Plumbing & Heating Index

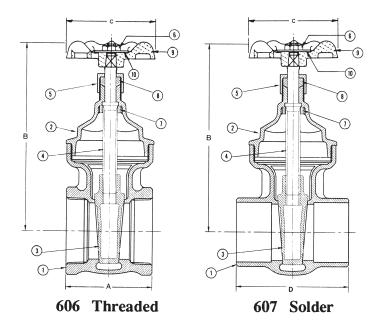
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Plumbing E	Plumbing Engineering Data ED-1				

Rev 09/18



125 WSP - 200 WOG



	DIMENS	Approx. Weight	Approx. Weight			
SIZE	Α	В	С	D	606	607
1/4	1.75	3.06	2.00	-	0.6	-
3/8	1.81	3.06	2.00	1.63	0.7	0.6
1/2	2.00	3.06	2.00	1.88	0.7	0.6
3/4	2.13	3.94	2.00	2.50	1.3	1.1
1	2.56	4.25	2.50	3.00	1.9	1.6
1 1/4	2.78	5.19	2.75	3.25	2.9	2.3
1 1/2	2.81	5.63	3.13	3.63	3.8	3.0
2	3.31	6.75	3.13	4.31	6.3	5.0
2 1/2 *	4.81	9.13	4.38	4.81	9.6	8.0
3 *	4.63	10.38	5.25	5.44	13.7	12.2

^{*} These sizes with gland followers

	MATERIAL SPECIFICATION					
1	Body	Cast Bronze	ASTM B584, C84400			
2	Bonnet	Cast Bronze	ASTM B584, C84400			
3	Disc	Cast Bronze	ASTM B584, C84400			
4	Stem	Brass Rod	ASTM B16			
5	Stuffing Nut	Brass Rod	ASTM B16			
6	Handwheel Nut	Brass Rod	ASTM B16			
7	Stem Retainer	Brass Rod	ASTM B16			
8	Packing Ring	Non-Asbestos				
9	Handwheel	Malleable Iron	ASTM A-47			
10	Nameplate	Aluminum Sheet	COMMERCIAL			

RATING

- 125 PSI STEAM TO 353° F
- 200 PSI NON-SHOCK

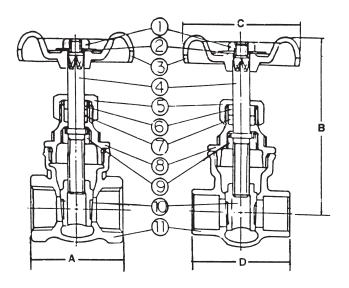
FEATURES

- BRONZE BODY
- THREADED OR SOLDER ENDS
- THREADED BONNET
- ADJUSTABLE PACKING NUT
- INTEGRAL SEAT
- NON-RISING STEM
- SOLID WEDGE DISC
- MALLEABLE IRON HANDWHEEL
- 100% FACTORY TESTED

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A State of California Prop 65 WARNING: Cancer and Reproductive Harm. For more information visit www.p65warnings.ca.gov.





667 Threaded

668 Solder

	DIMENS	SIONS (II	NCHES)		Approx. Weight	Approx. Weight	C _v
SIZE	Α	В	С	D	667	668	
1/4	1.63	2.84	2.13	-	0.60	-	5.6
3/8	1.63	2.84	2.13	1.63	0.60	0.56	10.7
1/2	1.69	2.91	2.13	1.78	0.63	0.59	17.6
3/4	1.84	3.31	2.13	2.31	0.88	0.81	32
1	2.19	3.94	2.41	2.84	1.25	1.19	54
1 1/4	2.42	4.34	2.94	3.00	1.75	1.65	97
1 1/2	2.44	4.94	2.94	3.22	2.12	2.00	135
2	2.84	6.03	3.19	3.97	3.20	3.10	230
2 1/2	3.50	7.44	3.94	4.66	6.25	6.00	337
3	3.97	8.63	5.13	5.28	9.62	8.75	536
4	4.56	10.00	6.78	-	15.50	-	960

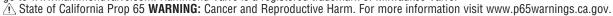
MATERIAL SPECIFICATION						
1	Handwheel Nut	Brass	ASTM B16			
2	Nameplate	Aluminum Sheet	Commercial			
3	Handwheel	Cast Iron	ASTM A48, Class 35			
4	Stem	Brass	ASTM B124, C37700			
5	Packing Nut	Forged Brass	ASTM B283, C37700			
6	Gland	Brass Rod	ASTM B124, C37700			
7	Packing Ring	Non-Asbestos				
′	r acking rung	Synthetic Fibers				
8	Bonnet	Forged Brass	ASTM B283, C37700			
9	Locknut	Brass Rod	ASTM B16, C36000			
10	Wedge	Forged Brass	ASTM B283, C37700			
11	Body	Forged Brass	ASTM B283, C37700			

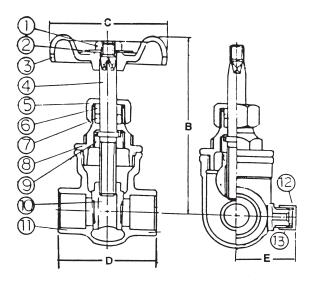
RATING

• 200 PSI NON-SHOCK

FEATURES

- FORGED BRASS BODY
- THREADED OR SOLDER ENDS
- THREADED BONNET
- INTEGRAL SEAT
- ADJUSTABLE PACKING NUT
- NON-RISING STEM
- FORGED SOLID WEDGE DISC
- IRON HANDWHEEL
- 100% FACTORY TESTED
- INTERNATIONAL





667-20 Threaded

668-20 Solder

	Approx. Weight						
SIZE	SIZE B C D E						
1/2	2.91	2.13	1.78	1.00	0.55		
3/4	3.31	2.13	2.31	1.13	0.70		
1	3.94	2.41	2.84	1.25	1.17		

RATING

200 PSI NON-SHOCK

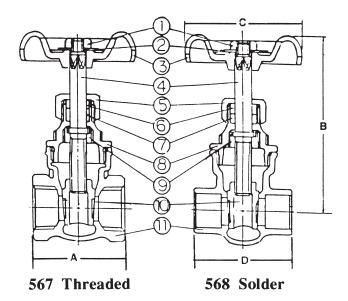
FEATURES

- DRAINABLE BRASS BODY
- SOLDER ENDS
- THREADED BONNET
- ADJUSTABLE PACKING NUT
- INTEGRAL SEAT
- NON-RISING STEM
- SOLID WEDGE DISC
- IRON HANDWHEEL
- 100% FACTORY TESTED
- INTERNATIONAL

MATERIAL SPECIFICATION 1 Handwheel Nut Steel Commercial Nameplate Aluminum Sheet Commercial 3 Handwheel Cast Iron ASTM A48, Class 35 4 Stem **Brass Rod** ASTM B16, C36000 Brass Rod ASTM B16, C36000 5 Packing Nut Cast Brass ASTM B584, C85700 6 Gland Brass Rod ASTM B16, C36000 Non-Asbestos 7 Packing Ring Synthetic Fibers Forged Brass ASTM B283, C37700 Bonnet ASTM B16, C36000 Locknut Brass Rod 10 Wedge Forged Brass ASTM B283, C37700 Body Forged Brass ASTM B283, C37700 Drain Cap Brass Rod ASTM B16, C36000 TFE 13 Drain Cap Seat TFE

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	DIMENS	Approx. Weight	Approx. Weight			
SIZE	Α	В	С	D	567	568
1/4	1.63	2.84	2.13	-	0.59	-
3/8	1.63	2.84	2.13	1.63	0.59	0.54
1/2	1.69	2.91	2.13	1.78	0.60	0.56
3/4	1.84	3.31	2.13	2.31	0.86	0.82
1	2.19	3.94	2.41	2.84	1.22	1.16
1 1/4	2.41	4.34	2.94	3.00	1.77	1.59
1 1/2	2.44	4.94	2.94	3.22	2.19	2.24
2	2.84	6.03	3.19	4.66	3.55	3.23
2 1/2	3.50	7.44	3.94	4.66	6.12	5.24
3	3.97	8.63	5.13	5.28	8.39	7.12
4	4.56	10.00	6.78	-	12.93	-

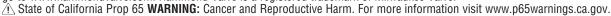
	MATERIAL SPECIFICATION						
1	Handwheel Nut	Brass	ASTM B16				
2	Nameplate	Aluminum Sheet	Commercial				
3	Handwheel	Cast Iron	ASTM A48, Class 35				
	Stem	Brass	ASTM B124, C37700				
5	Packing Nut	Forged Brass	ASTM B283, C37700				
6	Gland	Brass Rod	ASTM B124, C37700				
7	Packing Ring	Non-Asbestos					
_ ′	r acking ming	Synthetic Fibers					
8	Bonnet	Forged Brass	ASTM B283, C37700				
9	Locknut	Brass Rod	ASTM B16, C36000				
10	Wedge	Forged Brass	ASTM B283, C37700				
11	Body	Forged Brass	ASTM B283, C37700				

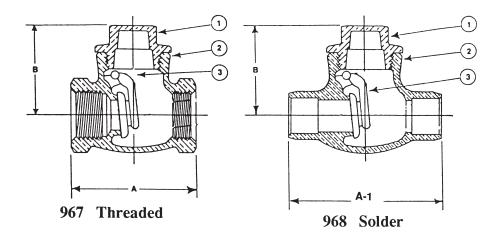
RATING

• 150 PSI NON-SHOCK

FEATURES

- FORGED BRASS BODY
- THREADED (567) OR SOLDER ENDS (568)
- THREADED BONNET
- INTEGRAL SEAT
- ADJUSTABLE PACKING NUT
- NON-RISING STEM
- FORGED SOLID WEDGE DISC
- IRON HANDWHEEL
- 100% FACTORY TESTED
- INTERNATIONAL





Dimensions						
Units	Size	Α	A-1	В		
Inches	1/2	1.86	2.18	1.35		
mm		47	55	34		
Inches	3/4	2.11	2.85	1.53		
mm		54	72	39		
Inches	1	2.52	3.46	1.74		
mm		64	88	44		
Inches	1 1/4	2.72	3.70	1.99		
mm		69	94	51		
Inches	1 1/2	3.23	4.33	2.28		
mm		82	110	58		
Inches	2	3.70	5.12	2.48		
mm		94	130	63		
Inches	2 1/2	5.20		3.11		
mm		132		79		
Inches	3	5.83		3.81		
mm		148		97		
Inches	4	6.89		4.21		
mm		175		107		

	MATERIAL SPECIFICATION					
1	1 CAP	FORGED BRASS	ASTM B283, C37700			
		CAST BRASS	ASTM B584, C85700			
2	2 BODY	FORGED BRASS	ASTM B283, C37700			
		CAST BRASS	ASTM B584, C85700			
2	3 DISC	FORGED BRASS	ASTM B283, C37700			
)		CAST BRASS	ASTM B584, C85700			

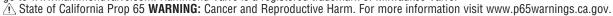
RATING

• 200 PSI NON-SHOCK

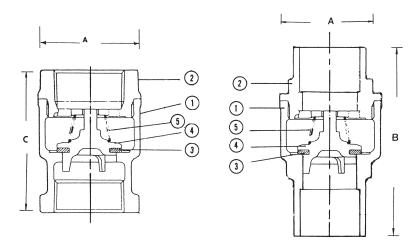
Warning: DO NOT USE for reciprocating air compressor service.

FEATURES

- BRASS BODY
- THREADED OR SOLDER ENDS
- THREADED BONNET
- INTEGRAL SEAT
- BRASS DISC
- 100% FACTORY TESTED
- INTERNATIONAL







943 Threaded

947 Solder

DIMENSIONS (INCHES)			Approx. Weight	Approx. Weight	C _v	
SIZE	Α	В	С	943	947	
3/8	1.25	2.06	1.97	0.43	0.43	2.5
1/2	1.25	2.41	2.09	0.43	0.43	4.1
3/4	1.50	2.81	2.31	0.66	0.66	7.6
1	1.91	3.53	2.66	1.02	1.02	13
1 1/4	2.16	3.88	3.09	1.47	1.47	23
1 1/2	2.59	4.22	3.31	2.20	2.20	31
2	3.13	5.09	3.78	3.30	3.30	54

MATERIAL SPECIFICATION					
1	Body	Cast Bronze	ASTM B584, C84400		
2	Tail Piece	Cast Bronze	ASTM B584, C84400		
3	Disc	Buna			
4	Disc Holder	Cast Bronze	ASTM B584, C84400		
5	Spring	Bronze	ASTM B103, C52100		

Do not use for reciprocating air compressor service.

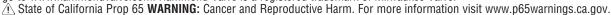
Note: Check Valves may be installed in both the horizontal and vertical lines with upward flow or in any intermediate position.

RATING

 250 PSI NON-SHOCK COLD WATER, OIL OR GAS

FEATURES

- BRONZE BODY
- THREADED OR SOLDER ENDS
- BRONZE SPRING
- BUNA DISC RING
- BRONZE DISC HOLDER
- 100% FACTORY TESTED
- SILENT CLOSING (minimizes water hammer)
- INTERNATIONAL





445 STOP (threaded ends)

DIMENSIONS (INCHES)				Approx.
SIZE	Α	В	С	Weight
1/2	2.13	2.75	2.13	0.50
3/4	2.16	2.75	2.13	0.54



446

STOP (solder ends)

DIMENSIONS (INCHES)				Approx.
SIZE	Α	В	C	Weight
1/2	1.22	2.75	2.13	0.42
3/4	1.22	2.75	2.13	0.53



545

STOP & WASTE (threaded ends)

DIM	DIMENSIONS (INCHES)				
SIZE	Α	В	С	Weight	
1/2	2.13	2.75	2.13	0.51	
3/4	2.16	2.75	2.13	0.55	



546 **STOP & WASTE** (solder ends)

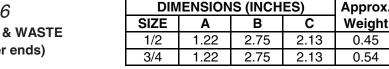
DIMENSIONS (INCHES)			
Α	В	С	Weight
1.22	2.75	2.13	0.45
1.22	2.75	2.13	0.54
	A 1.22	A B 1.22 2.75	A B C 1.22 2.75 2.13

RATING

• 150 PSI WWP TO 200° F NON-SHOCK

FEATURES

- BRASS BODY
- HEAVY DUTY **PATTERN**
- LARGE WATER WAYS
- ADJUSTABLE **PACKING NUT &** STUFFING BOX
- BUNA-N- SEATS
- IRON HANDWHEEL
- 100% FACTORY **TESTED**
- INTERNATIONAL



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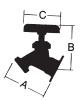
710*
BOILER DRAIN
(male IPS to hose)

DIMENSIONS (INCHES)				Approx.
SIZE	Α	В	C	Weight
1/2	1.56	3.50	2.13	0.45
3/4	1.56	3.63	2.13	0.46



712*
BOILER DRAIN
(female IPS to hose)

DIMENSIONS (INCHES)				Approx.
SIZE	Α	В	С	Weight
1/2	3.00	2.22	2.09	0.38
3/4	3.00	2.22	2.09	0.46



1032 SILL FAUCET (female IPS to hose)

DIMENSIONS (INCHES)				Approx.
SIZE	Α	В	С	Weight
1/2	2.44	2.75	2.00	0.42
3/4	2.44	2.75	2.00	0.43



1034
SILL FAUCET
(solder to hose)

DIMENSIONS (INCHES)				Approx.
SIZE	Α	В	C	Weight
1/2	2.44	2.75	2.00	0.47
3/4	2.44	2.75	2.00	0.48

RATING

 150 PSI WWP TO 200° F NON-SHOCK

FEATURES

- BRASS BODY
- HEAVY DUTY PATTERN
- LARGE WATER WAY
- ADJUSTABLE PACKING NUT & STUFFING BOX
- BUNA-N- SEATS
- IRON HANDWHEEL
- HAMMOND NAME ON BODY
- 100% FACTORY TESTED
- INTERNATIONAL

*User's are advised that some boiler applications require ASME code compliant and/or higher rated product, it is the user's responsibility to ensure all regulatory requirements are met for their installation.

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2002 HOSE BIB (male IPS to hose)

DIMENSIONS (INCHES)				Approx.
SIZE	Α	В	C	Weight
1/2	2.00	1.22	2.94	0.38
3/4	2.00	1.22	2.94	0.46



2004
NO-KINK HOSE
(male IPS to hose)

DIM	Approx.			
SIZE	Α	В	C	Weight
1/2	3.00	2.22	2.16	0.38
3/4	3.00	2.22	2.16	0.46



 150 PSI WWP TO 200° F NON-SHOCK

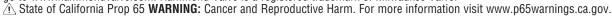
FEATURES

- BRASS BODY
- HEAVY DUTY PATTERN
- LARGE WATER WAY
- ADJUSTABLE PACKING
- BUNA-N- SEATS
- IRON T-HANDLE
- 100% FACTORY TESTED
- INTERNATIONAL



2005 NO-KINK HOSE BIBB (female IPS to hose)

DIMENSIONS (INCHES)				Approx.
SIZE	Α	В	C	Weight
1/2	2.38	2.22	2.16	0.38
3/4	2.38	2.22	2.16	0.46





58
ANTI-SIPHON SILL
COCK
(1/2" male IPS to hose)

DIMENS	DIMENSONS (INCHES)		
LENGTH	Α		
6	6	1.35	
8	8	1.40	
10	10	1.50	
12	12	1.55	
14	14	1.80	



38
SILL COCK
(1/2" male IPS to hose)

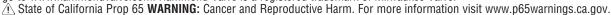
DIMENS	Approx. Weight	
LENGTH	Α	
4	4	1.20
6	6	1.30
8	8	1.40
10	10	1.45
12	12	1.60
14	14	1.70

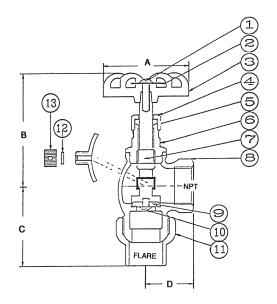
RATING

• 150 PSI NON-SHOCK

FEATURES

- 1/2" COMB. SWEAT & MSPS END
- CHROME PLATED BODY
- HEAVY DUTY PATTERN
- LARGE WATER WAYS
- BUNA-N SEATS
- LARGE PLASTIC HANDLE (EASY GRIP)
- FIG.58 INCLUDES IN-TEGRAL ANTI-SIPHON & INTEGRAL VACUUM BREAKER
- 100% FACTORY TESTED
- INTERNATIONAL





	DIMENS	Approx. Weight	Approx. Weight			
SIZE	Α	В	C	D	547	548
3/4 X 1/2	2.38	3.53	2.16	1.34	0.44	0.45
3/4 X 3/4	2.38	3.53	2.16	1.34	1.18	1.18
1 X 3/4	2.75	4.34	3.13	1.63	0.89	0.97
1 X 1	2.75	4.34	3.13	1.63	2.05	2.05

	MATERIAL SPECIFICATION				
1	Screw	Steel	Commercial		
2	Name Plate	Aluminum	Commercial		
3	Handwheel	Cast Iron	ASTM A126		
4	Packing Nut	Brass	ASTM B16		
5	Packing Gland	Buna	ASTM D2000		
6	Bonnet	Forged Brass	ASTM B124, C37700		
7	Stem	Brass	ASTM B16		
8	Body	Bronze	ASTM B584, C84400		
9	Seat	Buna	ASTM D2000		
10	Set Screw	Brass	ASTM B16		
11	Coupling	Bronze	ASTM B584, C84400		
12	Gasket	Buna	ASTM D2000		
13	Сар	Brass	ASTM B16		

RATING

• 225 PSI NON-SHOCK

FEATURES

- BRONZE BODY
- FLARED SOLDER END X THREADED
- THREADED BONNET
- ADJUSTABLE PACKING NUT
- RISING STEM
- BUNA DISC
- IRON HANDWHEEL
- 100% FACTORY TESTED
- DESIGNED FOR WATER METER APPLICATIONS
- INTERNATIONAL

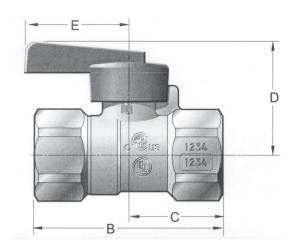
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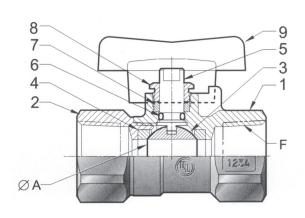
🛕 State of California Prop 65 WARNING: Cancer and Reproductive Harm. For more information visit www.p65warnings.ca.gov.



GAS VALVE 87501 / 87601

87501 87601





MATERIALS LIST					
ITEM	PART	MATERIALS	ASTM SPEC.		
1	Body	Brass, Forged	B283 C37700		
2	Tailpiece	Brass, Forged	B283 C37700		
3	Ball	Brass	B124 C37700		
		Chrome Plating	B456 SC1		
4	Ball Seal	Teflon	PTFE		
5	Stem	Brass	B124, C37700		
6	O-Ring	Buna-N	UL LISTED		
7	Packing	Teflon	PTFE		
8	Packing Nut	Brass	B124, C37700		
9	Handle	Zinc	B86, AG40B		

MATERIALS LIST					
ITEM	TEM PART MATERIALS ASTM SPEC				
1	Body	Brass, Forged	B283 C37700		
2	Tailpiece	Brass, Forged	B283 C37700		
3	Ball	Brass	B124 C37700		
	Dali	Chrome Plating	B456 SC1		
4	Ball Seal	Teflon	PTFE		
5	Stem	Brass	B124, C37700		
6	O-Ring	Buna-N	UL LISTED		
7	Packing	Teflon	PTFE		
8	Packing Nut	Brass	B124, C37700		
9	Handle	Zinc	B86, AG40B		

AGENCY APPROVALS





UL 842

FEATURES

- FORGED TWO-PIECE BRASS
- STANDARD-PORT BALL VALVE
- INTERNATIONAL

DIMENSIONS					
DIMEN	DIMENSIONS UNITS			3/4"	1"
ΑØ		INCHES	0.394	0.591	0.787
		mm	10.0	15.0	20.0
В		INCHES	2.244	2.508	2.953
		mm	57.0	63.7	75.0
С		INCHES	1.122	1.256	1.476
		mm	28.5	31.9	37.5
	875	INCHES			1.776
l _D	Lever	mm	1.445	1.583	45.1
"	876	INCHES	36.7	40.2	NA
	T-Handle	mm			IVA
	875	INCHES	1.3	378	1.5
F	Lever	mm	3:	5.0	38.0
-	876	INCHES	0.	866	NA
	T-Handle	mm	2:	2.0	IVA
F		THREAD NPT	1/2"	3/4"	1"

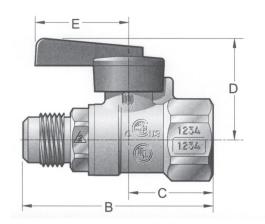
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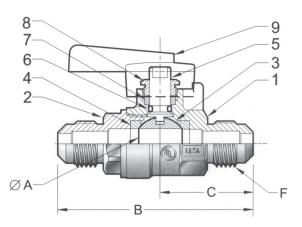
1 State of California Prop 65 WARNING: Cancer and Reproductive Harm. For more information visit www.p65warnings.ca.gov.



GAS VALVE 87901 / 87801

87901 87801





MATERIALS LIST					
ITEM	PART	MATERIALS	ASTM SPEC.		
1	Body	Brass, Forged	B283 C37700		
2	Tailpiece	Brass, Forged	B283 C37700		
3	Ball	Brass	B124 C37700		
		Chrome Plating	B456, SC1		
4	Ball Seal	Teflon	PTFE		
5	Stem	Brass	B124, C37700		
6	O-Ring	Buna-	UL LISTED		
7	Packing	Teflon	PTFE		
8	Packing Nut	Brass	B124, C37700		
9	Handle	Zinc	B86, AG40B		

	DIMENSIONS						
	NOMINAL SIZE						
	UNITS	1/2x1/2"	1/2x3/8"	3/8x3/8"	1/2x1/2"		
	MODEL	879	879	878	878		
ΑØ	INCHES mm	0.394 10.0	0.394 10.0	0.394 10.0	0.394 10.0		
В	INCHES mm	2.937 74.6	2.748 69.8	2.894 73.5	3.213 81.6		
С	INCHES mm	1.122 28.5	1.122 28.5	1.398 35.5	1.398 35.5		
D	INCHES mm		_	.445 36.7	-		
E	INCHES mm	1.378 35.0					
F	INLET	1/2" NPT	1/2" NPT	3/8" FLARE SAE-J512	1/2" FLARE SAE-J512		
	OUTLET	1/2" FLARE SAE-J512	3/8" FLARE SAE-J512	3/8" FLARE SAE-J512	1/2" FLARE SAE-J512		

AGENCY APPROVALS





FEATURES

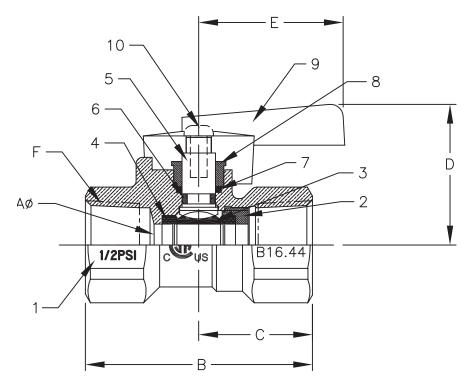
- FORGED TWO-PIECE BRASS
- STANDARD-PORT BALL VALVE
- ANSI/SAE FLARE J512 FEATURE
- SIZE MARKED ON OUTSIDE
- INTERNATIONAL

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GAS VALVE 880



	MATERIALS LIST					
ITEM	PART	MATERIALS	ASTM SPEC.			
1	Body	Brass, Forged	B283, C37700			
2	Tailpiece	Brass, Forged	B283, C37700			
3	Ball	Brass	B124, C37700			
٥	Dali	Chrome Plating	B456, SC1			
4	Ball Seal	Teflon	PTFE			
5	Stem	Brass	B124, C37700			
6	O-Ring	Buna-	UL LISTED			
7	Packing	Teflon	PTFE			
8	Packing Nut	Brass	B124, C37700			
9	Handle	Zinc	B86, AG40B			
10	Screw	Steel/Zinc Plate	B633			

DIMENSIONS						
DIMENSIONS UNITS 1/2" 3/4"						
ΑØ	INCHES	0.39	0.591			
	mm	10.0	15.0			
В	INCHES	2.14	2.508			
	mm	54.4	63.7			
С	INCHES	1.07	1.256			
	mm	27.3	31.9			
	INCHES	1.33	1.583			
D	mm	33.7	40.2			
_	INCHES	1.36	1.36			
E	mm	34.6	34.6			
F	THREAD NPT	1/2"	3/4"			

AGENCY APPROVALS





UL 842

FEATURES

- FORGED ONE-PIECE BRASS
- STANDARD-PORT BALL VALVE

RATINGS MARKING

- 5G = 5 PSI
- 1/2" 150,000 BTU/HR
- 3/4" 400,000 BTU/HR
- MINIMUM FLOW CAPACITY
- INTERNATIONAL

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100-25 STEAM **RADIATOR ANGLE** (female IPS)

DIN	Approx.			
SIZE	SIZE A B C			
1/2	2.31	0.97	2.97	0.98
3/4	2.66	1.09	2.72	1.33
1	2.94	1.28	2.94	1.67
1 1/4	3.31	1.47	3.25	2.67

RATING

- FIG. 100-25 15# WSP & 60 PSI NON-SHOCK HOT WATER (for low pressure steam and hot water)
- FIG.200-GRAVITY **HOT WATER**

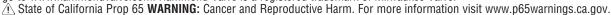
FEATURES

- BRASS BODY
- EPDM DISC
- PHENOLIC HAND-WHEEL (heat resistant)
- ADJUSTABLE PACKING NUT
- TAIL PIECE & UNION NUT PART OF ASSEMBLY
- 100% FACTORY TESTED
- INTERNATIONAL



200 **HOT WATER ANGLE** (female IPS)

DIMENSIONS (INCHES)			Approx.	
SIZE	Α	В	C	Weight
1/2	2.31	0.97	2.97	0.98
3/4	2.66	1.09	2.72	1.33
1	2.94	1.28	2.94	1.67
1 1/4	3.31	1.47	3.25	2.67





102 **UNION GATE** (male union X female IPS)

DIMENSIONS (INCHES)			Approx.	
SIZE	Α	В	C	Weight
1/2	2.31	0.97	2.97	0.98
3/4	2.28	1.09	3.59	1.41
1	2.88	1.28	4.09	1.91
1 1/4	3.22	1.47	4.66	2.79
1 1/2	3.38	1.75	3.38	3.72

RATING

• FIG. 102 = 125 WSP & 200 WOG FIG. 108 = 15 WSP & 60 PSI NON-SHOCK HOT WATER (for low pressure steam and hot water) FIG. 201 = 60 PSI HOT WATER

FEATURES

- BRONZE BODY
- EPDM DISC
- PHENOLIC HAND-WHEEL (heat resistant)
- ADJUSTABLE PACKING NUT
- TAIL PIECE & UNION **NUT PART OF ASSEMBLY**
- 100% FACTORY TESTED
- INTERNATIONAL



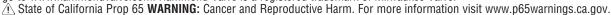
108 **CONVECTOR STEAM ANGLE** (female union X female IPS)

DIMENSIONS (INCHES)				Approx.
SIZE	Α	В	С	Weight
1	1.69	2.31	3.53	1.87
1 1/4	1.75	2.84	3.81	2.43



201 **CIRCULATOR ANGLE VALVE** (male union X sweat)

DIMENSIONS (INCHES)				Approx.
SIZE	Α	В	С	Weight
1/2	2.50	0.78	1.88	0.70
3/4	2.88	0.94	2.06	0.96





8201-15
CIRCULATOR
SLOTTED STEM
(threaded ends)

DIMENSIONS (INCHES)			Approx.
SIZE	A-1	В	Weight
1/2	2.84	0.94	0.30
3/4	2.16	1.06	0.50
1	2.63	1.41	0.80



8211-15 CIRCULATOR -SLOTTED STEM (solder ends)

DIMENSIONS (INCHES)			Approx.
SIZE	Α	В	Weight
1/2	2.09	0.94	0.20
3/4	2.78	1.06	0.40
1	2.63	1.41	0.70



300
UNION ELBOW (threaded end)

DIMENSIONS (INCHES)			Approx.
SIZE	Α	В	Weight
1/2	2.38	1.06	0.45
3/4	2.69	1.19	0.64
1	3.06	1.44	1.00
1 1/4	3.44	1.75	1.54



302
UNION ELBOW
(solder end)

DIMENSIONS (INCHES)			Approx.
SIZE	Α	В	Weight
1/2	0.75	1.25	0.39
3/4	0.75	1.50	0.56

RATING

- 150 PSI SATURATED STEAM (8201-15 & 8211-15)
- 400 PSI NON-SHOCK COLD WATER, OIL OR GAS (8201-15 & 8211-15)

FEATURES

- FORGED BRASS BODY (ASTM - B283)
- BRASS UNION END & TAILPIECE (ASTM-B16) (300 & 302)
- STANDARD PORT OPENING (8201-15 & 8211-15)
- CHROME PLATED BALL (8201-15 & 8211-15)
- ADJUSTBLE PACK-ING NUT (8201-15 & 8211-15)
- TFE SEATS & SEALS
- 100% FACTORY TESTED
- INTERNATIONAL

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ENGINEERING DATA

SHOCK

Pressure ratings of valves for liquid service are applicable only when no shock is present.

Shock (or water hammer) is the term used to denote a sudden increase in pressure when a liquid flow is suddenly stopped by the rapid closure of a valve. This increase in pressure is only partly related to the working pressure of the system, but more to the velocity at which the liquid is flowing.

For example, a system having a working pressure of 200 PSIG with a velocity of 4 ft. per second will be subject to the same increment of pressure due to water hammer as one having a working pressure of 1000 PSIG.

Shock occurs most frequently in lines supplied by reciprocating pumps, equipped with check or other quick closing valves. It can occur if conventional globe or gate valves are closed too rapidly and it is, therefore, recommended that care always be used in closing valves in lines carrying liquids.

Where shock is likely to be present, it is recommended that the maximum shock pressure be added to the working pressure of the system in order to obtain the pressure rating of the valves which should be used.

INSTALLING SOLDER END VALVES

The following outlines the normal procedures in making up sound leak-tight solder joints.

- 1. The coppers tube ends are to be cut square, removing all burrs be reaming with a a file or scraper.
- The copper tube ends and the inside of the solder cup should be cleaned to bright metal with steel wool or by wire brushing.
- Apply flux to the outside of the copper tubing and inside the solder cup making sure that all surfaces to be joined are completely covered.
- Insert the copper tubing into the valves solder cup until it bottoms against the shoulder, turning the tube in the cup to distribute the flux evenly.
- Before applying heat, be certain that the valve is in its fully opened position. It is also recommended that the valve and tubing be supported during the soldering operation to prevent straining while cooling.
- Apply heat of the torch uniformly around the copper tubing first adjacent to the end of the valve. The heat should then

- be applied towards the end of the valve's solder cup, directing the flame away from the valve body. Care should be taken to avoid prolonged heating of the valve itself to prevent distortion and/or destruction of the disc, in case it is constructed of non-metallic material.
- 7. Apply solder at the juncture of the copper tube and the end of the valves solder cup. When the joint is sufficiently heated the solder will flow into the join. A ring of solder will form around the circumference of the juncture indicating the completion of the solder joint.
- Any excess solder should then be removed using a cloth or brush.

NOTE: Bronze solder joint valves should never be used in services where the media may reach higher temperatures than that at which the solder beings to soften. See the pressure/temperature ratings for solder joints shown below.

INSTALLING THREADED END VALVES

- Inspect both the valve and the pipe ends to make sure they are free of dirt, rust, oil, or anything that may prevent a proper connection.
- Pipe ends must be properly threaded and prepared for installation (pipe threads that are cut either too large or too small can damage the valve; if there is any question, gage the threads).
- 3. Prior to installation, clean pipe and valve ends with compressed air and/or water and wipe with a clean cloth.
- PTFE-based sealants are recommended for threaded end valves when making up joints. Consult the sealant manufacturer's instructions for proper use of the sealant.

- The sealant should be applied to the pipe, not the female threads in the valve.
- 5. Because bronze and brass are soft metals and often softer than mating pipe materials, the pipe should be held in a vise and the valve turned onto the pipe using a smooth jawed wrench applied to the valve end being turned onto the pipe (if the body side port is being threaded onto the mating pipe, driving from the endplate side can introduce excessive stress to the body/tail joint).

Note: Pipe wrenches should be used on pipe and certain fittings only – they should never be used on a valve.

FLUID COMPATIBILITY

Consider the corrosive, erosive and adhesive effects of the fluids on the valve and piping componets. It is the responsibility of the equipment owner or his engineering designer to ensure that the valve is compatible with the fluids and other material in the system.

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