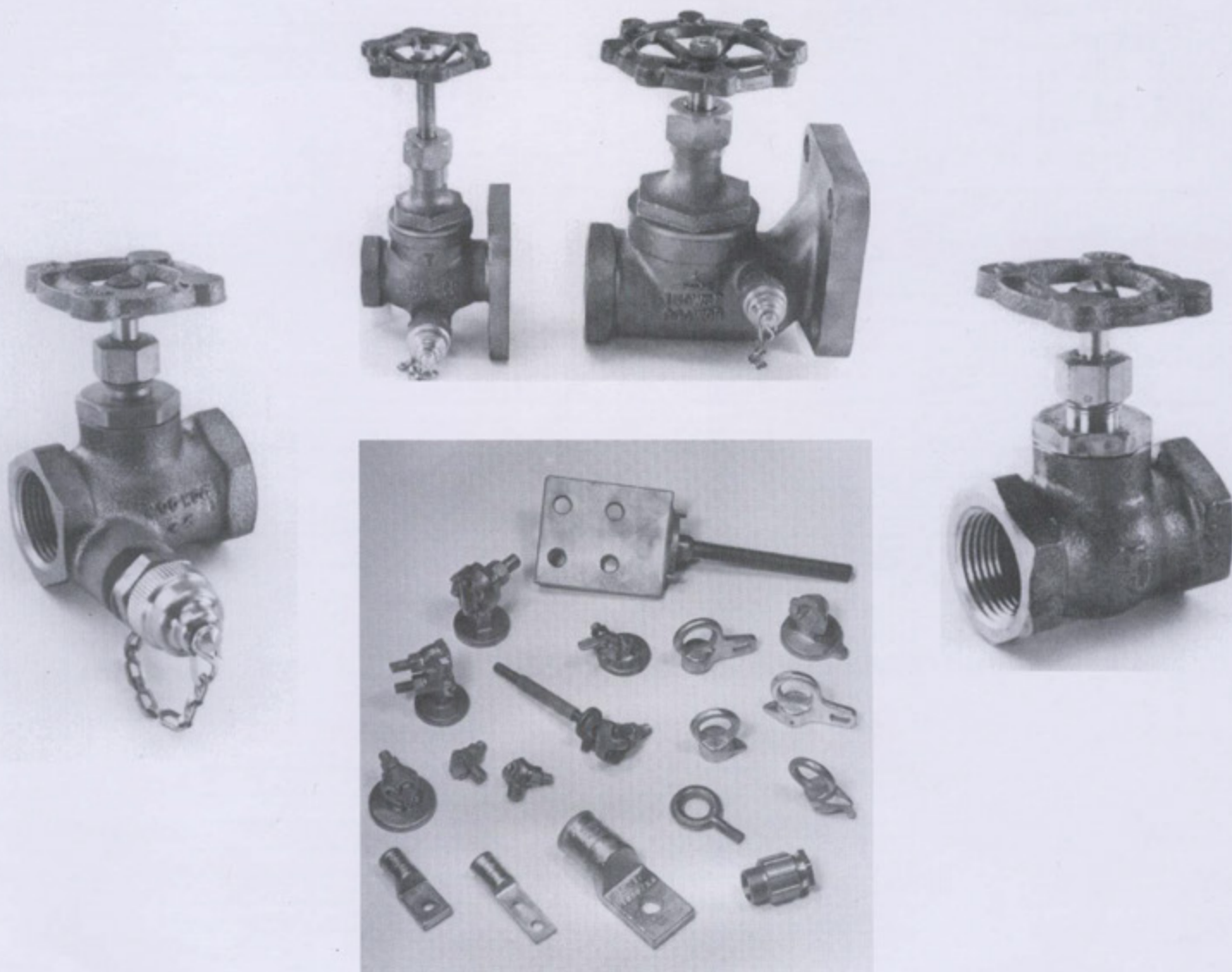


# TJ Manufacturing, Inc.

Bronze Globe Valves, Bushings, Connectors & Spades for Transformers,  
Switchgear & other electrical applications



## **Control Line Equipment, Inc.**

14750 Industrial Parkway

Cleveland, OH 44135

Phone (216) 433-7766

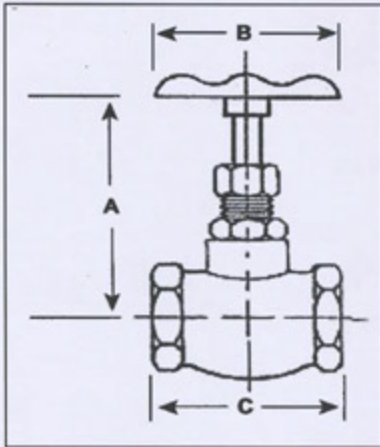
Fax (216) 433-7664

e-mail: [sales@control-line.com](mailto:sales@control-line.com)

visit us on the web at [www.tjmanufacturing.com](http://www.tjmanufacturing.com)

[www.control-line.com](http://www.control-line.com)  
[sales@control-line.com](mailto:sales@control-line.com)

## Bronze Globe Valve - 200 WOG - PTFE Seat Washer



**Dimensions - Inches**

IPS Size	1/4"	1/2"	3/4"	1"	1-1/2"	2"
A - Open	3-1/6"	3-9/16"	3-9/16"	3-13/32"	7-1/2"	7"
B - Die-Cast Handle	2-9/32"	2-9/32"	2-9/32"	2-9/32"		
B - Bronze Handle	2-17/32"	2-17/32"	2-17/32"	2-17/32"	4-13/16"	4-13/16"
C - Body	1-7/8"	2-13/64"	2-5/8"	2-3/4"	4-1/4"	5-1/16"

**Catalog Numbers**

IPS Size	1/4"	1/2"	3/4"	1"	1-1/2"	2"
Die-Cast Handle	372001-01	372007-01	372006-01	373015-01	-	-
Bronze Cast Handle	372001-02	372007-03	372006-02	373015-04	372032-02	373020-02



**200 lbs. WOG  
Threaded Ends  
Rising Stem**

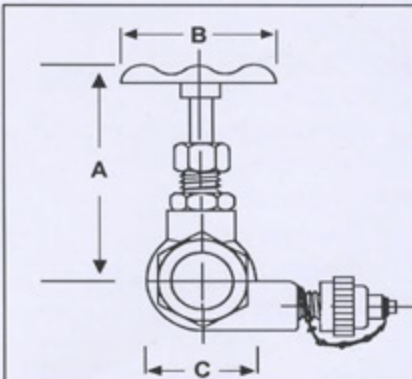
**Body Material: Bronze Conforming to ASTM B584  
100% Pressure Tested  
Modular Disc Holder**

**Dimensions - Inches**

IPS Size	1"	1-1/2"	2"
A-Open	3-9/32"	7-1/2"	7"
B-Die - Cast Handle	2-9/32"	-	-
B-Bronze Handle	2-17/32"	4-13/16"	4-13/16"
C-Body w/o sampler	1-5/8"	1-3/4"	1-27/32"
D-Body with sampler	3-13/16"	3-9/32"	3-9/16"

**Catalog Numbers**

IPS Size		1"	1-1/2"	2"
Die-Cast Handle	w/o sampler	373010-03	-	-
Bronze Cast Handle	w/o sampler	373010-04	372033-04	373021-04
Die-Cast Handle	with sampler	373011-01	-	-
Bronze Cast Handle	with sampler	373011-02	372033-03	373022-03



All sizes of valves are available with installed pipe plug



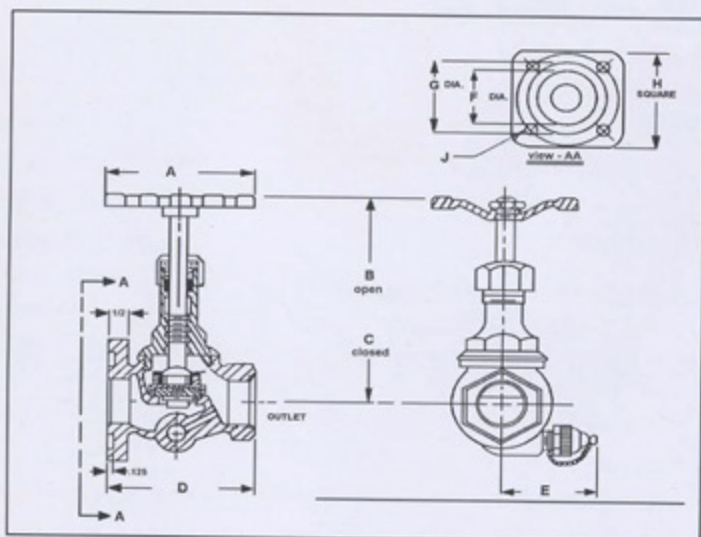


FIG. 1

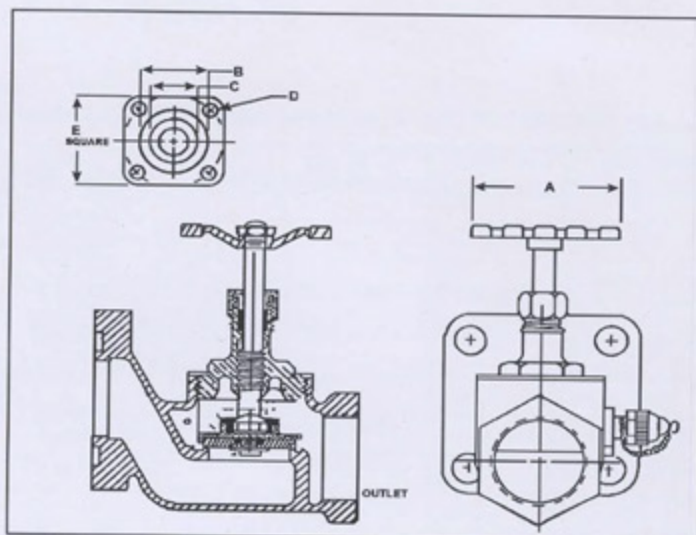


FIG. 2

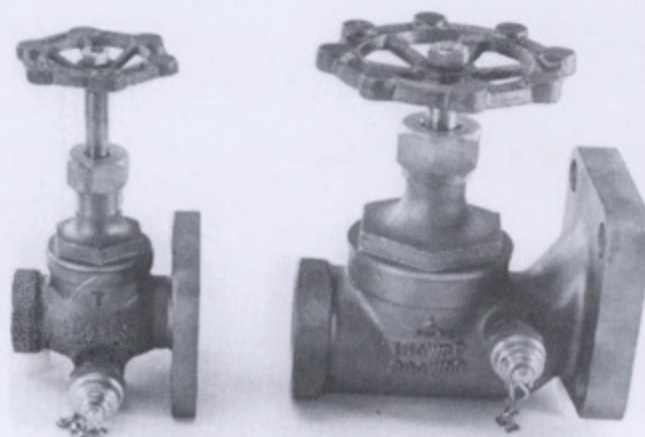
### Dimensions

	Size	A	B	C	D	E	F	G	H	J
FIG. 1	1"	3"	5-7/8"	5-1/2"	3-9/16"	2-3/4"	1-5/8"	2-3/8"	3-1/2"	5/8"
FIG. 2	2"	4-3/4"	3-1/2"	2-3/4"	3/4"	4-5/8"				

ALL FLANGED VALVES ARE EQUIPPED WITH A CAST BRONZE HANDWHEEL

Catalog Number		Reference
1"	2"	
372018-06	372038-01	w/o GG w/o sampler
372018-02	372039-01	w/o GG with sampler
372018-05	372036-01	with GG w/o sampler
372018-07	372037-01	w/o GG with sampler

\*GG Refers to Gasket Groove\*



Both 1" and 2" Flanged Inlet Valves are Available with the Following Options:

- (A) Untapped Boss (Solid Boss)
- (B) 7/16" Bolt Holes
- (C) With 3/8" Pipe Plug Installed in Tapped Boss
- (D) With Pipe Plug Installed in Outlet End of Valve

# DOMESTIC Gate and Ball Valves

## Bronze Ball Valve

Threaded, 600 PSIG WOG, Cold Non-Shock. 150 PSIG Saturated Steam.

Vacuum Service to 29 inches Hg.

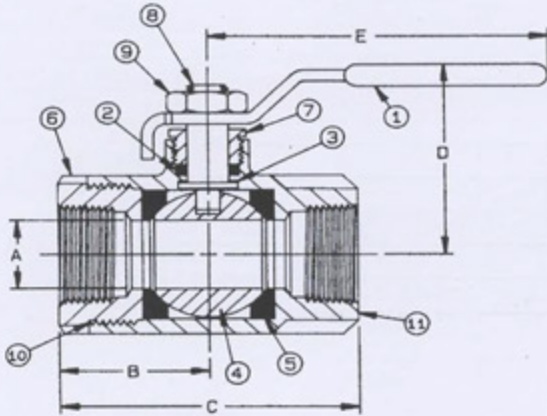
Federal Specifications: WW-V-35C, Type II, Composition: BZ, Style: 3.

## FEATURES

- Chromium plated ball
- Reinforced TFE seats and stuffing box ring
- Blow-out-proof stem design
- Adjustable packing gland

## STANDARD MATERIAL LIST

1. Lever and Grip	Steel, zinc plated w/vinyl	7. Gland nut	B16
2. Stem packing	Reinforced TFE	8. Stem	B16
3. Stem Bearing	Reinforced TFE	9. Lever nut	Steel, zinc plated
4. Ball	B16, chrome plated	10. Body seal	TFE
5. Seat (2)	Reinforced TFE	(1-1/4"-3")	
6. Retainer	B16 (1/4"-1")	11. Body	B583-C84400
	B584-C84400 (1-1/4"-3")		



BRONZE BALL VALVE

NUMBER	SIZE	A	B	C	D	E
70-101	1/4"	0.37	1.03	2.06	1.75	3.87
70-102	3/8"	0.37	1.03	2.06	1.75	3.87
70-103	1/2"	0.50	1.12	2.25	1.75	3.87
70-104	3/4"	0.68	1.50	3.00	2.12	4.87
70-105	1"	0.87	1.68	3.37	2.25	4.87
70-106	1-1/4"	1.00	2.00	4.00	2.62	5.50
70-107	1-1/2"	1.25	2.18	4.37	3.06	8.00
70-108	2"	1.50	2.34	4.68	3.25	8.00
70-109	2-1/2"	2.50	3.25	6.50	4.12	8.00
70-100	3"	2.50	3.37	6.75	4.12	8.00

## Bronze Gate Valve

SCREWED-IN BONNET  
THREADED ENDS

PRESSURE/TEMPERATURE RATINGS

Class 125 Fig. 507

125 psi Steam at 406°F

200 psi Non-Shock Cold Water, Oil or Gas



Fig. 507

Inside Screw Non-Rising Stem

Sizes, 1/4" through 3"

## MATERIALS

DESCRIPTION	MATERIAL	ASTM Spec.
Handwheel Nut	Brass	Commercial
Identification Plate	Aluminum	Commercial
Handwheel	Bronze	ASTM B584
Stem	Silicon Bronze	B-371 C69400
Packing Gland	Brass	B-16
Packing Nut*	Bronze	B-62
Packing	Graphite Non-Asbestos	Commercial
Bonnet	Bronze	B-62
Stuffing Box**	Silicon Bronze	B-371 C69400
Body	Bronze	B-62
Wedge	Bronze	B62

\*Brass ASTM B-16 for 1/4" through 1" valves

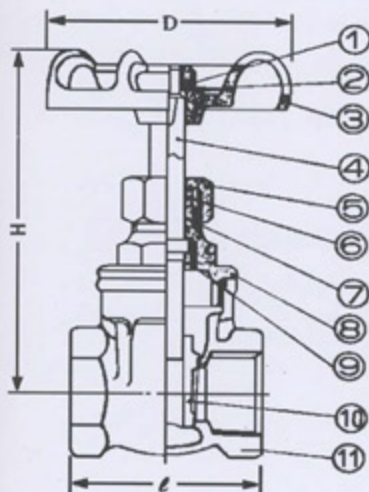
\*\*Furnished on Figs. 507



# IMPORTED Gate and Ball Valves

## GATE VALVE

200 W.O.G.  
Non-rising Stem  
Solid Wedge Disc.  
Screwed Ends



### NOMENCLATURE AND MATERIALS

NO.	PART	MATERIAL	SPEC. JIS	SPEC. ASTM
1	Wheel nut	Brass	C3604B	B16-C36000
2	Name Plate	Aluminum	A1100P	B209-1100
3	Hand Wheel	Cast Iron	FC20	A48 CLASS No. 35
4	Stem	Brass	C3604B	B16-C36000
5	Packing nut	Brass	C3604B	B16-C36000 B584-C857
6	Gland	Brass	C3604B	B16-C36000
7	Gland packing	Graphite	Commercial	Commercial
8	Bonnet	Cast Brass	YBSC3	B584-C857
9	Lock nut	Brass	C3604B	B16-C36000
10	Disc	Cast Brass	YBSC3	B584-C857
11	Body	Cast Brass	YBSC3	B584-C857

### DIMENSIONS-QUANTITIES

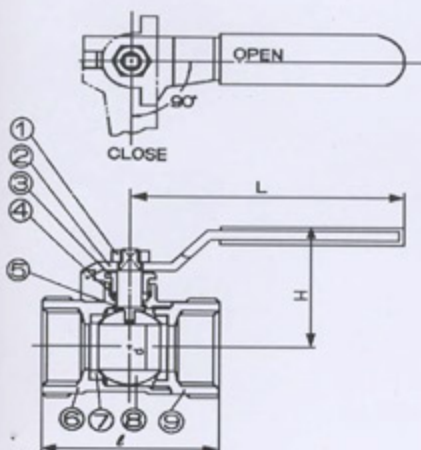
Nominal Size	Dimensions		
	ℓ	H	D
1/4"	41	72	54
3/8"	41	72	54
1/2"	43	74	54
3/4"	47	84	54
1"	56	100	61
1-1/4"	61	116	75
1-1/2"	62	125	75
2"	72	153	81

## BALL VALVE

Standard Port  
Blow-out Proof Stem  
150 PSI Saturated Steam  
400 W.O.G.



MH15973  
Listed  
2J73



### NOMENCLATURE AND MATERIALS

No.	PART	MATERIAL	SPEC. JIS	SPEC. ASTM
1	Nut	Brass	C3604BE	B16-C36000
2	Handle	Steel	SS41	A283-D
2-1	Handle	Cast Iron	FC20	A48 Class No: 35
3	Stem Gland Screw	Brass	C3604BE	B16-C36000
4	Stem Packing	PTFE	PTFE	PTFE
5	Thrust Packing	PTFE	PTFE	PTFE
6	Stem	Brass	C3604BE	B16-C36000
7	Body	Forged Brass	C3771BE	B124-C37700
8	Ball Disc Packing	PTFE	PTFE	PTFE
9	Ball Disc	Brass	C3771BE	B124-C37700
10	End Plug	Forged Brass	C3771BE	B124-C37700
11	Spring Washer	Hard Steel Wire	SWRH52	
12	Name Plate	Aluminum	A1100P	B209-1100

### DIMENSIONS-QUANTITIES

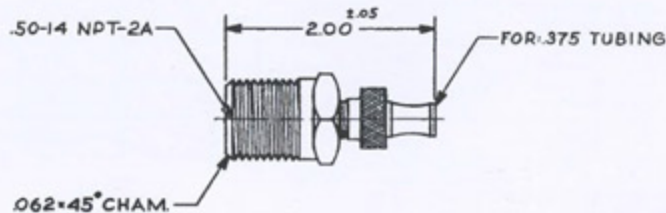
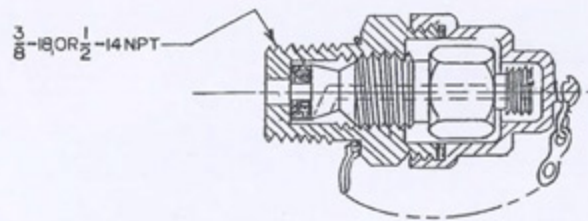
Nominal Size	Dimensions			
	ℓ	H	D	L
1/4"	42	36	8	84
3/8"	42	36	8	84
1/2"	48	38	10	84
3/4"	56	41	15	84
1"	67	51	20	118
1-1/4"	76	55	25.4	118
1-1/2"	85	67	32	134
2"	97	71	38	134

# SAMPLING DEVICE

MADE IN USA

NOTE:  
DUST CAP HAND REMOVEABLE

Size	Part Number	Catalog Number
3/8"	372114-00	SD-38
1/2"	372116-00	SD-12



Size	Part Number	Catalog Number
1/2"	372115-00	SD-12-LC

## Pipe Plugs - Brass or Bronze

Size - IPS	Catalog Number
1/4"	372076-00
3/8"	372077-00
1/2"	372078-00
3/4"	372079-00
1"	372080-00
1-1/2"	372081-00
2"	372082-00

- \* Pipe Plugs are either square or hex head depending on size.
- \* Material is either CDA 844 or CDA 360 depending on size.
- \* Consult factory for additional options such as solid or drilled & tapped plugs.

## OTHER PRODUCTS AVAILABLE

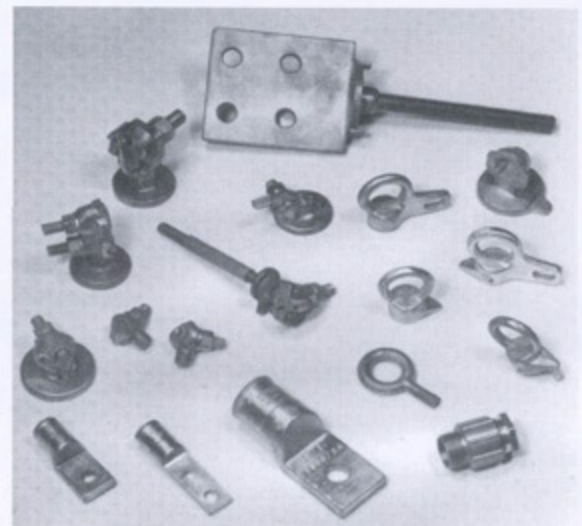
**A. Spades** Spades are cast in CDA 844 material and are available with or without studs, in 3-1/2" or 4" widths. 3/8" or 1/2" thickness and from 2 thru 10 hole NEMA drilling designs.

**B. Grounding Connectors** Eyebolt Type Ground Connectors can be furnished in two sizes, #10 solid to #1 stranded or #8 solid to #2/0 stranded.

**C. Switch Handles** Switch Handles are cast from CDA 844 material and are furnished with or without locking slots, and all have a 1" I.D. ring and are machined to customer specification.

**D. Bushing Connectors** Eyebolt Type Bushing Connectors are manufactured to customer specifications, with or without Copper or Brass studs. Wire size varies from #10 solid to 350 MCM.

**E. Terminal Lugs** Terminal Lugs are cast from 99.95% IACS pure Copper for heavy duty applications, and are electro-tin plated to retard corrosion. Many sizes and configurations are available.



NOTE: Consult Factory for Price and Delivery on these items.





## **T J Manufacturing, Inc.**

**14750 Industrial Parkway  
Cleveland, OH 44135  
Phone (216) 433-7766  
Fax (216) 433-7664**

**TJ Manufacturing, Inc.** was formed and incorporated in February 1989 in Erie, PA. to purchase the product line then manufactured and marketed by Tanner Manufacturing since 1935. TJ manufactures Globe Valves up to two inches in size with threaded ends and markets them primarily to original equipment manufacturers of power transformers, oil switches and other electrical apparatus thru manufacturers' representatives. These globe valves are furnished with or without samplers. Samplers can be furnished on the inlet end or outlet end of the valve.

- **TJ also manufactures** a wide variety of electrical connectors, including bronze transformer ground clamps and transformer connectors, bronze spade connectors, copper compression terminal lugs, bronze switch handles and pull hooks.
- **Smaller than most** of our competitors, TJ is able to give quicker service and maintain excellent quality through more personal attention to our customer needs. TJ is familiar with and encourages "Just in Time" delivery contracts.
- **Because TJ keeps** valves in its warehouse, you get the valves when you need them. we will stock the valves for you, carrying the inventory you will require throughout the year.
- **All valves manufactured** by TJ Manufacturing are 100% tested and visually inspected before they are shipped. Valves are tested at 90-100 lbs. per square inch air pressure applied to the finished valve, which is submerged under water to detect even the slightest defect.
- **TJ Manufacturing sincerely** hopes that the contained information will tell you almost everything you need to know about ordering your valves and other products. However, if you require additional information please call us at your convenience.

**WWW.TJMANUFACTURING.COM**

**sales@control-line.com**