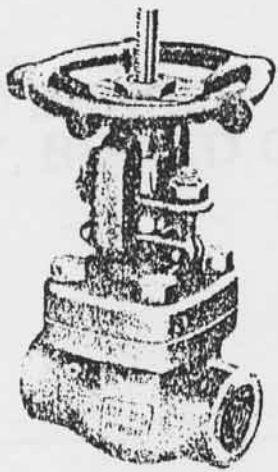


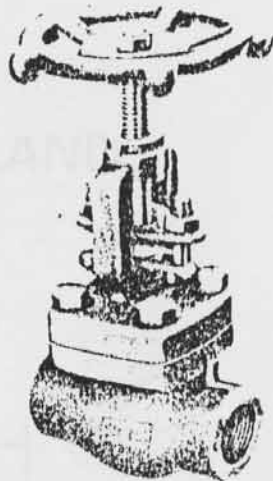
# MANUFACTURING ITEMS

BOLTED BONNET, O.S & Y  
800 LB (800 p.s.i at 850°F)

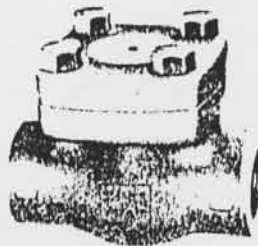
SOCKET WELD  
THREADED



GATE VALVE



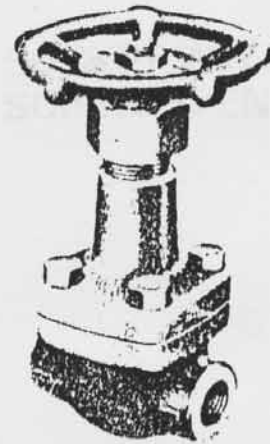
GLOBE VALVE



CHECK VALVE

BOLTED BONNET, INSIDE SCREW  
800 LB (800 p.s.i at 850°F)

SOCKET WELD  
THREADED



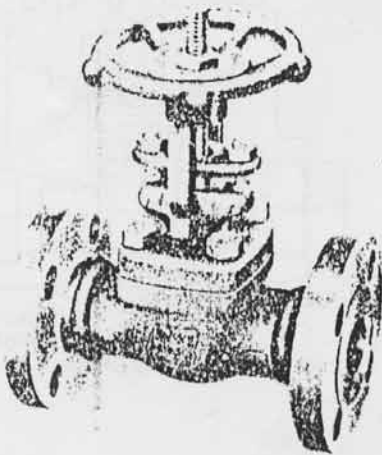
GATE VALVE



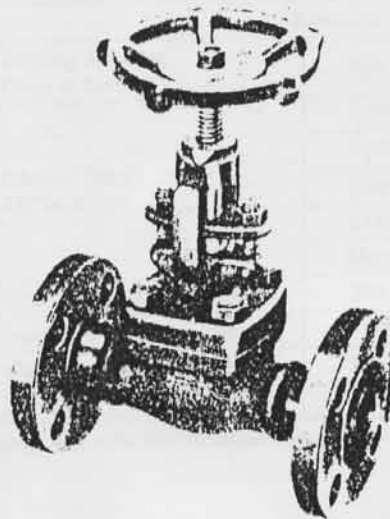
GLOBE VALVE

BOLTED BONNET, O.S & Y

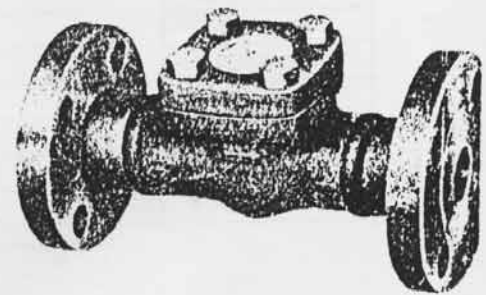
FLANGED TYPE



GATE VALVE



GLOBE VALVE



CHECK VALVE

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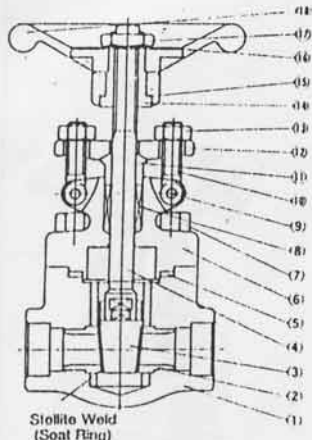
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# TYPICAL VALVE PARTS DESCRIPTION AND STANDARD MATERIAL SPECIFICATION

## Typical Gate

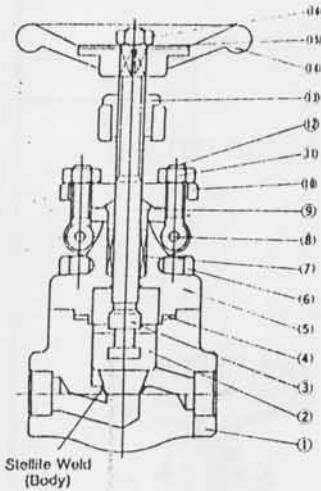
Based on API Standard 602 & BS 5352  
Dimensions and Materials Confirm to API602



No.	Part Name	A105	182-F304	A182-F316
1	Body	ASTM A105	ASTM A182-F304	ASTM A182-F316
2	Seat Ring	AISI Type 410 S.T.L	AISI Type 304 S.T.L	AISI Type 316 S.T.L
3	Disc	AISI Type 410	AISI Type 304	AISI Type 316
4	Stem	AISI Type 410	AISI Type 304	AISI Type 316
5	Gasket	Spiral Wounded Gasket	Spiral Wounded Gasket	Spiral Wounded Gasket
6	Bonnet	ASTM A105	ASTM A182-F304	ASTM A182-F316
7	Bonnet Bolt	ASTM A193 Gr B7	ASTM A193 Gr B8	ASTM A193 Gr B8M
8	Gland Packing	Braided Asbestos + Monel Wire	Braided Asbestos + Monel Wire	Braided Asbestos + Monel Wire
9	Eye Bolt Pin	ASTM A276-304	ASTM A276-304	ASTM A276-304
10	Eye Bolt	ASTM A193 Gr B8	ASTM A193 Gr B8	ASTM A193 Gr B8
11	Gland	ASTM A276-304	ASTM A276-304	ASTM A276-304
12	Gland Flange	ASTM A105	ASTM A105	ASTM A105
13	Eye Bolt Nut	ASTM A194 Gr 2H	ASTM A194 Gr 8	ASTM A194 Gr 8M
14	Sleeve	ASTM A276-410	ASTM A276-410	ASTM A276-410
15	Sleeve Washer	ASTM A276-430	ASTM A276-430	ASTM A276-430
16	Name Plate	Etched Aluminum	Etched Aluminum	Etched Aluminum
17	Lock Nut	ASTM A108-1025	ASTM A108-1025	ASTM A108-1025
18	Hand Wheel	ASTM A47	ASTM A47	ASTM A47

## Typical Globe

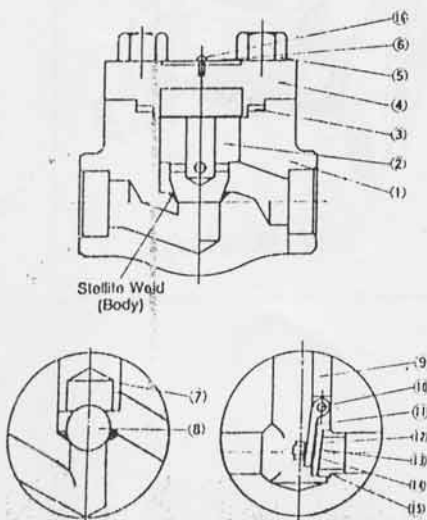
Based on BS 5352  
Dimensions and Materials Confirm to API602



No.	Part Name	A105	ASTM A182-F304	ASTM A182-F316
1	Body	ASTM A105	ASTM A182-F304	ASTM A182-F316
2	Disc	AISI Type 410 AISI Type 420	AISI Type 304	AISI Type 316
3	Stem	AISI Type 410	AISI Type 304	AISI Type 316
4	Gasket	Spiral Wounded Gasket	Spiral Wounded Gasket	Spiral Wounded Gasket
5	Bonnet	ASTM A105	ASTM A182-F304	ASTM A182-F316
6	Bonnet Bolt	ASTM A193 Gr B7	ASTM A193 Gr B8	ASTM A193 Gr B8M
7	Gland Packing	Braided Asbestos + Monel Wire	Braided Asbestos + Monel Wire	Braided Asbestos + Monel Wire
8	Eye Bolt Pin	ASTM A276-304	ASTM A276-304	ASTM A276-304
9	Gland	ASTM A276-304	ASTM A276-304	ASTM A276-304
10	Gland Flange	ASTM A105	ASTM A105	ASTM A105
11	Eye Bolt Nut	ASTM A194 Gr 2H	ASTM A194 Gr 8	ASTM A194 Gr 8M
12	Eye Bolt	ASTM A193 Gr B8	ASTM A193 Gr B8	ASTM A193 Gr B8
13	Sleeve	ASTM A276-410	ASTM A276-410	ASTM A276-410
14	Hand Wheel	ASTM A47	ASTM A47	ASTM A47
15	Name Plate	Etched Aluminum	Etched Aluminum	Etched Aluminum
16	Lock Nut	ASTM A194 Gr 2H	ASTM A194 Gr 2H	ASTM A194 Gr 2H

## Typical Check

Based on BS 5352  
Dimensions and Materials Confirm to API602



No.	Part Name	ASTM A105	ASTM A182-F304	ASTM A182-F316
1	Body	ASTM A105	ASTM A182-F304	ASTM A182-F316
2	Disc	AISI Type 410	AISI Type 304	AISI Type 316
3	Gasket	Spiral Wounded Gasket	Spiral Wounded Gasket	Spiral Wounded Gasket
4	Bonnet (Cap)	ASTM A105	ASTM A182-F304	ASTM A182-F316
5	Bonnet Bolt	ASTM A193 Gr B7	ASTM A193 Gr B8	ASTM A193 Gr B8M
6	Name Plate	Etched Aluminum	Etched Aluminum	Etched Aluminum
7	Bonnet & Ball Guide	ASTM A105	ASTM A182-F304	ASTM A182-F316
8	Ball	AISI Type 420	AISI Type 304	AISI Type 316
9	Hinge Support	AISI Type 410	AISI Type 304	AISI Type 316
10	Hinge Pin	AISI Type 410	AISI Type 304	AISI Type 316
11	Hinge	AISI Type 410	AISI Type 304	AISI Type 316
12	Disc Lock Nut	AISI Type 410	AISI Type 304	AISI Type 316
13	Disc	AISI Type 420	AISI Type 304	AISI Type 316
14	Disc Nut Pin	AISI Type 410	AISI Type 304	AISI Type 316
15	Seal	AISI Type 410 S.T.L	AISI Type 304	AISI Type 316
16	Rivet	ASTM B134-260	ASTM B134-260	ASTM B134-260

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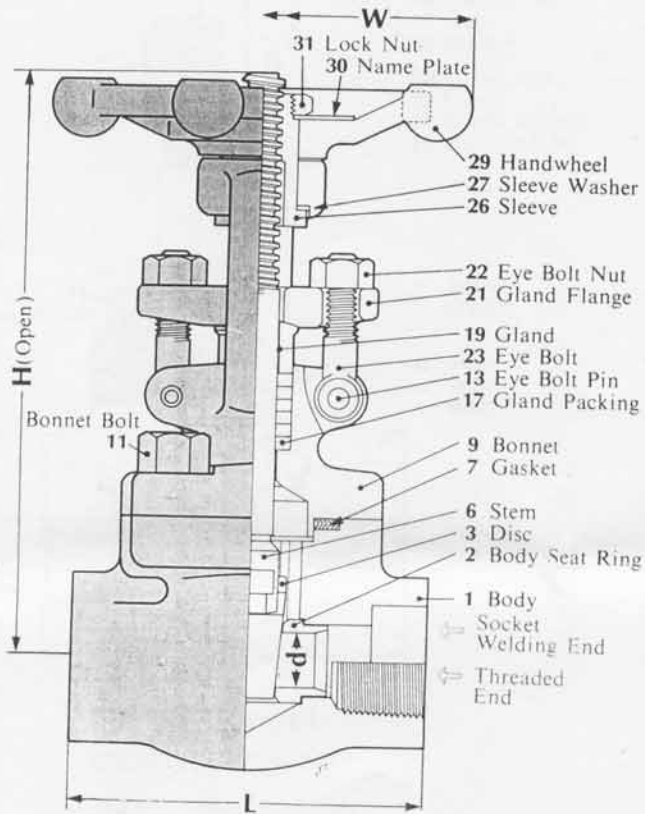
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# Steel GATE VALVE Class 800

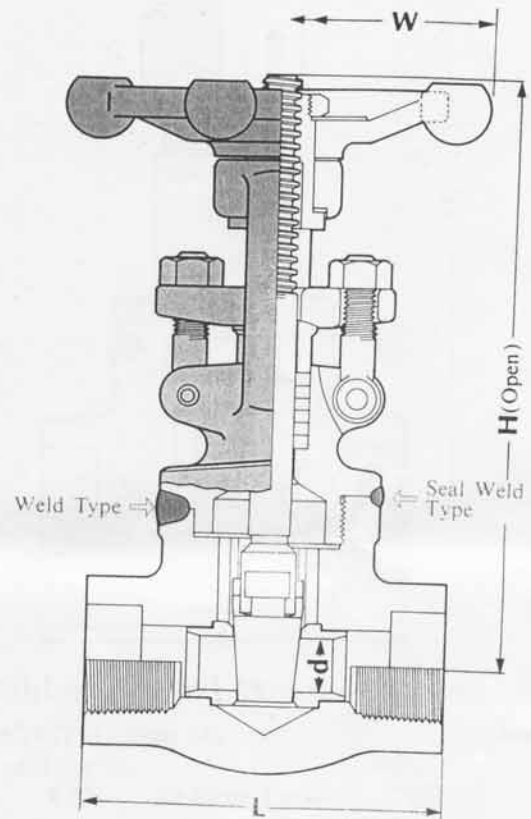
Bolted, Welded or Seal Welded Bonnet

## Outside Screw and Yoke



**Bolted Bonnet**  
SHORITSU Type No.

021 .....Reduced Port  
F21 .....Full Port



**Welded or Seal Welded Bonnet**  
SHORITSU Type No.

Weld Type Seal Weld Type  
W21 .....Reduced Port ..... S21  
FW21 ..... Full Port .....FS21

### DIMENSIONS (mm)

		Valve Size, inch								
		1/4	3/8	1/2	3/4	1	1-1/4	1-1/2	2	
Reduced Port	d Port Dia.	7	10	10	13	18	24	29	36.5	
	L End to End	79	79	79	92	111	120	120	140	
	H Center to Top (Open)	149	151	151	158	185	239	243	279	
	W Handwheel Dia.	100	100	100	100	125	160	160	180	
	Weight, Kg	1.9	1.9	1.9	2.1	3.2	6.9	6.9	10.4	
Full Port	d Port Dia.	7	10	13	18	24	29	36.5	46.5	
	L End to End	79	79	92	111	120	120	140	178	
	H Center to Top (Open)	149	151	158	185	239	243	279	328	
	W Handwheel Dia.	100	100	100	125	160	160	180	200	
	Weight, Kg	1.9	1.9	2.1	3.2	6.9	6.9	10.4	15.8	

For further detailed information:

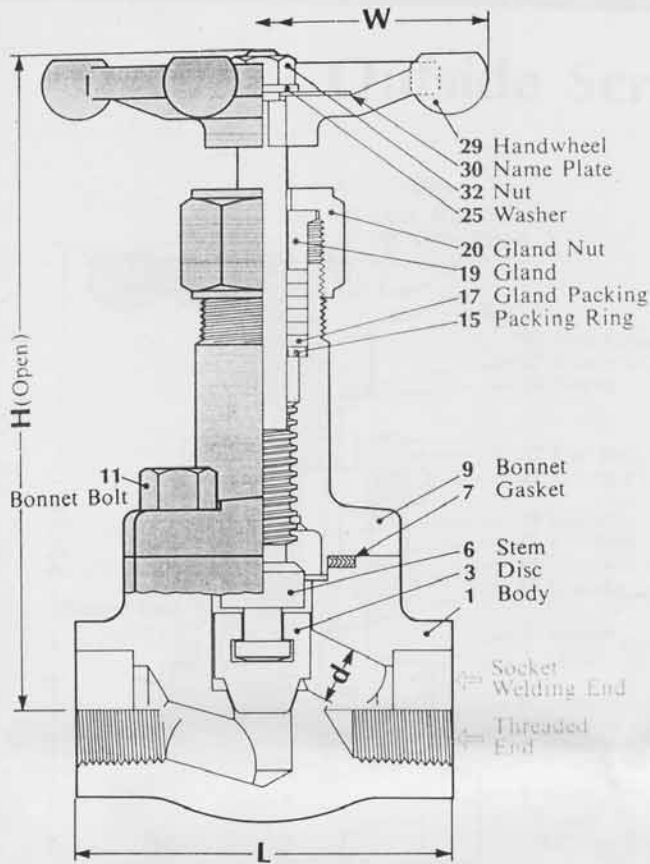
See Page 11 for Dimensions of End Connections, Page 14 for Gland Packing and Gasket, Page 15 for Materials.

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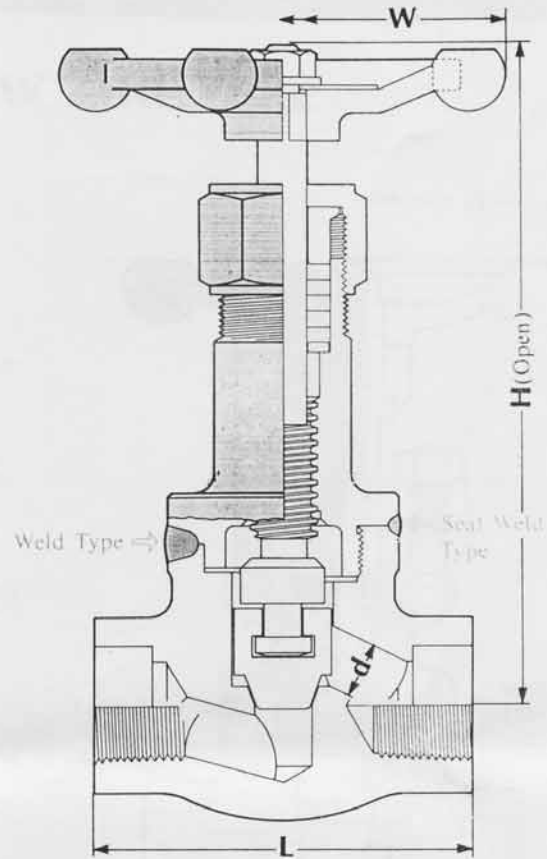
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# Inside Screw



## Bolted Bonnet

SHORITSU Type No.  
I22.....Reduced Port  
FI22.....Full Port



## Welded or Seal Welded Bonnet

SHORITSU Type No.  
Weld Type Seal Weld Type  
X22.....Reduced Port..... Z22  
FX22..... Full Port .....FZ22

### DIMENSIONS (mm)

Valve Size, inch		1/4	3/8	1/2	3/4	1	1-1/4	1-1/2	2
Reduced Port	d Port Dia.	6	7	10	13	17.5	23	30	35
	L End to End	79	79	79	92	111	152	152	172
	H Center to Top (Open)	157	157	157	162	195	267	267	301
	W Handwheel Dia.	100	100	100	100	125	160	160	180
	Weight, Kg	1.9	1.9	1.9	2.1	3.3	7.5	7.5	11.4
Full Port	d Port Dia.	6	10	13	17.5	23	30	35	
	L End to End	79	79	92	111	152	152	172	
	H Center to Top (Open)	150	157	162	195	267	267	301	
	W Handwheel Dia.	100	100	100	125	160	160	180	
	Weight, Kg	1.9	1.9	2.1	3.3	7.5	7.5	11.4	

ここに記載されていない項目については、以下のページを参照して下さい。

Page 11 ...バルブ両端接続部寸法 Page 14 ...グランドパッキン及びガスケット Page 15 ...バルブ材質

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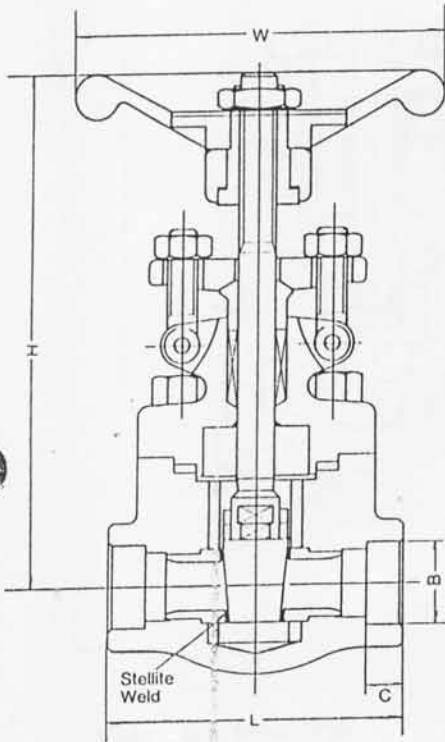
150 – 800LBS

# GATE VALVE

FORGED STEEL

**BOLTED BONNET  
O.S & Y, BOLTED GLAND**

**SOCKET WELD ENDS  
SCREWED ENDS**



Ratings:	Test Pressure
Carbon Steel – ASTM A105 800 p.s.i at 850°F 2,000 p.s.i at –20°F to 100°F	Hydraulic : Body – 3,000 p.s.i Seat – 2,200 p.s.i Air : Seat – 80 p.s.i

### Valve Type Number

Materials		Type
Forging Material Body & Bonnet	Trim Material	
Carbon Steel ASTM A105	13% Cr. S.S Half S.T.L	SAB08151
	13% Cr. S.S Full S.T.L	SAB08152
	304 S.S	SAB08154
	316 S.S	SAB08156
	Monel Metal	SAB08155
Type 304 Stainless Steel	304 S.S	SAB08344
Type 316 Stainless Steel	316 Cr. S.S	SAB08366
1 ¼% Cr. ½% Moly Steel	13% Cr. S.S	SAB08111
2 ¼% Cr. 1% Moly Steel	13% Cr. S.S	SAB08221

To order: Add suffix S/E for screwed end or S/W for socket weld end.

### Valve Dimensions

Size	Center to Top(Open) H	End to End L	Hand Wheel Dia. W	Socket Weld		Threaded Depth S	Thread d <sub>1</sub>	Approx. Weight (kg)
				Bore B	Depth C			
¼	155 (6.10)	79(3.11)	100(3.94)	14.10-14.35(0.555-0.565)	10(0.38)	10.0(0.40)	¼(N)PT	2.00
⅜	155 (6.10)	79(3.11)	100(3.94)	17.55-17.80(0.690-0.700)	10(0.38)	10.5(0.41)	⅜(N)PT	1.98
½	155 (6.10)	79(3.11)	100(3.94)	21.70-21.95(0.855-0.865)	10(0.38)	13.5(0.53)	½(N)PT	1.90
¾	155 (6.10)	92(3.62)	100(3.94)	27.05-27.30(1.065-1.075)	13(0.50)	14.0(0.55)	¾(N)PT	2.20
1	193 (7.60)	111(4.37)	130(5.12)	33.80-34.05(1.330-1.340)	13(0.50)	17.5(0.68)	1 (N)PT	4.10
1 ¼	248 (9.76)	120(4.72)	170(6.69)	42.55-42.80(1.675-1.685)	13(0.50)	18.0(0.71)	1 ¼(N)PT	7.30
1 ½	248 (9.76)	120(4.72)	170(6.69)	48.65-48.90(1.915-1.925)	13(0.50)	18.5(0.72)	1 ½(N)PT	7.28
2	286(11.26)	140(5.51)	170(6.69)	61.10-61.35(2.406-2.416)	16(0.62)	19.0(0.76)	2 (N)PT	10.80

(1) Complete pressure-temperature ratings on P32

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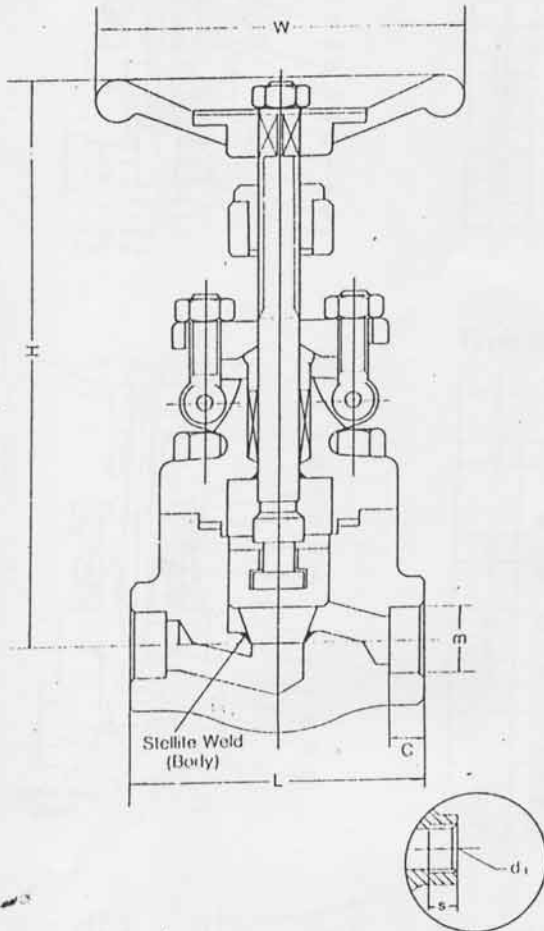
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150 – 800LBS

**GLOBE VALVE**

FORGED STEEL

**BOLTED BONNET  
O.S & Y, BOLTED GLAND****SOCKET WELD EN  
SCREWED ENDS**

Ratings:	Test Pressure:
Carbon Steel – ASTM A105 800 p.s.i at 850°F 2,000 p.s.i at – 20°F to 100°F	Hydraulic : Body – 3,000 p.s.i Seat – 2,200 p.s.i Air : Seat – 80 p.s.i

**Valve Type Number**

Materials		Type
Forging Material Body & Bonnet	Trim Material	
Carbon Steel ASTM A105	13% Cr. S.S Half S.T.L	SLB081
	13% Cr. S.S Full S.T.L	SLB081
	304 S.S	SLB081
	316 S.S	SLB081
	Monel Metal	SLB081
Type 304 Stainless Steel	304 S.S	SLB082
Type 316 Stainless Steel	316 Cr. S.S	SLB082
1 ¼ % Cr. ½ % Moly Steel	13% Cr. S.S	SLB081
2 ¼ % Cr. 1% Moly Steel	13% Cr. S.S	SLB082

**Valve Dimensions**

Size	Center to Top (Open) H	End to End L	Hand Wheel Dia. W	Socket Weld		Threaded Depth S	Threaded d <sub>1</sub>	Ap W I
				Bore B	Depth C			
¼	164 (6.46)	79(3.11)	100(3.94)	14.10-14.35(0.555-0.565)	10(0.38)	10.0(0.40)	¼(N)PT	
⅜	164 (6.46)	79(3.11)	100(3.94)	17.55-17.80(0.690-0.700)	10(0.38)	10.5(0.41)	⅜(N)PT	
½	164 (6.46)	79(3.11)	100(3.94)	21.70-21.95(0.855-0.865)	10(0.38)	13.5(0.53)	½(N)PT	
¾	164 (6.46)	92(3.62)	100(3.94)	27.05-27.30(1.065-1.075)	13(0.50)	14.0(0.55)	¾(N)PT	
1	201 (7.91)	111(4.37)	130(5.12)	33.80-34.05(1.330-1.340)	13(0.50)	17.5(0.68)	1 (N)PT	
1¼	260(10.24)	152(5.98)	170(6.69)	42.55-42.80(1.675-1.685)	13(0.50)	18.0(0.71)	1¼(N)PT	
1½	260(10.24)	152(5.98)	170(6.69)	48.65-48.90(1.915-1.925)	13(0.50)	18.5(0.72)	1½(N)PT	
2	289(11.38)	172(6.77)	170(6.69)	61.10-61.35(2.406-2.416)	16(0.62)	19.0(0.76)	2 (N)PT	

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