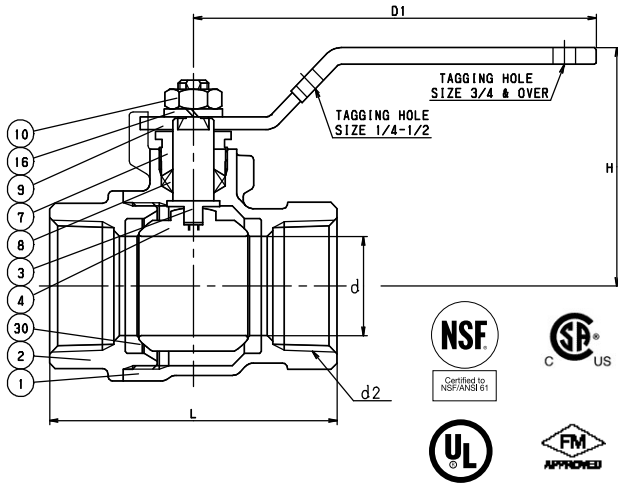


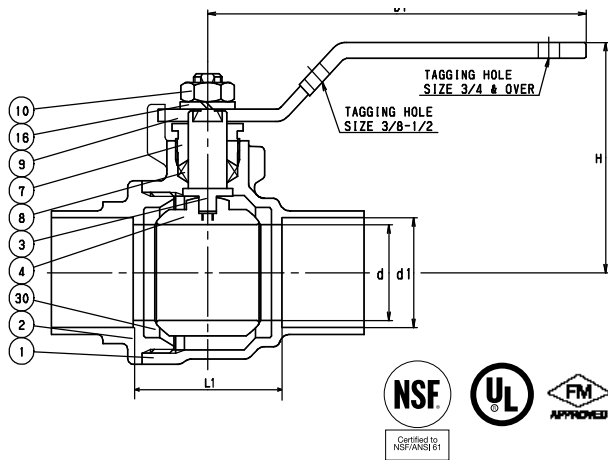
# FORGED BRASS/CAST BRONZE BALL VALVE

Two Piece Body • Full Port  
 Blowout Proof Stem • Plated / Vented Ball • PTFE Seats and Seals  
 NSF • CSA (US/C) • UL • FM

**CODE # 68 (AKTAF)**  
**THREADED (1/4"-2")**  
 For larger sizes see P. BV-17



**CODE # 69 (CTAF)**  
**SOLDER\* (3/8"-3")**



\*REFERENCE VALVE INSTALLATION TIPS FOR SOUND SOLDER JOINTS (PAGE BV-66) OR SEE INSTALLATION SHEET PACKAGED WITH VALVE.

### SPECIFICATION

Approved valve shall have two piece forged brass or cast bronze body, blowout proof stem, PTFE seats/seals, vented chrome plated ball and full port design. Valves sizes 1/4"-2" shall be pressure rated to 150 WSP/600 WOG and conform to MSS-SP 110 and certified to CSA, UL & FM. Valve sizes 2 1/2"-3" shall be pressure rated to 150 WSP/400 WOG and conform to MSS-SP 110.

KITZ Code No. 68 (AKTAF) Threaded Ends  
 69 (CTAF) Solder Ends (UL & FM)

### STANDARDS

END TO END	KITZ
THREADED ENDS	ANSI B1.20.1
SOLDER JOINT ENDS	ANSI B16.18
WALL THICKNESS	KITZ
CONFORMS TO MSS-SP 110 - REPLACES US. FED. SPEC. WWW-V-35B, TYPE II, CLASS A, STYLE 3	

### PRESSURE/TEMPERATURE

150 PSI - SATURATED STEAM TO 366°F
600 PSI NON-SHOCK COLD WATER, OIL OR GAS
400 PSI NON-SHOCK COLD WATER, OIL OR GAS

NOTE: PRESSURE/TEMPERATURE CHART - PAGE BV-29

### MATERIAL LIST

NO.	NAME OF PART	SPECIFICATION
1	BODY (1/4"-3") (2 1/2"-3")	FORGED BRASS (B283, C37700) CAST BRONZE (B584, C84400)
2	BODY CAP (1/4"-2") (2 1/2"-3")	FORGED BRASS (B283, C37700) CAST BRONZE (B584, C84400)
3	STEM	(1) SPECIAL BRASS (K-METAL)
4	BALL (Vented) (1/4"-2") (2 1/2"-3")	(2) FORGED BRASS (B283, C37700) CAST BRONZE (B584, C84400)
7	GLAND	BRASS ROD (B16)
8	GLAND PACKING	PTFE
9	HANDLE	(3) CARBON STEEL
10	HANDLE NUT (1/4"-2 1/2")	CARBON STEEL
16	SPRING WASHER	CARBON STEEL
16A	WASHER (3")	CARBON STEEL
30	BALL SEATS	PTFE
123	HANDLE BOLT (3")	CARBON STEEL

NOTES: (1) PROPRIETARY DEZINCIFICATION RESISTANT MATERIAL.  
 (2) TEA PLATED  
 (3) ELECTROPLATED ZINC WITH PLASTIC COVERING

### DIMENSIONS - WEIGHTS - QUANTITIES

d2 SIZE	d	H	D1	L	L1	d1 Max. Min.	APPROX. NET WT.	CARTON QTY
1/4	.39	1.54	3.23	1.61	-	- -	48	120
3/8	.39	1.54	3.23	1.65	1.05	.506 .502	48	120
1/2	.59	1.65	3.23	2.09	1.13	.631 .627	52	96
3/4	.79	2.01	3.94	2.36	1.37	.881 .877	50	60
1	.98	2.32	5.12	2.83	1.64	1.132 1.128	51	36
1 1/4	1.26	2.52	5.12	3.23	2.00	1.382 1.378	50	24
1 1/2	1.57	2.87	5.91	3.62	2.35	1.633 1.628	54	16
2	1.97	3.15	5.91	4.13	2.83	2.133 2.128	72	16
2 1/2	2.56	4.25	7.78	-	3.48	2.633 2.628	17	2
3	2.99	4.80	11.81	-	4.04	3.113 3.128	26	2

### CERTIFICATIONS:

NSF/ANSI STANDARDS 61-8, C-HOT (180°F/82°C)  
 CAS (US/C):  
 - CGA 9.1b-2001/ANSI 21.15b-2006 - .5G  
 - CGA CR 91-002 - 2G  
 - ASME B16.44 - 5G  
 - CAN/CGA 3.16-M88 - 125G  
 - ASME B16.33-2002-125G  
 UL-125, -842, -1769  
 FM-1140 - 175 WWP (Fire Protection Systems)