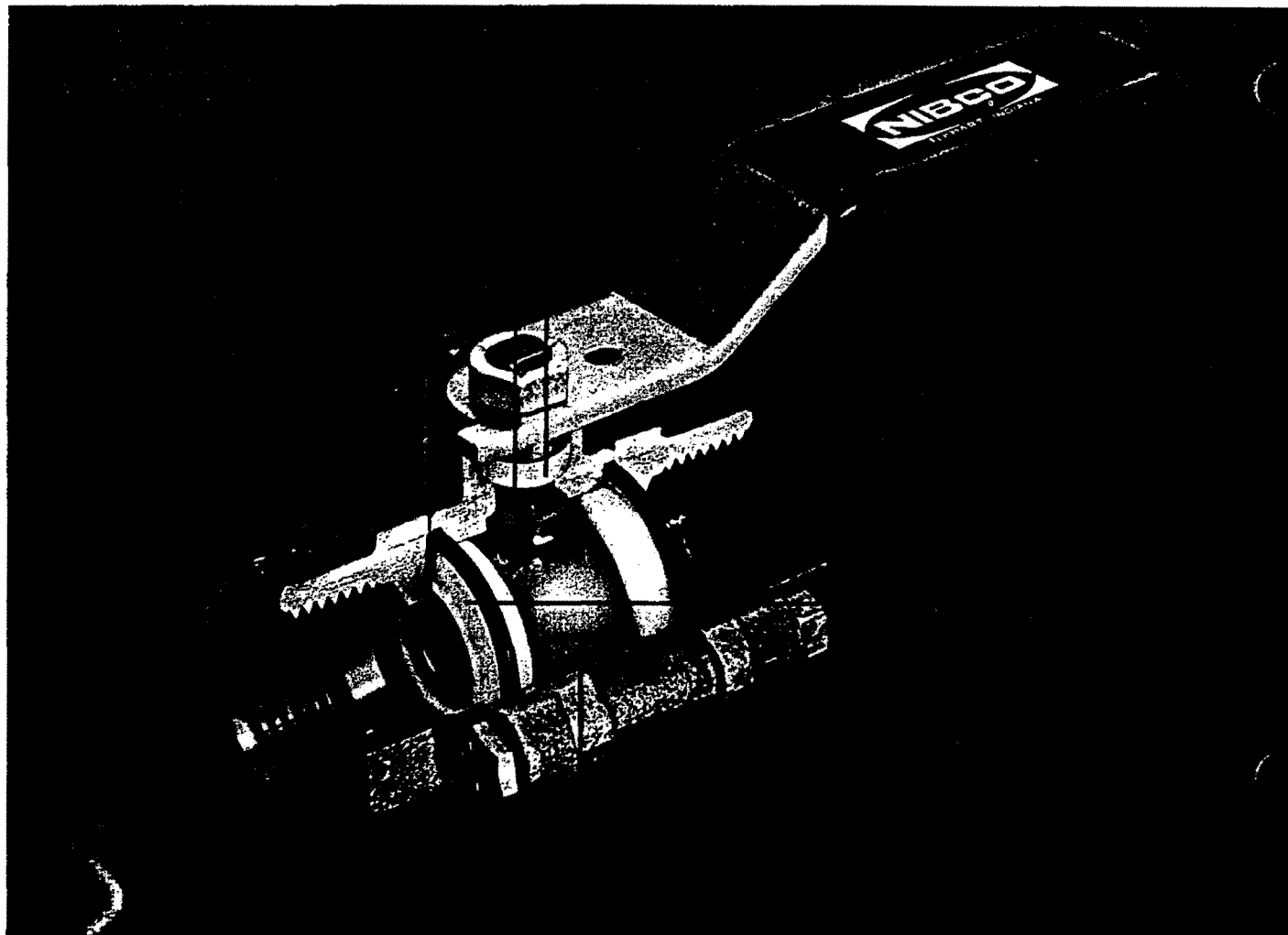
Both valves meet the requirements of Federal Specification WW-V-35, Type II, Class A, Style 1, and are rated at 150 SWP/400 WOG.

Swing-out design. The swing-out three-piece body construction allows for easy in-line valve disassembly to clean, service, or replace seals without the high labor costs involved in tearing down and remaking pipe connections.

During installation, the swing-

out design allows the ends to be threaded or soldered into place separately, with the center section installed later. This prevents any damage to the TFE seats that might occur during soldering or brazing. The body can be pivoted to the most convenient position.

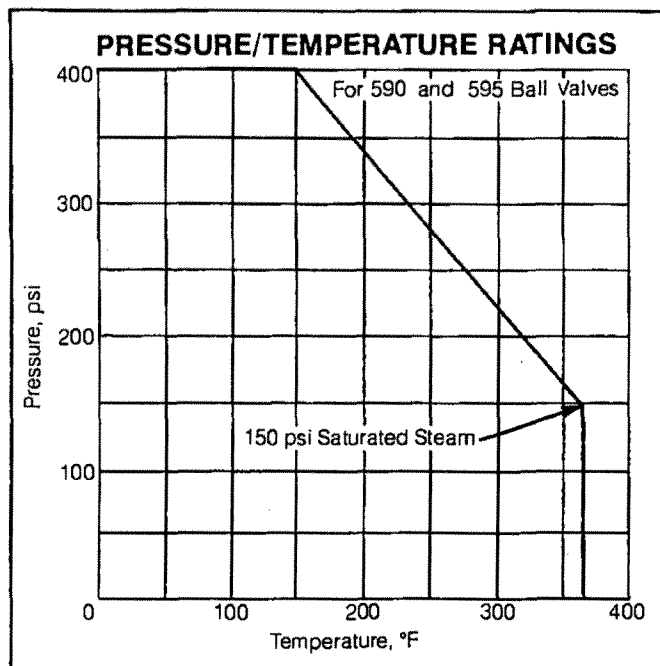
Interchangeable ends. NIBCO 590 and 595 parts are interchangeable. By interchanging valve ends, for example, you can make a valve that reduces or increases pipe size through the valve. A 1/2" end can be substituted for a 3/4" end, thus making a 1/2" x 3/4" valve. A small parts inventory gives you a complete selection of conventional and full port parts and bodies in both threaded and solder ends.



- Saturated steam
- Oxygen service
- Potable water systems
- Cooling towers
- Oil lines
- Glycol systems
- Pneumatic systems

NIBCO	590	595
Apollo	—	82
Pittsburgh Brass	SS-B	SP-B
Watts	—	B6800
Worcester	411T	5911T

To be used as a guide only. Some variation in detail possible.



VALVE SERIES	SIZE	SALES CTN. QTY.	MASTER CTN. QTY.	APPROX. NET WT.		PORT SIZE	FLOW** C _v
				THREADED	SOLDER		
590	1/2"	1	50	.9	.8	3/8"	5
	3/4"	1	50	1.1	1.0	1/2"	9
	1"	1	30	2.0	1.9	3/4"	20
	1 1/4"	1	20	3.8	3.5	1"	39
	1 1/2"	1	10	5.5	5.1	1 1/4"	72
	2"	1	10	8.4	7.7	1 1/2"	110
	2 1/2"	1	5	17.7	13.1	2"	205
595	1/4"	1	50	.8	.8	3/8"	5
	3/8"	1	50	.8	.8	3/8"	10
	1/2"	1	50	1.1	1.0	1/2"	17
	3/4"	1	30	1.8	1.8	3/4"	40
	1"	1	20	3.6	3.5	1"	66
	1 1/4"	1	10	5.1	5.1	1 1/4"	90
	1 1/2"	1	10	7.8	7.7	1 1/2"	195
	2"	1	5	13.1	12.8	2"	560

*5/16" for solder end.

**C_v = the flow coefficient for valves, expressing the flow rate in gallons per minute of 60°F water with 1.0 psi pressure drop across valve.

These valves are available with bronze ball and stem materials or with Type 316 stainless steel ball and stem. Choose the trim best suited for your particular application.

The lever handle is standard on three-piece series valves. Other handles available include round, extended round, and extended T-handle with memory stop. Handle option must be specified when ordering valves.

NIBCO

capability, it's more than just a line!

Bronze, carbon steel, and stainless steel ball valves—yes. But it's also cast steel valves, bronze and iron valves, butterfly valves, alloy iron and ductile iron valves, stainless steel flanges, and ductile iron fittings. In fact, NIBCO is big enough to be your one valve supplier, and that means convenience and cost reductions for you.

As we see it, capability starts with engineering know-how that means cost efficiency for NIBCO and for you. Excess metal doesn't add strength to a valve, just expense. So we design our ball valves to use materials efficiently. Then we design the machines to make and test them efficiently. Through every step of the de-

sign and manufacturing process, NIBCO controls its costs...and yours.

Our ball valve production facilities are the most advanced, highly automated of any U.S. valve manufacturer. This means NIBCO valves are produced with greater consistency. From casting through machining, assembly, and testing, rigid

quality control programs assure you that the NIBCO name on a valve means the quality you count on.

You can count on NIBCO delivery, too. Ask around. You'll find that NIBCO has an uncommonly good reputation for delivering on time...with the whole order, not just a partial shipment.

NIBCO has invested more in improving and expanding its ball valve capacity, and NIBCO is ready to meet your increasing demands for competitively priced, quality valves.

Our unique 120% warranty pays not only to replace a defective valve but also pays an additional 20% to defray reinstallation costs. That says it all!



Inspecting cores for the one-piece ball valve body



Checking dimensions of mold-making equipment



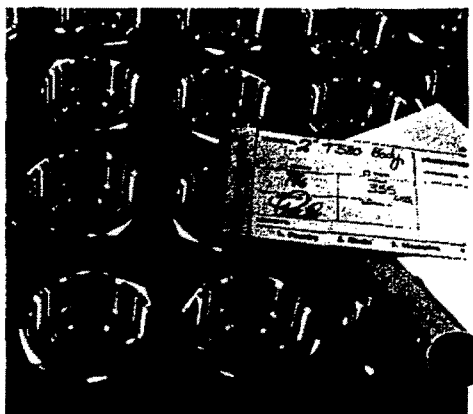
Air-under-water testing of one-piece valve



Precision buffing of balls



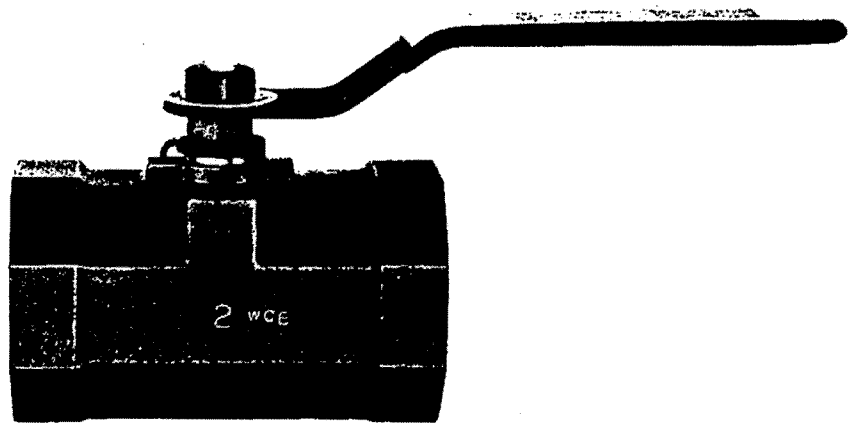
Automated pouring



Inspected bodies ready for assembly



NIBCO INC.
P.O. Box 1167, Elkhart, IN 46515



One-Piece Ball Valves
Bronze-Carbon Steel-Stainless Steel



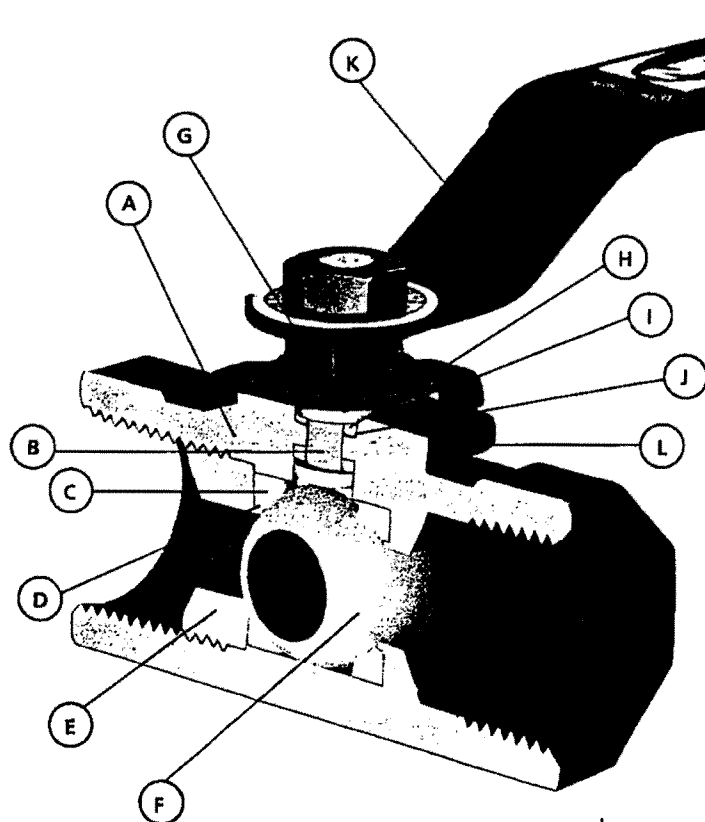
NIBCO put all the features you wanted in one superior line—T-560 Ball Valves

We designed the T-560 line after intensive discussions with engineers in processing, refining, and manufacturing plants like yours. We asked what they considered most important in a one-piece ball valve, and what features they wanted. We got the answers. Now you've got the perfect ball valve.

NIBCO's new line of T-560 Ball Valves combines all the most-wanted, most-important features

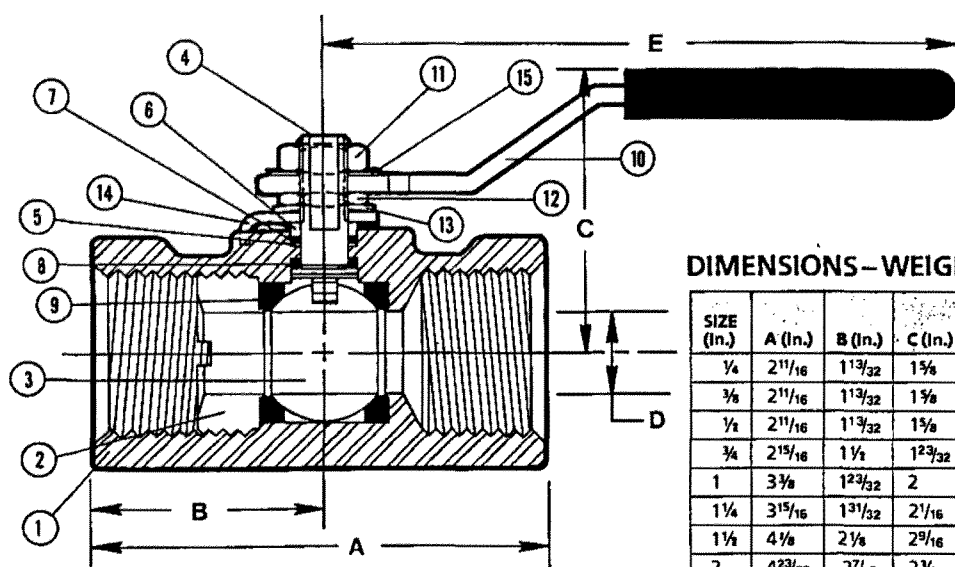
for your industry. One-piece body of bronze, carbon steel, or 316 stainless steel construction; blowout-proof stem; grounding washer as standard. Few other valve manufacturers can offer you as much in one valve.

And best of all, it's backed with NIBCO's unbeatable reputation for quality, with on-time delivery and attractive pricing. Check it out — it's designed to meet your needs.



- A. One-piece body construction eliminates chance of accidental disassembly when line is being unscrewed downstream. Bronze, carbon steel, or 316 stainless steel bodies.
- B. Blowout-proof stem cannot be removed while valve is installed, since it has an interior shoulder and is loaded from within the valve. Reinforced TFE thrust washer creates an internal seal that improves as pressure increases.
- C. Both ball seats are pure TFE as standard. Other optional seat materials include 25% glass-reinforced TFE, and bronze-moly-filled TFE.
- D. Seat cavities are machined to allow ball to seal metal to metal in case fire should destroy the seats.
- E. The insert, which holds the internal assembly in position, is shouldered into place and creates a positive metal-to-metal seal, preventing any leakage past the TFE seats.
- F. Balls are carefully machined for roundness and finish, and individually inspected to assure optimum seal tightness, long seat life, and low torque.
- G. No stem leakage, even when handle is removed while valve is in service. Separate steel nuts are used to secure both the packing and the handle, so handle can be removed.
- H. Reinforced TFE packing with Belleville® washer assures leak-free seal on cool-down and as packing wears.
- I. Independent hardened-steel stops allow only ¼-turn, full open to full close.
- J. Grounding washer prevents spark discharge in explosive atmospheres.
- K. Lever handle is standard — made of hardened steel with zinc phosphate finish and insulating plastic grip. Stainless steel lever handle and other handles are optional.
- L. Integral mounting pads make actuator installation simple and inexpensive.

T-560 SPECIFICATIONS



DIMENSIONS - WEIGHTS

SIZE (In.)	A (In.)	B (In.)	C (In.)	D (In.)	E (In.)	APPROX. NET WT. LB.
1/4	2 11/16	1 13/32	1 3/8	3/8	4	0.8
3/8	2 11/16	1 13/32	1 3/8	3/8	4	0.7
1/2	2 11/16	1 13/32	1 3/8	3/8	4	0.6
3/4	2 15/16	1 1/2	1 23/32	1/2	4	0.8
1	3 3/8	1 23/32	2	5/8	4 11/16	1.3
1 1/4	3 15/16	1 31/32	2 1/16	1 3/16	4 11/16	2.0
1 1/2	4 1/8	2 1/8	2 9/16	1	6 3/4	2.8
2	4 23/32	2 7/16	2 3/4	1 1/4	6 3/4	4.3

MATERIALS OF CONSTRUCTION

ITEM	T-560-BR BRONZE	T-560-CS CARBON STEEL	T-560-S6 STAINLESS STEEL
1. Body	ASTM B-584 Alloy B44	ASTM A-216 GR WCB, Phosphate-Coated	ASTM A-351 GR CF8M
2. Body Insert	ASTM B-584 Alloy B44	ASTM A-108 Type 12L14 Phosphate-Coated	ASTM A-276 Type 316
3. Ball	ASTM B-584 Alloy B44*	ASTM A-108 Type 12L14 Hard Chrome Plated	ASTM A-276 Type 316
4. Stem	ASTM B-371 Alloy 694	ASTM A-108 Type 12L14 Hard Chrome Plated	ASTM A-276 Type 316
5. Grounding Washer	ASTM A-167 Type 304	ASTM A-167 Type 304	ASTM A-167 Type 304
6. Pack Gland	ASTM B-16	ASTM A-276 Type 316	ASTM A-276 Type 316
7. Packing	Reinforced TFE	Reinforced TFE	Reinforced TFE
8. Thrust Washer	Reinforced TFE	Reinforced TFE	Reinforced TFE
9. Seat Ring (2)	TFE	TFE	TFE
10. Handle	Zinc Phosphate-Coated Steel, Plastisol Coated	Zinc Phosphate-Coated Steel, Plastisol Coated	Zinc Phosphate-Coated Steel, Plastisol Coated
11. Handle Nut	Phosphate-Coated Steel	Phosphate-Coated Steel	Phosphate-Coated Steel
12. Packing Nut	Phosphate-Coated Steel	Phosphate-Coated Steel	Phosphate-Coated Steel
13. Belleville Washer	Phosphate-Coated Steel	Phosphate-Coated Steel	Phosphate-Coated Steel
14. Travel Stop	Phosphate-Coated Steel	Phosphate-Coated Steel	Phosphate-Coated Steel
15. Identification Plate	Aluminum	Aluminum	Aluminum

*Bronze Valve Ball—Ball material on 1/2" and 3/4" sizes is ASTM B-16.

ENGINEERING DATA

Pipe Size Inches	Flow C _v GPM with 1 psi Pressure Drop	Torque In Inch-Pounds
1/4	1.4	40
3/8	6.3	40
1/2	5.0	40
3/4	9.0	70
1	21.0	100
1 1/4	32.0	150
1 1/2	47.0	240
2	85.0	360

Key to Figure Number Positions

Position 1
End
T—Threaded

Positions 2, 3, 4
Valve Designation
S60—One-Piece Body Construction

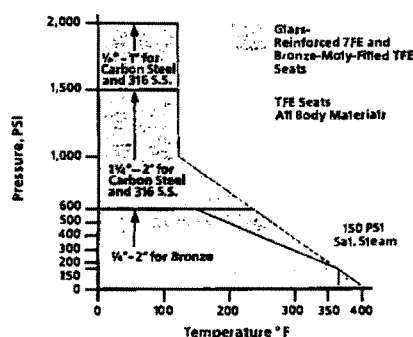
Positions 5, 6
Basic Material
BR—Bronze
CS—Carbon Steel
S6—316 SS

Position 7
Seat Material
Y—Virgin TFE
R—Reinforced TFE
B—Bronze-Moly

Positions 8, 9
Trim
20—Bronze
25—Carbon Steel
66—Stainless Steel

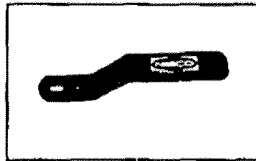
Lever handle comes as standard, other handle options must be specified. Other trim options available; consult factory.

Pressure-Temperature Ratings

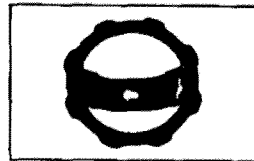


Handle Options

A wide variety of low-carbon steel handles is available to fulfill safety and operational requirements in various processing and manufacturing industries. The lever handle with plastic cover is standard. Other handle options are shown at right. Stainless steel lever handles are available, as an option, also with plastic cover. If an optional handle is desired, please indicate which one when ordering.



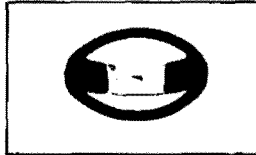
Lever



Round



Wing



Oval



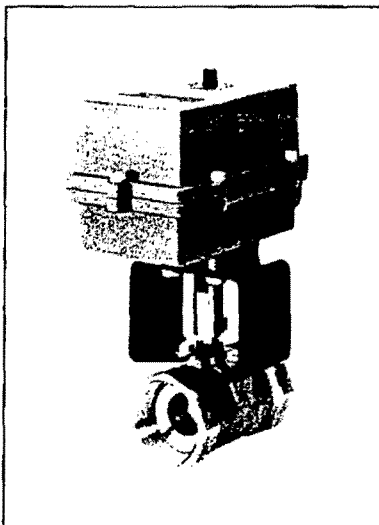
Round Extended



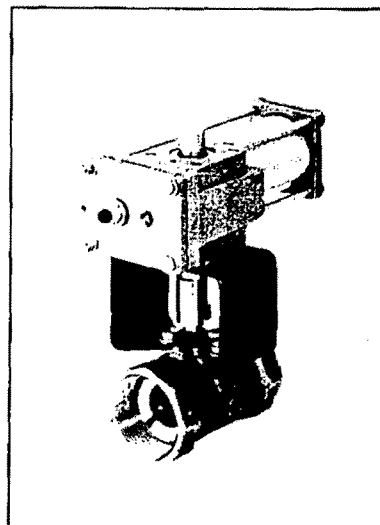
Oval Extended

Electric Actuator/Pneumatic Actuator

Electric or pneumatic actuators can easily be attached to NIBCO T-560 Ball Valves either before delivery or after valve installation. Special mounting pads are cast as part of the valve body to facilitate actuator attachment.



Electric Actuator



Pneumatic Actuator

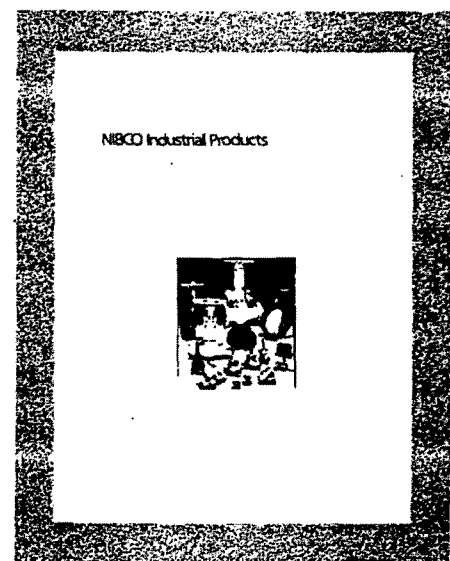
NIBCO—America's most self-reliant valve company.

NIBCO has invested in the most modern, automated production facilities of any U.S. valve manufacturer. That helps reduce our costs, and yours. When you specify NIBCO Ball Valves you can be sure of many things—efficient design, quality backed by individual product testing, and confidence in a steady source of supply from one of America's largest valve manufacturers.

NIBCO has a full line of industrial valves in bronze, iron, ductile iron, and steel. Write for our free Industrial Products Catalog.



NIBCO INC.
P.O. BOX 1167
ELKHART, IN 46515



1/2" NIBCO BRONZE BALL VALVE

600 PSI WOG 150 PSI STEAM



TWO-PIECE BROU

NIBCO's product philosophy is to market the right valve for the application intended. In doing this, NIBCO's customers enjoy long-term dependable service at pricing that is realistic and competitive. Price vs. cost. Cost vs. quality. With some manufacturers it is a

never e... in sacrificed to provide the familiar with

Features

1. Minimal pressure drop due to large ports.
2. Bottom loaded, pressure retaining stem.
3. Pressure rated at 800 psi WOG, (non-shock) and 150 psi saturated steam.
4. High cycle life reinforced TFE stem packing seal, and thrust washer.
5. Fast 1/4 turn open or close operation.
6. Low operating torque.
7. Adjustable stem packing gland.
8. Each valve individually tested, air under water, in the opened and closed position.
9. Made in U.S.A.

Zinc chromate-finished hardened-steel lever handle with comfortable plastisol grip standard.

Zinc-plated steel handle nut for corrosion resistance.

Two-piece body — rugged copper alloy construction for more strength and excellent corrosion resistance.

Blowout-proof stem cannot be removed while valve is installed, since it has an interior shoulder and is loaded from within the valve.

Glass reinforced seat rings are standard, for longer lasting seats in high or low temperature applications.

Dimensions Weights Quantities

KEY TO FIGURE NUMBER POSITIONS

End	Valve Designation	Basic Material	Seat Material	Trim
T—Threaded S—Solder	580 Two-Piece Body Construction	BR—Bronze	R—Reinforced TFE	70—Bronze Chrome Plated Ball

	T-580	S-580				T
Size	A	A	B	C	D	
1/4	2 3/16	—	1 1/16	3/8	3	
3/8	2 3/8	—	1 1/16	3/8	3	
1/2	2 19/32	1 3/32	1 3/4	1/2	3	
3/4	2 31/32	2 21/32	2 1/32	1 1/16	3 3/4	
1	3 3/8	3	2 3/32	7/8	3 3/4	
1 1/4	3 13/16	2 11/16	2 21/32	1	5 1/2	
1 1/2	4 1/8	2 7/8	2 7/8	1 1/4	5 1/2	
2	4 23/32	3 3/8	3 1/32	1 1/2	5 1/2	1

ZE BALL VALVES

to stay competitive and all too often quality is sacrificed. That is not true with NIBCO. We continue to produce quality valves that customers of NIBCO have become used to without sacrificing a competitively priced valve.

Applications

RESIDENTIAL			
FLUIDS	USAGE	APPLICATIONS	
Water	Shutoff Low Velocity Throttling	Water Heater Water Softener Sprinklers Main Shutoff	Solar Swimming Pools

COMMERCIAL/INDUSTRIAL			
FLUIDS	USAGE	APPLICATIONS	
Water	Shutoff Low Velocity Throttling	Chillers Condensers Pumps	Vats Condensate Lines
Steam	Shutoff Low Velocity Throttling	Cookers Steam Trace Line Branch Lines	Hose Stops Equipment Shutoff
Air	Shutoff Low Velocity Throttling	Non-bleed Branch Lines Condensate Drain Oxygen and All Inert Gases	
Petroleum	Shutoff Low Velocity Throttling	Gasoline Kerosine Diesel	Oil Wax Tar
Chemicals	Shutoff Low Velocity Throttling	Solvents Paint Resins Glues	Ink Varnish Glucose Alcohol

Material List

PART	SPECIFICATION
1. Handle Nut	Zinc Plated Steel
2. Handle	Zinc Plated Steel, Plastisol Coated
3. Stem	Brass, ASTM B-16
4. Packing Gland	Brass, ASTM B-16
5. Packing	TFE
6. Thrust Washer	Reinforced TFE
7. Body End Piece	1/4"-1/2" Brass, ASTM B-16 3/4"-2" Cast Bronze, ASTM B584 Alloy 844
8. Seat Ring	Reinforced TFE
9. Ball	Brass, ASTM B-16, Hard Chrome Plated
10. Body	Cast Bronze, ASTM B584 Alloy 844

Stem packing permits adjustment. Includes separate packing nut. Adjustment of packing pressure has minimal effect on turning torque.

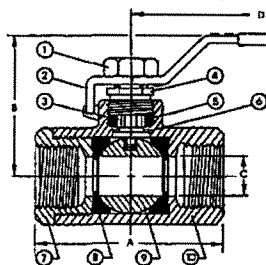
TFE packing adjustable for more life than nonadjustable TFE O-ring designs.

Reinforced TFE thrustwasher permits lower breakaway torque.

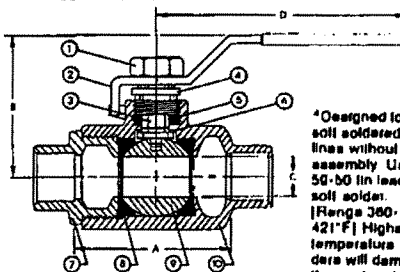
Hard Chrome Plated brass ball is standard, for smooth and durable finish. Ball is wiped clean during each operation of the valve.

Minimal pressure drop due to large ports.

T-580-BR-R-70
threaded NPT x NPT



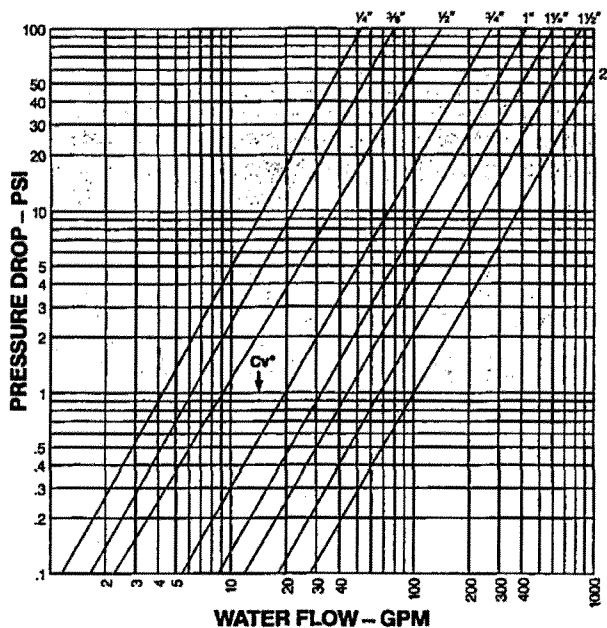
*S-580-BR-R-70
solder C x C



*Designed to be soft soldered into lines without disassembly using 50-50 tin lead soft solder. [Range 380-421°F] Higher temperature solders will damage the seat material.

S-580	T-580	S-580	T-580	S-580
'Cv	Appx. Net Weight		Master Carton Qty.	
—	.50	—	120	—
—	.46	—	120	—
—	.60	.63	90	80
21	1.25	1.32	30	30
32	1.72	1.80	30	15
45	3.08	3.17	15	12
68	4.00	3.91	15	9
110	5.76	5.44	6	6

PRESSURE DROP



WATER FLOW - GPM

1/4" thru 2"
Standard Port

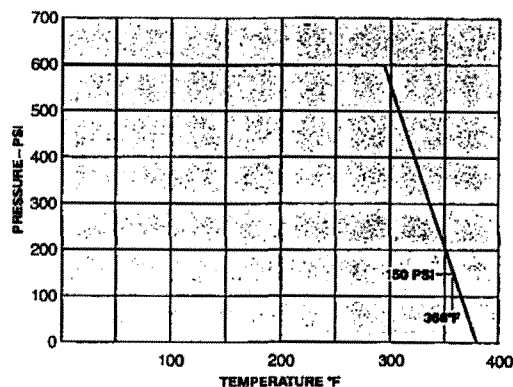
*(Cv is defined as the flow in GPM that a valve will carry with a pressure drop of 1.0 psi when the media is water at 60°)

$$Q = C_v \sqrt{\frac{\Delta P}{S}}$$

where... Q = flow rate (gallons per minute)
ΔP = pressure drop across valve (psi)
S = specific gravity of media

This equation is good for turbulent flow and for liquids with viscosities near that of water.

PRESSURE-TEMPERATURE RATINGS



TORQUE REQUIREMENTS

SIZE	FOOT LBS.
1/4"	2.0
3/8"	2.0
1/2"	2.5
3/4"	3.0
1"	4.5
1 1/4"	7.0
1 1/2"	11
2"	18

SPECIFICATIONS

Approved valves shall have bottom loaded pressure retaining stems, glass reinforced seats and reinforced TFE stem packing seals. Valve shall be pressure rated at 600 psi WOG 1/4" to 2" and 150 psi saturated steam. Each valve shall be tested, air under water, in the opened and closed position by the manufacturer. Valve must conform to Federal Specification WW-V-35B, Type II, Class A, Style 3, End Connection a or c.

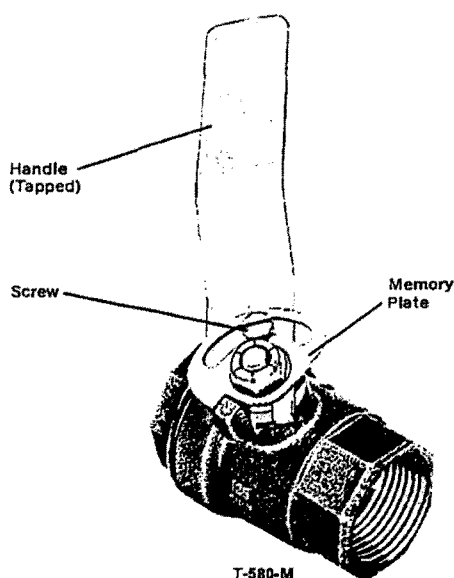


NIBCO INC.
ELKHART, IN 46515

NEW PRODUCT INFORMATION

MEMORY STOP

For NIBCO Ball Valves



Introducing a new memory stop for controlled opening of NIBCO ball valves. Made of sturdy steel, the memory stop can be supplied with the T&S 580, 590 and 595 series ball valves. For field installation, a memory stop kit is available which includes the pre-tapped handle, screw and memory plate. With the new NIBCO Memory Stop, the ball valve can be opened to the same pre-set position each time.

			CNP*								
			¼"	⅜"	½"	¾"	1"	1¼"	1½"	2"	2½"
ADD ON CNP FOR BALL VALVE WITH MEMORY STOP											
Ring Ball™	S580	T580	\$.75	\$.75	\$.75	\$.75	\$.85	\$.85	\$1.00	\$1.00	\$1.00
Three piece	S590	T590	.75	.75	.75	.75	.85	.85	1.00	1.00	1.00
	S595	T595									
Memory Stop Kit	S580,	T580,	1.00	1.00	1.00	1.00	1.15	1.15	1.75	1.75	1.75
Contains:	S590W,	T590W,									
Handle	S595W,	T595W									
Screw											
Memory Plate	S590Y,	T590Y,	1.25	1.25	1.25	1.25	1.60	1.60	2.45	2.45	2.45
	S595Y,	T595Y									

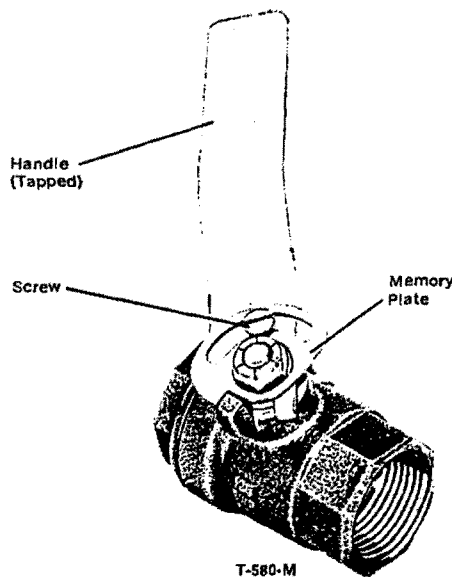
To order ball valve with memory stop, add "M" to figure number and specify size; i.e., T-580-M, S590-WM, T595-YM.

*Based on CNP Schedule SSV-1 dated 4-1-74.

NEW PRODUCT INFORMATION

MEMORY STOP

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			CNP*							
			1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
ADD ON CNP FOR BALL VALVE WITH MEMORY STOP										
Ring Ball™	S580	T580	\$.75	\$.75	\$.75	\$.75	\$.85	\$.85	\$1.00	\$1.00
Three piece	S590	T590	.75	.75	.75	.75	.85	.85	1.00	1.00
	S595	T595								
Memory Stop Kit	S580,	T580,	1.00	1.00	1.00	1.00	1.15	1.15	1.75	1.75
Contains:	S590W,	T590W,								
Handle	S595W,	T595W								
Screw										
Memory Plate	S590Y,	T590Y,	1.25	1.25	1.25	1.25	1.60	1.60	2.45	2.45
	S595Y,	T595Y								

To order ball valve with memory stop, add "M" to figure number and specify size; i.e., T-580-M, S590-WM, T595-YM.

*Based on CNP Schedule SSV-1 dated 4-1-74.

NEW PRODUCT INFORMATION

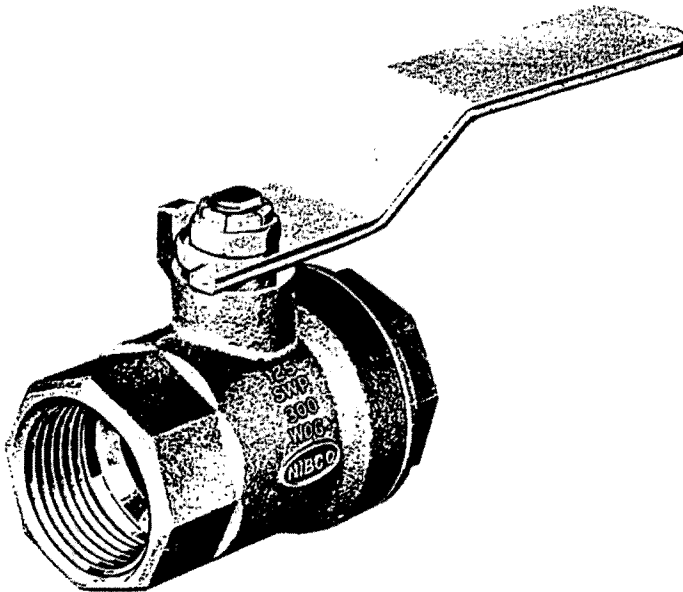
FROM NIBCO[®] INC., ELKHART, INDIANA



NEW RING BALL[™] VALVE

It's more of a valve, and more of a choice.

N.P.I. 1A—April 2, 1973



FEATURES

- High service rating of 125 lbs. S.W.P., 300 lbs. W.O.G. (non-shock).
- Choice of solder or threaded-end connections from 1/4" through 2".
- Conventional part design, for more flow than most ball valves in its price class.
- Bubble-tight, quarter-turn shutoff.
- Adjustable packing of Teflon*-impregnated asbestos for more life than O-ring designs.
- Corrosion-resistant two-piece body of cost red bronze.
- Teflon seats.
- Ball is machined, mirror-finish brass.
- Stem is silicon bronze with reinforced T₁ thrust washer. Blowout-proof design.
- Handle and handle nut are plated steel.
- Complies with Federal specification W₁ Amendment 2, type II, class A, style 3.
- And the exclusive \$5 guarantee** of manufacturing quality.

DIMENSIONS

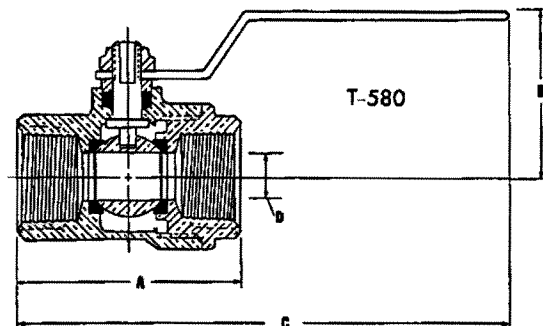
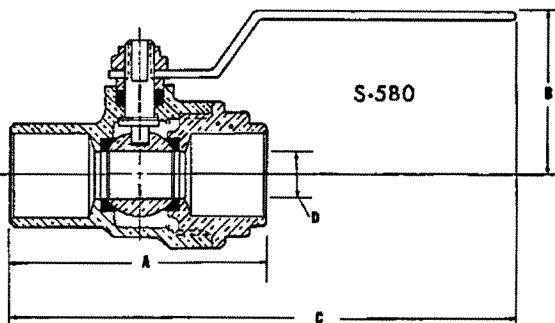
WEIGHTS

QUANTITIES

Nominal Size	Dim. A		Dim. B	Dim. C		Dim. D Port	Approx. Net Wt.		Box Qty.	Carton Qty.	C.N.P.
	Threaded T-580	Solder S-580		Threaded	Solder		Threaded	Solder			
1/4"	2	1 1/4	1 1/4	4 1/4	4 3/4	3/8†	.3	.3	5	100	\$ 3.70
3/8"	2	1 1/4	1 1/4	4 1/4	4 3/4	3/8	.3	.3	5	100	3.70
1/2"	2	1 13/16	1 1/4	4 1/4	4 7/8	3/8	.4	.4	5	100	3.60
3/4"	2 1/2	2 3/4	1 13/16	5	5 1/4	1/2	.7	.7	5	100	5.25
1"	2 3/4	3 1/2	2 1/4	6 1/4	6 1/2	3/4	1.2	1.2	1	50	7.10
1 1/4"	3 1/2	3 13/16	2 1/4	6 1/2	6 1/4	1	1.9	1.7	1	25	13.15
1 1/2"	3 3/4	4 1/4	2 13/16	8 1/4	8 1/8	1 1/4	3.0	2.7	1	10	17.10
2"	4 1/4	5 1/2	3 1/4	8 3/4	9 1/4	1 1/2	4.5	4.4	1	10	22.00

†3/16" on S-580

NOTE: 316 stainless steel ball available. Prices on request.
Combinations of threaded to solder ends available. Prices on request.



*Teflon is a registered trademark of DuPont.

**See a recent NIBCO catalog for the exact wording of this exclusive guarantee.

Supplement to NIBCO P&HV-1 Catalog

NIBCO000603

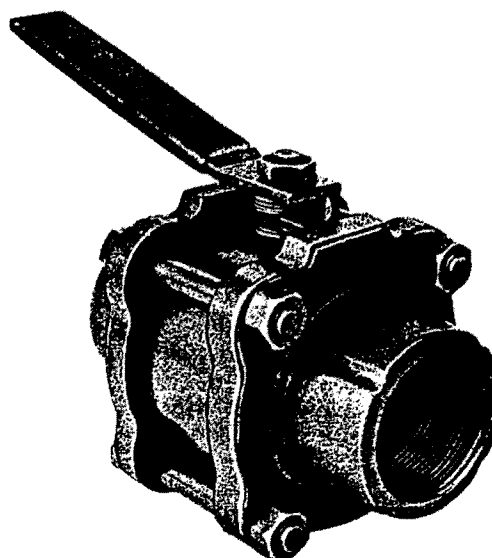
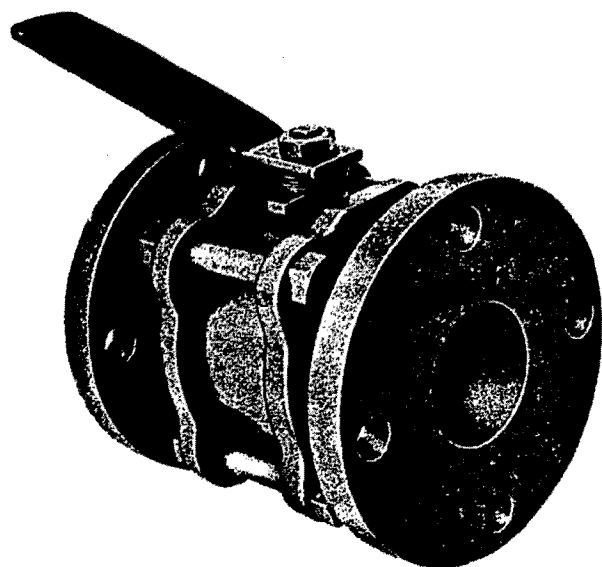
NEW PRODUCT INFORMATION

FROM NIBCO, INC., ELKHART, INDIANA



NPI 2 — February 7, 1977

LOW COST Ferrous Body Ball Valves



Available in threaded, grooved or flanged ends (class 125 flanges)

Available in conventional and full port

Standard stem type 303 S.S. blowout proof design

Standard TFE seats

S. S. locking plate for padlocking in closed position standard

Threaded and grooved valves rated 250 WOG (non-shock) /230° F.

Flanged valves rated 200 WOG (non-shock) /230° F.

All valves available with high-temp. seals for 350° F. rating.

All valves air-under-water tested opened and closed.

Bosses on all sizes for tapping to install test cocks or bypass. (Available upon request)

Fig. No.		Port	1½"	2"	2½"	3"	4"
T-590-NY	threaded	Conv.	\$ —	\$42.00	\$ 70.00	\$140.00	\$ —
G-590-NY	grooved	Conv.	—	42.00	70.00	140.00	—
T-595-NY	threaded	Full	42.00	70.00	140.00	265.00	—
G-595-NY	grooved	Full	42.00	70.00	140.00	265.00	—
F-590-NY	flanged	Conv.	—	—	—	252.00	371.00
F-595-NY	flanged	Full	—	—	252.00	371.00	—

Add 5% for high-temp. seals (350° F)

Hi-temp. seals are Viton for body and seat backing.

Threaded x grooved available at 15% added cost. Also available reducing sizes and other end connection combinations — P.O.A.

316 S. S. ball available — P.O.A.

304 S.S., 316 S. S., cast carbon steel and other iron alloy body materials available — P.O.A.

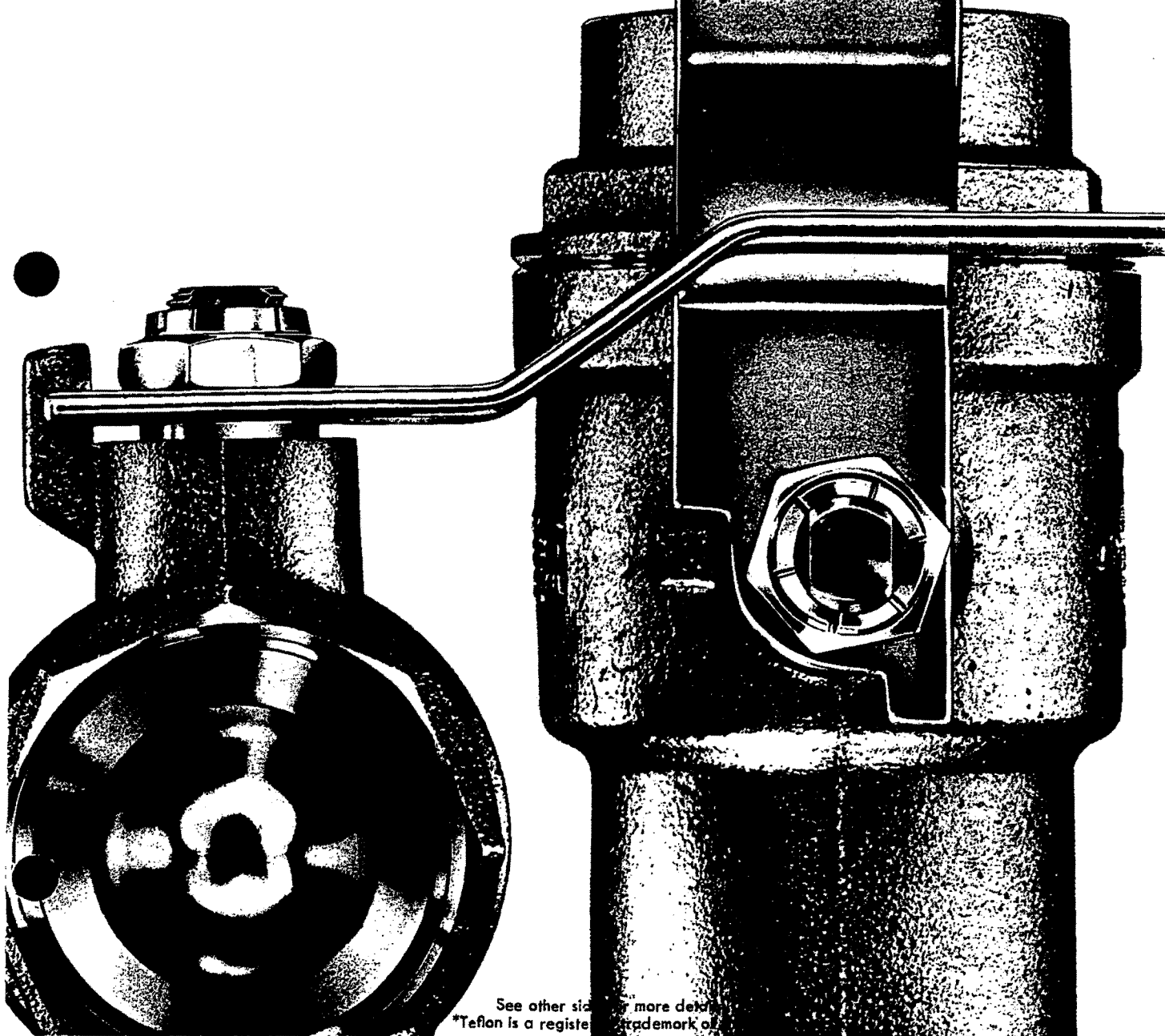
Subject to minimum order quantities.

NIBCO's newest resilient seal entry, **THE RING BALL™ VALVE**

It's more of a valve, and more of a choice.

NIBCO's latest addition to its family of bubble-tight ring seal products is probably the most ball valve you can buy for the money. With its conventional port design, the Ring Ball gives more flow than most valves in its price class. Plus these extra-quality features:

- High service rating of 125 lbs. S.W.P., 300 lbs. W.O.G. (non-shock).
- Choice of solder or threaded-end connections from 1/4" through 2".
- Adjustable packing of Teflon*-impregnated asbestos for more life than O-ring designs.
- Corrosion-resistant cast red bronze body and endpieces.
- Bubble-tight, quarter-turn shutoff.
- Complies with Federal Specification WW-V-35a, Amendment 2, type II, class A, style 3.
- And the exclusive \$5 guarantee of NIBCO manufacturing quality.



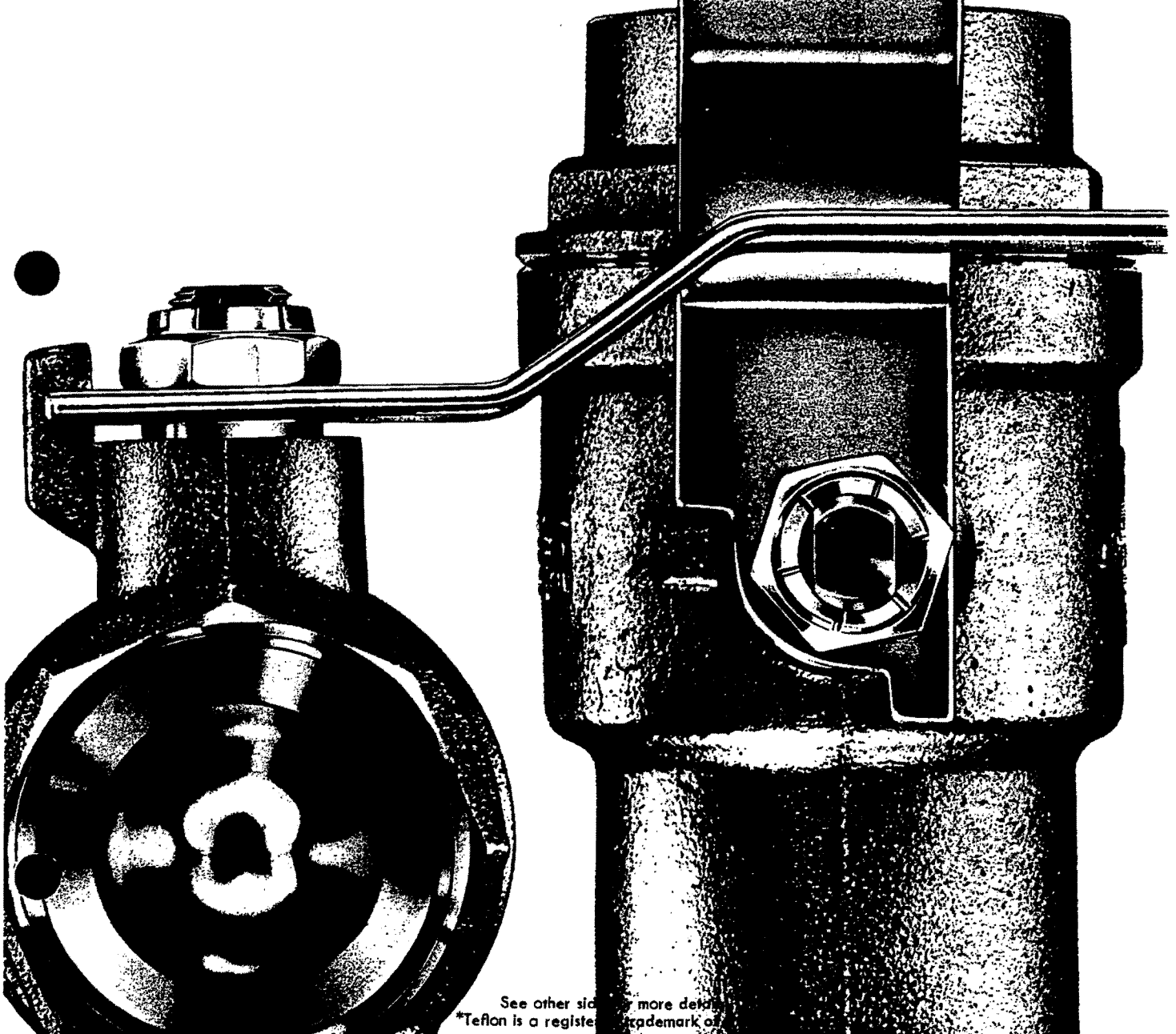
See other side for more details.
*Teflon is a registered trademark of

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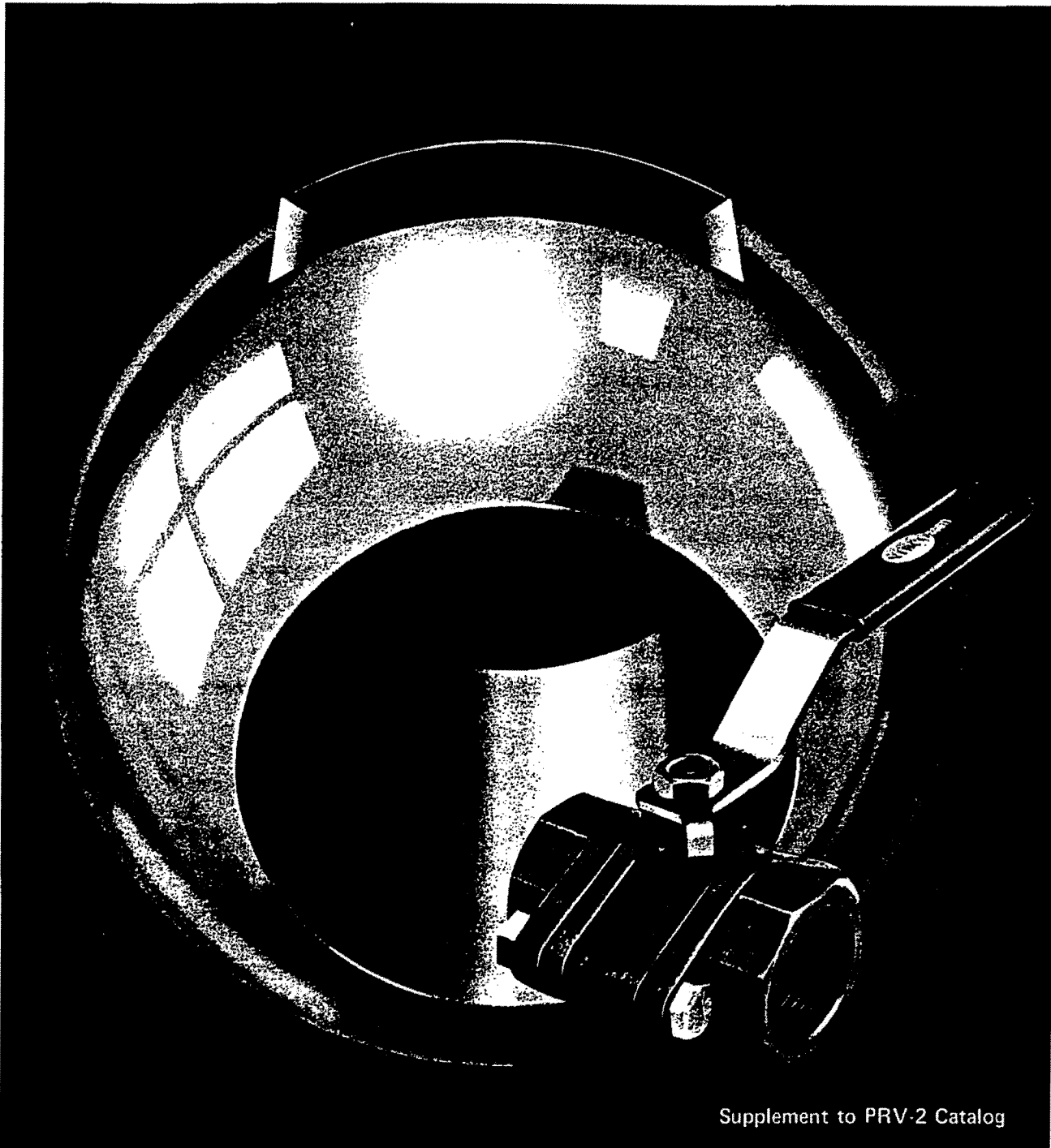
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- And the exclusive \$5 guarantee of NIBCO manufacturing quality.



See other side for more details.
*Teflon is a registered trademark of

NIBCO SCOTT

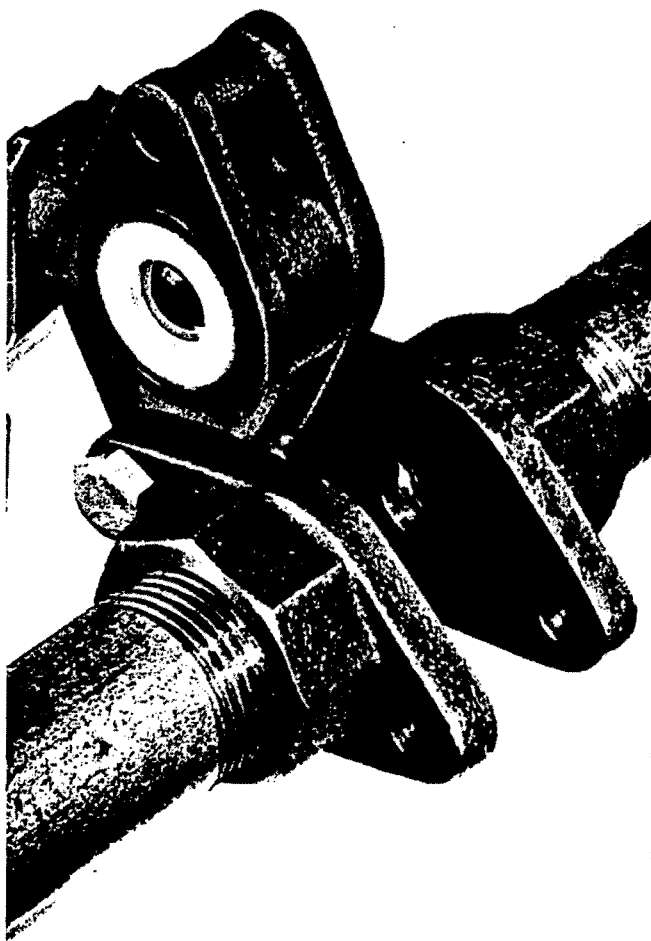
BRONZE BALL VALVES



Supplement to PRV-2 Catalog

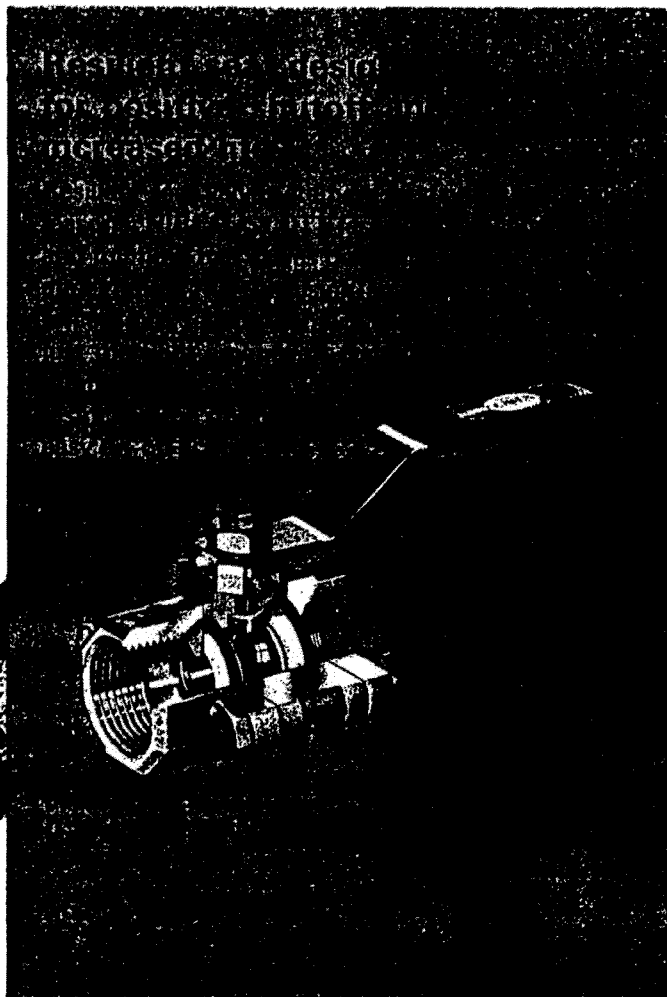
NIBCO/SCOTT Bronze Ball Valves

full flow to bubble-tight
seal in a quick
quarter-turn



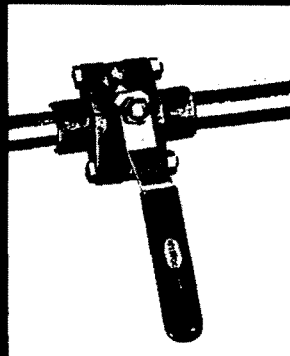
NIBCO/SCOTT the only ball valve GUARANTEED 120%

Confidence is a prime reason for specifying NIBCO / SCOTT Ball Valves. You are assured of reliable operation because this new valve is bubble-tight at operating pressures to 400 psi. In addition, you can base your confidence on the NIBCO / SCOTT name and exclusive 120% guarantee. This is the only ball valve guarantee that replaces a defective valve and also gives up to 20 percent of the valve cost to offset reinstallation expense.

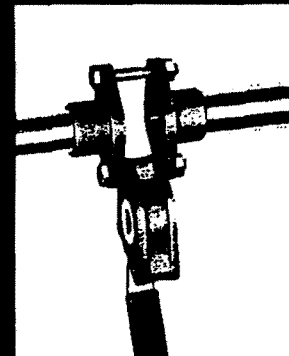


Swing-out accessibility for quick inspection and easy maintenance

NIBCO / SCOTT Ball Valves feature three-piece construction that offers several advantages for initial installation, inspection and repair. The body swings out from the end piece allowing immediate inspection of the seats and seals, and quick replacement if required to maintain bubble-tight shut-off. In addition, swing-out accessibility speeds installation. Ends can be screwed on (or soldered) individually, with the body section installed afterwards. This eliminates the need for a union and means that the valve can be installed in cramped locations.



IN NORMAL CLOSED POSITION

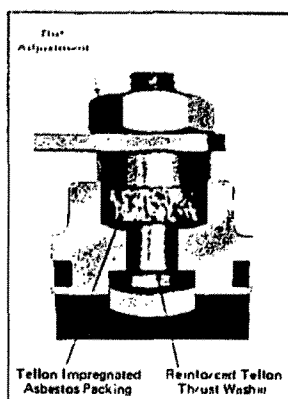


IN SWING-OUT POSITION

NIBCO/SCOTT BALL VALVES OFFER THESE ADVANTAGES

Teflon stem seal

For more positive leak control than is possible with O-rings, NIBCO/SCOTT Ball Valves use Teflon-impregnated asbestos packing in combination with a formed Teflon thrust washer. This feature promotes longer valve life, since seal wear and "play" can be corrected by simply tightening the stem nut. This adjustment can be made with valve in the line.



Full flow option

All sizes of NIBCO/SCOTT full flow Ball Valves through 2" are available with a full port for minimum pressure drop in any installation.

Corrosion resistant

All materials coming in contact with flow are highly corrosion resistant. Body is 85-5-5 bronze, with bronze ball and stem. Buna-N or Teflon seats.

Quick on-off action

An easy quarter-turn of the handle will completely stop or start flow. Handle position indicates at a glance whether the valve is on or off. The valve is readily adaptable to automatic operating devices.

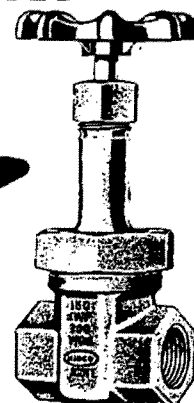
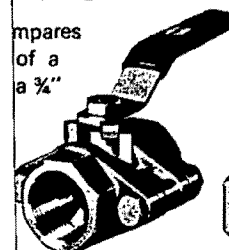
Lubrication-free

This valve gives smooth, easy operation after repeated cycling and never needs lubrication, even when left in one position for long periods.

Lower headroom and less weight because

of its compact size

compares of a 1/2" to a 3/4"



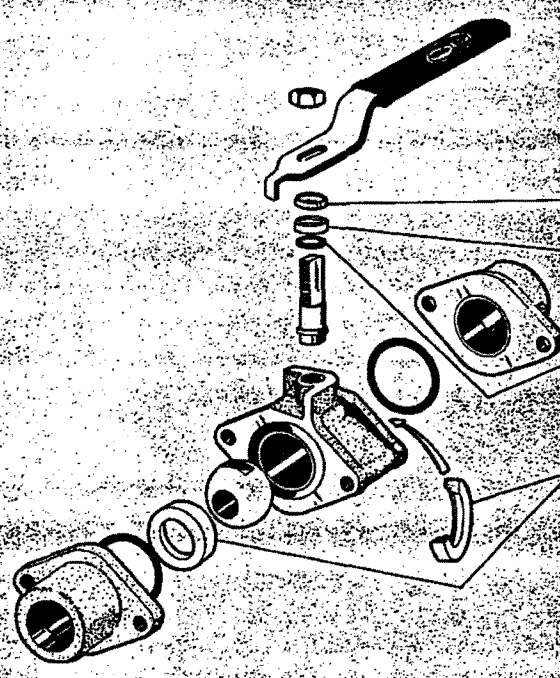
When using a ball valve. Less weight means easier installation, especially in the larger sizes. These proportions remain relatively the same in all size comparisons from 1/4" through 2 1/2"

Interchangeable ends

NIBCO/SCOTT Ball Valve parts are completely interchangeable. A small parts inventory gives you a complete selection of full port and conventional port bodies in both threaded and solder ends. By interchanging valve ends, you can make up a valve which reduces or increases pipe size through the valve. For example, a 1/2" IPS end can be substituted for a 3/4", thus making a 1/2" x 3/4" valve.

Self-cleaning

The design principles inherent in this valve — plus NIBCO/SCOTT precision manufacturing — wipe away deposits with each on-off cycle. Also, NIBCO/SCOTT Ball Valve stem design eliminates galling or freezing of the handle.



MATERIAL SPECIFICATIONS

Body and Body Ends: Cast bronze for high strength, low corrosion, ASTM B62.

Handle, Nuts and Bolts: Zinc dichromate plated steel with plastic handle covering* for insulation. Easy-turn handle prevents scraping of knuckles.

Pack Gland: Brass ASTM B-16 provides a tight seal for pressure or vacuum service.

Packing: Teflon-impregnated asbestos, adjustable for wear.

Stem: Blowout-proof design, silicon bronze stem, ASTM-B371.

Thrust Washer: Reinforced Teflon acts as a firm seal between machined surface of body and stem shoulder, yet permits easy turning of handle.

Ball: Bronze machined for mirror finish. Ball wipes clean as it turns in contact with the seat.

Resilient Seat: Teflon or Buna-N, depending on job conditions. Long lasting; easily replaced.

O-Ring Seal: EPDM (Norden**) is used with Teflon seat; Buna-N with Buna-N seat. Provides extra protection against leakage between body and body end connection. Allows easy replacement whenever necessary.

* Standard with 150# stem valve only.

** DuPont Reg. T.M.

Types: Full or conventional port; solder or threaded ends.

Sizes: 1/4", 1/2", 3/4", 1", 1 1/2", 2", 2 1/2", 3", 4", 6", 8", 10", 12", 14", 16", 18", 20", 24", 30", 36", 42", 48", 60", 72", 84", 96", 108", 120", 144", 168", 192", 216", 240", 264", 288", 312", 336", 360", 384", 408", 432", 456", 480", 504", 528", 552", 576", 600", 624", 648", 672", 696", 720", 744", 768", 792", 816", 840", 864", 888", 912", 936", 960", 984", 1008", 1032", 1056", 1080", 1104", 1128", 1152", 1176", 1200", 1224", 1248", 1272", 1296", 1320", 1344", 1368", 1392", 1416", 1440", 1464", 1488", 1512", 1536", 1560", 1584", 1608", 1632", 1656", 1680", 1704", 1728", 1752", 1776", 1800", 1824", 1848", 1872", 1896", 1920", 1944", 1968", 1992", 2016", 2040", 2064", 2088", 2112", 2136", 2160", 2184", 2208", 2232", 2256", 2280", 2304", 2328", 2352", 2376", 2400", 2424", 2448", 2472", 2496", 2520, 2544, 2568, 2592, 2616, 2640, 2664, 2688, 2712, 2736, 2760, 2784, 2808, 2832, 2856, 2880, 2904, 2928, 2952, 2976, 3000, 3024, 3048, 3072, 3096, 3120, 3144, 3168, 3192, 3216, 3240, 3264, 3288, 3312, 3336, 3360, 3384, 3408, 3432, 3456, 3480, 3504, 3528, 3552, 3576, 3600, 3624, 3648, 3672, 3696, 3720, 3744, 3768, 3792, 3816, 3840, 3864, 3888, 3912, 3936, 3960, 3984, 4008, 4032, 4056, 4080, 4104, 4128, 4152, 4176, 4200, 4224, 4248, 4272, 4296, 4320, 4344, 4368, 4392, 4416, 4440, 4464, 4488, 4512, 4536, 4560, 4584, 4608, 4632, 4656, 4680, 4704, 4728, 4752, 4776, 4800, 4824, 4848, 4872, 4896, 4920, 4944, 4968, 4992, 5016, 5040, 5064, 5088, 5112, 5136, 5160, 5184, 5208, 5232, 5256, 5280, 5304, 5328, 5352, 5376, 5400, 5424, 5448, 5472, 5496, 5520, 5544, 5568, 5592, 5616, 5640, 5664, 5688, 5712, 5736, 5760, 5784, 5808, 5832, 5856, 5880, 5904, 5928, 5952, 5976, 6000, 6024, 6048, 6072, 6096, 6120, 6144, 6168, 6192, 6216, 6240, 6264, 6288, 6312, 6336, 6360, 6384, 6408, 6432, 6456, 6480, 6504, 6528, 6552, 6576, 6600, 6624, 6648, 6672, 6696, 6720, 6744, 6768, 6792, 6816, 6840, 6864, 6888, 6912, 6936, 6960, 6984, 7008, 7032, 7056, 7080, 7104, 7128, 7152, 7176, 7200, 7224, 7248, 7272, 7296, 7320, 7344, 7368, 7392, 7416, 7440, 7464, 7488, 7512, 7536, 7560, 7584, 7608, 7632, 7656, 7680, 7704, 7728, 7752, 7776, 7800, 7824, 7848, 7872, 7896, 7920, 7944, 7968, 7992, 8016, 8040, 8064, 8088, 8112, 8136, 8160, 8184, 8208, 8232, 8256, 8280, 8304, 8328, 8352, 8376, 8400, 8424, 8448, 8472, 8496, 8520, 8544, 8568, 8592, 8616, 8640, 8664, 8688, 8712, 8736, 8760, 8784, 8808, 8832, 8856, 8880, 8904, 8928, 8952, 8976, 9000, 9024, 9048, 9072, 9096, 9120, 9144, 9168, 9192, 9216, 9240, 9264, 9288, 9312, 9336, 9360, 9384, 9408, 9432, 9456, 9480, 9504, 9528, 9552, 9576, 9600, 9624, 9648, 9672, 9696, 9720, 9744, 9768, 9792, 9816, 9840, 9864, 9888, 9912, 9936, 9960, 9984, 10000.

Temperature and Pressure: —40° to 180° F max. (400# WOG) for Buna-N seat. —40° to 350° F max. (400# WOG, 150# SWP) for Teflon.

MEETS FEDERAL SPECIFICATION WW-V-35a, Amend. #1

NIBCO000609

DIMENSIONS

CONVENTIONAL PORT

Size	Approx. Weight Threaded	Approx. Weight Solder	Box Qty.	Carton Qty.	Otm. A Threaded	Dim. A Solder	Dimensions B, C, D, and E same for solder and threaded ends				Dim. F Solder
							B	C	D	E	
1/2"	.9 lbs.	.8 lbs.	5	50	2 1/4	2	2 1/4	3/8	1 1/2	4	1
3/4"	1.2 lbs.	1.0 lbs.	5	50	2 1/2	2 1/4	2 1/2	1/2	1 3/4	4	1 1/4
1"	1.9 lbs.	1.7 lbs.	1	40	3 1/4	3 1/2	2 3/4	3/4	2 1/2	4 1/2	1 1/2
1 1/2"	4.2 lbs.	3.8 lbs.	1	20	3 1/2	3 1/2	3 1/2	1	2 1/2	4 1/2	2
1 3/4"	6.0 lbs.	5.2 lbs.	1	15	4 1/4	4 1/2	3 3/4	1 1/4	3	6 1/2	2 1/4
2"	8.5 lbs.	7.6 lbs.	1	10	4 3/4	5 1/2	4 1/4	1 1/2	3 1/4	6 1/2	2 1/4
2 1/2"	17.2 lbs.	14.4 lbs.	1	1	6 1/2	6 1/2	4 3/4	2	3 3/4	8 1/2	3 1/4

FULL PORT

Size	Approx. Weight Threaded	Approx. Weight Solder	Box Qty.	Carton Qty.	Dim. A Threaded	Dim. A Solder	Dimensions B, C, D, and E same for solder and threaded ends					Dim. F Solder
							B	C	D	E		
1/2"	.8 lbs.	.8 lbs.	5	50	2	1 1/2	2 1/4	3/8*	1 1/2	4	3/4	
3/4"	.8 lbs.	.8 lbs.	5	50	2	1 1/4	2 1/4	3/8	1 1/2	4	1 1/4	
1"	1.1 lbs.	1.0 lbs.	5	50	2 1/4	2 1/4	2 1/4	1/2	1 3/4	4	1 1/4	
1 1/2"	1.8 lbs.	1.7 lbs.	5	40	2 1/4	3 1/2	2 3/4	3/4	2 1/2	4 1/2	1 1/2	
1 3/4"	3.9 lbs.	3.7 lbs.	1	20	3 1/4	3 1/2	3 1/2	1	2 1/2	4 1/2	2	
2"	5.5 lbs.	5.2 lbs.	1	15	3 3/4	4 1/4	3 3/4	1 1/4	3	6 1/2	2 1/4	
2 1/2"	7.8 lbs.	7.5 lbs.	1	10	4 1/4	4 1/2	4 1/4	1 1/2	3 1/4	6 1/2	2 1/4	
3"	14.7 lbs.	14.1 lbs.	1	1	5 1/4	6 1/4	4 1/4	2	3 3/4	8 1/2	3 1/4	

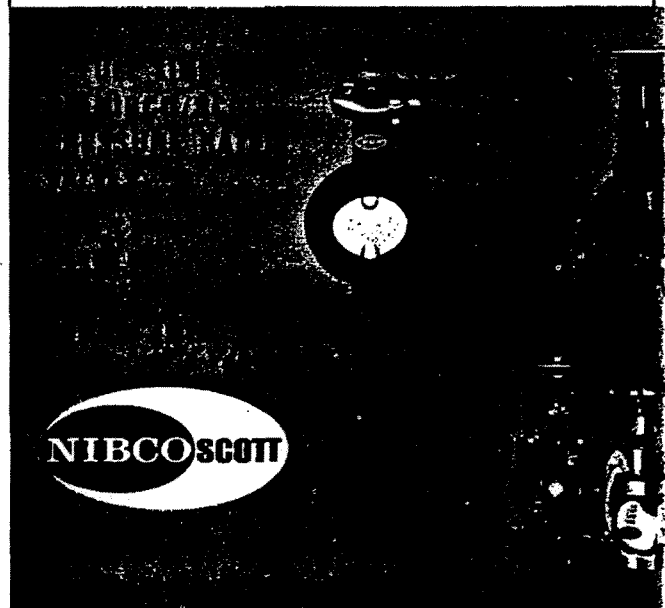
*3/8" for solder end

Exclusive NIBCO/SCOTT Guarantee

NIBCO/SCOTT valves are guaranteed free from defects in materials and workmanship when used in the service for which they are recommended by NIBCO Inc. Any installed NIBCO/SCOTT valve proved defective after subsequent NIBCO factory inspection will be replaced without cost.

In addition, the exclusive NIBCO/SCOTT Guarantee covers reimbursement for replacement labor as follows:

- Reimbursement will be made in an amount equal to 20 percent of published NIBCO/SCOTT Suggested Contractor Net Price in effect at time of valve purchase by the ultimate user or installing contractor.
 - \$5.00 is the minimum reimbursement under this Guarantee.
- Above Guarantee is in lieu of any other stated or implied NIBCO/SCOTT Guarantee. Liability in any case shall not exceed the cost of materials furnished by NIBCO Inc.



DIMENSIONS

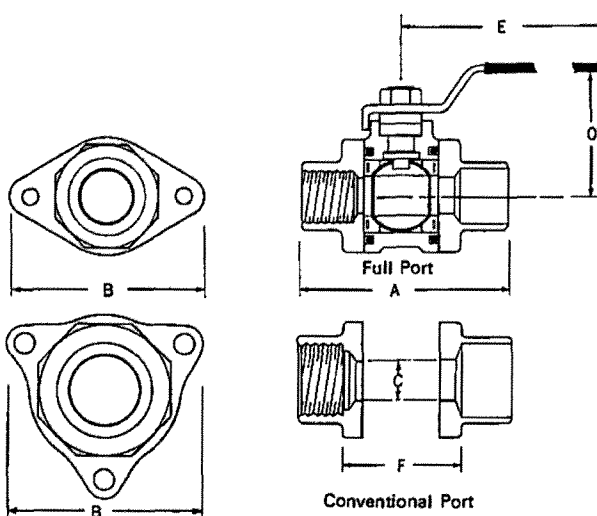
CONVENTIONAL PORT

Size	Approx. Weight Threaded	Approx. Weight Solder	Box Qty.	Car-ten Qty.	Dim. A Threaded	Dim. A Solder	Dimensions B, C, D, and E same for solder and threaded ends					Dim. F Solder
							B	C	D	E		
1/2"	.9 lbs.	.8 lbs.	5	50	2 1/4"	2"	2 1/4"	3/4"	1 1/2"	4"	1"	
3/4"	1.2 lbs.	1.0 lbs.	5	50	2 1/4"	2 1/4"	2 1/4"	3/4"	1 1/2"	4"	1 1/4"	
1"	1.9 lbs.	1.7 lbs.	1	40	3 1/4"	3 1/4"	2 1/4"	3/4"	2 1/4"	4 1/2"	1 1/4"	
1 1/2"	4.2 lbs.	3.8 lbs.	1	20	3 3/4"	3 3/4"	3 3/4"	1"	2 1/4"	4 1/2"	2"	
1 3/4"	6.0 lbs.	5.2 lbs.	1	15	4 1/4"	4 1/4"	3 3/4"	1 1/2"	3"	6 1/2"	2 1/4"	
2"	8.5 lbs.	7.6 lbs.	1	10	4 1/4"	5 1/4"	4 1/4"	1 1/2"	3 3/4"	6 1/2"	2 1/4"	
2 1/2"	17.2 lbs.	14.4 lbs.	1	1	6 1/2"	6 1/2"	4 1/4"	2"	3 3/4"	8 1/2"	3 3/4"	

FULL PORT

Size	Approx. Weight Threaded	Approx. Weight Solder	Box Qty.	Car-ten Qty.	Dim. A Threaded	Dim. A Solder	Dimensions B, C, D, and E same for solder and threaded ends					Dim. F Solder
							B	C	D	E		
1/2"	.8 lbs.	.8 lbs.	5	50	2"	1 1/2"	2 1/4"	3/4"	1 1/2"	4"	1"	
3/4"	.8 lbs.	.8 lbs.	5	50	2"	1 1/2"	2 1/4"	3/4"	1 1/2"	4"	1 1/4"	
1"	1.1 lbs.	1.0 lbs.	5	50	2 1/4"	2 1/4"	2 1/4"	3/4"	1 1/2"	4"	1 1/4"	
1 1/2"	1.8 lbs.	1.7 lbs.	5	40	2 1/4"	3 1/4"	2 1/4"	3/4"	2 1/4"	4 1/2"	1 1/4"	
1"	3.9 lbs.	3.7 lbs.	1	20	3 1/4"	3 3/4"	3 3/4"	1"	2 1/4"	4 1/2"	2"	
1 1/2"	5.5 lbs.	5.2 lbs.	1	15	3 1/4"	4 1/4"	3 3/4"	1 1/2"	3"	6 1/2"	2 1/4"	
1 3/4"	7.8 lbs.	7.5 lbs.	1	10	4 1/4"	4 1/4"	4 1/4"	1 1/2"	3 3/4"	6 1/2"	2 1/4"	
2"	14.7 lbs.	14.1 lbs.	1	1	5 1/4"	6 1/4"	4 1/4"	2"	3 3/4"	8 1/2"	3 3/4"	

* 1/4" for solder end



1" thru 2" Full Port
1 1/4" thru 2 1/2" Conventional Port

Exclusive NIBCO/SCOTT Guarantee

NIBCO/SCOTT valves are guaranteed free from defects in materials and workmanship when used in the service for which they are recommended by NIBCO Inc. Any installed NIBCO/SCOTT valve proved defective after subsequent NIBCO factory inspection will be replaced without cost.

In addition, the exclusive NIBCO/SCOTT Guarantee covers reimbursement for replacement labor as follows:

- Reimbursement will be made in an amount equal to 20 percent of published NIBCO/SCOTT Suggested Contractor Net Price in effect at time of valve purchase by the ultimate user or installing contractor.
- \$5.00 is the minimum reimbursement under this Guarantee. Above Guarantee is in lieu of any other stated or implied NIBCO/SCOTT Guarantee. Liability in any case shall not exceed the cost of materials furnished by NIBCO Inc.

Ordering Information

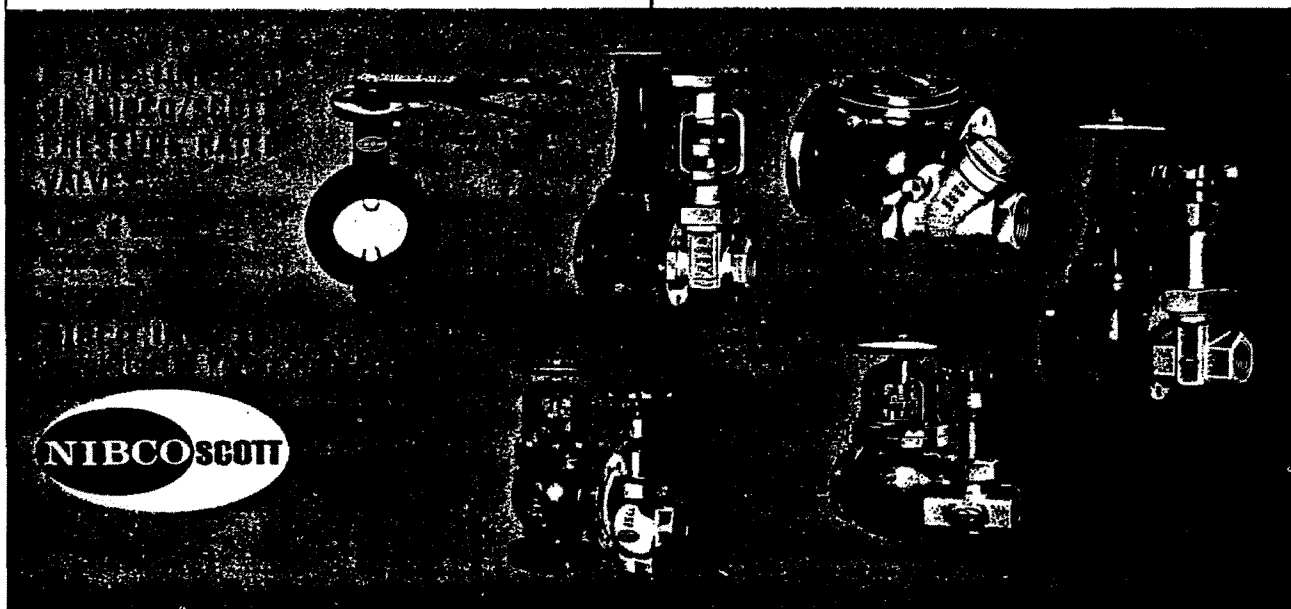
Standard ball valve, with Buna-N seats and stem packing.

	Threaded end	Solder end
Conventional Port	T-590-W	S-590-W
Full Port	T-595-W	S-595-W

Critical Application ball valve, with Teflon seats, bronze ball, insulated handle and stem packing.

	Threaded end	Solder end
Conventional Port	T-590-Y	S-590-Y
Full Port	T-595-Y	S-595-Y

T=Threaded; S=Solder; W=Buna-N; Y=Teflon.



NIBCO/SCOTT