## Buttweld Top Entry Valves

## **Buttweld Valve Dimensions**

ANSI 300 Class Buttweld* To Entry Valves									
Size	Α	В	С	D	E	F			
1/2"	0.81	2.75	5.50	3.48	5.15	1.70			
3/4"	0.81	3.00	6.00	3.48	5.15	1.70			
1"	0.81	3.25	6.50	3.66	5.15	1.88			
1-1/2"	1.17	3.75	7.50	4.22	5.94	2.01			
2" 3"	1.50	4.25	8.50	5.02	7.87	2.50			
3"	2.25	5.56	11.13	6.60	19.12	2.93			
4"	3.00	6.00	12.00	8.07	19.50	3.32			
6"**	4.50	7.94	15.88	10.59	36.00	4.97			
8"**	6.00	10.25	20.50	14.39	47.00	6.51			

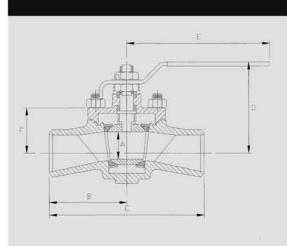
<sup>\*</sup> Available in Schedule 10, 40 and 80 where appropriate.

## ANSI 600 Class Buttweld\* Top Entry Valves

Size	Α	В	C	D	Ε	F	
1/2"	0.81	2.75	5.50	4.93	8.50	1.92	
3/4" 1"	0.81	3.75	7.50	5.17	8.50	2.16	
1"	0.81	4.25	8.50	5.23	8.50	2.22	
1 1/2"	1.17	4.75	9.50	6.07	12.50	2.38	
2"	1.50	5.75	11.50	7.09	14.75	3.00	
3"	2.25	7.00	14.00	8.84	19.50	NA	
1 1/2" 2" 3" 4" ** 6" **	3.00	8.50	17.00	10.33	36.00	NA	
6" **	4.50	11.00	22.00	NA	NA	NA	

<sup>\*</sup> Available in Schedule 40 and 80 where appropriate.





<sup>\*\*</sup> Gear Operator or Actuation Recommended.

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# How To Specify Apollo Top Entry Ball Valves

#### **BODY MATERIAL**

- A Alloy 20
- B CF3M SS (Flanged)
- C Carbon Steel
- F Inconel
- H Hastelloy C
- M M35-1
- N Nickel
- S 316 SS
- T Titanium

#### TRIM MATERIAL

- A Alloy 20
- B 316L SS
- D Hastelloy C Stem M35-1 Ball
- E 410 SS
- F Inconel
- H Hastelloy C
- M M35-1 (Monel)
- N Nickel
- S 316 SS
- T Titanium

### VII. MARKINGSHALE INC.

- 1 TFE (Figure 1)
- 2 RTFE (Figure 1)
- 3 RTFE Seat (Figure 2)
- 4 Carbon Graphite -750°F max. (Figure 1)
- 5 55% Bronze, 5% Moly, (Figure 2)

**SEAT (FIGURES ON PAGE 15)** 

SIZE

3-1/2"

4 - 3/4"

7-1-1/2"

5 - 1"

8 - 2"

0 - 3"

A - 4"

C - 6"

E - 8"

G - 10"

H - 12"

- 6 UHMWPE (Figure 2)
- 7 API-607 Certified (TFE Seat, TFE O-ring, Grafoil® Seal & Pkgs.)
- 8 PEEK (Figure 2)
- 9 Ceramic
- A API-607 Certified (RTFE Seat, TFE O-ring, Grafoil® Seal & Pkgs.)
- B 30% Carbon Reinforced PEEK (Figure 2)
- C PFA (Figure 2)
- D SRTFE, 60% SS, 40% TFE by weight (50% SS Min) (Figure 2)
- F CRTFE (Figure 1)
- G PCTFE (Figure1)
- H High Temp Graphite-1000°F max. (Figure 1)
- K Stellite Ball & Seats (Figure 4)
- M Malcomized 316 SS Ball & Seats (Figure 4)
- U UHMWPE (Figure 1)

# END CONFIGURATION AND PRESSURE CLASS

- B 150# Flanged
- C 300# Flanged
- D 300# NPT
- E 150# FP Flange
- F 300# FP Flange
- G 300# NPT x Soc. Weld
- H 600# NPT J - 600# Socket Weld
- K 600# Flanged
- L 300# FP NPT
- M 300# FP Soc. Weld
- N 300# Socket Weld
- P 300# Buttweld
- Q 600# NPT x Soc. Weld
- R 300# FLG x Buttweld S - 300# RTJ Flanges
- T 600# FP Socket Weld
- U 600# FP Flange
- W- 600# Buttweld
- Y 300# FP NPT x Socket Weld
- 3 300# FP Buttweld
- 4 600# FP NPT
- 6 600# FP NPT x Socket Weld
- 7 600# FP Buttweld
- 9 900# Flange

#### **OPTIONAL FEATURES**

- AR Actuator Ready
- BO Grafoil® Seals & Packings
- BN TFE Spiralwound Bonnet Gasket
- BS Grafoil<sup>®</sup> Spiral Wound Bonnet Gasket & Grafoil<sup>®</sup> Packings
- CH Clamp-On Steam Jacket Stainless
   Steel
- CJ Clamp-On Steam Jacket Carbon Steel
- CL Cam-Lock Handle
- EB Extended Bonnet
- EO Round Handle
- FC Live Loaded Fugitive Emission w/
   Double RPTFE Chevron Packings
- FG Fugitive Emission Bonnet with EVSP® 9000 Graphite Stem Packing
- **FL** Fugitive Emission Bonnet with Double RPTFE Stem Packing

- FO Full Jacketed w/Oversize Flanges
- FP Live Loaded Fugitive Emission w/Double EVSP Packings
- GO 2 1/4" Stem Extension
- HH Vented Body
- HO Vented Body & Cleaned for Chlorine Service
- **HP** Vented Body & Cleaned for Hydrogen Peroxide Service
- \*MG Gear Operator
  - MT 2 Position Lock Plate for Standard Bonnet
  - MU 2 Position Lock Plate for Extended Bonnet
  - NC NACE Certified Trim
  - OL Oval Locking Handle
  - 00 RPTFE Seals & Packings

- OM RPTFE Bonnet Gasket & UHMWPE Packings
- PJ Partial Steam Jacket
- PO Cleaned for Oxygen Service
- PP Cleaned for Industrial Gases
- RS Welded Ball Stop with Safety Cap
- TP Two Position Sliding Latch Lock Lever
- ZO PTFE Seals & Packings
- NOTE: Optional Features may be used alone or in combination (simply added in alphabetical order), however not all combinations are available on all valves. This is a very limited list of the available options.

  Contact the factory for specific requirements and availability.
- \* MG Is Generic for Gear Operations. Contact Factory or Price Book for Specific Application and Part No.
- ® EVSP is a registered trademark of Garlock