

3679 S Huron Street, Suite 404 Englewood, Colorado 80110 Phone: (303) 789-4111 FAX: (303) 789-4310

## CHEMITTAL TOANCMITAL

	SUBMITTAL	IRANSMII	A L August 20, 2012
PROJECT:	Harold Thompson Regiona Birdsall Rd. Fountain, CO 80817 Job No. 2908	al WRF	Submittal No: 15400-006
ENGINEER:	<b>GMS, Inc.</b> 611 No. Weber St., #300 Colorado Springs, CO 809 719-475-2935 Roger Sams		
OWNER:	Lower Fountain Metropolit Sewage Disposal District 901 S. Santa Fe Ave. Fountain, CO 80817 719-382-5303 James Heck		
CONTRACTOR:	Mesa Plumbing Gary Cunningham gcunninghammph@qwe	stoffice.net	
	for Operations Building- I-1, TMV-1, UR-1, WC-1,		
SPEC SECTION: 154	100: Plumbing		
PREVIOUS SUBMISS	SION DATES:		
DEVIATIONS FROM	SPEC:YES X N	10	
	P: This submittal has been revie een found to be in conformand		
Contractor's Stamp	:	Enginee	r's Stamp:
Date: 8/20/12 Reviewed by: Adam	n Roeder		
(X) Reviewed With ( ) Reviewed With			
ENGINEER'S COMMENTS:			



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#### MESA PLUMBING & HEATING

# HAROLD D THOMPSON REG WTR REC FAC LOWER FOUNTAIN MET SEWAGE DISP DIST SUBMITTALS

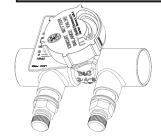


SUBMITTAL

A-549LFP

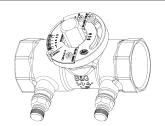
JOB:	REPRESENTATIVE:

UNIT TAG: ORDER NO. DATE: ENGINEER: SUBMITTED BY: DATE: CONTRACTOR: APPROVED BY:



# Circuit Setter® Plus

Calibrated Balance Valves with NPT and Solder Connections LEAD FREE\*



#### **DESCRIPTION**

The Bell & Gossett CIRCUIT SETTER PLUS and CIRCUIT SETTER PLUS "RF" calibrated balance valve is a precision machined ball type triple purpose balancing instrument. It is precisely calibrated for use as a presettable balance valve, variable orifice flow meter and positive shut-off service valve.

Valves are furnished with a calibrated nameplate and memory stop indicator which permits the valve to be preset to a fixed open position and then closed for service without disturbing valve setting.

Valves are equipped with capped readout valves fitted with internal check valves and 1/4" NPT tapped and plugged drain port.

#### CONSTRUCTION

Body: Brass ASTM B283-C69300\*

Ball: 304 Stainless Steel

Seat Rings: Glass and Carbon filled TFE Readout Valves: Brass with EPT check valves

Stem "O" Ring: EPDM

#### **MAXIMUM WORKING PRESSURE**

NPT Models: 400 psig (2069 kPa) Sweat Models: See table below

#### MAXIMUM OPERATING TEMPERATURE

-4°F(-20°C) to 250°F(121°C)

\*Contains less than 0.25% lead content by weight on wetted

surfaces.

CSA CERTIFIED: AB1953; Vermont S152; Maryland House Bill

372 [statute 12-605]. ANSI/NSF-61 Annex G Compliant.

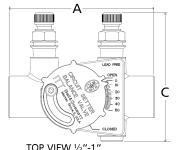
	Maximum Pressure Limitations for 1/2"-1" With Solder Connections						
Type Solder	Pressure PSI (KPa)	Temp °F (°C)					
	300 (2069)	200 (93)					
95-5 Tin-Antimony	250 (1724)	225 (107)					
1111 7 a landony	200 (1379)	250(121)					

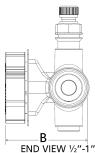
#### **SCHEDULE**

	MODEL NO.	PART NUMBER	TAGGING INFORMATION	QUANTITY
ĺ	RF-1/2S	117410LF		
ĺ	RF-3/4S	117411LF		
	CB-1/2S	117412LF		
$\dashv$	→ CB-3/4S	117413LF		
Ī	CB-1S	117401LF		
	CB-1/2	117414LF		
ĺ	CB-3/4	117415LF		
	CB-1	117416LF		

#### **CIRCUIT SETTER PLUS Calibrated Balance Valves**

A-549LFP





#### **DIMENSIONS AND WEIGHTS**

MODEL		CONNECTION	DIM	WEIGHT IN			
NUMBER	BER SIZE TYPE		Α	В	С	LBS. (KG)	
RF-1/2S	1/2"	SWEAT	2.91 (73.9)	1.82 (46.2)	2.85 (72.4)	0.6 (0.27)	
RF-3/4S	3/4"	SWEAT	3.51 (89.2)	2.05 (52.1)	3.10 (78.7)	0.75 (0.34)	
CB-1/2S	1/2"	SWEAT	2.91 (73.9)	1.82 (46.2)	2.85 (72.4)	1 (0.5)	
→ CB-3/4S	3/4"	SWEAT	3.51 (89.1)	2.05 (52.1)	3.10 (78.7)	1.25 (0.6)	
CB-1S	1"	SWEAT	4.29 (109)	2.33 (59.2)	3.33 (84.6)	(0.9)	
CB-1/2	1/2"	NPT	2.94 (74.6)	1.98 (50.3)	3.02 (76.7)	1.25 (0.6)	
CB-3/4	3/4"	NPT	3.06 (77.7)	2.17 (55.1)	3.12 (79.2)	1.5 (0.7)	
CB-1	1"	NPT	3.81 (96.8)	2.47 (62.7)	3.42 (86.9)	(0.9)	

<sup>\*</sup>All dimensions +/-0.125 (3.2 mm) tolerance. Dimensions are subject to change. Not to be used for construction purposes unless certified.

#### TYPICAL SPECIFICATION

Furnish and install as shown on plans with manufacturer recommendations Model CB or "RF" calibrated balance valves.

#### PRE-SET BALANCE FEATURE

Valves to be designed to allow installing contractor to pre-set balance points for proportional system balance prior to system start-up in accordance with pre-set balance schedule.

#### **VALVE DESIGN AND CONSTRUCTION**

All valves 1/2" to 1" pipe size to be of Lead Free Brass\*\* body/SS ball construction with glass and carbon filled TFE seat rings. Valves to have differential pressure read-out ports across valve seat area. Read-out ports to be fitted with internal EPT inserts/check valves. Valve bodies to have 1/4" NPT tapped drain/purge port. Valves to have memory stop feature to allow valve to be closed for service and then reopened to set point without disturbing balance position. All valves to have calibrated nameplates to assure specific valve settings. Valves shall be designed for positive shut-off.

#### **DESIGN PRESSURE/TEMPERATURE**

A. 1/2" - 1" NPT connections 400 psig (2069 kPa) at 250°F (121°C)

B. 1/2" - 1" Sweat connections (see table page1)

All balance valves to be ITT Bell & Gossett Model No. CB-\_\_\_\_\_ o Model No. RF- (note sizes).

#### IMPORTANT:

When monitoring system flow, care must be exercised to avoid direct skin or eye contact with liquids that may escape. Liquids with temperatures in excess of 120°F (49°C) may cause burns.

Bell & Gossett Circuit Setter Balance Valves are not recommended for use with meter connections pointing downward.

<sup>\*\*</sup>Contains less than 0.25% lead content by weight on wetted surfaces.
CSA CERTIFIED: AB1953; Vermont S152; Maryland House Bill 372 [statute 12-605]. ANSI/NSF-61 Annex G Compliant.

## EEW-1



#### S19314 Series

#### Combination Drench Shower and Halo™ Eyewash or Eye/Face Wash

- Halo™ and SpinTec™ Deliver the Most Effective Shower and Eye/Face Washdown Coverage and Spray Pattern
- Exceeds American National Standard Z358.1 Specifications
- Industry's Only Self-Draining Design The Aquaduct™
- Separate Supply and Waste Pipes Meets CEN and Plumbing Requirements
- Ergonomic Hand Activation Eyewash Paddle Easy to Reach from Any Direction
- Fully-Assembled and Factory-Tested Eyewash or Eye/Face Wash with Hinged Dust Covers
- Yellow Transparent Plastic and Stainless Steel Bowl Covers Available
- · Antimicrobial Protection
- Barrier Free Options Are Available &
- Universal Identification Sign and Inspection Tag Included
- Classified by Underwriters Laboratories Inc. to ANSI Z358.1.
- SpinTec™ showerheads are covered by one or more of the following patents: 8113446; D594,089; Reg. Comm. Des. D001079560-0001. Other patents pending.

#### **Specifications**

Standard and Barrier-Free Combination Drench Shower/Eyewash or Eye/Face Wash Units save space and fit easily into any work environment. Shower valve operates quickly by a pull rod with a triangular handle. Shower provides a superior washdown with a more even spray pattern. Halo eyewash or eye/face wash, operated by an ergonomic, highly visible push handle, provides effective wash down coverage and spray pattern. Integral strainer reduces debris in the water and also prevents clogging. Includes antimicrobial protection.

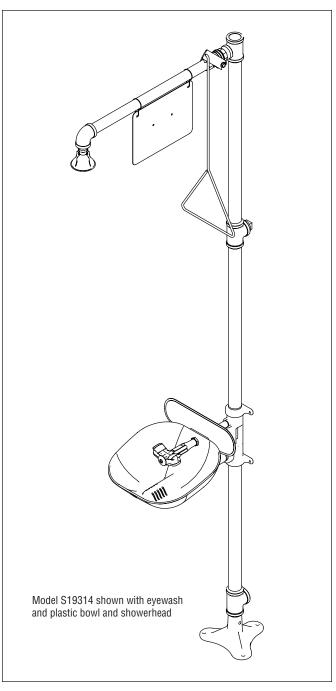


This plumbing fixture is not intended to dispense water for human consumption through drinking or for preparation of food or beverages.









## FFW-1



#### S19314 Series

#### Combination Drench Shower and Halo™ Eyewash or Eye/Face Wash

#### Pine and Fittings

11/4" piping assembly manufactured of one of the following materials:

- Galvanized steel with BradTect<sup>®</sup> safety yellow coating
- Type 304 corrosion resistant stainless steel
- Type 316 corrosion-resistant stainless steel
- Chrome plated red brass.

#### **Ball Valve**

1" shower ball valve and ½" stay-open eye and eye/face wash valve manufactured of the following materials and supplied with either type 304 or 316 stainless steel pull rod and handle:

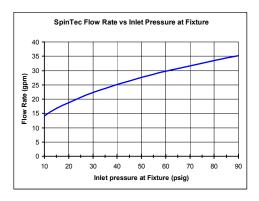
- · Chrome-plated brass
- Type 316 stainless steel
- Self-closing shower valve and stay-open eyewash ball valve.



Self-closing shower valve may not meet local requirements for shower activation

#### SpinTec™ Showerhead

Standard showerhead is 3.1" (78.7mm) diameter highly visible yellow impact-resistant plastic. Optional 10" (254mm) diameter yellow impact-resistant plastic or 10¾" (273mm) diameter corrosion-resistant stainless steel shroud. High performance Type 304 or Type 316 corrosion-resistant stainless steel showerhead measures 1½" (38mm) in diameter. SpinTec drench showerhead features integral 22 GPM flow control (exceeds minimum water flow of 20 GPM at 30 PSI), conserving water and helping to accurately size your tepid water system.



#### Evewash

The Halo eyewash system offers a high performance rinsing platform that provides rapid relief to an individual's eyes that have been injured by chemicals or particulate. The eyewash provides 4.8 gpm of water at a safe velocity while maintaining its effectiveness (exceeds minimum water flow of 0.4 GPM at 30 PSI). The eyewash is protected by flip open dust covers that open when the product is activated or by a full bowl dust cover that activates the unit when it is opened. Contains an antimicrobial agent to protect the Halo eyewash. Safe, steady water flow under varying water supply conditions from 30–90 PSI is assured by integral flow control in the sprayhead assembly.

#### Eve/Face Wash

The Halo eye/face wash system offers a high performance rinsing platform that provides rapid relief to an individual's eyes and face that have been injured by chemicals or particulate. This system provides the most complete face wash available in the market. The eye/face wash provides 4.8 gpm of water at a safe velocity while maintaining its effectiveness (exceeds minimum water flow of 0.4 GPM at 30 PSI). The eye/face wash is protected by flip open dust covers that open when the product is activated or by a full bowl dust cover that activates the unit when it is opened. Contains an antimicrobial agent to protect the Halo eye/face wash. Safe, steady water flow under varying water supply conditions from 30–90 PSI is assured by integral flow control in the sprayhead assembly.

#### **Bowl and Dust Cover**

Bowl is constructed of yellow impact-resistant plastic, Type 304 corrosion-resistant stainless steel or Type 316 corrosion-resistant stainless steel. Dust cover is constructed of transparent yellow impact-resistant plastic, Type 304 corrosion-resistant stainless steel or Type 316 corrosion-resistant stainless steel.

#### Activation

Type 304 Stainless steel push handle with optional aluminum or type 304 stainless steel foot pedal. Type 316 stainless steel push handle with optional Type 316 stainless steel foot pedal.

#### **Drench Hose**

Perforated sprayhead with protective sprayhead cover is ABS plastic and provides soft spray for cleansing eyes and face. Chrome-plated brass valve with extended handle stays open once handle is squeezed. 8' (2438mm) yellow reinforced thermoplastic hose has \%" NPT male thread. Burst strength is 450 PSI. Attachment Kit includes \%" NPT supply, fittings and hanger for attaching hose to eyewashes or drench showers. The sprayhead contains an antimicrobial agent to protect the sprayhead.

#### **Backflow Prevention**

Series N9 dual-check backflow preventer has a chrome-nickel plated brass body and includes atmospheric vent for continuous pressure applications. The check valve comes with %" female dual NPT female inlet and outlet connections. It can sustain a maximum pressure of 125 PSI (8.6 bars). The check valve is certified to CSA B64.8.

Series 9D dual-check backflow preventer with intermediate atmospheric vent can be used under continuous pressure. The primary check valve uses a rubber disc seating adjacent to a mating rubber part to ensure tight closing. A second check valve employs a rubber disc-to-metal seating.

# EEW-1



## S19314 Series

# Combination Drench Shower and Halo™ Eyewash or Eye/Face Wash

# **Halo Pre-Configured Models**

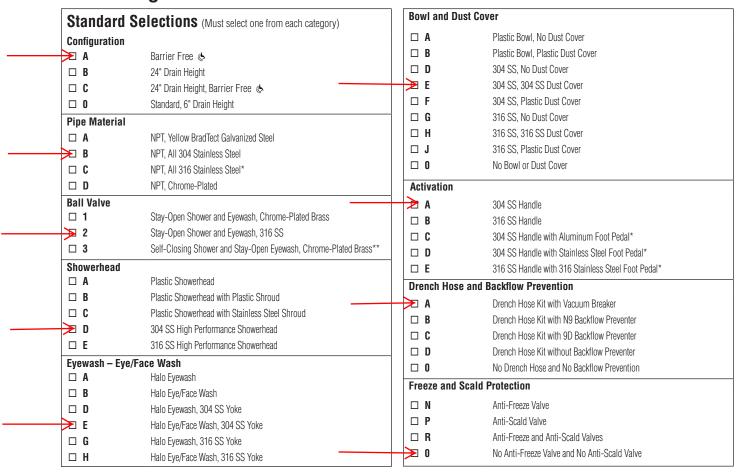
Halo Model Number	Description
Eyewashes	
☐ S19314EW	Halo Eyewash, plastic showerhead & bowl
☐ S19314P	Halo Eyewash, plastic showerhead & bowl w/ hose spray
☐ S19314SB	Halo Eyewash, plastic showerhead, stainless steel bowl
☐ S19314LL	Halo Eyewash, plastic showerhead, stainless steel bowl, hand/foot activated
☐ S19314F	Halo Eyewash, plastic showerhead w/ stainless steel shroud & bowl
☐ S19314UU	Halo Eyewash, plastic showerhead w/ stainless steel shroud & bowl, hand/foot operated eyewash
Eyewashes with D	ust Cover
☐ S19314PDC	Halo Eyewash, plastic showerhead & bowl w/ dust cover
☐ S19314DC	Halo Eyewash, plastic showerhead, stainless steel bowl & hinged dust cover
Eye-Face Washes	
☐ S19314FW	Halo Eye/face wash, plastic showerhead & bowl
☐ S19314SBFW	Halo Eye/face wash, plastic showerhead, stainless steel bowl
☐ S19314AC	Halo Eye/face wash, plastic showerhead, stainless steel bowl, hand/foot operated eyewash
☐ S19314TT	Halo Eye/face wash, plastic showerhead w/ stainless steel shroud & bowl
☐ S19314SPR	Halo Eye/face wash, stainless steel showerhead & bowl, hand/foot operated eyewash
☐ S19314BFPB	Halo Eye/face wash, barrier-free, plastic showerhead & bowl
☐ S19314BF	Halo Eye/face wash, barrier-free, plastic showerhead, stainless steel bowl
Eye-Face Washes	with Dust Covers
S19314PDCFW	Halo Eye/face wash, plastic showerhead & bowl w/ dust cover
☐ S19314DCFW	Halo Eye/face wash, plastic showerhead, stainless steel bowl & hinged dust cover
☐ S19314DCBF	Halo Eye/face wash, barrier-free, plastic showerhead, stainless steel bowl w/ dust cove
Eye-Face Washes	without Eyewash Bowl
☐ S19314GG	Halo Eye/face wash, plastic showerhead, no bowl



#### S19314 Series

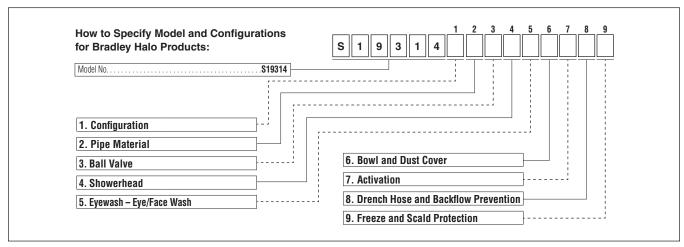
#### Combination Drench Shower and Halo™ Eyewash or Eye/Face Wash

## **Halo Configurator**



<sup>\*</sup> Not available with barrier-free configurations.

<sup>\*\*</sup> Self-closing valves are not ANSI Z358.1 compliant.



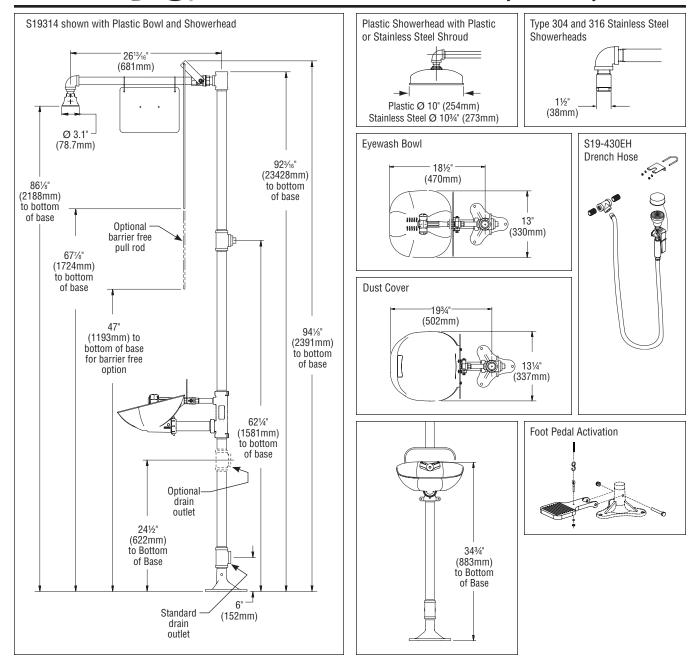
Emergency Fixtures Document No. 4983 Page 4 of 5 This information is subject to change without notice. 6/29/2012 © 2012 Bradley
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bradleycorp.com

## EEW-1

# Bradley Bradley

## S19314 Series

#### Combination Drench Shower and Halo™ Eyewash or Eye/Face Wash





All dimensions assume standard thread engagement. Variations in manufacturing allow for  $+/- \frac{1}{8}$ "(3mm) per threaded joint. To find the tolerance of a dimension, add the number of thread joints across the length of the dimension and multiply it by  $\frac{1}{8}$ " (3mm).

# EEW-1



# S19-2100 S19-2200 Emergency Fixture Thermostatic Mixing Valves

- Meets ANSI Z358.1-2009
- Reliable Liquid-Filled Thermostat with 10-Year Warranty
- Integral Strainer Checkstops on Inlets
- Adjustable Set Point within Temperature Range
- Accurate Temperature Control to within ±3° F
- Built-in Cold Water Bypass, Assuring Cold Flow
- Positive Shutoff of Hot Supply When Cold Supply is Lost
- · Easy Installation and Serviceability
- Dirt and Lime Resistant
- Dial Thermometer
- · Factory Assembled and Tested
- Universal Mounting Capability
- · Cabinet Features:
  - 18 Gauge Body & Door
  - Left-Hand Hinge
  - Cylinder Lock
  - Inlet/Outlet Knock-Out Holes for Mounting Flexibility
  - Stainless Steel or Baked White Enamel Finishes
  - Surface-Mounted or Recessed Style

#### **Valve Specifications**

#### **Maximum Operating Pressure**

125 PSI (860 kPA)

#### **Maximum Inlet Temperature**

180° F (82° C)

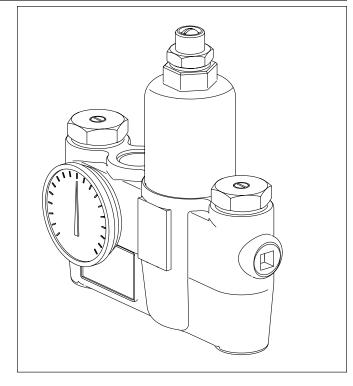
#### **Recommended Inlet Temperature**

120° F (49° C) – 140° F (60° C)

Temperature	Range	Set Point
Std.	65° F (18° C) to 95° F (35° C)	85° F (29° C)

#### Flow Capacities - GPM (L/Min)

	Model	Min.	Pressure Drop – PSI (Bar)								
		Flow	5 (.5)	10 (1.0)	15 (1.5)	20 (2.0)	30 (2.5)	45 (3.0)	60 (4.0)		
	S19-2100	<b>319-2100</b> 2.0 10.5 (48.5)		15.0 (68.5)	18.5 (84.0)	21.3 (97.0)	26.0 (108.5)	32.0 (119.0)	37.0 (137.0)		
	Cold Bypass		8.0	11.5	14.0	16.5	20.0	24.5	28.0		
	Only		(37.0)	(52.0)	(64.5)	(74.0)	(83.0)	(91.0)	(105.0)		
\$19-2200		2.0	22.0	31.0	38.0	43.5	53.5	65.5	75.5		
		(7.5)	(99.5)	(141)	(172.5)	(199.0)	(222.5)	(244.0)	(281.5)		
Cold Bypas			16.5	23.5	29.0	33.5	41.0	50.0	58.0		
Only			(76.3)	(108.0)	(132.0)	(152.5)	(170.5)	(187.0)	(216.0)		



Models (Must s	select one)
Model	Description
<b>→</b> \$19-2100	EFX25-Thermostatic Mixing Valve
□ \$19-2200	EFX60-Thermostatic Mixing Valve

Optional	Optional Selections									
Finish										
□ C	Chrome Plated									
Piped Assem	ıbly									
□ <b>P</b>	Piped Assembly with Inlet and Outlet Shutoff									
□ N	Piped Assembly only									
Cabinets										
□ SS	Surface Mount Stainless Steel									
□ RS	Recessed Stainless Steel									
□ SE	Surface Mount White Enamel									
□ RE	Recessed White Enamel									
□ W	Plexi-glass Window in Door									

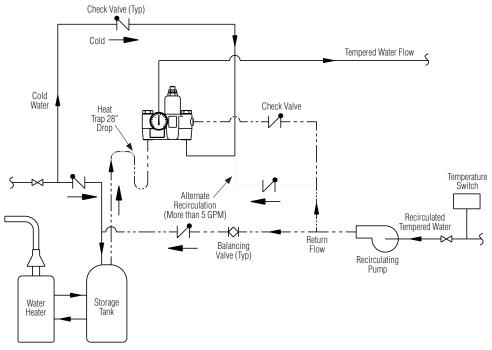
Engineer's Approval

Plumbing Fixtures Document No. 5900 Page 1 of 4
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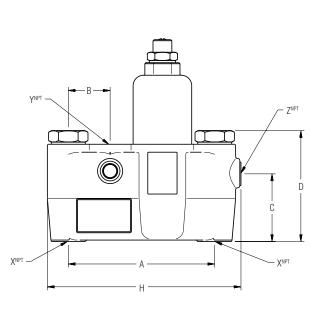
# S19-2100, S19-2200 Emergency Fixture Thermostatic Mixing Valves

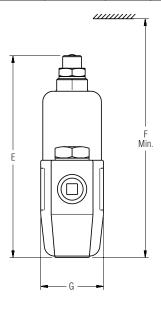
Recirculation Diagram (mm)



#### **Dimensions**

Model	Α	В	C	D	E	F	G	Н	X <sup>NPT</sup>	YNPT	<b>Z</b> <sup>NPT</sup>
S19-2100	7" (178)	2" (51)	3-1/4" (84)	4-3/4" (119)	8" (203)	14" (356)	3-1/8" (79)	9-1/4" (234)	3/4"	1"	3/4"
S19-2200	8-3/4" (224)	2-1/2" (64)	3-1/2" (89)	5-1/4" (135)	12-1/4" (312)	19" (483)	3-5/8" (91)	11-3/8" (290)	1"	1-1/4"	3/4"





Plumbing Fixtures Document No. 5900

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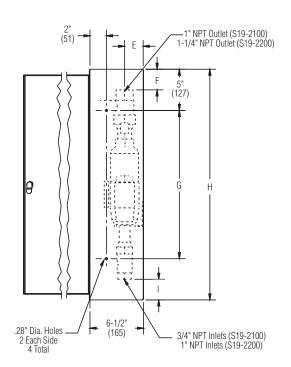
# S19-2100, S19-2200 Emergency Fixture Thermostatic Mixing Valves

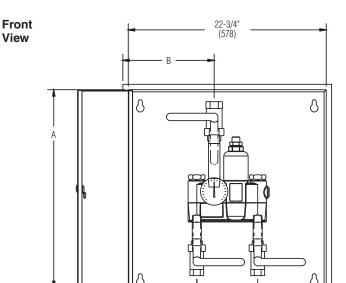
#### **Dimensions** — Surface-Mounted Cabinet

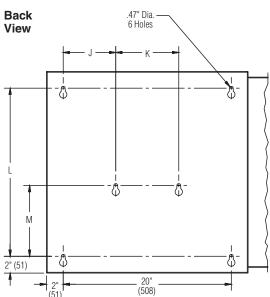
(mm)

	Model	Α	В	C	D	E	F	G	Н	I	J	K	L	M
•	\$19-2100	22-3/4" (578)	10-1/2" (267)	8-1/2" (216)	7" (178)	2" (51)	2" (51)	14" (356)	24" (610)	2" (51)	6-1/4" (159)	7-1/2" (191)	20" (508)	8-7/16" (214)
	S19-2200	26-3/4" (679)	10-3/16" (259)	7-5/8" (194)	8-3/4" (222)	2-1/4" (57)	2-1/2" (64)	18" (457)	28" (711)	2-1/2" (64)	5-1/8" (130)	9-3/4" (248)	24" (610)	9-3/16" (233)









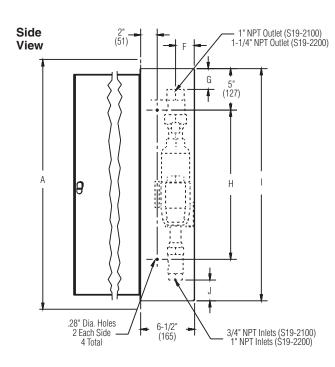
24" (610)

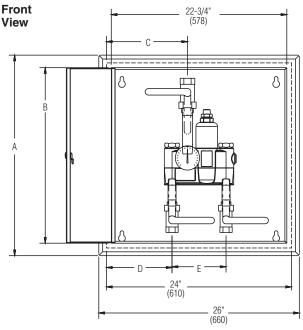


## S19-2100, S19-2200 Emergency Fixture Thermostatic Mixing Valves

#### Dimensions — Recessed Cabinet (mm)

	Model	A	В	C	D	E	F	G	Н	I	J
$\geq$	\$19-2100	26" (660)	22-3/4" (578)	10-1/2" (267)	8-1/2" (216)	7" (178)	2" (51)	2" (51)	14" (356)	24" (610)	2" (51)
	\$19-2200	30" (762)	26-3/4" (679)	10-3/16" (259)	7-5/8" (194)	8-3/4" (222)	2-1/4" (57)	2-1/2" (64)	18" (457)	28" (711)	2-1/2" (64)





S2005

⋖

NONE

5-17-85

₽

P

2

THANGE WITHOUT

MANUFACTURERS TOLERANCE

APPROVED BY:

CHECKED BY

**DRAWN BY** 

FIGURE NUMBER DED OR VOID

FOR USE OF

CAN ASSUME NO RESP

DRAWING NUMBER

SIZE



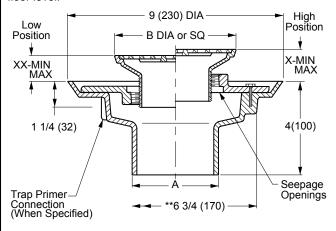


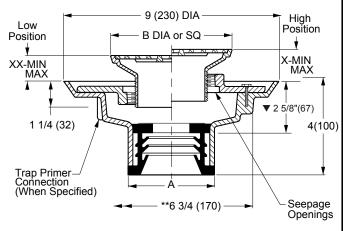


LOCATION

# FLOOR OR SHOWER DRAINS WITH ADJUSTABLE STRAINER HEADS

**FUNCTION:** General service floor drain for use in showers, toilets, kitchens and other finished areas where foot traffic is expected. The round top strainer head is used for all types of poured finished floors. The square top is particularly adaptable to floors that are finished in material of square or straight line pattern. Reversible flashing collar permits adjustment of the strainer to meet finished floor level.





A (Pipe Size) = 02(50), 03(75), 04(100), 05(125) or 06(150)

#### **NO-HUB OUTLET**

Fig. 2005Y......(A) ROUND TOP Fig. 2005Y......(B) SQUARE TOP

	Outlet	Nickel Bronze
	Size	Strainer Head
$\blacktriangle$	02(50)	05(125) DIA or SQ
$\blacktriangle$	03(75)	06(150) DIA or SQ
	04(100)	08(205) DIA or SQ

#### SPEEDI-SET OUTLET

Fig. 2005L.....(A) ROUND TOP Fig. 2005L.....(B) SQUARE TOP

*Collar Strainer In High Size Position		In I	ollar Low ition	Free Area SQ IN (SQ CM)		
В	1 03	X		XX	,00	Citi)
DIA or SQ	MIN	MAX	MIN	MAX	ROUND	<b>SQUARE</b>
05 (125)	1 1/4(32)	2 1/4(57)	3/4(19)	1 5/8(41)	7(45)	6.5(42)
06 (150)	1 1/4(32)	2 1/4(57)	3/4(19)	1 5/8(41)	9(58)	12.5(81)
07 (180)	1 1/4(32)	2 1/4(57)	7/8(22)	1 7/8(48)	14(90)	11(71)
08 (205)	1 1/2(38)	2 1/2(64)	1(25)	1 7/8(48)	17(110)	14(90)
•09 (230)	1 1/2(38)	2 3/8(60)	1(25)	1 7/8(48)	18(116)	16(103)
•10 (255)	1 1/2(38)	2 3/8(60)	1(25)	1 7/8(48)	23(48)	16(103)

- ▼ This dimension to internal stop of speedi-set gasket.
- Add 3/8"(10) to all min/max dimensions for round strainers.
- \* Collar is reversible to obtain extreme high and low strainer positions.
- •• Not available for 5"(125) size strainer.
- \*\* MIN 6 3/4"(170) hole required for core drilled application.

#### **REGULARLY FURNISHED:**

Duco Cast Iron Body with Flashing Collar and Adjustable Strainer Head as Indicated by Suffix Letter Selected.

**NOTE:** Dimensions shown in parentheses are in millimeters.

Meets ASME Standard A112.6.3-2001 02(50), 03(75) or 04"(100) sizes only.

#### VARIATIONS:

- Flapper Type Backwater Valve -V
  Hinged Grate -H
- L Speedi-Set Service Weight 2(50), 3(75) & 4"(100) only
- LXH Speedi-Set Extra Heavy 2(50), 3(75) & 4"(100) only
- Sediment Bucket -B
- Trap Primer Connection -P050 1/2" (13) & -P075 3/4" (19)
- Vandal Proof Screws -U
  Wide Flanged Strainer (Specify
  Fig. DX2005)
- T Threaded Outlet

#### OPTIONAL MATERIALS:

- Bronze Body -BB
- Chrome Plated Strainer -CP
  Galvanized Cast Iron Body -G
- Nickel Bronze Strainer -NB
- Polished Bronze Strainer -PB
- Stainless Steel (Specify Fig. 9700-A)

SEE PM0457 FOR OPTIONAL STRAINER HEADS.

M L K	9/22/06 05/10/05	NO-HUB to SPEEDI-SET Revised ANSI Note Revised ANSI Note	RN RN JJ	CL CL AM	WEIGHT POUNDS	VOLUME CUBIC FEET	FIGURE NUMBER 2005
J	04/10/03	Added 6" to Pipe Size	ĴĴ	CL			2003
RFV	DATE	DESCRIPTION	BY	CKD	1		



# **Precision Plumbing Products**

"Specify with Confidence - Install with Pride"



## PRIME-RITE SERIES TRAP PRIMER VALVES

FD-1

www.pppinc.net

## "... Automatically maintains a constant water seal in floor drain traps."

#### Just the facts:

This innovative trap priming system automatically primes up to two floor drain traps using our patented water distribution system. The PRIME-RITE Series requires no adjustment but must be installed on a cold water line of 1 1/2" (38mm) diameter or less and must serve a frequently used fixture such as a urinal or a water closet. The priming valve is automatically activated when it senses a pressure drop of 10 PSIG (70 kpa). The valve's operating range is 20 to 80 PSIG (138 to 552 kpa).

#### PRIME-RITE SERIES TRAP PRIMING VALVE **SPECIFICATIONS:**

PPP Model # PR-500LL is machined from C69300 ECO corrosion resistant brass.

PPP Model # PR-500AUS is machined from DZR corrosion resistant brass.

PPP Model #PR-500AUS approved to Australian Standards Lic. #IP92.

This priming valve contains: No springs, diaphragms, or plastic parts.

#### PROJECT SUBMITTAL

Prepared By: \_\_

roject:	
ontractor:	
ngineer:	
ate Submitted:	
ato Odshiittod.	

# **NO Adjustment Required!**

		Inlet 1/2" NPT (M) (12mm BSP)
4 3/8" (110mm)	PRECISION PLUMBING PROD. 503 256-4010 PORTLAND.OR USA MOD# PR-500	
	1 1/4" →	Outlet 1/2" FNPT (12mm BSP)
	(32mm)	
	PART NO's:	
	→ PR-500 PR-500LL	

PR-500AUS

#### TRAP PRIMER DISTRIBUTION UNITS

#### **DISTRIBUTION UNIT DU-4 & DU-U.**

FD-1

A metered amount of water from the floor drain trap primer is distributed to as many as two (2) floor drain traps by means of the patented distribution unit. The priming valve must have a minimum elevation of 12" inches (305mm) above the finished floor.

#### **DISTRIBUTION UNIT INSTALLATION:**

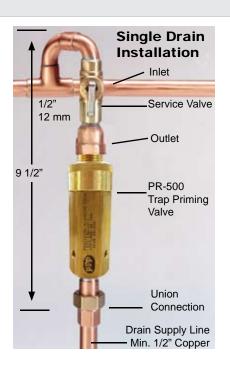
Must be installed level.

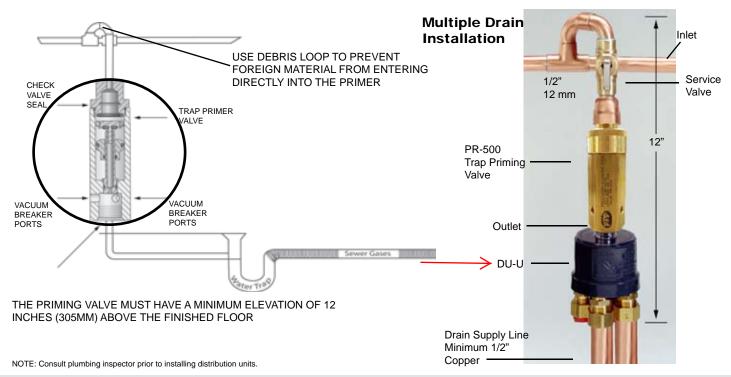
Must be installed with clear plastic cover.

Must be installed with access for periodic inspection.

Do not subject trap primer valve to rough-in pressure test.

For further detail see information sheet specific for the distribution units.





# PPP Hindustries, inc.

## **Precision Plumbing Products**

Division of JL Industries, Inc.

Airport Business Center 6807 NE 79th Court, Suite E Portland, Oregon 97218

T (503) 256-4010 F (503) 253-8165





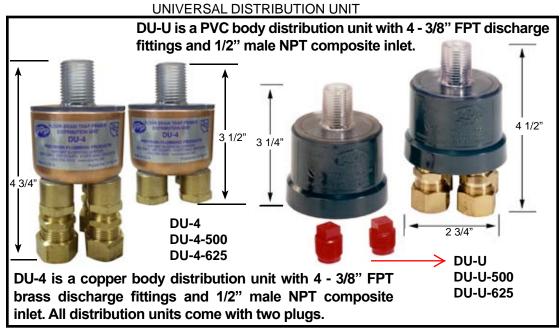


# **Precision Plumbing Products**

"Specify with Confidence - Install with Pride"

## FD-1

## FLOOR DRAIN TRAP PRIMER FRESH WATER DISTRIBUTION SYSTEMS



#### Just the facts:

The Trap Priming Distribution Systems are patented designs that incorporate both copper and PVC materials. These designs give the installer a simple and positive means to prime multiple floor drains using only one Precision Plumbing Trap Priming Valve. It is our recommendation that the distribution unit be mounted level. The fresh water supply line, running from the distribution unit to the trap, must be a minimum of 1/2"



For installation dimension see table below.

O.D. copper tube.	PROJECT SUBMITTAL
Model #:	
Contractor:	
Engineer:	
Date Submitted:	
Prepared By:	

INSTALLATION DIMENSION (see fig. 1)							
PRIMER MODEL:	DU-4	DU-4-500/625	DU-U	DU-U-500/625			
P1	12 1/2"	12 3/4"	12"	12 1/4"			
P2	12 1/2"	12 3/4"	12"	13 1/4"			
PRIME-RITE	12 1/2"	12 3/4"	12"	13 1/4"			
OREGON #1	14 1/2"	14 3/4"	13 1/2"	14 3/4"			
CPO-500	14 1/2"	14 3/4"	13 1/2"	14 3/4"			
SP-500	12"	12 3/4"	11 1/2"	12 3/4"			
MP-500	12"	12 3/4"	11 1/2"	12 3/4"			
MPB-500	17 3/4"	19"	17 1/2"	18 3/4"			
PRO1-500	6 1/2"	7 3/4"	6 1/8"	7 1/4			

# <u> Kindustries, inc.</u>

#### **Precision Plumbing Products**

Division of JL Industries, Inc. Airport Business Center 6807 NE 79th Court, Suite E Portland, Oregon 97218

T (503) 256-4010 F (503) 253-8165 www.pppinc.net







S2005

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NONE

5-17-85

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2

THANGE WITHOUT

MANUFACTURERS TOLERANCE

APPROVED BY:

CHECKED BY

**DRAWN BY** 

FIGURE NUMBER DED OR VOID

FOR USE OF

CAN ASSUME NO RESP

DRAWING NUMBER

SIZE

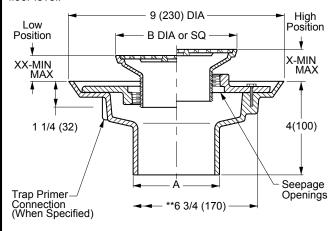


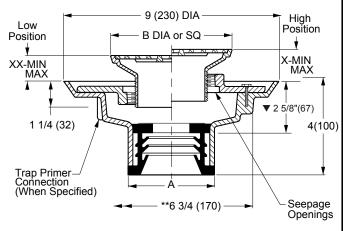


LOCATION

# FLOOR OR SHOWER DRAINS WITH ADJUSTABLE STRAINER HEADS

**FUNCTION:** General service floor drain for use in showers, toilets, kitchens and other finished areas where foot traffic is expected. The round top strainer head is used for all types of poured finished floors. The square top is particularly adaptable to floors that are finished in material of square or straight line pattern. Reversible flashing collar permits adjustment of the strainer to meet finished floor level.





A (Pipe Size) = 02(50), 03(75), 04(100), 05(125) or 06(150)

#### **NO-HUB OUTLET**

Fig. 2005Y.....(A) ROUND TOP Fig. 2005Y......(B) SQUARE TOP

	Outlet Size	Nickel Bronze Strainer Head
$\blacktriangle$	02(50)	05(125) DIA or SQ
$\blacktriangle$	03(75)	06(150) DIA or SQ
$\blacktriangle$	04(100)	08(205) DIA or SQ

#### SPEEDI-SET OUTLET

Fig. 2005L.....(A) ROUND TOP Fig. 2005L.....(B) SQUARE TOP

Strainer Size	In F	*Collar In High Position		*Collar In Low Position		Area Q IN ( CM)
В	2	X	<b>X</b>	(X		
DIA or SQ	MIN	MAX	MIN	MAX	ROUND	<b>SQUARE</b>
05 (125)	1 1/4(32)	2 1/4(57)	3/4(19)	1 5/8(41)	7(45)	6.5(42)
06 (150)	1 1/4(32)	2 1/4(57)	3/4(19)	1 5/8(41)	9(58)	12.5(81)
07 (180)	1 1/4(32)	2 1/4(57)	7/8(22)	1 7/8(48)	14(90)	11(71)
08 (205)	1 1/2(38)	2 1/2(64)	1(25)	1 7/8(48)	17(110)	14(90)
•09 (230)	1 1/2(38)	2 3/8(60)	1(25)	1 7/8(48)	18(116)	16(103)
•10 (255)	1 1/2(38)	2 3/8(60)	1(25)	1 7/8(48)	23(48)	16(103)

- ▼ This dimension to internal stop of speedi-set gasket.
- Add 3/8"(10) to all min/max dimensions for round strainers.
- Collar is reversible to obtain extreme high and low strainer positions.
- •• Not available for 5"(125) size strainer.
- \*\* MIN 6 3/4"(170) hole required for core drilled application.

#### **REGULARLY FURNISHED:**

Duco Cast Iron Body with Flashing Collar and Adjustable Strainer Head as Indicated by Suffix Letter Selected.

**NOTE:** Dimensions shown in parentheses are in millimeters.

Meets ASME Standard A112.6.3-2001 02(50), 03(75) or 04"(100) sizes only.

#### VARIATIONS:

Flapper Type Backwater Valve -V
Hinged Grate -H

L Speedi-Set Service Weight 2(50), 3(75) & 4"(100) only LXH Speedi-Set Extra Heavy

2(50), 3(75) & 4"(100) only Sediment Bucket -B

Trap Primer Connection -P050 1/2" (13) & -P075 3/4" (19)

Vandal Proof Screws -U
Wide Flanged Strainer (Specify
Fig. DX2005)
T Threaded Outlet

#### **OPTIONAL MATERIALS:**

Bronze Body -BB

Chrome Plated Strainer -CP

Galvanized Cast Iron Body -G Nickel Bronze Strainer -NB

Polished Bronze Strainer -PB

Stainless Steel (Specify Fig. 9700-A)

SEE PM0457 FOR OPTIONAL STRAINER HEADS.

М		NO-HUB to SPEEDI-SET Revised ANSI Note	RN	CL	WEIGHT POUNDS	VOLUME CUBIC FEET	FIGURE NUMBER
K J		Revised ANSI Note Revised ANSI Note Added 6" to Pipe Size	RN JJ JJ	CL AM CL			2005
REV.	DATE	DESCRIPTION	BY	CKD.	l		



# **Precision Plumbing Products**

"Specify with Confidence - Install with Pride"



# PRIME-RITE SERIES TRAP PRIMER VALVES

FD-2

www.pppinc.net

# "... Automatically maintains a constant water seal in floor drain traps."

#### Just the facts:

This innovative trap priming system automatically primes up to two floor drain traps using our patented water distribution system. The PRIME-RITE Series requires no adjustment but must be installed on a cold water line of 1 1/2" (38mm) diameter or less and must serve a frequently used fixture such as a urinal or a water closet. The priming valve is automatically activated when it senses a pressure drop of 10 PSIG (70 kpa). The valve's operating range is 20 to 80 PSIG (138 to 552 kpa).

# PRIME-RITE SERIES TRAP PRIMING VALVE SPECIFICATIONS:

PPP Model # PR-500LL is machined from C69300 ECO corrosion resistant brass.

PPP Model # PR-500AUS is machined from DZR corrosion resistant brass.

PPP Model #PR-500AUS approved to Australian Standards Lic. #IP92.

This priming valve contains: No springs, diaphragms, or plastic parts.

#### PROJECT SUBMITTAL

Project:
Contractor:
Sontractor.
Engineer:
Date Submitted:
Prepared By:

## **NO Adjustment Required!**

		Inlet 1/2" NPT (M) (12mm BSP)
4 3/8" (110mm)	PRECISION PLUMBING PROD. 503 256-4010 PORTLAND.OR USA MOD# PR-500	Outlet
	← 1 1/4" → (32mm)	1/2" FNPT (12mm BSP)
	PART NO's: → PR-500	

PR-500AUS

PATENT NO. 4,497,337

#### TRAP PRIMER DISTRIBUTION UNITS

# DISTRIBUTION UNIT DU-4 & DU-U. FD-2

A metered amount of water from the floor drain trap primer is distributed to as many as two (2) floor drain traps by means of the patented distribution unit. The priming valve must have a minimum elevation of 12" inches (305mm) above the finished floor.

#### **DISTRIBUTION UNIT INSTALLATION:**

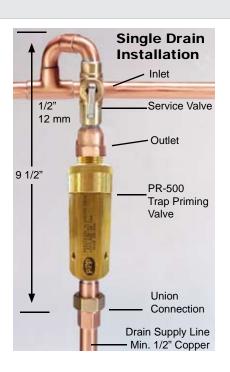
Must be installed level.

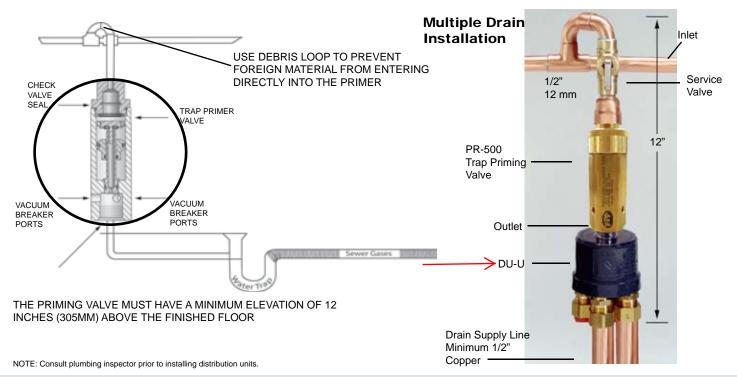
Must be installed with clear plastic cover.

Must be installed with access for periodic inspection.

Do not subject trap primer valve to rough-in pressure test.

For further detail see information sheet specific for the distribution units.







## **Precision Plumbing Products**

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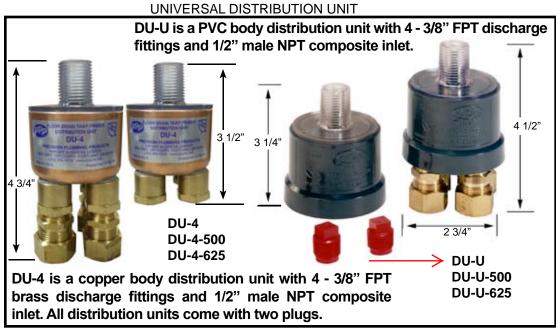


# **Precision Plumbing Products**

"Specify with Confidence - Install with Pride"

# FD-2

## FLOOR DRAIN TRAP PRIMER FRESH WATER DISTRIBUTION SYSTEMS



#### Just the facts:

The Trap Priming Distribution Systems are patented designs that incorporate both copper and PVC materials. These designs give the installer a simple and positive means to prime multiple floor drains using only one Precision Plumbing Trap Priming Valve. It is our recommendation that the distribution unit be mounted level. The fresh water supply line, running from the distribution unit to the trap, must be a minimum of 1/2"



For installation dimension see table below.

O.D. copper tube.	PROJECT SUBMITTAL
Model #:	
Project:	
Contractor:	
Engineer:	
Date Submitted:	
Prepared By:	

INSTALLATION DIMENSION (see fig. 1)				
PRIMER MODEL:	DU-4	DU-4-500/625	DU-U	DU-U-500/625
P1	12 1/2"	12 3/4"	12"	12 1/4"
P2	12 1/2"	12 3/4"	12"	13 1/4"
PRIME-RITE	12 1/2"	12 3/4"	12"	13 1/4"
OREGON #1	14 1/2"	14 3/4"	13 1/2"	14 3/4"
CPO-500	14 1/2"	14 3/4"	13 1/2"	14 3/4"
SP-500	12"	12 3/4"	11 1/2"	12 3/4"
MP-500	12"	12 3/4"	11 1/2"	12 3/4"
MPB-500	17 3/4"	19"	17 1/2"	18 3/4"
PRO1-500	6 1/2"	7 3/4"	6 1/8"	7 1/4



#### **Precision Plumbing Products**

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U.S. Patent No. 3,776,269-6,325,091



# American Standard

Style That Works Better

**&** BARRIER FREE

#### **WHEELCHAIR USERS LAVATORY** VITREOUS CHINA

#### WHEELCHAIR USERS LAVATORY

- Vitreous china
- Wall mount sink
- · Front overflow
- For concealed arms support (by others)
- Faucet ledge (faucet not included)

#### Faucet Holes on 102mm (4") centers

- ☐ 9141.011 Faucet holes on 102mm (4") centers (Illustrated)
- ☐ 9141.029 Faucet holes on 102mm (4") centers Extra right-hand hole
- ☐ 9141.035 Faucet holes on 102mm (4") centers
  - Extra left-hand hole
- ☐ 9141.911 Faucet holes on 102mm (4") centers
  - Less overflow

#### Faucet Holes on 267mm (10-1/2") centers

- ☐ 9140.013 Faucet holes on 267mm (10-1/2") centers
- ☐ 9140.021 Faucet holes on 267mm (10-1/2") centers
  - Extra right-hand hole
- ☐ 9140.039 Faucet holes on 267mm (10-1/2") centers
  - Extra left-hand hole
- ☐ 9140.913 Faucet holes on 267mm (10-1/2") centers
  - Less overflow

# **Faucet Holes center hole only**

- **9140.047** Center hole only
- **□** 9140.947 Center hole only
  - Less overflow

#### **Nominal Dimensions:**

508 x 686mm (20" x 27")

#### **Bowl Sizes:**

14" (356mm) wide 14-3/4" (375mm) front to back 4-3/4" (121mm) deep

#### **Compliance Certifications -**Meets or Exceeds the Following Specifications:

ASME A112.19.2 for Vitreous China Fixtures



SEE REVERSE FOR ROUGHING-IN DIMENSIONS

#### To Be Specified:

- ☐ Color: White ☐ Bone ☐ Silver
- □ Faucet\*:
- ☐ Faucet Finish:
- ☐ Supplies with Stop:
- ☐ 1-1/4" Trap:
- Nipple:
- ☐ Concealed Arms Support (by others):
- ☐ Offset Grid Drain Assembly: 7723.018

<sup>\*</sup> See faucet section for additional models available



MEETS THE AMERICANS WITH DISABILITIES ACT GUIDE-LINES AND ANSI A117.1 ACCESSIBLE AND USABLE **BUILDINGS AND FACILITIES - CHECK LOCAL CODES.** 

Top of front rim mounted 864mm (34") from finished floor.

# American Standard

Style That Works Better

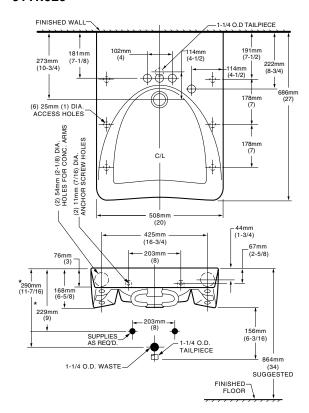
**&** BARRIER FREE

# WHEELCHAIR USERS LAVATORY

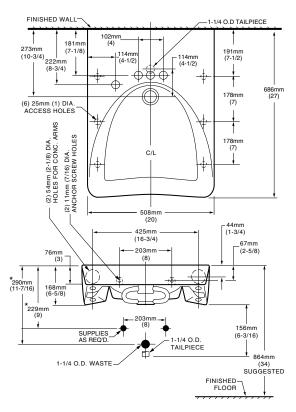
#### 9141.011

#### FINISHED WALL -1-1/4 O.D TAIL PIECE 181mm (7-1/8) 273mm (10-3/4) $\Phi \overline{\Phi} \Phi$ 178mm (7) (6) 25mm (1) DIA. ACCESS HOLES (2) 54mm (2-1/8) DIA. HOLES FOR CONC. ARMS (2) 11mm (7/16) DIA. ANCHOR SCREW HOLES C/L 508mr (20) \_67mm (2-5/8) 76mm (3) -203mm \*290mm (11-7/16) 229mm (9) (6-3/16) 1-1/4 O.D. TAILPIECE 864mm (34) SUGGESTED 1-1/4 O.D. WASTE FINISHED FLOOR

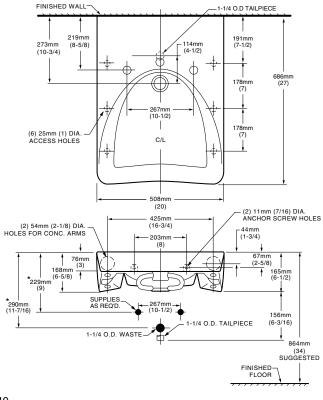
#### 9141.029



#### 9141.035



#### 9140.013



# American Standard

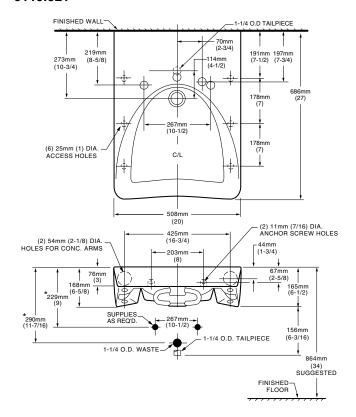
Style That Works Better

**BARRIER FREE** 

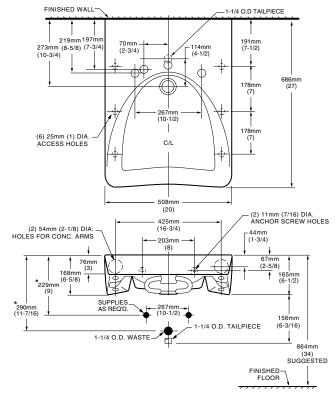
# **WHEELCHAIR USERS LAVATORY**

**VITREOUS CHINA** 

#### 9140.021



#### 9140.039



MEETS THE AMERICANS WITH DISABILITIES ACT GUIDE-LINES AND ANSI A117.1 ACCESSIBLE AND USABLE **BUILDINGS AND FACILITIES - CHECK LOCAL CODES.** 

Top of front rim mounted 864mm (34") from finished floor.

NOTES:  $\star$  DIMENSIONS SHOWN FOR LOCATION OF SUPPLIES AND "P" TRAP ARE SUGGESTED. CONCEALED ARM SUPPORT AS REQUIRED TO BE FURNISHED BY OTHERS.

FITTINGS NOT INCLUDED AND MUST BE ORDERED SEPARATELY. PROVIDE SUITABLE REINFORCEMENT FOR ALL WALL SUPPORTS.

IMPORTANT: Dimensions of fixtures are nominal and may vary within the range of tolerances established by ANSI Standard A112.19.2. These measurements are subject to change or cancellation. No responsibility is assumed for use of superseded or voided pages.



# Style That Works Better

#### ELECTRONIC PROXIMITY METERING FAUCET

SELECTRONIC™



#### **GENERAL DESCRIPTION:**

Electronic faucet with proximity operation. Vandalresistant solid brass construction with single post mounting. Operates on DC (battery) or AC permanent power. Water pressure range from 20 to 125 psi. Single inlet 15" flexible stainless steel hose with 3/8" compression fitting for spout connection.

#### PRODUCT FEATURES:

Vandal-Resistant Brass Body: Durable - Excellent in high use applications.

#### **Power Options:**

- Battery Lithium CR-P2 battery. Battery Life Approx. 200,000 cycles (4 years @ 4,000 cycles per month).
- Plug-In Plug-In Universal low voltage transformer (80 -250 VAC, 50 - 60 Hz) with 6 foot long cord. One power supply can run up to 15 faucets and/or flush valves in series.

#### Easy and Flexible Installation:

Single post mounting with optional 4" and 8" Deck plate. Water resistant solenoid enclosure mounts to wall.

#### Integrated; Easy Service Strainer:

Patented integrated strainer enclosed in removable debris cup protects the solenoid valve and aerator from debris. Perforated stainless steel strainer is low maintenance and can be easily accessed.

#### **Temperature Mixing:**

Optional thermostatic mixing valve. Mixing valve will connect directly to solenoid inlet and is housed in matching enclosure.

**Lead Free:** Faucet contains ≤ 0.25% total lead content by weighted average.

#### **MODEL NUMBER:**

#### DC POWERED; single inlet

☐ **6055.104** with cast spout, 0.35 GPM pressure compensating, vandal-resistant non-aerate spray. CR-P2 Lithium Battery included. Faucet is factory set for 7.5 seconds running time to deliver 0.044 gallons per cycle.

#### AC POWERED: single inlet

6056.104 with cast spout, 0.35 GPM pressure compensating, vandal-resistant non-aerated spray. Includes AC power supply (M950169-0070A). Faucet is factory set for 7.5 second running time to deliver 0.044 gallons per cycle.

#### OPTIONAL 4" or 8" Deck plates

☐ 605P.400 4" brass deck plate with 1/4" fixation studs and quick spin nuts. (6-1/8"x 2-1/8"x 1/2") 605P.800 8" brass deck plate with 1/4" fixation studs and quick spin nuts. (10-1/8"x 2-3/8"x1/2")

#### OPTIONAL Mixing Valve

☐ 605XTMV Thermostatic mixing valve, flex hoses 3/8" compression 20" hose length.

#### RECOMMENDED SPECIFICATION

Electronic Proximity Metering Faucet shall feature vandal resistant all brass body with single inlet, and in-line strainer. Shall also feature a low energy use electronically operated solenoid valve and microprocessor controlled proximity sensors. Shall meet ANSI A112.18.1 and ANSI 117.1 codes. Shall feature 0.35 gpm pressure compensating vandal-resistant non-aerated spray. Faucet is factory set for 7.5 seconds running time to deliver 0.044 gallons per cycle. Fitting shall be American Standard Model # 6055.104, 6056.104.



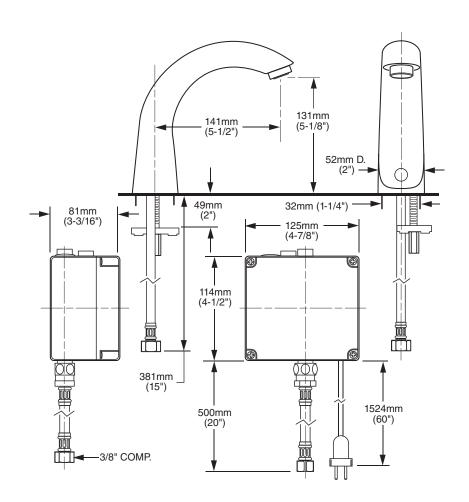
# SELECTRONIC™ ELECTRONIC PROXIMITY METERING FAUCET

#### **CODES AND STANDARDS**

These products meet or exceed the following codes and standards:

ANSI A117.1 ASME A112.18.1 CSA B 125 NSF 61/Section 9, Annex G CALGreen

MEETS THE AMERICANS WITH DISABILITIES ACT GUIDELINES AND ANSI A117.1 REQUIREMENTS FOR ACCESSIBLE AND USABLE BUILDING FACILITIES-CHECK LOCAL CODES



L4



4675 W. 160th St. Cleveland, Ohio 44135 Ph: (800) 321-9532 Fax: (800) 321-9535

SUBMITTAL SPECIFICATION

# CAST GRID WHEELCHAIR PATENT OUTLET PLUG

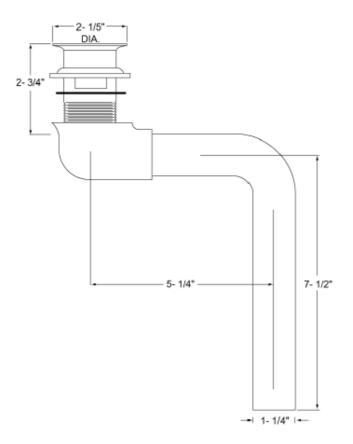
**Engineering Specification:** Dearborn Brass Semi-Cast Wheelchair Grid Patent Overflow Plug with 1-  $\frac{1}{4}$ " – 17 gauge tailpiece.

**Job Reference** 

#### **DESCRIPTION**

- Chrome Finished
- Includes: Cast Grid, P.O. Plug with nuts and washers, 90° Elbow and 17 gauge tailpiece
- Designed for installation in most commercial applications





<b>✓</b>	Product No.	Description	Carton Quantity	Carton Weight (lbs)
	760W-1	Semi-Cast Grid Wheelchair Patent Overflow Plug	10	14
		with 1-¼" – 17 gauge Tailpiece		

Data is subject to manufacturing tolerances.



4675 W. 160th St. Cleveland, Ohio 44135 Ph: (800) 321-9532 Fax: (800) 321-9535 www.dearbornbrass.com

SUBMITTAL SPECIFICATION

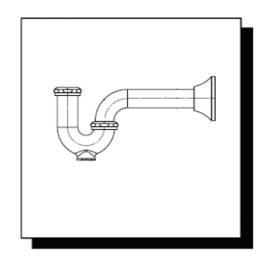
# BRASS TUBULAR 1-¼" SEMI-CAST P-TRAPS

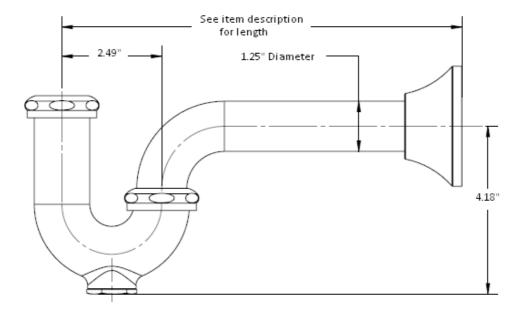
**Engineering Specification:** Dearborn Brass 1-¼" Semi-Cast Brass P-Traps are designed for installation in commercial applications.

**Job Reference** 

#### **DESCRIPTION**

- Chrome Finished
- 17 Gauge Brass
- Semi-Cast P-Trap
  - o Cast J-Bend with Cleanout
  - o Quarter Bend
  - o Deep Metal Flange
  - o Cleanout Plug
  - o Fiber Cleanout Washer
  - o (2) Brass Nuts
  - o (1) 1-1/2" x 1-1/4" Reducing Washer
  - o (2) 1-1/4" Poly Washers
  - o (2) 1-1/4" Rubber Washers
- Designed for installation in commercial applications





✓	Product No.	Description	Carton Quantity	Carton Weight (lbs)
	507-1	1-¼" x 12" Semi Cast Brass P-Trap – 17 Gauge with	12	17
		Deep Flange & Brass Nuts		
	5507-1	1-¼" x 12" Semi Cast Brass P-Trap – 17 Gauge with	12	17
		Deep Flange & Brass Nuts – White Box		
	5507A-1	1-¼" x 15" Semi Cast Brass P-Trap – 17 Gauge with	12	19
		Deep Flange & Brass Nuts		

Data is subject to manufacturing tolerances.

For Residential and Commercial Applications			
Job Name	E	Engineer / Architect	
Job Location		Wholesaler	
Submittal Date		Contractor	

# OCR1912A/ OCR1915A/ OCR1920A Copper Faucet Supply Kit - Compression Multi-Turn Angle Stop

*Use:* For use with water in accessible locations only. Not intended for recirculating water systems that produce continuous use temperatures above 115° F. For those applications, use our KT<sup>™</sup> series ball stop supply kits.

#### **Design Features:**

- Everything you need. These kits combine our trusted BrassCraft® supply stop, copper riser, and escutcheon for an easy-to-install connection
- 100% compliant kits available

#### Copper riser provides:

- One-piece construction
- Cut-to-length for a clean, professional installation

#### Multi-Turn stop provides:

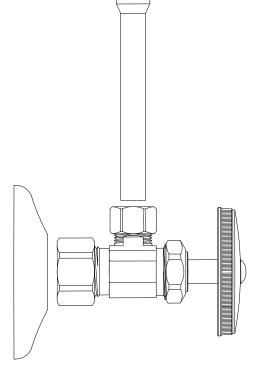
- Machined one-piece brass body provides strength, durability and long-lasting performance
- Oval knurled handle provides a secure grip and smooth on/off operation
- Easy-to-remove handle with screw attachment helps protect against accidental stop operation during rough-ins

#### **Operating Specifications:**

*Temperature:* 40°- 140° F

**Pressure:** 125 PSI maximum

**Tubing Diameter:** 0.375" OD



## Compliant

CONNECTOR MATERIAL SPECIFICATIONS		
Tube	Copper or chrome-plated	
Tube	copper	
Insert	POM	

#### Standard

# Tube Copper or chrome-plated copper Insert POM

This specification and all information contained herein is the confidential and exclusive property of BrassCraft Manufacturing, and shall not be disclosed to others without the written consent of BrassCraft Mfg. This specification must be returned to BrassCraft Mfg if requested.



# OCR1912A/ OCR1915A/ OCR1920A Copper Faucet Supply Kit - Compression Multi-Turn Angle Stop

Standard Compliant

STOP MATERIAL SPECIFICATIONS		
Body	Brass or chrome-plated brass	
Stem	POM or brass	
Bib & Packing Washers	Nitrile rubber	
Packing Nut	Brass or chrome-plated brass	
Handle	Metal, chrome-plated ABS or Polycarbonate	
Handle Screw	Steel, zinc-plated	
Loose Key	Zinc die-cast	
Loose Key Stem	Brass, chrome-plated	
Lock Shield	Brass, chrome-plated	

STOP MATERIAL SPECIFICATIONS		
Body	Compliant brass, chrome- plated	
Stem	POM or compliant brass	
Bib & Packing Washers	Nitrile rubber	
Packing Nut	Brass or chrome-plated brass	
Handle	Metal, chrome-plated ABS or Polycarbonate	
Handle Screw	Steel, zinc-plated	
Loose Key	Zinc die-cast	
Loose Key Stem	Brass, chrome-plated	
Lock Shield	Brass, chrome-plated	

Escu	tcheon	Stainless steel	Escutche	on	Stainless steel
Star	Standard Part Listing:				
	OCR1912A	1/2" nom compression length riser & shallow		•	stop with 3/8" OD tube x 11-1/2"
OCR1912A R			n x 3/8" OD co	mpression	stop with 3/8" OD tube x 11-1/2"
	OCR1912AZ	_	n x 3/8" OD co	mpression	stop, brass stem with 3/8" OD tube
	OCR1915A (	_	n x 3/8" OD co	mpression	stop with 3/8" OD tube x 14-1/2"
	OCR1920A	_	n x 3/8" OD co	mpression	stop with 3/8" OD tube x 19-1/2"
	OCR1920AZ		n x 3/8" OD co	mpression	stop, brass stem with 3/8" OD tube
	OCR1920AZ	_	n x 3/8" OD co	mpression	stop, brass stem with 3/8" OD tube
	OCR1920A		n x 3/8" OD co	mpression	stop with 3/8" OD tube x 19-1/2"
	OCR1920A	_	n x 3/8" OD co	mpression	stop with 3/8" OD tube x 19-1/2"
<del>\</del>	SCR1912A C	_	n x 3/8" OD co	mpression	stop with 3/8" OD tube x 11-1/2" hrome plated
	SCR1915A C	_	n x 3/8" OD co	mpression	stop with 3/8" OD tube x 14-1/2"
	SCR1920A C	_	n x 3/8" OD co	mpression	stop with 3/8" OD tube x 19-1/2"

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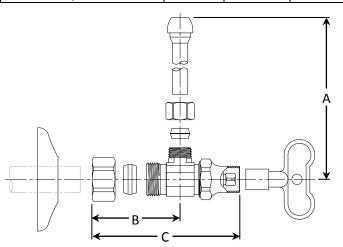
# OCR1912A/ OCR1915A/ OCR1920A Copper Faucet Supply Kit - Compression Multi-Turn Angle Stop

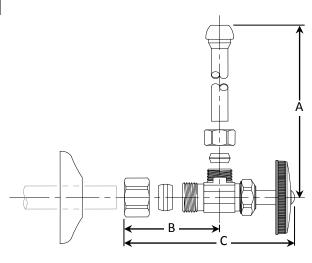
Complian	t	Part	Listing:
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OCR1912AX C	1/2" nom compression x 3/8" OD compression stop with 3/8" OD tube x 11-1/2" length riser & shallow escutcheon, chrome plated
OCR1912AZX C	1/2" nom compression x $3/8$ " OD compression stop, brass stem with $3/8$ " OD tube x $11-1/2$ " length riser & shallow escutcheon, chrome plated
OCR1915AX C	1/2" nom compression x 3/8" OD compression stop with 3/8" OD tube x 14-1/2" length riser & shallow escutcheon, chrome plated
SCR1912AX C	1/2" nom compression x 3/8" OD compression stop with 3/8" OD tube x 11-1/2" length riser & shallow escutcheon, loose key, chrome plated
SCR1915AX C	1/2" nom compression x 3/8" OD compression stop with 3/8" OD tube x 14-1/2" length riser & shallow escutcheon, loose key, chrome plated
SCR1920AX C	1/2" nom compression x 3/8" OD compression stop with 3/8" OD tube x 19-1/2"

length riser & shallow escutcheon, chrome plated

PART DIMENSIONS (Inches)										
Model	DIM. A	DIM. B	DIM. C							
OCR1912A /AZ /AX/ AZX	12.00	1.16	2.84							
OCR1915A /AX	15.00	1.16	2.84							
OCR1920A /AZ	20.00	1.16	2.84							
SCR1912A /AX	12.00	1.20	2.64							
SCR1915A /AX	15.00	1.20	2.64							
SCR1920A /AX	20.00	1.20	2.64							





#### **Listings & Certifications:**

- IAPMO listed to ASME A112.18.1 / CSA B125.1 (File # 0645)
- CSA listed to ASME A112.18.1 / CSA B125.1 (File # 204593)
- Compliant product CSA listed to Low Lead Content Certification Program Plumbing Products Class 6853-0









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#### ADA-compliant undersink protection

# **Submittal Sheet**

### **General Description:**

Lav Guard® 2 E-Z Series waste and supply piping covers satisfy ADA compliance requirements. Built-in E-Z Grip internal fasteners and internal, E-Z Tear-To-Fit trimming feature allow for fast installation without tools. Series #100 E-Z kits are designed to fit on all tubular and cast brass P-trap assemblies. Series #400 kits are the "original" LAV GUARD design and fit schedule 40 ABS and PVC P-trap assemblies — regardless of their geometry or rotational offset. Valve cover completely encloses angle valve and supply tube for both handled and keyed type water stops.

Material	Molded vinyl
Nominal Wall	1/8" constant
Durometer	70 - 80 - Shore A
UV Protection	Will not fade or discolor
Durability	Virtually indestructible
Trimming (E-Z Series)	Internal, <i>E-Z Tear-To-Fit</i> trim feature
Fasteners (E-Z Series)	Internal <i>E-Z Grip</i> fasteners (reusable)
Color	China white
Paintability	Apply Latex paint
Burning Characteristics ASTM D-635	Self extinguished 0 sec (ATB) 0 mm (AEB)
Bacteria/Fungus Resistance	ASTM G21 and G22/ Result: 0 growth
Maintenance	Use common detergents

Manufactured under one or more of the following U.S. or Canadian patents. Other patents pending.

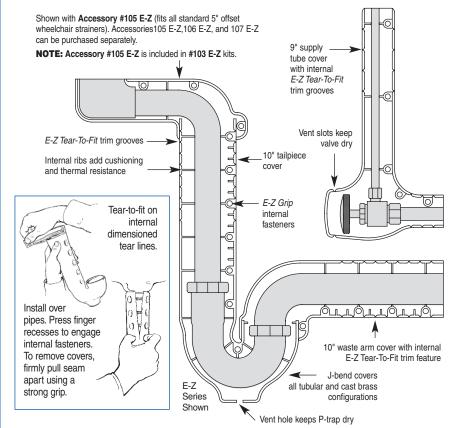
5,303,730 5,360,031 5,524,669 5,564,463 5,678,598 5,699,828 5,915,412 5,915,413 5,901,739 5,960,820 2,075,324 2,119,427 2,136,027 2,158,083



IPS Corporation, 202 Industrial Park Lane, Collierville, TN 38017 (901) 853-5001 (800) 340-5969 FAX: (901) 853-5008 







#100 E-Z Series (shown above right) for tubular and cast brass P-trap assemblies. #400W\* Series (original design) for schedule 40 P-trap assemblies.

☐ <b>Model #99 E-Z</b> One angle valve and supply cover	☐ Model #102 E-Z One P-trap cover, two angle valves and covers	☐ <b>Acc</b> Kohler 6
☐ <b>Model #100 E-Z</b> One P-trap cover	☐ Model #402W*	One ba
☐ Model #400W* One P-trap cover	One P-trap cover, two angle valves and covers  Model #103 E-Z	
Model #101 E-Z One P-trap cover, one angle	One P-trap cover, two angle valves and supply covers, one 5" offset	Two bas or end o
valve cover  Model #401W*	tailpiece wheelchair strainer cover  Accessory #105 E-Z	One 16
One P-trap cover, one angle valve cover	One 5" offset tailpiece wheelchair	☐ Acc

strainer assembly

\*All #400W series items are the "original" Lav Guard® design and construction. Specifications may change without notice.

cessory #105-K 6" offset

cessory #106 E-Z sket strainer cover and offset over (adjustable to 18")

cessory #107 E-Z sket strainer covers and center outlet waste cover (adjustable)

cessory #Ex99 E-Z extension for water supply

Accessory #Ex100 E-Z One 16" extension for drain waste arm or tailpiece

Accessory 105 E-Z	Accessory 107 E-Z (Configuration Options Shown)						
Accessory 106 E-Z	Center Outlet	End Outlet					

Designer

TRUEBRO reserves the right to make product and material changes at any time without notice.

# THERMOSTATIC MIXING VALVE

LOCK

SCREW

**INTEGRAL** 

CHECK

COLD

INLET

VALVES

TEMPERATURE ADJUSTMENT

HOT

INLET

# **MODEL 170**

# THERMOSTATIC POINT OF USE MIXING VALVE

MODEL 3/8" inlets, 3/8" outlet, compression connections

#### **MATERIALS:**

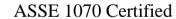
- Bronze body
- Locked temperature adjustment cap (vandal resistant)
- Copper encapsulated thermostat assembly with polymer thermoplastic shuttle
- Stainless steel springs
- Buna-N O'rings
- Integral check valves on hot and cold inlets
- Compression fittings on inlets and outlet

#### PRESSURE-TEMPERATURE:

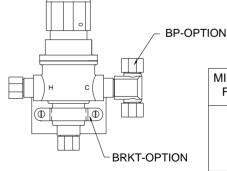
- Minimum Flow:0.5 GPM (1.9 l/Min)
- Maximum Pressure: 125 PSI (8.6 BAR)
- Maximum Hot Water temperature: 200°F- (93°C)
- Approach Temperature 5°F (2.8°C) above set point.

#### **OPTION:** (Furnished separately)

\_\_\_\_BP- Cold water By-Pass \_\_\_\_BRKT- Mounting Bracket







MIXED OUTLET

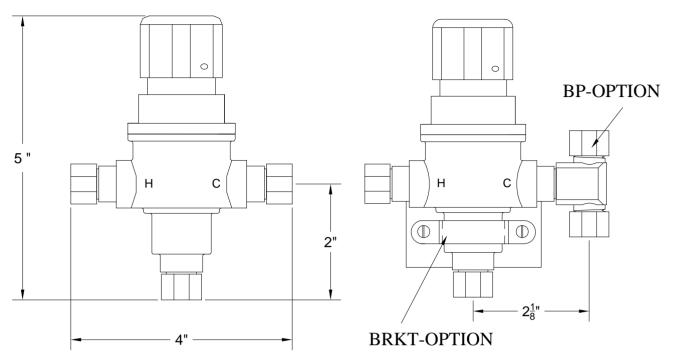
MINIMUM								
FLOW	5	10	_ 20	30	40	50	PSI	
	.35	.70	1.4	2.1	2.8	3.4	BAR	
0.5	1.7	2.3	3.0	3.6	4.4	5.0	GPM	
1.9	6.4	8.7	11.4	14	17	19	l/min	

Engineer's Approval	Job #
	Arch/Eng
	Contractor



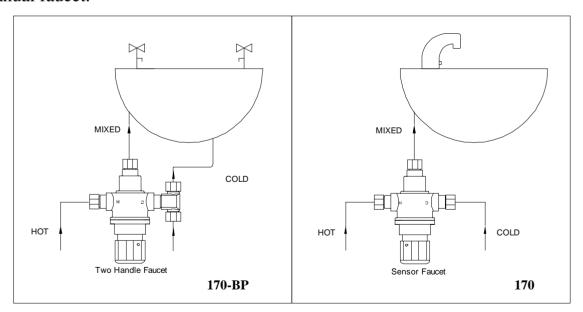
1360 Elmwood Avenue, Cranston, RI 02910 USA Phone: 401.461.1200 Fax: 401.941.5310

Email: <a href="mailto:info@leonardvalve.com">info@leonardvalve.com</a>
Web Site: <a href="mailto:http://www.leonardvalve.com">http://www.leonardvalve.com</a>



#### **APPLICATION**

The Model 170 is a high performance Temperature Actuated Mixing Valve used to supply single outlets. Can be used to supply one sensor faucet or one two handle manual faucet.



Note: Leonard Valve Company reserves the right of product, or design modifications without notice or obligation.



1360 Elmwood Avenue, Cranston, RI 02910 USA Phone: 401.461.1200 Fax: 401.941.5310

Email: info@leonardvalve.com

Web Site: http://www.leonardvalve.com

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S0700 (-27)

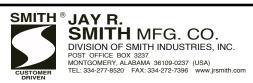
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NONE

SUPERSEDED OR VOID DATA

Р USE

DRAWING NUMBEF





LOCATION

# FIXTURE SUPPORT FLOOR MOUNTED WITH CONCEALED ARMS

#### FOR FLAT SLAB WHEELCHAIR PATIENTS LAVATORY

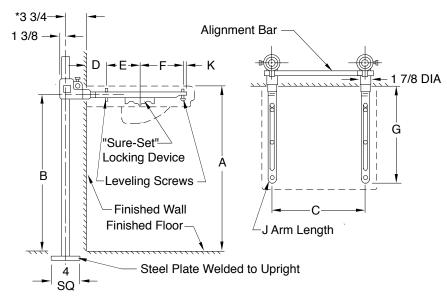
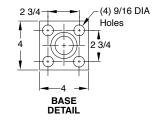


Fig. 0700 (-27) ... FOR HIGH BACK LAVATORIES (shown)

NOTE: The rough-in dimensions listed on this drawing are based on current information available to Jay R. Smith by the fixture manufacturers. We recommend that you verify these dimensions with the fixture manufacturer. We will not accept responsibility for rough-in dimension changes by the fixture manufacturer.



NOTE: \*This dimension can be increased when fixture support is to be installed behind the wall. (Specify when required and wall thickness).

#### **ROUGHING-IN TABLE**

FIXTURE MFG.	NAME	NUMBER	SIZE	Α	В	С	D	E	F	G	J	K
AM. STD.	WHEELCHAIR	9140.013	20 x 27	34	32 3/8	16 3/4	7 1/2	7	7	22	25	1/2
AM. STD.	WHEELCHAIR	9141.011	20 x 27	34	32 3/8	16 3/4	7 1/2	7	7	22	25	1/2
CRANE●	WHEELCHAIR	IH-360	20 x 27	34	32 1/2	16 7/8	6	7 1/2	7 1/2	21 1/2	25	1/2
ELJER●●	WHEELCHAIR	051-2964, 68	20 x 27	34	33	16 3/4	7 1/2	7	7	22	25	1/2
KOHLER	MORNINGSIDE	K-12634, 5, 6	20 x 27	34	32 1/2	16 3/4	7 1/2	7	7	22	25	1/2
BRIGGS●●●	GRACE	6640, 5	20 x 27	34	32 3/8	16 3/4	7 1/2	7	7	22	25	1/2
ARMITAGE	WHEELCHAIR	315	20 x 27	35	33 3/8	17	7 1/2	7	8 3/4	23 1/4	25	1/2
SHANKS												

- Furnish (4) 1/4 20 x 4 1/2 R.H. machine screws for rear leveling screws
- •• Furnish (4) 1/4 20 x 2 1/2 R.H. machine screws for rear leveling screws
- ••• Furnish (2) 1/4 20 x 1 1/2 slotted R.H. M.S. for front leveling screws

					WEIGHT POUNDS	VOLUME CUBIC FEET	FIGURE NUMBER
D	10-19-94	Submittal Update	EMB				0700 (-27)
REV.	DATE	DESCRIPTION	BY	CKD. BY			0700 (-27)

WE CAN ASSUME NO RESPONSIBILITY FOR 5-22-67 APPROVED BY 5 NOTICE WITHOUT CHECKED BY 윤 **TOLERANCE AND CHANGE** S

FIGURE NUMBER

SMITH SMITH MFG. CO.

SMITH MFG. CO.

DIVISION OF SMITH INDUSTRIES, INC.
POST OFFICE BOX 3237
MONTGOMERY, ALABAMA 36109-0237 (USA)
TEL: 334-277-8520 FAX: 334-272-7396 www.jrsmith.com

S0710 (-27)

⋖

NONE

07/11/01

A

CB

3

FIGURE NUMBER AND CHANGE WITHOUT NOTICE

SUPERSEDED OR VOID DATA

WE CAN ASSUME NO RESPONSIBILITY FOR USE OF



LOCATION

# LABOR SAVER® LAVATORY SUPPORT FLOOR MOUNTED WITH CONCEALED ARMS

#### FOR FLAT SLAB WHEELCHAIR PATIENTS LAVATORY

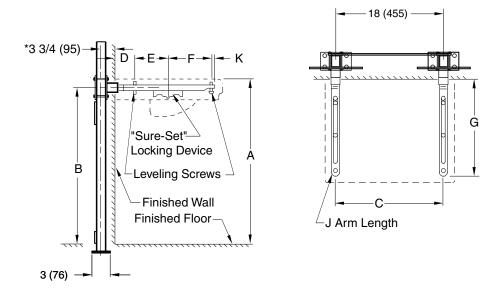
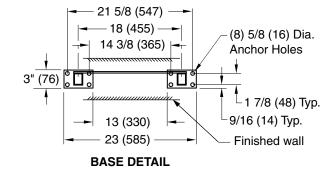


Fig. 0710 (-27) ... FOR HIGH BACK LAVATORIES (shown)

**NOTE:** The rough-in dimensions listed on this drawing are based on current information available to Jay R. Smith by the fixture manufacturers. We recommend that you verify these dimensions with the fixture manufacturer. We will not accept responsibility for rough-in dimension changes by the fixture manufacturer.

**NOTE:** \*This dimension includes a wall thickness of 1/2". For greater wall thickness, specify centerline of upright to finished wall dimension.

**NOTE:** Dimensions shown in parentheses are in millimeters.



#### **ROUGHING-IN TABLE**

	FIXT	FIXTURE MFG.		NAME		NUMBER		SIZE		
Α	В	С	D	E	F		G	J		K

D C B A	7/16/02	Revised Plate Configuration Revised per George Flegel Changed Fig. 0700 to 0710 Changed Hole Size in Base	JJ JJ RN JJ	CL AM AM AM	WEIGHT POUNDS	VOLUME CUBIC FEET	FIGURE NUMBER
REV.	DATE	DESCRIPTION	BY	CKD. BY			0110(21)

## American Standard

Style That Works Better

**b** BARRIER FREE

# LUCERNETM WALL-HUNG LAVATORY VITREOUS CHINA

#### **LUCERNE™ WALL-HUNG LAVATORY**

- · Wall-hung sink
- Vitreous china
- Front overflow
- · D-shaped bowl
- Self-draining deck area with contoured back and side splash shields
- Faucet ledge

#### Faucet holes on 203mm (8") centers (Illus.):

- □ 0356.028 For exposed bracket support Shown with 4801.862 Amarilis Heritage faucet with Triune Cross handles (not included)
- □ 0356.015 For wall hanger (included) or concealed arms support
- □ 0356.037 For wall hanger (included) or concealed arms support
  - Extra right-hand hole
- □ 0356.073 For wall hanger (included) or concealed arms support
  - Extra left-hand hole

#### Faucet holes on 102mm (4") centers:

- ☐ 0355.027 For exposed bracket support
- □ 0355.012 For wall hanger (included) or concealed arms support
- □ 0355.034 For wall hanger (included) or concealed arms support
  - Extra right-hand hole
- □ 0355.056 For wall hanger (included) or concealed arms support
  - Extra left-hand hole

#### Single center faucet hole (Illus.):

- □ 0356.041 For exposed bracket support Shown with 1340.000 metering faucet (not included)
- 0356.421 For wall hanger (included) or concealed arms support
- □ 0356.137 For wall hanger (included) or concealed arms support
  - Extra right-hand hole
- □ 0356.115 For wall hanger (included) or concealed arms support
  - Extra left-hand hole

#### **Nominal Dimensions:**

521 x 464mm (20-1/2" x 18-1/4")

#### **Bowl sizes:**

381mm (15") wide 254mm (10") front to back 165mm (6-1/2") deep

# Compliance Certifications - Meets or Exceeds the Following Specifications:

• ASME A112.19.2 for Vitreous China Fixtures



0356.028



0356.041

#### SEE REVERSE FOR ROUGHING-IN DIMENSIONS

To Be Specified: ☐ Color ☐ White ☐ Bone ☐ Silver ☐ Black ☐ Linen	
☐ Faucet*:	
☐ Faucet Finish:	
☐ Supplies:	
☐ 1-1/4" Trap:	
□ Nipple:	
☐ Bracket Support (by others):	
☐ Concealed Arms Support (by others):	

<sup>\*</sup> See faucet section for additional models available



MEETS THE AMERICANS WITH DISABILITIES ACT GUIDE-LINES AND ANSI A117.1 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES - CHECK LOCAL CODES. Top of front rim mounted 864mm (34") from finished floor.

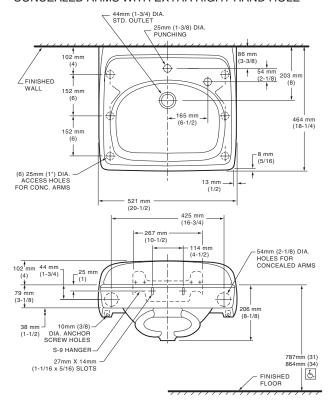
# American Standard

Style That Works Better

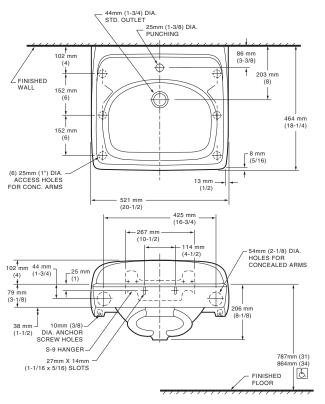
**BARRIER FREE** 

## **LUCERNETM WALL-HUNG LAVATORY**

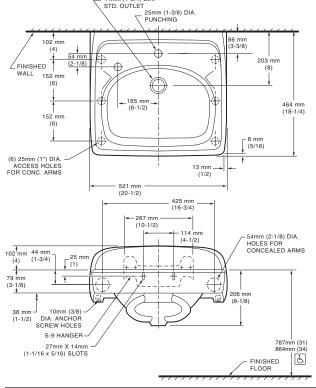
#### 0356.137 SINGLE CENTER HOLE FOR WALL HANGER OR CONCEALED ARMS WITH EXTRA RIGHT HAND HOLE



#### 0356.421 SINGLE CENTER HOLE FOR WALL HANGER OR CONCEALED ARMS



#### 0356.115 SINGLE CENTER HOLE FOR WALL HANGER OR CONCEALED ARMS WITH EXTRA LEFT HAND HOLE



#### NOTES:

\* DIMENSIONS SHOWN FOR LOCATION OF SUPPLIES AND "P" TRAP ARE SUGGESTED.
PROVIDE SUITABLE REINFORCEMENT FOR ALL WALL SUPPORTS.
FITTINGS NOT INCLUDED AND MUST BE ORDERED SEPARATELY.

CONCEALED ARM SUPPORT AS REQUIRED TO BE FURNISHED BY OTHERS.

**IMPORTANT:** Dimensions of fixtures are nominal and may vary within the range of tolerances established by ANSI Standard A112.19.2. These measurements are subject to change or cancellation. No responsibility is assumed for use of superseded or voided pages.

LAVATORY DESIGNED TO MEET ADA HANDICAPPED GUIDELINES WITH MOUNTING HEIGHT SET AT 864MM (34") ABOVE FINISHED FLOOR.



# SELECTRONIC™

#### ELECTRONIC PROXIMITY METERING FAUCET



#### **GENERAL DESCRIPTION:**

Electronic faucet with proximity operation. Vandalresistant solid brass construction with single post mounting. Operates on DC (battery) or AC permanent power. Water pressure range from 20 to 125 psi. Single inlet 15" flexible stainless steel hose with 3/8" compression fitting for spout connection.

#### PRODUCT FEATURES:

Vandal-Resistant Brass Body: Durable - Excellent in high use applications.

#### **Power Options:**

- Battery Lithium CR-P2 battery. Battery Life Approx. 200,000 cycles (4 years @ 4,000 cycles per month).
- Plug-In Plug-In Universal low voltage transformer (80 -250 VAC, 50 - 60 Hz) with 6 foot long cord. One power supply can run up to 15 faucets and/or flush valves in series.

#### Easy and Flexible Installation:

Single post mounting with optional 4" and 8" Deck plate. Water resistant solenoid enclosure mounts to wall.

#### Integrated; Easy Service Strainer:

Patented integrated strainer enclosed in removable debris cup protects the solenoid valve and aerator from debris. Perforated stainless steel strainer is low maintenance and can be easily accessed.

#### **Temperature Mixing:**

Optional thermostatic mixing valve. Mixing valve will connect directly to solenoid inlet and is housed in matching enclosure.

**Lead Free:** Faucet contains ≤ 0.25% total lead content by weighted average.

#### **MODEL NUMBER:**

#### DC POWERED; single inlet

☐ **6055.104** with cast spout, 0.35 GPM pressure compensating, vandal-resistant non-aerate spray. CR-P2 Lithium Battery included. Faucet is factory set for 7.5 seconds running time to deliver 0.044 gallons per cycle.

#### AC POWERED: single inlet

6056.104 with cast spout, 0.35 GPM pressure compensating, vandal-resistant non-aerated spray. Includes AC power supply (M950169-0070A). Faucet is factory set for 7.5 second running time to deliver 0.044 gallons per cycle.

#### OPTIONAL 4" or 8" Deck plates

☐ 605P.400 4" brass deck plate with 1/4" fixation studs and quick spin nuts. (6-1/8"x 2-1/8"x 1/2") 605P.800 8" brass deck plate with 1/4" fixation studs and quick spin nuts. (10-1/8"x 2-3/8"x1/2")

#### OPTIONAL Mixing Valve

☐ 605XTMV Thermostatic mixing valve, flex hoses 3/8" compression 20" hose length.

#### RECOMMENDED SPECIFICATION

Electronic Proximity Metering Faucet shall feature vandal resistant all brass body with single inlet, and in-line strainer. Shall also feature a low energy use electronically operated solenoid valve and microprocessor controlled proximity sensors. Shall meet ANSI A112.18.1 and ANSI 117.1 codes. Shall feature 0.35 gpm pressure compensating vandal-resistant non-aerated spray. Faucet is factory set for 7.5 seconds running time to deliver 0.044 gallons per cycle. Fitting shall be American Standard Model # 6055.104, 6056.104.



# SELECTRONIC™ ELECTRONIC PROXIMITY METERING FAUCET

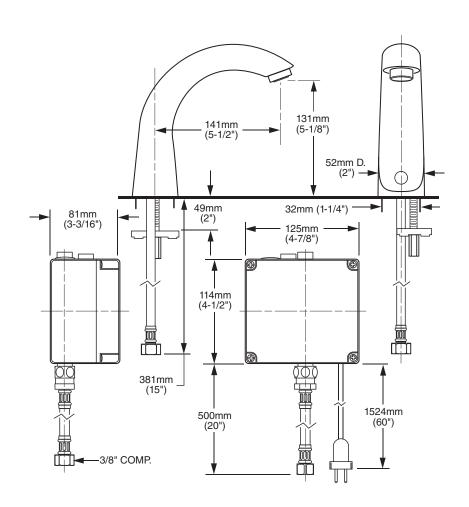
#### **CODES AND STANDARDS**

These products meet or exceed the following codes and standards:

ANSI A117.1 ASME A112.18.1 CSA B 125 NSF 61/Section 9, Annex G CALGreen

© 2012 AS America Inc.

MEETS THE AMERICANS WITH DISABILITIES ACT GUIDELINES AND ANSI A117.1 REQUIREMENTS FOR ACCESSIBLE AND USABLE BUILDING FACILITIES-CHECK LOCAL CODES





4675 W. 160th St. Cleveland, Ohio 44135 Ph: (800) 321-9532 Fax: (800) 321-9535 www.dearbornbrass.com

SUBMITTAL SPECIFICATION

# CAST GRID WHEELCHAIR PATENT OUTLET PLUG

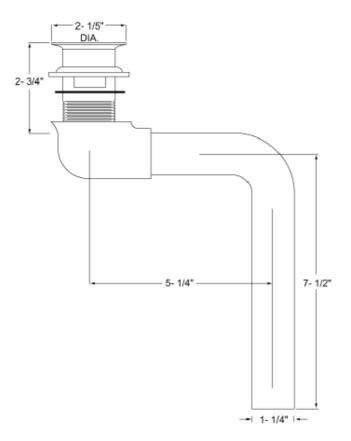
**Engineering Specification:** Dearborn Brass Semi-Cast Wheelchair Grid Patent Overflow Plug with 1-  $\frac{1}{4}$ " – 17 gauge tailpiece.

**Job Reference** 

#### **DESCRIPTION**

- Chrome Finished
- Includes: Cast Grid, P.O. Plug with nuts and washers, 90° Elbow and 17 gauge tailpiece
- Designed for installation in most commercial applications





✓	Product No.	Description	Carton Quantity	Carton Weight (lbs)
	760W-1	Semi-Cast Grid Wheelchair Patent Overflow Plug with 1-¼" – 17 gauge Tailpiece	10	14



4675 W. 160th St. Cleveland, Ohio 44135 Ph: (800) 321-9532 Fax: (800) 321-9535 www.dearbornbrass.com

SUBMITTAL SPECIFICATION

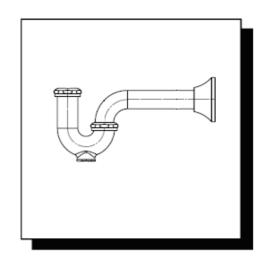
# BRASS TUBULAR 1-¼" SEMI-CAST P-TRAPS

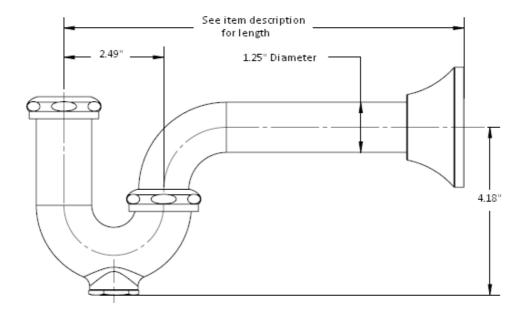
**Engineering Specification:** Dearborn Brass 1-¼" Semi-Cast Brass P-Traps are designed for installation in commercial applications.

**Job Reference** 

#### **DESCRIPTION**

- Chrome Finished
- 17 Gauge Brass
- Semi-Cast P-Trap
  - o Cast J-Bend with Cleanout
  - o Quarter Bend
  - o Deep Metal Flange
  - o Cleanout Plug
  - o Fiber Cleanout Washer
  - o (2) Brass Nuts
  - o (1) 1-1/2" x 1-1/4" Reducing Washer
  - o (2) 1-1/4" Poly Washers
  - o (2) 1-1/4" Rubber Washers
- Designed for installation in commercial applications





	✓	Product No.	Description	Carton Quantity	Carton Weight (lbs)
_	$\overline{}$	507-1	507-1 1-¼" x 12" Semi Cast Brass P-Trap – 17 Gauge with		17
			Deep Flange & Brass Nuts		
		5507-1	07-1 1-¼" x 12" Semi Cast Brass P-Trap – 17 Gauge with		17
			Deep Flange & Brass Nuts – White Box		
		5507A-1	1-¼" x 15" Semi Cast Brass P-Trap – 17 Gauge with	12	19
			Deep Flange & Brass Nuts		

For Residential and Commercial Applications			
Job Name Engineer / Architect			
Job Location		Wholesaler	
Submittal Date		Contractor	

*Use:* For use with water in accessible locations only. Not intended for recirculating water systems that produce continuous use temperatures above 115° F. For those applications, use our KT<sup>™</sup> series ball stop supply kits.

#### **Design Features:**

- Everything you need. These kits combine our trusted BrassCraft® supply stop, copper riser, and escutcheon for an easy-to-install connection
- 100% compliant kits available

#### Copper riser provides:

- One-piece construction
- Cut-to-length for a clean, professional installation

#### Multi-Turn stop provides:

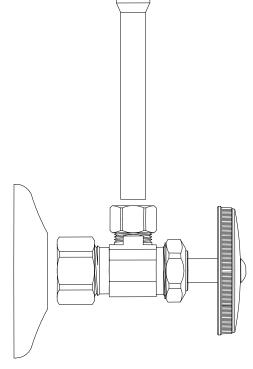
- Machined one-piece brass body provides strength, durability and long-lasting performance
- Oval knurled handle provides a secure grip and smooth on/off operation
- Easy-to-remove handle with screw attachment helps protect against accidental stop operation during rough-ins

#### **Operating Specifications:**

*Temperature:* 40°- 140° F

*Pressure:* 125 PSI maximum

**Tubing Diameter:** 0.375" OD





#### Standard

CONNECTOR MATERIAL SPECIFICATIONS		
Tube	Copper or chrome-plated	
Tube	copper	
Insert	POM	

#### Compliant

CONNECTOR MATERIAL SPECIFICATIONS		
Tube	Copper or chrome-plated	
Tube	copper	
Insert	POM	



Standard **Compliant** 

STOP MATERIAL SPECIFICATIONS		
Body	Brass or chrome-plated brass	
Stem	POM or brass	
Bib & Packing Washers	Nitrile rubber	
Packing Nut	Brass or chrome-plated brass	
Handle	Metal, chrome-plated ABS or Polycarbonate	
Handle Screw	Steel, zinc-plated	
Loose Key	Zinc die-cast	
Loose Key Stem	Brass, chrome-plated	
Lock Shield	Brass, chrome-plated	

r · ·			
STOP MATERIAL SPECIFICATIONS			
Body	Compliant brass, chrome- plated		
Stem	POM or compliant brass		
Bib & Packing Washers	Nitrile rubber		
Packing Nut	Brass or chrome-plated brass		
Handle	Metal, chrome-plated ABS or Polycarbonate		
Handle Screw	Steel, zinc-plated		
Loose Key	Zinc die-cast		
Loose Key Stem	Brass, chrome-plated		
Lock Shield	Brass, chrome-plated		
Loose Key Loose Key Stem	Zinc die-cast Brass, chrome-plated		

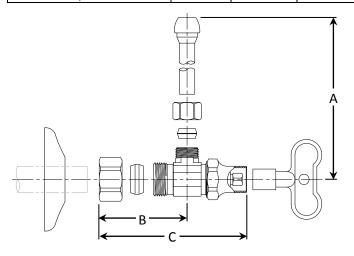
Escu	tcheon	Stainless steel	Escutch	eon	Stainless steel
Star	Standard Part Listing:				
	OCR1912A	,		•	stop with 3/8" OD tube x 11-1/2"
	OCR1912A F	length riser & shallow R 1/2" nom compression length riser & shallow	n x 3/8" OD c	ompression	stop with 3/8" OD tube x 11-1/2"
	OCR1912AZ	<del>-</del>	n x 3/8" OD c	ompression	stop, brass stem with 3/8" OD tube
	OCR1915A (		n x 3/8" OD c	ompression	stop with 3/8" OD tube x 14-1/2"
	OCR1920A (	_	n x 3/8" OD c	ompression	stop with 3/8" OD tube x 19-1/2"
OCR1920AZ C 1/2"		C 1/2" nom compression	n x 3/8" OD c	ompression	stop, brass stem with 3/8" OD tube
x 19-1/2" length riser & shallow escutcheon, chrome plated  OCR1920AZ R  1/2" nom compression x 3/8" OD compression stop, brass stem with 3, x 19-1/2" length riser & shallow escutcheon, rough finish		stop, brass stem with 3/8" OD tube			
	OCR1920A E	_	n x 3/8" OD c	ompression	stop with 3/8" OD tube x 19-1/2"
	OCR1920A	_	n x 3/8" OD c	ompression	stop with 3/8" OD tube x 19-1/2"
1	SCR1912A C	_	n x 3/8" OD c	ompression	stop with 3/8" OD tube x 11-1/2" hrome plated
	SCR1915A C		n x 3/8" OD c	ompression	stop with 3/8" OD tube x 14-1/2"
	SCR1920A C	_	n x 3/8" OD c	ompression	stop with 3/8" OD tube x 19-1/2"

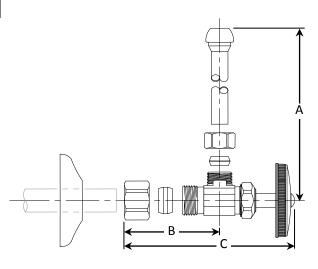


#### **Compliant Part Listing:**

OCR1912AX C	1/2" nom compression x $3/8$ " OD compression stop with $3/8$ " OD tube x $11-1/2$ " length riser & shallow escutcheon, chrome plated
OCR1912AZX C	1/2" nom compression x $3/8$ " OD compression stop, brass stem with $3/8$ " OD tube x $11-1/2$ " length riser & shallow escutcheon, chrome plated
OCR1915AX C	1/2" nom compression x 3/8" OD compression stop with 3/8" OD tube x 14-1/2" length riser & shallow escutcheon, chrome plated
SCR1912AX C	1/2" nom compression x 3/8" OD compression stop with 3/8" OD tube x 11-1/2" length riser & shallow escutcheon, loose key, chrome plated
SCR1915AX C	1/2" nom compression x 3/8" OD compression stop with 3/8" OD tube x 14-1/2" length riser & shallow escutcheon, loose key, chrome plated
SCR1920AX C	1/2" nom compression x 3/8" OD compression stop with 3/8" OD tube x 19-1/2" length riser & shallow escutcheon, chrome plated

PART DIMENSIONS (Inches)				
Model	DIM. A	DIM. B	DIM. C	
OCR1912A /AZ /AX/ AZX	12.00	1.16	2.84	
OCR1915A /AX	15.00	1.16	2.84	
OCR1920A /AZ	20.00	1.16	2.84	
SCR1912A /AX	12.00	1.20	2.64	
SCR1915A /AX	15.00	1.20	2.64	
SCR1920A /AX	20.00	1.20	2.64	





#### **Listings & Certifications:**

- IAPMO listed to ASME A112.18.1 / CSA B125.1 (File # 0645)
- CSA listed to ASME A112.18.1 / CSA B125.1 (File # 204593)
- Compliant product CSA listed to Low Lead Content Certification Program Plumbing Products Class 6853-0















#### ADA-compliant undersink protection

# **Submittal Sheet**

#### **General Description:**

Lav Guard® 2 E-Z Series waste and supply piping covers satisfy ADA compliance requirements. Built-in E-Z Grip internal fasteners and internal, E-Z Tear-To-Fit trimming feature allow for fast installation without tools. Series #100 E-Z kits are designed to fit on all tubular and cast brass P-trap assemblies. Series #400 kits are the "original" LAV GUARD design and fit schedule 40 ABS and PVC P-trap assemblies — regardless of their geometry or rotational offset. Valve cover completely encloses angle valve and supply tube for both handled and keyed type water stops.

Material	Molded vinyl
Nominal Wall	1/8" constant
Durometer	70 - 80 - Shore A
UV Protection	Will not fade or discolor
Durability	Virtually indestructible
Trimming (E-Z Series)	Internal, <i>E-Z Tear-To-Fit</i> trim feature
Fasteners (E-Z Series)	Internal <i>E-Z Grip</i> fasteners (reusable)
Color	China white
Paintability	Apply Latex paint
Burning Characteristics ASTM D-635	Self extinguished 0 sec (ATB) 0 mm (AEB)
Bacteria/Fungus Resistance	ASTM G21 and G22/ Result: 0 growth
Maintenance	Use common detergents

Manufactured under one or more of the following U.S. or Canadian patents. Other patents pending.

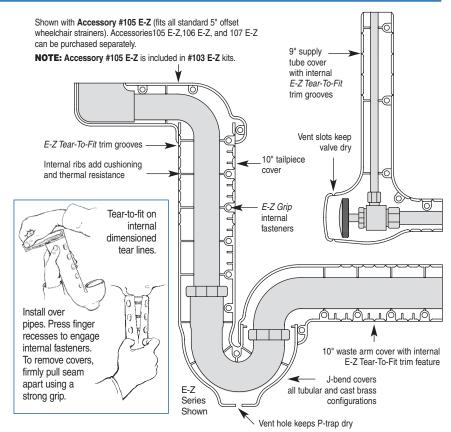
5,303,730 5,360,031 5,524,669 5,564,463 5,678,598 5,699,828 5,915,412 5,915,413 5,901,739 5,960,820 2,075,324 2,119,427 2,136,027 2,158,083



IPS Corporation, 202 Industrial Park Lane, Collierville, TN 38017 (901) 853-5001 (800) 340-5969 FAX: (901) 853-5008 







#100 E-Z Series (shown above right) for tubular and cast brass P-trap assemblies. #400W\* Series (original design) for schedule 40 P-trap assemblies

strainer assembly

\*All #400W series items are the "original" Lav Guard® design and

construction. Specifications may change without notice.

TOOM OCHES (original acoign	, for soriedate 401 trap assertistics.	
☐ <b>Model #99 E-Z</b> One angle valve and supply cover	☐ Model #102 E-Z One P-trap cover, two angle valves	☐ Accessory #105-K Kohler 6" offset
☐ <b>Model #100 E-Z</b> One P-trap cover	and covers  Model #402W*	☐ Accessory #106 E-Z One basket strainer cover and offset
Model #400W* One P-trap cover	One P-trap cover, two angle valves and covers	waste cover (adjustable to 18")  Accessory #107 E-Z
☐ Model #101 E-Z One P-trap cover, one angle	Model #103 E-Z  One P-trap cover, two angle valves and supply covers, one 5" offset	Two basket strainer covers and center or end outlet waste cover (adjustable)
alve cover	tailpiece wheelchair strainer cover	☐ Accessory #Ex99 E-Z
☐ Model #401W*	☐ Accessory #105 E-Z	One 16" extension for water supply
One P-trap cover, one angle	One 5" offset tailpiece wheelchair	☐ Accessory #Fx100 F-7

Accessory 105 E-Z	Accessory 10' (Configuration Optio	
Accessory 106 E-Z	Center Outlet	End Outlet
Joh/I ocation		

Designer

TRUEBRO reserves the right to make product and material changes at any time without notice.

iter

One 16" extension for drain waste

arm or tailpiece

# **THERMOSTATIC MIXING VALVE**

MIXED OUTLET

**TEMPERATURE ADJUSTMENT** 

HOT

INLET

# **MODEL 170**

#### THERMOSTATIC POINT OF USE MIXING VALVE

MODEL 3/8" inlets, 3/8" outlet, compression connections

## **MATERIALS:**

- Bronze body
- Locked temperature adjustment cap (vandal resistant)
- Copper encapsulated thermostat assembly with polymer thermoplastic shuttle
- Stainless steel springs
- Buna-N O'rings
- Integral check valves on hot and cold inlets
- Compression fittings on inlets and outlet

#### PRESSURE-TEMPERATURE:

- Minimum Flow: 0.5 GPM (1.9 l/Min)
- Maximum Pressure: 125 PSI (8.6 BAR)
- Maximum Hot Water temperature: 200°F- (93°C)
- Approach Temperature 5°F (2.8°C) above set point.

#### **OPTION:** (Furnished separately)

BP- Cold water By-Pass BRKT- Mounting Bracket

#### rtified



40

2.8

4.4

17

PSI

BAR

GPM

l/min

50

3.4

5.0

19

BP-OPT	ION	ASS	SE 107	0 Certi	fied	
H c	MINIMUM FLOW	5	10	PRESS 20	URE DRO	)P
		.35	.70	1.4	2.1	:
BRKT-OPTION	0.5 1.9	1.7 6.4	2.3 8.7	3.0 11.4	3.6 14	

LOCK

SCREW

**INTEGRAL** 

CHECK

COLD

INLET

VALVES

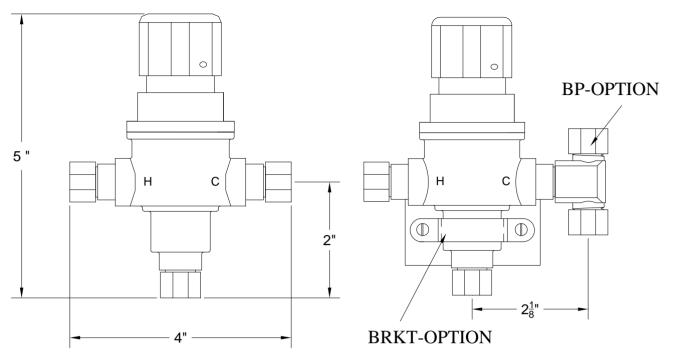
Engineer's Approval	Job #
	Arch/Eng.
	Contractor



1360 Elmwood Avenue, Cranston, RI 02910 USA Phone: 401.461.1200 Fax: 401.941.5310

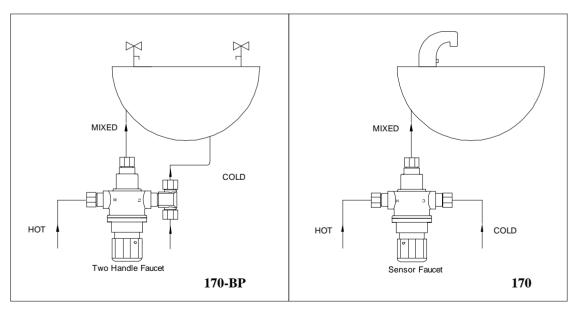
**Email:** info@leonardvalve.com

Web Site: http://www.leonardvalve.com



#### **APPLICATION**

The Model 170 is a high performance Temperature Actuated Mixing Valve used to supply single outlets. Can be used to supply one sensor faucet or one two handle manual faucet.



Note: Leonard Valve Company reserves the right of product, or design modifications without notice or obligation.



1360 Elmwood Avenue, Cranston, RI 02910 USA Phone: 401.461.1200 Fax: 401.941.5310

Email: info@leonardvalve.com

Web Site: http://www.leonardvalve.com

DRAWING NUMBEF

SUPERSEDED OR VOID DATA

WE CAN ASSUME NO RESPONSIBILITY FOR USE OF

AND CHANGE WITHOUT NOTICE

DIMENSIONS ARE SUBJECT TO MANUFACTURERS TOLERANCE

CHECKED BY:

DRAWN BY:

2-20-85

PATE

APPROVED BY SJM





LOCATION

# LAVATORY SUPPORTS WITH CONCEALED ARMS

#### FLOOR MOUNTED WITH "PRO-SET" UPRIGHTS

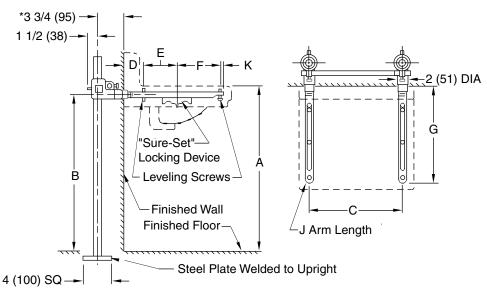
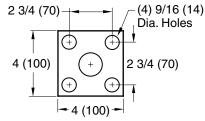


Fig. 0700 . . . FOR HIGH BACK LAVATORIES (shown)

**NOTE:** The rough-in dimensions listed on this drawing are based on current information available to Jay R. Smith by the fixture manufacturers. We recommend that you verify these dimensions with the fixture manufacturer. We will not accept responsibility for rough-in dimension changes by the fixture manufacturer.

**NOTE:** Dimensions shown in parentheses are in millimeters.



**BASE DETAIL** 

#### ROUGHING-IN TABLE

FIXTURE MFG.	NAME	NUMBER	SIZE	Α	В	С	D	E	F	G	J	К
AM. STD.	LUCERNE	0355.012	20 (510) x 18 (455)	31 (785)	29 1/4 (745)	16 3/4 (425)	4 (100)	6 (150)	6 (150)	16 1/2 (420)	19 (485)	1/2 (13)
AM. STD.	LUCERNE	0356.015	20 (510) x 18 (455)	31 (785)	29 1/4 (745)	16 3/4 (425)	4 (100)	6 (150)	6 (150)	16 1/2 (420)	19 (485)	1/2 (13)
AM. STD.	LUCERNE	0356.421	20 (510) x 18 (455)	31 (785)	29 1/4 (745)	16 3/4 (425)	4 (100)	6 (150)	6 (150)	16 1/2 (420)	19 (485)	1/2 (13)
AM. STD.	LUCERNE	0356.439	20 (510) x 18 (455)	31 (785)	29 1/4 (745)	16 3/4 (425)	4 (100)	6 (150)	6 (150)	16 1/2 (420)	19 (485)	1/2 (13)
AM. STD.	MURRO	0954.000	22 (560) x 21 (535)	34 (865)	32 3/8 (823)	16 3/4 (425)	4 (100)	6 (150)	4 (100)	14 1/2 (370)	17M (430)	1/2 (13)
AM. STD.	MURRO	0955.000	22 (560) x 21 (535)	34 (865)	32 3/8 (823)	16 3/4 (425)	4 (100)	6 (150)	4 (100)	14 1/2 (370)	17M (430)	1/2 (13)
AM. STD.	MURRO	0958.000	22 (560) x 21 (535)	34 (865)	32 3/8 (823)	16 3/4 (425)	4 (100)	6 (150)	4 (100)	14 1/2 (370)	17M (430)	1/2 (13)
CRANE	HARWICH	1-412	20 (510) x 18 (455)	31 (785)	29 1/4 (745)	16 1/4 (415)	4 (100)	5 5/8 (143)	4 3/8 (111)	16 1/2 (420)	18 (455)	2 1/2 (64)
ELJER	DELWYN	051-1634, 1838	18 (455) x 15 (380)	31 (785)	29 1/4 (745)	15 1/2 (395)	3 (76)	5 (125)	4 3/4 (120)	13 1/2 (345)	17M (430)	3/4 (19)
ELJER	SIGNATURE	051-2101, 4, 8	20 (510) x 18 (455)	34 (865)	32 (815)	17 (430)	4 (100)	5 5/8 (143)	5 5/8 (143)	15 3/4 (400)	18 (455)	1/2 (13)
KOHLER	GREENWICH	K-2030, 1, 2, 4, 6	20 (510) x 18 (455)	31 (785)	29 (735)	17 1/4 (440)	3 1/4 (83)	5 1/4 (135)	5 1/4 (135)	14 1/4 (360)	16 (405)	1/2 (13)
KOHLER	SOHO	K-2053, 4	20 (510) x 18 (455)	31 (785)	29 1/4 (745)	16 1/2 (420)	3 1/4 (83)	5 1/4 (135)	5 1/4 (135)	14 1/4 (360)	17M (430)	1/2 (13)
U. RUNDLE	NEW CAMDEN	4648, 9	20 (510) x 18 (455)	31 (785)	29 3/8 (746)	16 1/4 (415)	4 1/2 (115)	2 1/2 (64)	4 (345)	13 1/2 (345)	16 (405)	2 1/2 (64)

**NOTE:** \*This dimension can be increased when fixture support is to be installed behind the wall. (Specify when required and wall thickness).

J H G	09/27/10 11/23/05 03/19/04	Updated Drawing Revised Roughing-in Table Revised Roughing-in Table	77 77 71	CL CL	WEIGHT POUNDS	VOLUME CUBIC FEET	FIGURE NUMBER
REV.	DATE	DESCRIPTION	BY	CKD. BY			0700



LOCATION

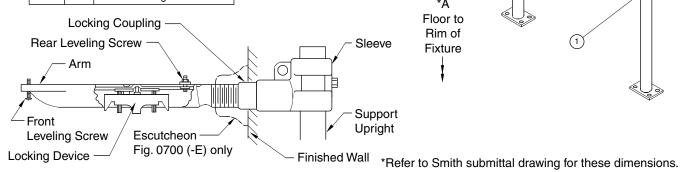
# INSTALLATION INSTRUCTIONS FOR CONCEALED ARM CARRIERS

**BEFORE** starting rough-in be certain you:

- a) know correct fixture number and name
- b) have a copy of Smith submittal (rough-in) drawing with dimensions for fixture to be used.

**NOTE:** The rough-in dimensions listed on this drawing are based on current information available to Jay R. Smith by the fixture manufacturers. We recommend that you verify these dimensions with the fixture manufacturer. We will not accept responsibility for rough-in dimension changes by the fixture manufacturer.

PART	QTY	DESCRIPTION
1	2	Upright (w/welded base)
2	2	Sleeve Assembly
3	1	Alighnment Bar
4	2	Locking Coupling
5	2	Escutcheon Fig. 0700 (-E)
6	2	Arm Assembly
6a	2	Rear Leveling Screw Assy
6b	2	Locking Device
6c	2	Front Leveling Screw

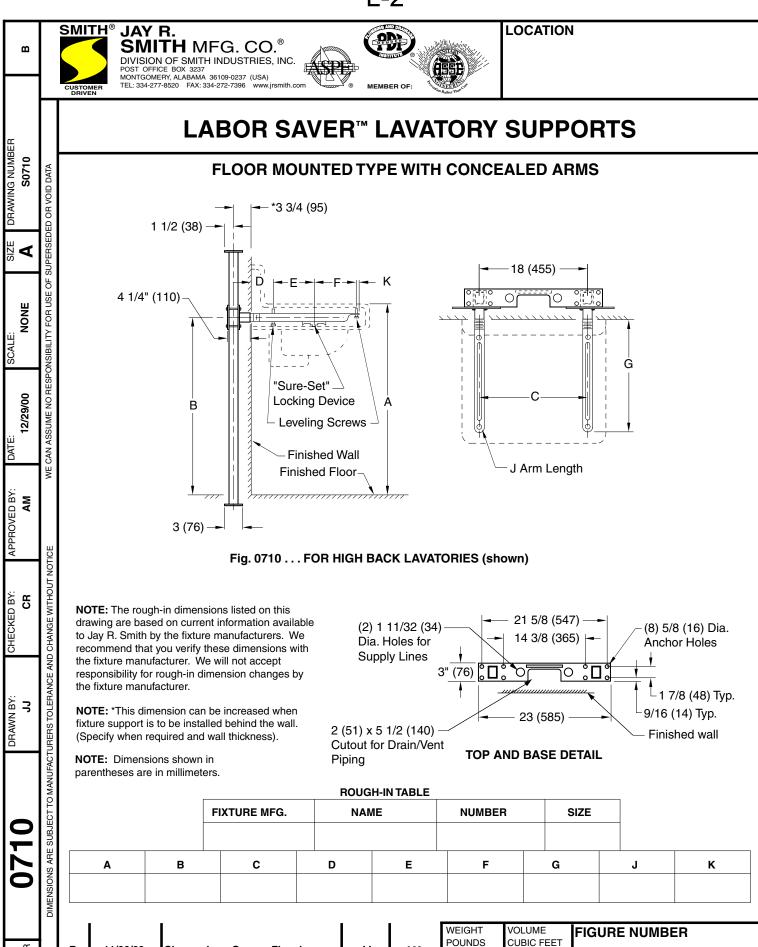


#### **INSTALLATION INSTRUCTIONS FOR CONCEALED ARM CARRIERS**

- 1. Uprights (Part #1) must be spaced according to the "C" dimension (shown on the submittal drawing). Uprights should not be bolted rigidly to the floor at this time.
- 2. Position sleeves (Part #2) by using the "B" dimension (shown on the submittal drawing). Secure to uprights with 5/16 (8)-18 hex head bolts (furnished) on the back of the sleeve.
- 3. Slide alignment bar (Part #3) into the sleeves. Recheck the "C" dimension at the center of the uprights. Secure the alignment bar with 5/16 (8) hex head bolts (furnished). Uprights should now be bolted securely to the floor. Uprights must be plumb: if necessary, shim to compensate for uneven floors.
- 4. Thread escutcheon (Part #5), Fig. 0700 (-E) only onto arm (Part #6). Thread locking coupling (Part #4) onto arm. Thread arms into sleeves (Part #2) to dimension "G" (shown on the submittal drawing). Lock arms in place by tightening locking coupling (Part #4). Recheck "C" dimension at the end of the arms.
- 5. Rear leveling screw assemblies (Part #6a) must be set according to the "D" dimension (shown on the submittal drawing). Position the locking devices (Part #6b) to the "E" dimension (shown on the submittal drawing). Install the front leveling screws (Part #6b) to the "E" dimension (shown on the submittal drawing).
- 6. Level lavatory with leveling screws as required and secure in place with locking device.

E D C	09/27/10 2/16/01 01/11/00	Updated Drawing Revisied Submittal Revised Base Plate	JJ RN JJ	CL BS	WEIGHT POUNDS	VOLUME CUBIC FEET	FIGURE NUMBER 0700, 0700 (-E)
REV.	DATE	DESCRIPTION	BY	CKD. BY			INSTALLATION INSTRUCTIONS

S0700 INS OR VOID DATA SUPERSEDED 4 FOR USE OF NONE WE CAN ASSUME NO RESPONSIBILITY 8-8-85 AND CHANGE WITHOUT NOTICE UMBER



JJ

ΒY

AM AM

CKD. BY

0710

FIGURE NUMBER 11/06/02 12/19/01

DATE

В

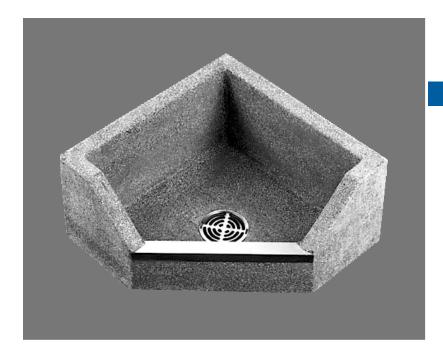
REV.

Changed per George Flegel Changed Hole Size in Base

**DESCRIPTION** 

# MS-1 MOP SERVICE BASIN®

## SB / SBC / TSB TSBC / TSBCR



6" Deep Mop Service Basin

#### **FEATURES**

SB / SBC/TSB / TSBC / TSBCR

The mop service basin is a one piece, precast terrazzo as manufactured by Fiat Products. The shoulders shall not be less than 6" high outside, 4" inside at lowest wall (series TSB-3000 is supplied with 12" shoulders). The shoulder width shall be 2" on all sides with a ½" pitch toward the inside. The drain body shall be stainless steel or chrome plated brass, cast integral and shall provide for a caulk connection not less than 1" deep to a 3" pipe. Terrazzo shall be made of black and white marbel chips cast in gray portland cement to produce a compressive strength not less than 3000 P.S.I. seven days after casting. Terrazzo surface shall be ground and polished with all air holes and/or pits to be grouted and excess removed. Integral galvanized bonderized steel tiling flanges are available as required at no extra charge, but shall be supplied only if specified with the order, as to quantity and location. Stainless steel tiling flanges are also available at an extra cost.

For the installation you need to establish ¼" clearance between mop basin and wall. It is important that the entire area between the mop basin and the building floor have a layer of mortar in order that the mop basin be level.

SB2424 Series (with plain curbs): SB2424; SB3030; SB3232; SB3636; SB3624

- SBC3636 Series (with plain curbs): SBC3636
- TSB3000 Series (with caps on all curbs): TSB3000; TSB3001; TSB3002; TSB3003
- TSB3000 Series (with stainless steel threshold only): TSB3010; TSB3011; TSB3012; TSB3013
- TSBC1610 Series (Stainless steel threshold only)
   TSBC1610; TSBC1611; TSBC1612
- TSBCR1000 Series TSBCR1000
- TSBCR1000 Series (Stainless steel threshold only) TSBCR1100

#### **NOTES**

 The Wall Guard is manufactured of heavy guage stainless steel and is used to protect walls adjacent to Mop Basins.
 Two panels are supplied for corner installations, a third panel is required for a recessed installation. (MSG2424; MSG2828; MSG3624; MSG3636)

#### **OPTIONS**

Mop Service Basin Fitting (830AA)

Aluminum Bumperguard with Vinyl Insert. (1239BB)

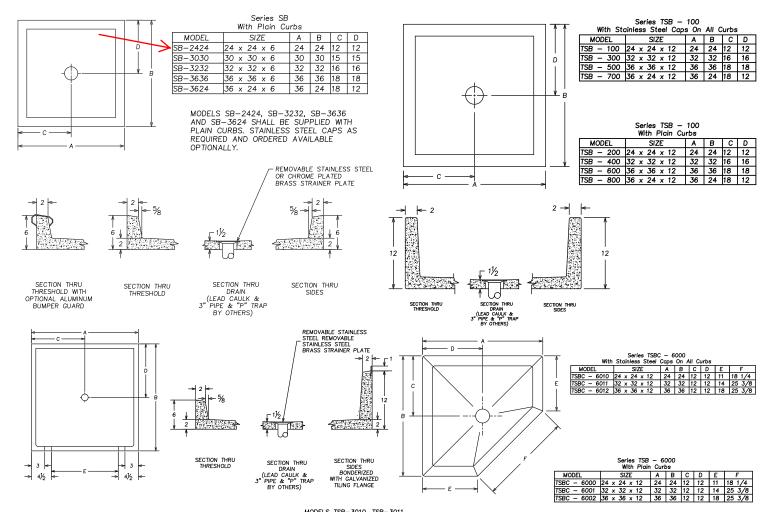
- · Hose and Bracket Combination. (832AA)
- Silicone selant. (833AA)



# MOP SERVICE BASIN®

## SB / SBC / TSB TSBC / TSBCR

#### Terrazzo Shower Floor



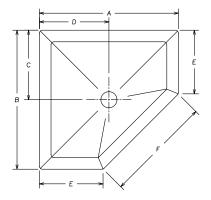
MODELS TSB-3010, TSB-3011, TSB-3012 AND TSB-3013 SHALL BE SUPPLIED WITH STAINLESS STEEL CAP ON DROPPED THRESHOLD CURB ONLY (SEE TABLE 3)

#### SERIES TSB-3000 Stainless Steel Caps On All Curbs

MODEL	SIZE	Α	В	С	D	Ε
TSB-3000	24 x 24 x 12	24	24	12	12	15
TSB-3001	32 x 32 x 12	32	32	16	16	23
TSB-3002	36 x 36 x 12	36	36	18	18	27
TSB-3003	36 x 24 x 12	36	24	18	12	27

#### SERIES TSB-3000 With Stainless Steel Threshold Only

MODEL	SIZE	Α	В	С	D	Ε
TSB-3010	24 x 24 x 12	24	24	12	12	15
TSB-3011	32 x 32 x 12	32	32	16	16	23
TSB-3012	36 x 36 x 12	36	36	18	18	27
TSB-3013	36 x 24 x 12	36	24	18	12	27

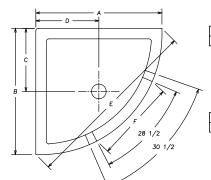


Series TSBC - 1610 With Stainless Steel Caps Threshold Only

MODEL	SIZE	Α	В	С	D	E	F
TSBC - 1610	24 x 24 x 12	24	24	12	12	11	18 1/4
TSBC - 1611	32 x 32 x 12	32	32	12	12	14	25 3/8
TSBC - 1612	36 x 36 x 12	36	36	12	12	18	25 3/8

Series SBC - 3636

With Plain Curbs							
MODEL SIZE A B C D E F							F
SBC - 3636	36 x 36 x 12	36	36	12	12	18	25 3/8



SIZE A B C D E	SERIES TSB-1100 Stainless Steel Caps On All Curbs						
		SIZE	Α	В	С	D	E
TSBCR-1100 28 x 28 x 12 28 28 12 12 28 1/2	TSBCR-1100	28 x 28 x 12	28	28	12	12	28 1/2

SERIES TSB-1000 With Stainless Steel Threshold Only

	SIZE	Α	В	С	D	Ε
TSBCR-1000	28 x 28 x 12	28	28	12	12	28 1/2

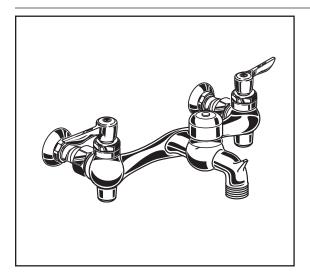
FIAT PRODUCTS
ACRANE PLUMBING COMP ANY

IMPORTANT: Roughing in dimensions may vary 1/2" and are subject to change or cancellation without prior notice.



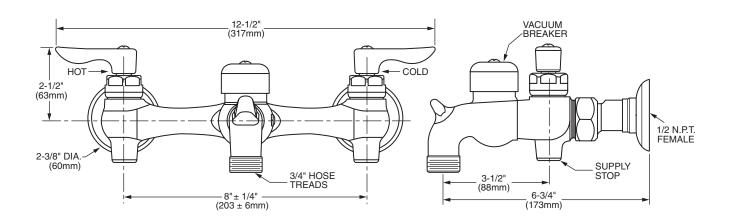
# EXPOSED YOKE WALL-MOUNT UTILITY FAUCET

WITH VACUUM BREAKER



#### **MODEL NUMBER:**

■ 8350.243 Exposed Yoke Wall-Mount Utility Faucet 3" Cast brass spout with vacuum breaker. Ceramic disc valves. Integral supply stops. Vandal-resistant metal lever handles. Bucket hook. 3/4" Threaded hose end. 1/2" NPT female inlets.



#### **GENERAL DESCRIPTION:**

Cast brass body. Metal lever handles with hot and cold indicators and vandal-resistant screws. 1/4 turn ceramic disc valve cartridges. Vacuum breaker prevents back flow. Integral supply stops. Spout with bucket hook and threaded hose end. 1/2" female inlets with adjustable centers from 7-3/4" - 8-1/4" (197mm - 210mm).

#### PRODUCT FEATURES:

**Cast Brass Construction:** Durable - Excellent in high use applications.

**Ceramic Disc Valve Cartridges:** Assure a lifetime of drip-free performance.

Vacuum Breaker: Prevents back flow.

**Integral Supply Stops:** Permits easy and convenient access.

**Choice of Finishes:** Available in Polished Chrome (002) or Rough Chrome (004).

#### SUGGESTED SPECIFICATION

Exposed yoke wall-mount utility faucet shall feature a cast brass body with integral supply stops. Cast brass spout with bucket hook and vandal-resistant metal lever handles. Shall feature a vacuum breaker. Shall also feature 1/4 turn washerless ceramic disc valve cartridges. Fitting shall be American Standard Model # 8350.243.\_\_\_\_.

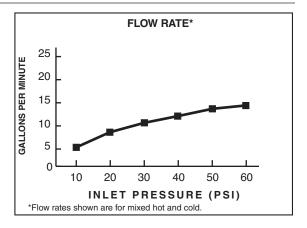
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## **CODES AND STANDARDS**

These products meet or exceed the following codes and standards:

ASME A112.18.1 CSA B 125 ANSI A117.1



		Finish (	Options
Product Number	Description	Polished Chrome 002	
8350.243	Exposed yoke wall-mount utility faucet. Ceramic disc valves. Integral supply stops. Vandal-resistant lever handles.		

MEETS THE AMERICANS WITH DISABILITIES ACT GUIDELINES AND ANSI A117.1 REQUIREMENTS FOR ACCESSIBLE AND USABLE BUILDING FACILITIES-CHECK LOCAL CODES

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Revised 4/11

MSG2424 , MSG2828 MSG3232 , MSG3636 MSG3624



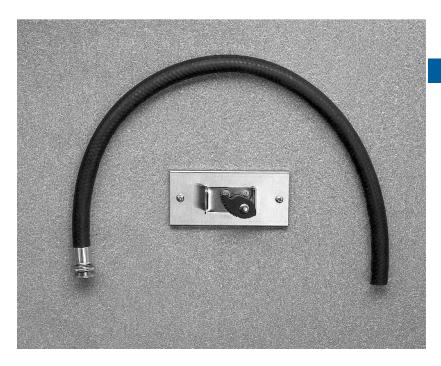
#### **FEATURES**

• GENERAL: Model No.s MSG2424, MSG2828, MSG3232, MSG3636 and MSG3624 are used with the 36" x 24" x 10" Molded-Stone Mop Service Basin with Shelf (MSB-3624) and the 24" x 24" x 10" Molded-Stone Mop Services Basin less Shelf (MSB-2424).

#### **NOTES**

#### **OPTIONS**





#### **FEATURES**

• GENERAL: Long flexible, heavy duty 5%" rubber hose. Cloth reinforced with 3/4" brass coupling at one end. Bracket is 5" long x 3" wide, stainless steel with rubber grip. Hose and Hose Bracket are used with the 36" x 24" x 10" Molded-Stone Mop Service Basin with Shelf (MSB-3624) and the 24" x 24" x 10" Molded-Stone Mop Services Basin less Shelf (MSB-2424).

#### **NOTES**

#### **OPTIONS**





4700 W. 160th St. Cleveland, Ohio 44135 Ph: (800) 321-9532 Fax: (800) 321-9535 www.oatey.com

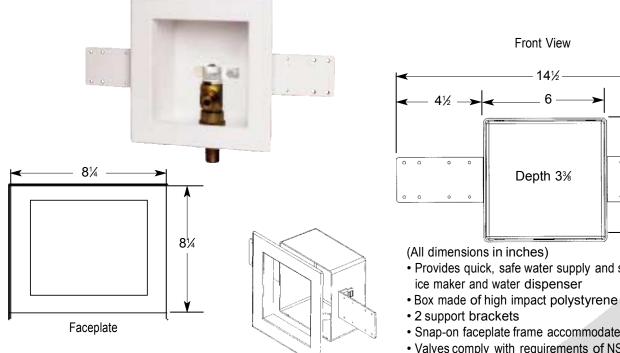
## **OB-1** Ice Maker Outlet Boxes



Job Reference

#### SUBMITTAL SPECIFICATION

Engineering Specification: Oatey Ice Maker boxes can be used in commercial or residential applications which require supply valves recessed into the wall. Available water hammer arrestor option provides water pressure shock arrestors required for installation on supply lines to quick closing valves.



- · Provides quick, safe water supply and shut-off for refrigerator
- Snap-on faceplate frame accommodates up to 1" drywall
- · Valves comply with requirements of NSF 61, Section 9

✓	Prod. No	Description	
	38574	1/4 Turn Brass Ball Valve - Copper Sweat - Standard Pack w/6' Stainless Steel Hose	
	38570	1/4 Turn Brass Hammer Ball Valve - Copper Sweat - w/6' Stainless Steel Hose	
	38575	1/4 Turn Brass Ball Valve - 1/2" ASTM F1807 PEX- Standard Pack	
	38572	1/4 Turn Brass Hammer Ball Valve - 1/2" ASTM F1807 PEX- Standard Pack	
	38578	1/4 Turn Brass Hammer Ball Valve - ASTM F1807 PEX	
	38579	1/4 Turn Brass Hammer Ball Valve - 3/8" PEX	
		1/4 Turn Brass Hammer Ball Valve - CPVC - Standard Pack (6 per)	
	38604	1/4 Turn Brass Hammer Ball Valve - ASTM F1807 PEX - Standard Pack (6 per)	
38605 1/4 Turn Brass Hammer Ball Valve - ASTM F1960 - Standard Pack (6 per)			
38607 1/4 Turn Brass Hammer Ball Valve - Copper Sweat - Display Pack (6 per)			
	38608	1/4 Turn Brass Hammer Ball Valve - Copper Sweat - Standard Pack (6 per)	
	38623	1/4 Turn Brass Ball Valve - CPVC - Standard Pack w/6' Stainless Steel Hose	
	38624	1/4 Turn Brass Ball Valve - ASTM F1960 PEX - w/6' Stainless Steel Hose	
	38571	1/4 Turn Brass Hammer Ball Valve - CPVC - Standard Pack w/6' Stainless Steel Hose	
	38680	1/4 Turn Brass Ball Valve - CPVC - Standard Pack (6 per)	
$\longrightarrow$	38681	1/4 Turn Brass Ball Valve - Copper Sweat - Standard Pack (6 per)	
	38683	1/4 Turn Brass Ball Valve - Copper Sweat - Contractor Pack (12 per)	
	38684	1/4 Turn Brass Ball Valve - ASTM F1807 PEX - Standard Pack (6 per)	
	38685	1/4 Turn Brass Ball Valve - CPVC - Contractor Pack (12 per)	
	38690	1/4 Turn Brass Ball Valve - Copper Sweat - No Faceplate - Tract Pack (6 per)	
	38691	1/4 Turn Brass Ball Valve - ASTM F1807 PEX - Contractor Pack (12 per)	
	38692	1/4 Turn Brass Ball Valve - ASTM F1974 PEX - Standard Pack (6 per)	
	38693	1/4 Turn Brass Ball Valve - ASTM F1960 PEX - Standard Pack (6 per)	
	38739	Boiler Drain Valve - Copper Sweat - Contractor Pack (12 per)	
	38805	Plain Box - No Valve - No Hole - Standard Pack (6 per)	
	38806	Plain Box - No Valve - No Hole - Standard Pack - With Grommet (6 per)	
	38807	North American Boiler Drain Valve - Copper Sweat - Standard Pack (6 per)	
	38808	1/4 Turn Brass Ball Valve - Copper Sweat - Display Bag	
	38810	Plain Box - No Valve - Standard Pack (6 per)	
	38812	Plain Box - No Valve - No Faceplate - Tract Pack (6 per)	
	38823	1/4 Turn Brass Ball Valve - Copper Sweat - Display Box	
	38950	1/4 Turn Brass Ball Valve - ASTM F1807 PEX - Display Bag	
	38951	Boiler Drain Valve - CPVC - Standard Pack (6 per)	



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## OB-2

# QUADTRO® Washing Machine Outlet Boxes

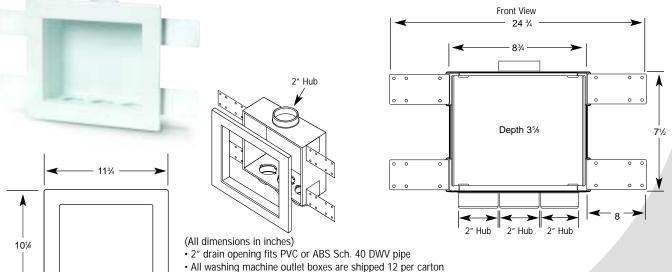


#### SUBMITTAL SPECIFICATION

 $\textbf{Engineering Specification:} \ \ \textbf{Oatey QUADTR} \\ \overline{\textbf{O}} ^{\circledcirc} \ \ \textbf{washing machine outlet boxes can be used in commercial or residential applications which} \\ \textbf{Specification:} \ \ \textbf{Oatey QUADTR} \\ \overline{\textbf{O}} ^{\circledcirc} \ \ \textbf{Washing machine outlet boxes can be used in commercial or residential applications which} \\ \textbf{Specification:} \ \ \textbf{Oatey QUADTR} \\ \textbf{Oatey Quadtr}$ require supply valves and waste drain recessed into the wall. Available water hammer arrestor option provides water pressure shock arrestors required for installation on supply lines to quick closing valves.

Job Reference

#### Visit www.oatey.com for updates.



- · Box made of high impact polystyrene
- 4 support brackets included for mounting
- · Easy to remove knockout
- · Snap-on faceplate frame accommodates up to 1" drywall

<u> </u>	Part #	Description	
	38530	1/4 Turn Brass Ball Valve – Copper Sweat – Standard Pack	
	38531	1/4 Turn Brass Ball Valve – CPVC – Standard Pack	
	38532	1/4 Turn Brass Ball Valve – ASTM F1807 PEX – Standard Pack	
	38533	1/4 Turn Brass Ball Valve – ASTM F1960 PEX – Standard Pack	
	38534	1/4 Turn Brass Ball Valve – ASTM F1974 PEX – Standard Pack	
	38535	Single Lever Ball Valve – Copper Sweat – Standard Pack	
	38536	Single Lever Ball Valve – CPVC – Standard Pack	
	38537	Single Lever Ball Valve – ASTM F1807 PEX – Standard Pack	
	38538	Single Lever Ball Valve – ASTM F1960 PEX – Standard Pack	
	38539	Single Lever Ball Valve – ASTM F1974 PEX – Standard Pack	
	38540	1/4 Turn Brass Hammer Ball Valve – Copper Sweat – Standard Pack	
	38541	1/4 Turn Brass Hammer Ball Valve – CPVC – Standard Pack	
	38542	1/4 Turn Brass Hammer Ball Valve – ASTM F1807 PEX – Standard Pack	
	38543	1/4 Turn Brass Hammer Ball Valve – ASTM F1960 PEX – Standard Pack	
	38544	1/4 Turn Brass Hammer Ball Valve – ASTM F1974 PEX – Standard Pack	
	38545	Single Lever Hammer Ball Valve – Copper Sweat – Standard Pack	
	38546	Single Lever Hammer Ball Valve – CPVC – Standard Pack	
	38547	Single Lever Hammer Ball Valve – ASTM F1807 PEX – Standard Pack	
	38548	Single Lever Hammer Ball Valve – ASTM F1960 PEX – Standard Pack	
	38549	Single Lever Hammer Ball Valve – ASTM F1974 PEX – Standard Pack	
	38550	Plain Box – No Valves – Standard Pack	
	38551	1/4 Turn Brass Ball Valve – Compression – Standard Pack	
	38552	Brass Boiler Drain Valve – Copper Sweat – Standard Pack	
	38553	Brass Boiler Drain Valve with Screw Driver Stop – Copper Sweat – Standard Pack	
	38554	North American Brass Boiler Drain Valve – Copper Sweat – Standard Pack	
	38555	1/4 Turn Brass Ball Valve – F2080 PEX – Standard Pack	
	38556	1/4 Turn Brass Ball Valve – 3/8" PEX – Standard Pack	
	38557	1/4 Turn Brass Ball Valve – Standard Pack	
	38560	1/4 Turn Brass Ball Valve – Copper Sweat – Contractor Pack	
	38561	1/4 Turn Brass Ball Valve – CPVC – Contractor Pack	
	38562	1/4 Turn Brass Ball Valve – ASTM F1807 PEX – Contractor Pack	
	38563	1/4 Turn Brass Ball Valve – ASTM F1960 PEX – Contractor Pack	
	38564	1/4 Turn Brass Ball Valve – ASTM F1974 PEX – Contractor Pack	
	38566	1 /4 Turn Brass Hammer Ball Valve – F2080 PEX	
	38567	Single Lever Hammer Ball Valve – F2080 PEX	







#### Gourmet® Double Bowl Sinks **Models LR and LRQ Series** Models LRAD and LRADQ - A.D.A. Compliant Series

#### **GENERAL**

Highest quality sink formed of #18 (1.2mm) gauge, type 304 (18-8) nickel bearing stainless steel. Top mount.

#### **DESIGN FEATURES**

LR Bowl Depths: 7-7/8" (200mm) (LR(Q)3321) or 7-5/8" (194mm) (all others).

LRAD Bowl Depths: 4" (102mm), 4-1/2" (114mm), 5" (127mm), 5-1/2" (140mm), 6" (152mm) or 6-1/2" (165mm).

Coved Corners: 1-3/4" (44mm) vertical and horizontal radius. Bowl and Faucet Deck Recess: 3/16" (5mm) below outside edge of sink.

Finish: Exposed surfaces are hand polished to a lustrous highlighted satin finish.

Underside: Fully undercoated to dampen sound and reduce condensation. LR(Q)3321 is fully protected by heavy duty Sound Guard® undercoating.

LR Series Drain Openings: 3-1/2" (89mm) and centered in bowls as illustrated.

LRAD(Q)2918 Drain Openings: 3-1/2" (89mm) and centered in the bowls.

LRAD(Q)2922, LRAD(Q)3319, LRAD(Q)3321 and LRAD(Q)3722 Drain Openings: 3-1/2" (89mm) and located centered left-toright and off-center front-to-back in each bowl as illustrated. NOTE: Unless otherwise specified, sink is furnished with 4 faucet

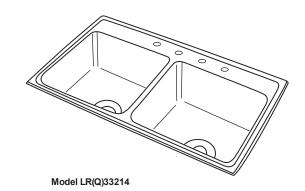
holes as shown. Sink complies with ASME A112.19.3-2008 / CSA B45.4-08



These sinks are listed by the International Association of Plumbing and Mechanical Officials as meeting the requirements of the Uniform Plumbing Code.







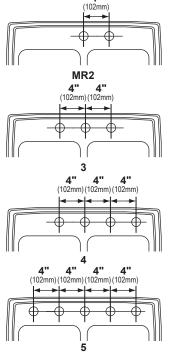
#### **HOLE DRILLING CONFIGURATIONS**

4"

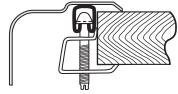
(102mm

2

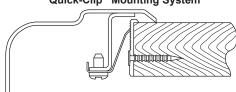
4'











#### SEE OTHER SIDE FOR PRODUCT DIMENSIONS.

THIS PRODUCT, AS CONSTRUCTED IS SUBJECT TO INTERPRETATION OF A.D.A. REQUIREMENTS. THE UNOBSTRUCTED KNEE SPACE REQUIRED TO SATISFY A.D.A. STANDARDS MAY NOT BE DESIRABLE.

In keeping with our policy of continuing product improvement, Elkay reserves the right to change product specifications without notice. Please visit elkayusa.com for most current version of Elkay product specification sheets. This specification describes an Elkay product with design, quality and functional benefits to the user. When making a comparison of other producers' offerings, be certain these features are not

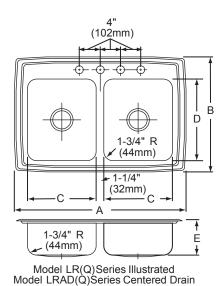


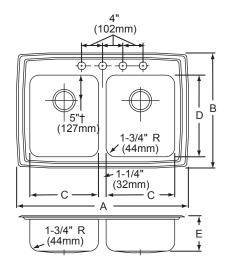
#### SINK DIMENSIONS\*

		Ove	erall	In	nside Each Bo	wl	Cuto Counterto				
U-Channel	Quick-Clip®	L	w	L	W	D	(38mm) Corn	Radius ners)	No of 1-1/2" (38mm) Faucet	3 1/2" (89mm) Drain Openings (see other side	Minimum Cabinet
Model Numbe	r Model Number	Α	В	С	D	E	L	W	Holes	for details)	Size
LR(Q) Series											
LR2519	LRQ2519	25	19-1/2	10	14	7-5/8	24-3/8	18-7/8	1,2,MR2,3,4, or 5	Centered	30
		(635mm)	(495mm)	(254mm)	(356mm)	(194mm)	(619mm)	(479mm)			(762mm)
LR2918	LRQ2918	29	18	12	12	7-5/8	28-3/8	17-3/8	1,2,MR2,3,4, or 5	Centered	33
		(737mm)	(457mm)	(305mm)	(305mm)	(194mm)	(721mm)	(441mm)			(838mm)
LR2922	LRQ2922	29	22	11-1/2	16	7-5/8	28-3/8	21-3/8	1,2,MR2,3,4, or 5	Centered	33
		(737mm)	(559mm)	(292mm)	(406mm)	(194mm)	(721mm)	(543mm)			(838mm)
LR3319	LRQ3319	33	19-1/2	14	14	7-5/8	32-3/8	18-7/8	1,2,MR2,3,4, or 5	Centered	36
		(838mm)	(495mm)	(356mm)	(356mm)	(194mm)	(822mm)	(479mm)			(914mm)
LR3321	LRQ3321	33	21-1/4	13-1/2	16	7-7/8	32-3/8	20-5/8	1,2,MR2,3,4, or 5	Centered	36
		(838mm)	(540mm)	(343mm)	(406mm)	(200mm)	(822mm)	(524mm)			(914mm)
LR3722	LRQ3722	37	22	16	16	7-5/8	36-3/8	21-3/8	1,2,MR2,3,4, or 5	Centered	42
		(940mm)	(559mm)	(406mm)	(406mm)	(194mm)	(924mm)	(543mm)			(1067mm)
LR4322	LRQ4322	43	22	19	16	7-5/8	42-3/8	21-3/8	1,2,MR2,3,4, or 5	Centered	48
		(1092mm)	(559mm)	(483mm)	(406mm)	(194mm)	(1076mm)	(543mm)			(1219mm)
LRAD(Q) Serie	·s										
LRAD2918	LRADQ2918	29	18	12	12	**	28-3/8	17-3/8	1,2,MR2,3,4, or 5	Centered	33
		(737mm)	(457mm)	(305mm)	(305mm)		(721mm)	(441mm)			(838mm)
LRAD2922	LRADQ2922	29	22	11-1/2	16	**	28-3/8	21-3/8	1,2,MR2,3,4, or 5	Off-Centered	33
		(737mm)	(559mm)	(292mm)	(406mm)		(721mm)	(543mm)			(838mm)
LRAD3319	LRADQ3319	33	19-1/2	14	14	**	32-3/8	18-7/8	1,2,MR2,3,4, or 5	Off-Centered	36
		(838mm)	(495mm)	(356mm)	(356mm)		(822mm)	(479mm)			(914mm)
LRAD3321	LRADQ3321	33	21-1/4	13-1/2	16	**	32-3/8	20-5/8	1,2,MR2,3,4, or 5	Off-Centered	36
		(838mm)	(540mm)	(343mm)	(406mm)		(822mm)	(524mm)			(914mm)
LRAD3722	LRADQ3722	37	22	16	16	**	36-3/8	21-3/8	1,2,MR2,3,4, or 5	Off-Centered	42
		(940mm)	(559mm)	(406mm)	(406mm)		(924mm)	(543mm)			(1067mm)

<sup>\*</sup>Length is left to right. Width is front to back.

<sup>\*\*</sup>Available in 4" (102mm), 4-1/2" (114mm), 5" (127mm), 5-1/2" (140mm), 6" (152mm) and 6-1/2" (165mm) depths. Please consult your sales representative for other depths or modifications.

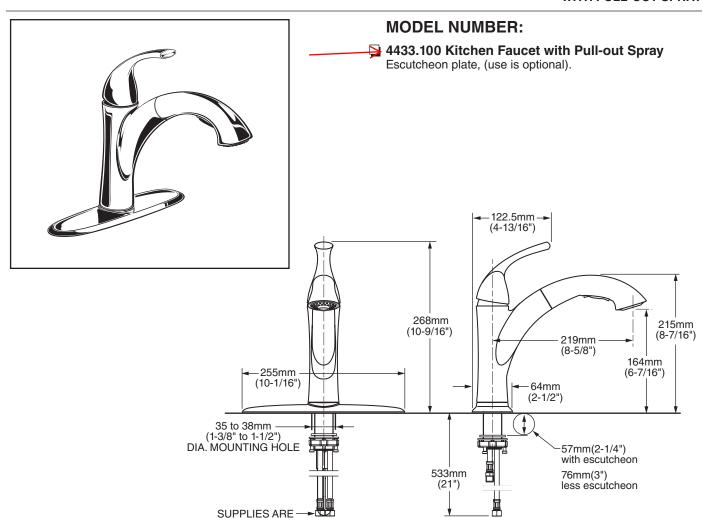




Model LRAD(Q) Series Off-Centered Drain Model Only Illustrated † 4-1/2" (114mm) LRAD(Q)2922

#### **QUINCE™**

## SINGLE CONTROL KITCHEN FAUCET WITH PULL-OUT SPRAY



#### GENERAL DESCRIPTION:

Metal handle and escutcheon plate. Metal swivel pull-out spray spout. Adjustable spray pattern with toggle button activation. Washerless 40mm ceramic disc valve cartridge. Braided flexible supply hoses with 3/8" compression connections. Metal mounting shank with brass fixation ring. Complete with two integral check valves. 2.2gpm/8.3L/min. maximum flow rate. Fitting can be mounted with or without escutcheon plate (escutcheon size 10-1/16"L x 2-1/2"W).

3/8 COMPRESSION

#### **PRODUCT FEATURES:**

**Ceramic Disc Valve Cartridge:** Assures smooth, precise valve control and a lifetime of drip-free, maintenance-free performance.

**Memory Position Valving:** Allows user to turn valve on and off at preferred temperature setting without readjusting handle position each time.

**Lead Free:** Faucet contains  $\leq 0.25\%$  total lead content by weighted average.

Integral Check Valves: Prevents back flow.

**Pull-out Spray Spout:** Switches water flow from a stream to a spray. Simplifies even the most difficult cleaning tasks.

#### SUGGESTED SPECIFICATION:

Single control kitchen pull-out faucet shall feature a swivel pull-out spray spout with two check valves, metal escutcheon plate and handle. Shall also feature washerless ceramic disc valve cartridge and flexible supply hoses. Faucet shall be American Standard Model # 4433.100.\_\_\_\_

© 2012 AS America Inc. Revised 1/12

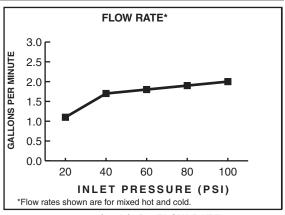


#### **QUINCE™** SINGLE CONTROL KITCHEN FAUCET WITH PULL-OUT SPRAY

#### **CODES AND STANDARDS**

These products meet or exceed the following codes and standards:

**ANSI A117.1 ASME A112.18.1** NSF 61/Section 9 & Annex G **CSA B125** 



2.2gpm/8.3L/min. FLOW RATE

			Finish Options				
Product		Polished Chrome	Stainless Steel (PVD)	Oil Rubbed Bronze			
Number	Description	>002	075	224			
4433.100	Pull-out kitchen faucet.						

and ANSI A117.1 Requirements for the physically challenged.

Meets the American Disabilities Act Guidelines



#### **GENERAL**

#### LK35

- Type 304 stainless steel body and removable conical basket strainer with metal stem and rubber stopper
- Fits 3-1/2" (89mm) opening
- Polished finish
- Chrome plated brass 1-1/2" (38mm) x 4" (102mm) tailpiece

#### LK35B

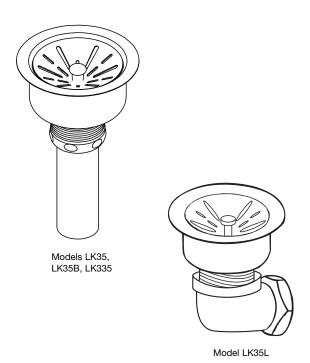
- Type 304 stainless steel body and removable conical basket strainer with metal stem and rubber stopper
- Fits 3-1/2" (89mm) opening
- Polished finish
- Type 304 stainless steel 1-1/2" (38mm) x 4" (102mm) tailpiece

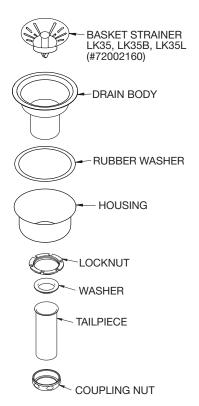
#### I K335

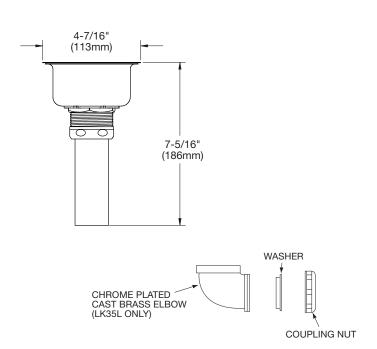
- Type 316 stainless steel body and removable conical basket (chrome plated brass knob) strainer with metal stem and rubber stopper
- Fits 3-1/2" (89mm) opening
- Polished finish
- Type 316 stainless steel 1-1/2" (38mm) x 4" (102mm) tailpiece

#### LK35L

- Type 304 stainless steel body and removable conical basket strainer with metal stem and rubber stopper
- Fits 3-1/2" (89mm) opening
- Polished finish
- Chrome plated cast brass 1-1/2" (38mm) 90° elbow







In keeping with our policy of continuing product improvement, Elkay reserves the right to change product specifications without notice. Please visit elkayusa.com for most current version of Elkay product specification sheets.

This specification describes an Elkay product with design, quality and functional benefits to the user. When making a comparison of other producers' offerings, be certain these features are not overlooked.

(Rev. 10/08)

## Food Waste Disposers





# Dimensions Dishwasher Drain connection 6"\* 6"\*

- \* Distance from bottom of sink to center line of disposer outlet. Add 1/2" when stainless steel sinks are used.
- \*\* Length of tailpipe from center line of disposer outlet to end of tailpipe.

  NOTE: Plumb waste line to prevent standing water in disposer motor housing.

## **Job Specifications**



## **Submittal Sheet**

This popular model offers the following features and benefits:

- 1/2 Horsepower Heavy Duty Motor (Quiet Dura-Drive® Induction Motor)
- 2-Year We Come To You® In-Home Parts And Labor Service Warranty
- Rugged Galvanized Steel Construction (For Disposer Durability)
- · Space-Saving Compact Design

## Sample Specification

Food Waste Disposer(s) shall be InSinkErator Badger® 5, continuous feed, with 1/2 H.P. motor, galvanized steel grinding elements with two stainless steel 360° swivel lugs. Self-service wrench.

#### Warranty:

- 2-Year parts and in-home service.
- $^{\ast}$  The complete InSinkErator warranty is included in the Care & Use Booklet packed with each unit.

## **Specifications**

Type of Feed	Continuous
On/Off Control	Wall Switch
Motor	Single Phase
HP	1/2
Volts	120
HZ	60
RPM	1725
Amp. (Avg. Load)	6.9
Time Rating	Intermittent
Lubrication	Permanently Lubricated Upper & Lower Bearings
Shipping Weight (Approx.)	14 lbs.
Unit Finish	Waterborne Grey Enamel
Overall Height	12-5/8"
Grind Chamber Capacity	26 oz.
Motor Protection	Manual Reset Overload
Average Water Usage	Approx. 1 Gallon per Person Per Day
Average Electrical Usage	3-4 KWh per Year
Drain Connection	1-1/2" Cushioned Slip Joint
Dishwasher Drain Connection	Yes



Food waste disposers can provide an environmentally responsible alternative to transporting food waste to landfills. And they can help reduce greenhouse gas emissions. At capable wastewater treatment plants, food waste can be recycled to produce renewable energy. Additionally, capable wastewater treatment plants can process food waste into fertilizer. (Check the plant in your area.)













1-800-558-5700 www.insinkerator.com



The Emerson logo is a trademark and service mark of Emerson Electric Co. The mounting collar configuration is a trademark of Emerson Electric Co.

InSinkErator may make improvements and/or changes in the specifications at any time, in its sole discretion, without notice or obligation and further reserves the right to change or discontinue models.



4675 W. 160th St. Cleveland, Ohio 44135 Ph: (800) 321-9532 Fax: (800) 321-9535

# BRASS TUBULAR 1-½" SEMI-CAST P-TRAPS

**Engineering Specification:** Dearborn Brass 1-½" Semi-Cast Brass P-Traps are designed for installation in commercial applications.

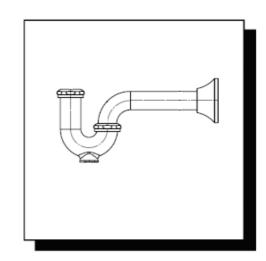
**Job Reference** 

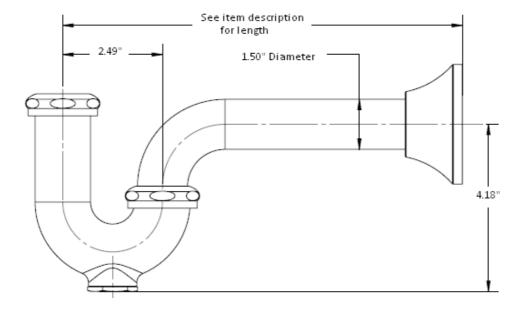
#### **DESCRIPTION**

- Chrome Finished
- 17 Gauge Brass
- Semi-Cast P-Trap
  - o Cast J-Bend with Cleanout
  - o Quarter Bend
  - o Deep Metal Flange

SUBMITTAL SPECIFICATION

- o Cleanout Plug
- o Fiber Cleanout Washer
- o (2) Brass Nuts
- o (1) 1-1/2" x 1-1/4" Reducing Washer
- o (2) 1-½" Poly Washers
- o (2) 1-1/2" Rubber Washers
- Designed for installation in commercial applications





<b>✓</b>	Product No.	Description	Carton Quantity	Carton Weight (lbs)
$\rightarrow$	510-1	1-½" x 12" Semi Cast Brass P-Trap – 17 Gauge with	12	19
		Deep Flange & Brass Nuts		
	5510-1	1-½" x 12" Semi Cast Brass P-Trap – 17 Gauge with	12	19
		Deep Flange & Brass Nuts – White Box		
	5510A-1	1-½" x 15" Semi Cast Brass P-Trap – 17 Gauge with	12	21
		Deep Flange & Brass Nuts		



SUBMITTAL SPECIFICATION

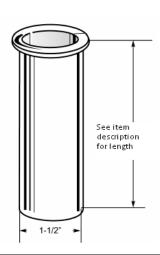
#### **BRASS TUBULAR FLANGED STRAINER TAILPIECES**

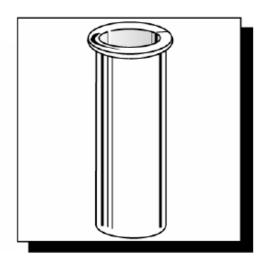
Engineering Specification: Dearborn Brass Flanged Strainer Tailpieces are designed for use in tubular drain applications. Available in 17, 20 or Budget Gauge Brass. Options include Unfinished Brass, Flanged one or both ends and various tube lengths.

**Job Reference** 

#### **DESCRIPTION**

- Chrome or Rough Brass Finish
- **Sink Strainer Tailpieces** 
  - o Flanged Strainer Tailpiece (Flanged one or both ends)





<b>/</b>	Product	Description	Carton	Carton
	No.		Quantity	Weight (lbs)
	795-1	1-½" x 1-¼" x 6" Flanged Strainer Tailpiece – 20 Gauge	10	3
	796-1	1-½" x 1-¼" x 8" Flanged Strainer Tailpiece – 20 Gauge	10	3
	798-1	1-½" x 1-¼" x 12" Flanged Strainer Tailpiece – 20 Gauge	10	4
	799-1	1-1/2" x 4" Flanged Strainer Tailpiece – Budget Gauge	10	1
$\rightarrow$	799-3	1-½" x 4" Flanged Strainer Tailpiece – Budget Gauge – Unfinished Brass	10	1
	800-1	1-½" x 6" Flanged Strainer Tailpiece – Budget Gauge	10	2
	801-1	1-½" x 8" Flanged Strainer Tailpiece – Budget Gauge	10	3
	803-1	1-½" x 12" Flanged Strainer Tailpiece – Budget Gauge	10	4
	803BD-1	1-½" x 12" Double Flanged Strainer Tailpiece – Budget Gauge	10	4
	803ED-1	1-½" x 16" Double Flanged Strainer Tailpiece – Budget Gauge	10	5
	800-20-1	1-½" x 6" Flanged Strainer Tailpiece – 20 Gauge	10	3
	801-20-1	1-½" x 8" Flanged Strainer Tailpiece – 20 Gauge	10	4
	801-20-3	1-1/2" x 8" Flanged Strainer Tailpiece – 20 Gauge – Unfinished Brass	10	4
	803-20-1	1-½" x 12" Flanged Strainer Tailpiece – 20 Gauge	10	5
	803-20-3	1-½" x 12" Flanged Strainer Tailpiece – 20 Gauge – Unfinished Brass	10	5
	803ED-20-1	1-½" x 16" Double Flanged Strainer Tailpiece – 20 Gauge	10	7
	803ED-20-3	1-½" x 16" Double Flanged Strainer Tailpiece – 20 Gauge – Unfinished Brass	10	7
	799-17-1	1-½" x 4" Flanged Strainer Tailpiece – 17 Gauge	10	4
	799-17-3	1-½" x 4" Flanged Strainer Tailpiece – 17 Gauge – Unfinished Brass	10	4
	800-17-1	1-½" x 6" Flanged Strainer Tailpiece – 17 Gauge	10	4
	800-17-3	1-½" x 6" Flanged Strainer Tailpiece – 17 Gauge – Unfinished Brass	10	4
	801-17-1	1-½" x 8" Flanged Strainer Tailpiece – 17 Gauge	10	5
	801-17-3	1-½" x 8" Flanged Strainer Tailpiece – 17 Gauge – Unfinished Brass	10	5
	803-17-1	1-½" x 12" Flanged Strainer Tailpiece – 17 Gauge	10	7
	803-17-3	1-½" x 12" Flanged Strainer Tailpiece – 17 Gauge – Unfinished Brass	10	7
	803ED-17-1	1-½" x 16" Flanged Strainer Tailpiece – 17 Gauge	10	10
	803ED-17-3	1-½" x 16" Flanged Strainer Tailpiece – 17 Gauge – Unfinished Brass	10	10



SUBMITTAL SPECIFICATION

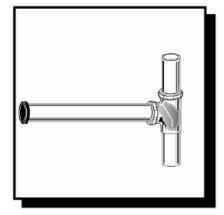
#### **BRASS TUBULAR** 1-1/2" CENTER TO END DISPOSER KITS

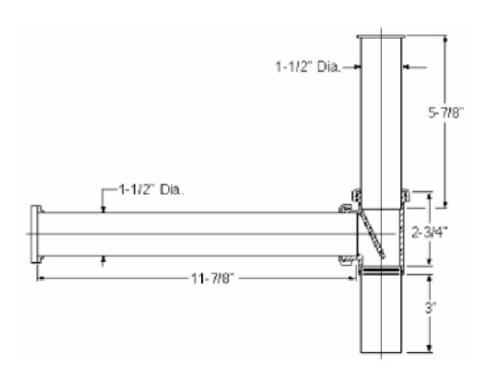
Engineering Specification: Dearborn Brass 1-1/2" Center to End Brass Tubular Disposer Kits are designed for use in tubular drain applications. Available in 17, 20 or Budget Gauge Brass.

**Job Reference** 

#### **DESCRIPTION**

- **Chrome Finish**
- **Brass Tubular Disposer Kits** 
  - Threaded Tailpiece
  - o 6" Sink Strainer Tailpiece
  - o 12" Sink Strainer Tailpiece
  - 1-½" Tee with Baffle
  - Rubber Discharge Gasket
  - o (2) Zinc Nuts
  - o (2) Rubber Washers





<b>~</b>	Product No.	Description	Carton Quantity	Carton Weight (lbs)
	100-22-1	1-1/2" x 13" Center to End Disposer Kit – Budget Gauge	10	15
$\rightarrow$	100-20-1	1-½" x 13" Center to End Disposer Kit – 20 Gauge	10	18
	100-17-1	1-½" x 13" Center to End Disposer Kit – 17 Gauge	10	21

For Residential and Commercial Applications						
Job Name	Engineer / Architect					
Job Location	Wholesaler					
Submittal Date	Contractor					

*Use:* For use with water in accessible locations only. Not intended for recirculating water systems that produce continuous use temperatures above 115° F. For those applications, use our KT<sup>™</sup> series ball stop supply kits.

#### **Design Features:**

- Everything you need. These kits combine our trusted BrassCraft® supply stop, copper riser, and escutcheon for an easy-to-install connection
- 100% compliant kits available

#### Copper riser provides:

- One-piece construction
- Cut-to-length for a clean, professional installation

#### Multi-Turn stop provides:

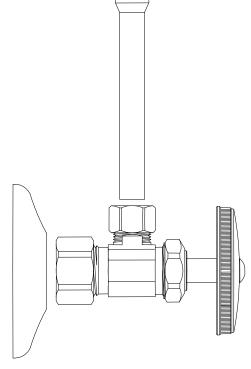
- Machined one-piece brass body provides strength, durability and long-lasting performance
- Oval knurled handle provides a secure grip and smooth on/off operation
- Easy-to-remove handle with screw attachment helps protect against accidental stop operation during rough-ins

#### **Operating Specifications:**

*Temperature:* 40°- 140° F

*Pressure:* 125 PSI maximum

**Tubing Diameter:** 0.375" OD





#### Standard

CONNECTOR MATERIAL SPECIFICATIONS		
Tube	Copper or chrome-plated	
Tube	copper	
Insert	POM	

#### Compliant

CONNECTOR MATERIAL SPECIFICATIONS		
Tube	Copper or chrome-plated	
Tube	copper	
Insert	POM	



Standard Compliant

STOP MATERIAL SPECIFICATIONS		
Body	Brass or chrome-plated brass	
Stem	POM or brass	
Bib & Packing Washers	Nitrile rubber	
Packing Nut	Brass or chrome-plated brass	
Handle	Metal, chrome-plated ABS or Polycarbonate	
Handle Screw	Steel, zinc-plated	
Loose Key	Zinc die-cast	
Loose Key Stem	Brass, chrome-plated	
Lock Shield	Brass, chrome-plated	

STOP MATERIAL SPECIFICATIONS		
Body	Compliant brass, chrome- plated	
Stem	POM or compliant brass	
Bib & Packing Washers	Nitrile rubber	
Packing Nut	Brass or chrome-plated brass	
Handle	Metal, chrome-plated ABS or Polycarbonate	
Handle Screw	Steel, zinc-plated	
Loose Key	Zinc die-cast	
Loose Key Stem	Brass, chrome-plated	
Lock Shield	Brass, chrome-plated	

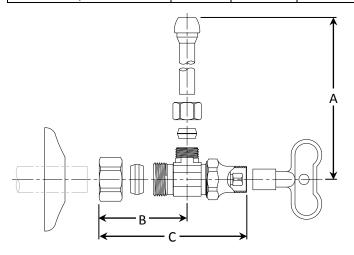
Escu	tcheon	Stainless steel		Escutcheon		Stainless steel
Star	Standard Part Listing:					
	OCR1912A	•	1/2" nom compression x 3/8" OD compression stop with 3/8" OD tube x 11-1/2" length riser & shallow escutcheon, chrome plated			
	OCR1912A	R 1/2" nom compression	1/2" nom compression x 3/8" OD compression stop with 3/8" OD tube x 11-1/2" length riser & shallow escutcheon, rough finish			
	OCR1912AZ	C 1/2" nom compression	1/2" nom compression x 3/8" OD compression stop, brass stem with 3/8" OD tube x 11-1/2" length riser & shallow escutcheon, chrome plated			
	OCR1915A	_	1 x 3	3/8" OD compres	sion	stop with 3/8" OD tube x 14-1/2"
	OCR1920A	<del>-</del>	1 x 3	3/8" OD compres	sion	stop with 3/8" OD tube x 19-1/2"
	OCR1920AZ	<del>-</del>	1 x 3	3/8" OD compres	sion	stop, brass stem with 3/8" OD tube
	OCR1920AZ	·	1 x 3	3/8" OD compres	sion	stop, brass stem with 3/8" OD tube
	OCR1920A	·	1 x 3	3/8" OD compres	sion	stop with 3/8" OD tube x 19-1/2"
	OCR1920A	_	1 x 3	3/8" OD compres	sion	stop with 3/8" OD tube x 19-1/2"
<b>—</b>	SCR1912A C	_	1 x 3	3/8" OD compres	sion	stop with 3/8" OD tube x 11-1/2" hrome plated
	SCR1915A C		1 x 3	3/8" OD compres	sion	stop with 3/8" OD tube x 14-1/2"
	SCR1920A C	<del>-</del>	1 x 3	3/8" OD compres	sion	stop with 3/8" OD tube x 19-1/2"

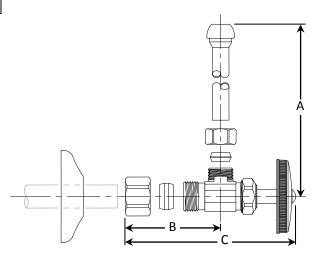


Com	nliant	Part	Listing:
CUIII	pnunt	ruit	Listing.

OCR1912AX C	1/2" nom compression x 3/8" OD compression stop with 3/8" OD tube x 11-1/2" length riser & shallow escutcheon, chrome plated
OCR1912AZX C	1/2" nom compression x $3/8$ " OD compression stop, brass stem with $3/8$ " OD tube x $11-1/2$ " length riser & shallow escutcheon, chrome plated
OCR1915AX C	1/2" nom compression x 3/8" OD compression stop with 3/8" OD tube x 14-1/2" length riser & shallow escutcheon, chrome plated
SCR1912AX C	1/2" nom compression x 3/8" OD compression stop with 3/8" OD tube x 11-1/2" length riser & shallow escutcheon, loose key, chrome plated
SCR1915AX C	1/2" nom compression x 3/8" OD compression stop with 3/8" OD tube x 14-1/2" length riser & shallow escutcheon, loose key, chrome plated
SCR1920AX C	1/2" nom compression x 3/8" OD compression stop with 3/8" OD tube x 19-1/2" length riser & shallow escutcheon, chrome plated

PART DIMENSIONS (Inches)			
Model	DIM. A	DIM. B	DIM. C
OCR1912A /AZ /AX/ AZX	12.00	1.16	2.84
OCR1915A /AX	15.00	1.16	2.84
OCR1920A /AZ	20.00	1.16	2.84
SCR1912A /AX	12.00	1.20	2.64
SCR1915A /AX	15.00	1.20	2.64
SCR1920A /AX	20.00	1.20	2.64





#### **Listings & Certifications:**

- IAPMO listed to ASME A112.18.1 / CSA B125.1 (File # 0645)
- CSA listed to ASME A112.18.1 / CSA B125.1 (File # 204593)
- Compliant product CSA listed to Low Lead Content Certification Program Plumbing Products Class 6853-0











All New E-Z Series

#### ADA-compliant undersink protection

# BTRUEBRO® IPS CORPORATION

# **Submittal Sheet**

#### **General Description:**

Lav Guard® 2 E-Z Series waste and supply piping covers satisfy ADA compliance requirements. Built-in *E-Z Grip* internal fasteners and internal, *E-Z Tear-To-Fit* trimming feature allow for fast installation without tools. *Series #100 E-Z* kits are designed to fit on all tubular and cast brass P-trap assemblies. *Series #400* kits are the "original" Lav Guard design and fit schedule 40 ABS and PVC P-trap assemblies — regardless of their geometry or rotational offset. Valve cover completely encloses angle valve and supply tube for both handled and keyed type water stops.

Material	Molded vinyl
Nominal Wall	1/8" constant
Durometer	70 - 80 - Shore A
UV Protection	Will not fade or discolor
Durability	Virtually indestructible
Trimming (E-Z Series)	Internal, <i>E-Z Tear-To-Fit</i> trim feature
Fasteners (E-Z Series)	Internal <i>E-Z Grip</i> fasteners (reusable)
Color	China white
Paintability	Apply Latex paint
Burning Characteristics ASTM D-635	Self extinguished 0 sec (ATB) 0 mm (AEB)
Bacteria/Fungus Resistance	ASTM G21 and G22/ Result: 0 growth
Maintenance	Use common detergents

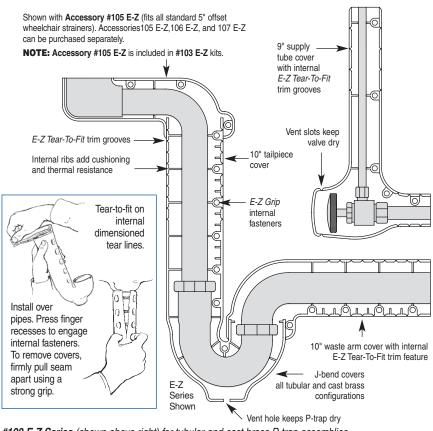
Manufactured under one or more of the following U.S. or Canadian patents. Other patents pending.

5,303,730 5,360,031 5,524,669 5,564,463 5,678,598 5,699,828 5,915,412 5,915,413 5,901,739 5,960,820 2,075,324 2,119,427 2,136,027 2,158,083









#100 E-Z Series (shown above right) for tubular and cast brass P-trap assemblies. #400W\* Series (original design) for schedule 40 P-trap assemblies.

strainer assembly

_		
☐ Model #99 E-Z One angle valve and supply cover	Model #102 E-Z One P-trap cover, two angle valves and covers  Model #402W* One P-trap cover, two angle valves and covers  Model #103 E-Z One P-trap cover, two angle valves and supply covers, one 5" offset tailpiece wheelchair strainer cover	
☐ <b>Model #100 E-Z</b> One P-trap cover		
☐ Model #400W* One P-trap cover		
☐ Model #101 E-Z One P-trap cover, one angle valve cover		
☐ Model #401W* One P-trap cover, one angle	☐ Accessory #105 E-Z One 5" offset tailpiece wheelchair	

\*All #400W series items are the "original" Lav Guard® design and construction. Specifications may change without notice.

☐ Accessory #105-K
Kohler 6" offset

☐ Accessory #106 E-Z
One basket strainer cover and offset waste cover (adjustable to 18")

☐ Accessory #107 E-Z
Two basket strainer covers and center or end outlet waste cover (adjustable)

☐ Accessory #Ex 99 E-Z
One 16" extension for water supply

☐ Accessory #Ex100 E-Z
One 16" extension for drain waste arm or tailpiece

Accessory 105 E-Z	Accessory 107 E-Z (Configuration Options Shown)	
Accessory 106 E-Z	Center Outlet	End Outlet
Joh // continu		

ob/Location	

Designer

valve cover

TRUEBRO reserves the right to make product and material changes at any time without notice.

# THERMOSTATIC MIXING VALVE

MIXED OUTLET

LOCK

SCREW

**BP-OPTION** 

**INTEGRAL** 

CHECK

COLD

INLET

VALVES

TEMPERATURE ADJUSTMENT

HOT

INLET

## **MODEL 170**

## THERMOSTATIC POINT OF USE MIXING VALVE

MODEL 3/8" inlets, 3/8" outlet, compression connections

#### **MATERIALS:**

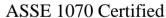
- Bronze body
- Locked temperature adjustment cap (vandal resistant)
- Copper encapsulated thermostat assembly with polymer thermoplastic shuttle
- Stainless steel springs
- Buna-N O'rings
- Integral check valves on hot and cold inlets
- Compression fittings on inlets and outlet

#### PRESSURE-TEMPERATURE:

- Minimum Flow:0.5 GPM (1.9 l/Min)
- Maximum Pressure: 125 PSI (8.6 BAR)
- Maximum Hot Water temperature: 200°F- (93°C)
- Approach Temperature 5°F (2.8°C) above set point.

#### **OPTION:** (Furnished separately)

BP- Cold water By-Pass
BRKT- Mounting Bracket





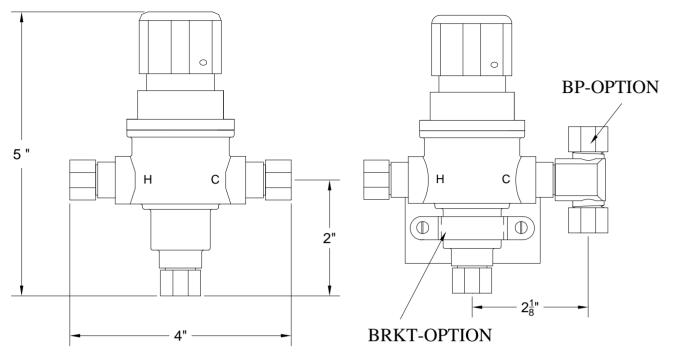
		AS	SE 107	o Ceru	neu			
	MINIMUM			PRESS	URE DRO	)P		
	FLOW	5	10	20	30	40	50	PSI
		.35	.70	1.4	2.1	2.8	3.4	BAR
	0.5	1.7	2.3	3.0	3.6	4.4	5.0	GPM
└ BRKT-OPTION	1.9	6.4	8.7	11.4	14	17	19	l/min

Engineer's Approval	Job #
	Arch/Eng.
	Contractor



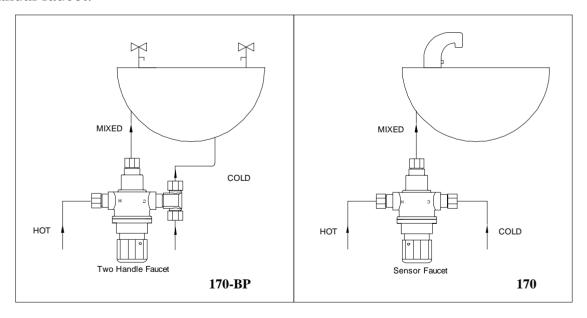
1360 Elmwood Avenue, Cranston, RI 02910 USA Phone: 401.461.1200 Fax: 401.941.5310

Email: <a href="mailto:info@leonardvalve.com">info@leonardvalve.com</a>
Web Site: <a href="mailto:http://www.leonardvalve.com">http://www.leonardvalve.com</a>



#### **APPLICATION**

The Model 170 is a high performance Temperature Actuated Mixing Valve used to supply single outlets. Can be used to supply one sensor faucet or one two handle manual faucet.



Note: Leonard Valve Company reserves the right of product, or design modifications without notice or obligation.



1360 Elmwood Avenue, Cranston, RI 02910 USA Phone: 401.461.1200 Fax: 401.941.5310

Email: <a href="mailto:info@leonardvalve.com">info@leonardvalve.com</a>
Web Site: <a href="mailto:http://www.leonardvalve.com">http://www.leonardvalve.com</a>



#### Gourmet® Double Bowl Sinks **Models LR and LRQ Series** Models LRAD and LRADQ - A.D.A. Compliant Series

#### **GENERAL**

Highest quality sink formed of #18 (1.2mm) gauge, type 304 (18-8) nickel bearing stainless steel. Top mount.

#### **DESIGN FEATURES**

LR Bowl Depths: 7-7/8" (200mm) (LR(Q)3321) or 7-5/8" (194mm) (all others).

LRAD Bowl Depths: 4" (102mm), 4-1/2" (114mm), 5" (127mm), 5-1/2" (140mm), 6" (152mm) or 6-1/2" (165mm).

Coved Corners: 1-3/4" (44mm) vertical and horizontal radius. Bowl and Faucet Deck Recess: 3/16" (5mm) below outside edge of sink.

Finish: Exposed surfaces are hand polished to a lustrous highlighted satin finish.

Underside: Fully undercoated to dampen sound and reduce condensation. LR(Q)3321 is fully protected by heavy duty Sound Guard® undercoating.

LR Series Drain Openings: 3-1/2" (89mm) and centered in bowls as illustrated.

LRAD(Q)2918 Drain Openings: 3-1/2" (89mm) and centered in the bowls.

LRAD(Q)2922, LRAD(Q)3319, LRAD(Q)3321 and LRAD(Q)3722 Drain Openings: 3-1/2" (89mm) and located centered left-toright and off-center front-to-back in each bowl as illustrated.

NOTE: Unless otherwise specified, sink is furnished with 4 faucet holes as shown.

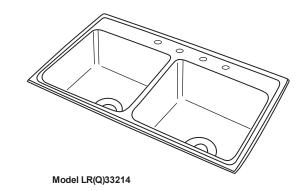
Sink complies with ASME A112.19.3-2008 / CSA B45.4-08



These sinks are listed by the International Association of Plumbing and Mechanical Officials as meeting the requirements of the Uniform Plumbing Code.



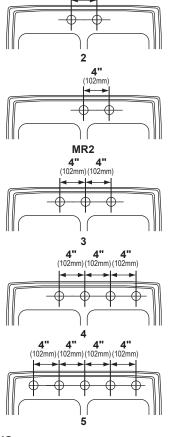


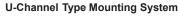


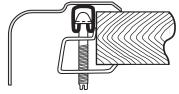
#### **HOLE DRILLING CONFIGURATIONS**

4"

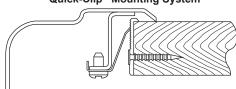
(102mm







#### Quick-Clip® Mounting System



#### SEE OTHER SIDE FOR PRODUCT DIMENSIONS.

THIS PRODUCT, AS CONSTRUCTED IS SUBJECT TO INTERPRETATION OF A.D.A. REQUIREMENTS. THE UNOBSTRUCTED KNEE SPACE REQUIRED TO SATISFY A.D.A. STANDARDS MAY NOT BE DESIRABLE.

In keeping with our policy of continuing product improvement, Elkay reserves the right to change product specifications without notice. Please visit elkayusa.com for most current version of Elkay product specification sheets. This specification describes an Elkay product with design, quality and functional benefits to the user. When making a comparison of other producers' offerings, be certain these features are not

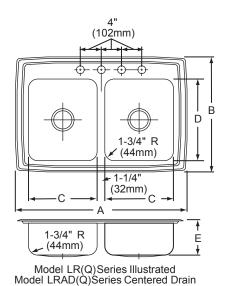


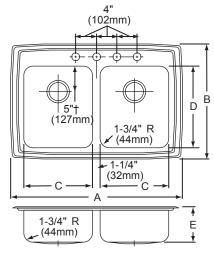
#### SINK DIMENSIONS\*

		Ove	erall	lr	nside Each Bo	wl	Cuto Counterto				
U-Channel	Quick-Clip®	L	W	L	W	D	(38mm) Corr	Radius ers)	No of 1-1/2" (38mm) Faucet	3 1/2" (89mm) Drain Openings (see other side	Minimum Cabinet
Model Numbe	Model Number	Α	В	С	D	E	L	W	Holes	for details)	Size
LR(Q) Series											
LR2519	LRQ2519	25	19-1/2	10	14	7-5/8	24-3/8	18-7/8	1,2,MR2,3,4, or 5	Centered	30
		(635mm)	(495mm)	(254mm)	(356mm)	(194mm)	(619mm)	(479mm)			(762mm)
LR2918	LRQ2918	29	18	12	12	7-5/8	28-3/8	17-3/8	1,2,MR2,3,4, or 5	Centered	33
		(737mm)	(457mm)	(305mm)	(305mm)	(194mm)	(721mm)	(441mm)			(838mm)
LR2922	LRQ2922	29	22	11-1/2	16	7-5/8	28-3/8	21-3/8	1,2,MR2,3,4, or 5	Centered	33
		(737mm)	(559mm)	(292mm)	(406mm)	(194mm)	(721mm)	(543mm)			(838mm)
LR3319	LRQ3319	33	19-1/2	14	14	7-5/8	32-3/8	18-7/8	1,2,MR2,3,4, or 5	Centered	36
		(838mm)	(495mm)	(356mm)	(356mm)	(194mm)	(822mm)	(479mm)			(914mm)
LR3321	LRQ3321	33	21-1/4	13-1/2	16	7-7/8	32-3/8	20-5/8	1,2,MR2,3,4, or 5	Centered	36
		(838mm)	(540mm)	(343mm)	(406mm)	(200mm)	(822mm)	(524mm)			(914mm)
LR3722	LRQ3722	37	22	16	16	7-5/8	36-3/8	21-3/8	1,2,MR2,3,4, or 5	Centered	42
		(940mm)	(559mm)	(406mm)	(406mm)	(194mm)	(924mm)	(543mm)			(1067mm)
LR4322	LRQ4322	43	22	19	16	7-5/8	42-3/8	21-3/8	1,2,MR2,3,4, or 5	Centered	48
		(1092mm)	(559mm)	(483mm)	(406mm)	(194mm)	(1076mm)	(543mm)			(1219mm)
LRAD(Q) Serie	S										
LRAD2918	LRADQ2918	29	18	12	12	**	28-3/8	17-3/8	1,2,MR2,3,4, or 5	Centered	33
		(737mm)	(457mm)	(305mm)	(305mm)		(721mm)	(441mm)			(838mm)
LRAD2922	LRADQ2922	29	22	11-1/2	16	**	28-3/8	21-3/8	1,2,MR2,3,4, or 5	Off-Centered	33
		(737mm)	(559mm)	(292mm)	(406mm)		(721mm)	(543mm)			(838mm)
LRAD3319	LRADQ3319	33	19-1/2	14	14	**	32-3/8	18-7/8	1,2,MR2,3,4, or 5	Off-Centered	36
		(838mm)	(495mm)	(356mm)	(356mm)		(822mm)	(479mm)			(914mm)
LRAD3321	LRADQ3321	33	21-1/4	13-1/2	16	**	32-3/8	20-5/8	1,2,MR2,3,4, or 5	Off-Centered	36
		(838mm)	(540mm)	(343mm)	(406mm)		(822mm)	(524mm)			(914mm)
LRAD3722	LRADQ3722	37	22	16	16	**	36-3/8	21-3/8	1,2,MR2,3,4, or 5	Off-Centered	42
		(940mm)	(559mm)	(406mm)	(406mm)		(924mm)	(543mm)			(1067mm)

<sup>\*</sup>Length is left to right. Width is front to back.

<sup>\*\*</sup>Available in 4" (102mm), 4-1/2" (114mm), 5" (127mm), 5-1/2" (140mm), 6" (152mm) and 6-1/2" (165mm) depths. Please consult your sales representative for other depths or modifications.





Model LRAD(Q) Series Off-Centered Drain Model Only Illustrated † 4-1/2" (114mm) LRAD(Q)2922

(Rev. 12/09)

## MECHANICAL FAUCETS 201-AGN2BVBE7-317CP

S-2



#### Water Faucets

#### **Product Type**

Deck Mounted 8" Fixed Centers Concealed Hot and Cold Water Sink Faucet

#### **Features & Specifications**

- 8" Fixed Centers
- 6" Rigid / Swing Gooseneck Spout with Atmospheric Vacuum Breaker
- Full Flow Nozzle
- 4" Wristblade Handle
- Quaturn Compression Operating Cartridge
- 1/2" NPSM Supply Inlets and Coupling Nut for 3/8" or 1/2" Flexible Riser
- Atmospheric Vacuum Breaker, Not Intended for Continuous Pressure Applications
- Atmospheric Vacuum Breaker, Not Intended for Continuous Pressure Applications

#### **Performance Specification**

- Rated Operating Pressure: 20-125 PSI
- Rated Operating Temperature: 40-140°F

#### Warranty

- Lifetime Limited Faucet Warranty
- 5-Year Limited Cartridge Warranty
- 1-Year Limited Finish Warranty

#### **Codes & Standards**

- ASME A112.18.1/CSA B125.1
- · Certified to NSF/ANSI 61, Section 9 by CSA
- ASSE 1001
- ADA ANSI/ICC A117.1

Job Name	
Item Number	
Section/Tag	
Model Specified	
Architect	
Engineer	
Contractor	
[ ] Submitted as Shown	[ ] Submitted with Variations
Date	

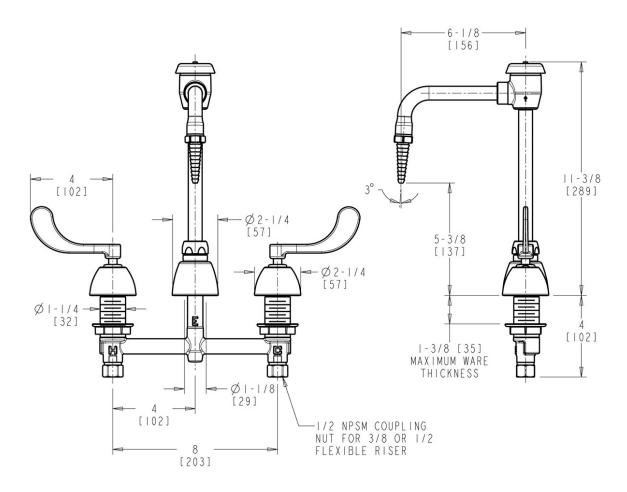


#### Water Faucets



#### **Architect/Engineer Specification**

Chicago Faucets No. 201-AGN2BVBE7-317CP, Deck Mounted 8" Fixed Centers Concealed Hot and Cold Water Sink Faucet, polished chrome plated solid brass construction 6" Center to Center Rigid / Swing Gooseneck Spout with Atmospheric Vacuum Breaker. Full Flow Laboratory Serrated Nozzle. 4" Metal Wristblade handle(s) with Sixteen Point Tapered Broach and Secured Blue and Red Buttons. Quaturn™ rebuildable compression cartridge, opens and closes 90°, closes with water pressure, features square tapered stem. 1/2" NPSM Supply Inlets and Coupling Nut for 3/8" or 1/2" Flexible Riser. Atmospheric Vacuum Breaker, Not Intended for Continuous Pressure Applications. Atmospheric Vacuum Breaker, Not Intended for Continuous Pressure Applications. This product meets ADA ANSI/ICC A117.1 requirements and is tested and certified to industry standards: ASME A112.18.1/CSA B125.1, Certified to NSF/ANSI 61, Section 9 by CSA, and ASSE 1001.



#### **Operation and Maintenance**

Installation should be in accordance with local plumbing codes. Flush all pipes thoroughly before installation. After installation, remove spout outlet or flow control and flush faucet thoroughly to clear any debris. Care should be taken when cleaning the product. Do not use abrasive cleaners, chemicals or solvents as they can result in surface damage. Use mild soap and warm water for cleaning and protecting the life of Chicago Faucet products. For specific operation and maintenance refer to the installation instructions and repair parts documents that are located at <a href="https://www.chicagofaucets.com">www.chicagofaucets.com</a>.

Chicago Faucets, member of the Geberit Group, is the leading brand of commercial faucets and fittings in the United States, offering a complete range of products for schools, laboratories, hospitals, office buildings, food service, airports and sport facilities. Call 1.800.TECTRUE or 1.847.803.5000 Option 1 for installation or other technical assistance.



2100 South Clearwater Drive Des Plaines, IL P: 847/803-5000 F: 847/803-5454 Technical: 800/TEC-TRUE

\_\_ www.chicagofaucets.com

## 828-ASAM

# CHICAGO FAUCETS a Geberit company

#### **Pure Water Faucets**

#### **Product Type**

Deck Mounted Polypropylene Polypropylene Pure Water Faucet

#### **Features & Specifications**

- Polypropylene
- 2 1/2" Cross Handle
- 3/8" NPT Polypropylene Male Thread Inlet

#### **Performance Specification**

- Rated Operating Pressure: 80 PSI
- Rated Operating Temperature: 90°F
- The antimicrobial protection is formulated to last beyond the useful life of the product on an undamaged surface.

#### Warranty

- Lifetime Limited Faucet Warranty
- 5-Year Limited Faucet Warranty
- 5-Year Limited Cartridge Warranty
- 1-Year Limited Finish Warranty

Job Name	
Item Number	
Section/Tag	
Model Specified	
Architect	
Engineer	
Contractor	
[ ] Submitted as Shown	[ ] Submitted with Variations
Date	



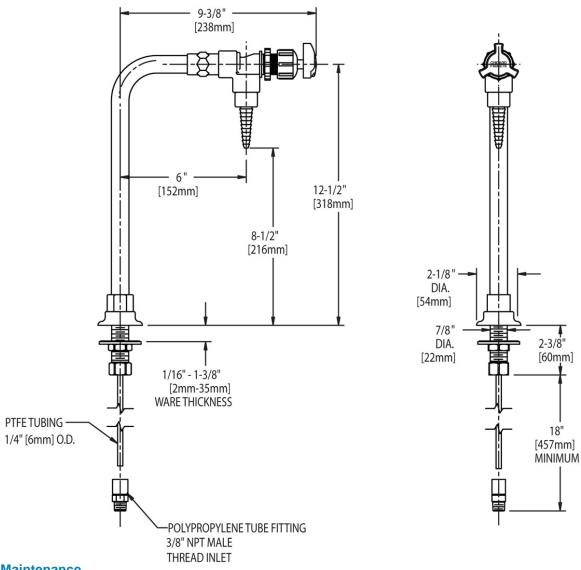
Technical: 800/TEC-TRUE www.chicagofaucets.com

#### **Pure Water Faucets**



#### **Architect/Engineer Specification**

Chicago Faucets No. 828-ASAM, Deck Mounted Polypropylene Polypropylene Pure Water Faucet , polished chrome plated solid brass construction 2 1/2" Metal Cross handle(s) with Eight Point Tapered Broach and CW Button. 3/8" NPT Polypropylene Male Thread Inlet. .



#### **Operation and Maintenance**

Installation should be in accordance with local plumbing codes. Flush all pipes thoroughly before installation. After installation, remove spout outlet or flow control and flush faucet thoroughly to clear any debris. Care should be taken when cleaning the product. Do not use abrasive cleaners, chemicals or solvents as they can result in surface damage. Use mild soap and warm water for cleaning and protecting the life of Chicago Faucet products. For specific operation and maintenance refer to the installation instructions and repair parts documents that are located at <a href="https://www.chicagofaucets.com">www.chicagofaucets.com</a>.

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2100 South Clearwater Drive Des Plaines, IL P: 847/803-5000 F: 847/803-5454 Technical: 800/TEC-TRUE www.chicagofaucets.com

## **LabWaste™ Dilution Traps**



#### **LabWaste**<sup>TM</sup> 1-Gallon CPVC Dilution Traps

Provides chemical dilution from water rinse during use. Designed for under-sink installations as a trap. CPVC construction with Glass or PP Jar type tank.

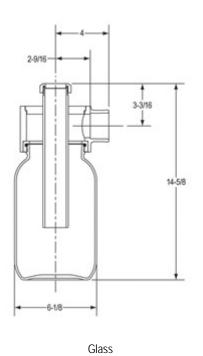
	Nominal US Gallons	Inlet & Outlet Size (in.)	Inlet	Outlet	CPVC Tank Part Glass Jar Tank No./Price	Disc Code
.	1	1 1/2	Clin	Socket	T4001G1612	169
	ı	1 1-1/2   Slip   Soc		Socker	384.23	109

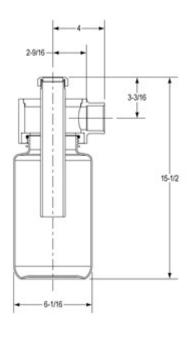
Nominal US Gallons	Inlet & Outlet Size (in.)	Inlet	Outlet	CPVC Tank Part Polypropylene Jar Tank No./Price	Disc Code
1	1 1/2	Clin	Socket	T4001P1612	169
ı	1-1/2   Slip		Socket	276.64	109

Note: Slip connections are for sink drain tailpiece.



#### **Dimensions**





Polypropylene

NOT FOR USE WITH COMPRESSED AIR OR GAS

Made in the U.S.A.

Progressive Products from Spears® Innovation and Technology

Page 6



## Gourmet® Single Bowl Sink Models LR, LRQ, LRS and LRSQ Series

#### **GENERAL**

Highest quality sink formed of #18 (1.2mm) gauge, type 304 (18-8) nickel bearing stainless steel. Top mount.

#### **DESIGN FEATURES**

LR(Q) Bowl Depth: 8" (203mm) (LR[Q]2521), 7-1/2" (191mm) (LR[Q]1919), 7-5/8" (194mm) (all others).

Coved Corners: 1-3/4" (44mm) vertical and horizontal radius. Bowl and Faucet Deck Recess: 3/16" (5mm) below outside edge of sink.

Finish: Exposed surfaces are hand blended to a lustrous satin finish.

Underside: Fully undercoated to dampen sound and prevent condensation. LR(Q)2521 is fully protected by heavy duty Sound Guard® undercoating.

#### **OTHER**

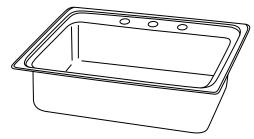
Drain Opening: 3-1/2" (89mm).

NOTE: Unless otherwise specified, models with one, two, three or OS4 faucet hole option are furnished with 3 faucet holes as shown; models with choice of one, two, three, four or five faucet hole option are furnished with 4 faucet holes standard.

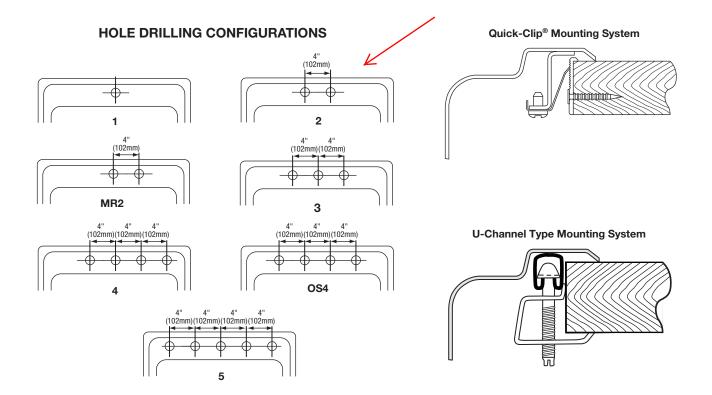
These sinks comply with ASME A112.19.3.



These sinks are listed by the International Association of Plumbing and Mechanical Officials as meeting the requirements of the Uniform Plumbing Code.



Model LR(Q)22193



In keeping with our policy of continuing product improvement, Elkay reserves the right to change product specifications without notice. Please visit elkayusa.com for most current version of Elkay product specification sheets.

This specification describes an Elkay product with design, quality and functional benefits to the user. When making a comparison of other producers' offerings, be certain these features are not overlooked.

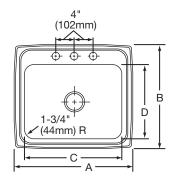
#### Gourmet® Single Bowl Sink Models LR, LRQ, LRS and LRSQ Series

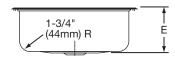


#### **SINK DIMENSIONS\***

U-Channel	Quick-Clip®		erall		Inside Bow			ut in tertop 38mm)	No. of 1 <sup>1</sup> / <sub>2</sub> " (38mm) Dia, Faucet Holes	Minimum
Model Number	Model Number	L A	W B	L C	W D	D E	Radius L	Corners] W	4" (102mm) Center	Cabinet Size
LR1316	LRQ1316	13 (330mm)	16 (406mm)	10 (254mm)	10 (254mm)	7 <sup>5</sup> / <sub>8</sub> (194mm)	12 <sup>3</sup> / <sub>8</sub> (321mm)	15 <sup>3</sup> / <sub>8</sub> (391mm)	1, 2, MR2 or 3	18 (457mm)
LR1517	LRQ1517	15 (381mm)	17 <sup>1</sup> / <sub>2</sub> (445mm)	12 (305mm)	12 (305mm)	7 <sup>5</sup> / <sub>8</sub> (194mm)	14 <sup>3</sup> / <sub>8</sub> (371mm)	16 <sup>7</sup> / <sub>8</sub> (429mm)	1, 2, MR2 or 3	18 (457mm)
LR1522	LRQ1522	15 (381mm)	22 (559mm)	11 <sup>1</sup> / <sub>2</sub> (292mm)	16 (406mm)	7 <sup>5</sup> / <sub>8</sub> (194mm)	14 <sup>3</sup> / <sub>8</sub> (371mm)	21 <sup>3</sup> / <sub>8</sub> (543mm)	1, 2, MR2 or 3	18 (457mm)
LR1716	LRQ1716	17 (432mm)	16 (406mm)	14 (356mm)	10 (254mm)	7 <sup>5</sup> / <sub>8</sub> (194mm)	16 <sup>3</sup> / <sub>8</sub> (422mm)	15 <sup>3</sup> / <sub>8</sub> (391mm)	1, 2, MR2, 3 or OS4	21 (533mm)
LR1720	LRQ1720	17 (432mm)	20 (508mm)	14 (356mm)	14 (356mm)	7 <sup>5</sup> / <sub>8</sub> (194mm)	16 <sup>3</sup> / <sub>8</sub> (422mm)	19 <sup>3</sup> / <sub>8</sub> (492mm)	1, 2, MR2, 3 or OS4	21 (533mm)
LR1722	LRQ1722	17 (432mm)	22 (559mm)	13 <sup>1</sup> / <sub>2</sub> (343mm)	16 (406mm)	7 <sup>5</sup> / <sub>8</sub> (194mm)	16 <sup>3</sup> / <sub>8</sub> (422mm)	21 <sup>3</sup> / <sub>8</sub> (543mm)	1, 2, MR2, 3 or OS4	21 (533mm)
LR1918	LRQ1918	19 (483mm)	18 (457mm)	16 (406mm)	11 <sup>1</sup> / <sub>2</sub> (292mm)	7 <sup>5</sup> / <sub>8</sub> (194mm)	18 <sup>3</sup> / <sub>8</sub> (467mm)	17 <sup>3</sup> / <sub>8</sub> (441mm)	1, 2, MR2, 3 or OS4	24 (610mm)
LR1919	LRQ1919	19 <sup>1</sup> / <sub>2</sub> (495mm)	19 (483mm)	16 (406mm)	13 <sup>1</sup> / <sub>2</sub> (343mm)	7 <sup>1</sup> / <sub>2</sub> (190mm)	18 <sup>7</sup> / <sub>8</sub> (479mm)	18 <sup>3</sup> / <sub>8</sub> (467mm)	1, 2, MR2, 3 or OS4	24 (610mm)
LR2022	LRQ2022	19 <sup>1</sup> / <sub>2</sub> (495mm)	22 (559mm)	16 (406mm)	16 (406mm)	7 <sup>5</sup> / <sub>8</sub> (194mm)	18 <sup>7</sup> / <sub>8</sub> (479mm)	21 <sup>3</sup> / <sub>8</sub> (543mm)	1, 2, MR2, 3 or OS4	24 (610mm)
LR2219	LRQ2219	22 (559mm)	19 <sup>1</sup> / <sub>2</sub> (495mm)	18 (457mm)	14 (356mm)	7 <sup>5</sup> / <sub>8</sub> (194mm)	21 <sup>3</sup> / <sub>8</sub> (543mm)	18 <sup>7</sup> / <sub>8</sub> (479mm)	1, 2, MR2, 3, 4 or 5	27 (686mm)
LR2222	LRQ2222	22 (559mm)	22 (559mm)	19 (483mm)	16 (406mm)	7 <sup>5</sup> / <sub>8</sub> (194mm)	21 <sup>3</sup> / <sub>8</sub> (543mm)	21 <sup>3</sup> / <sub>8</sub> (543mm)	1, 2, MR2, 3, 4 or 5	27 (686mm)
LR2521	LRQ2521	25 (635mm)	21 <sup>1</sup> / <sub>4</sub> (540mm)	21 (533mm)	15 <sup>3</sup> / <sub>4</sub> (400mm)	8 (203mm)	24 <sup>3</sup> / <sub>8</sub> (619mm)	20 <sup>5</sup> / <sub>8</sub> (524mm)	1, 2, MR2, 3, 4 or 5	30 (762mm)
LR3122	LRQ3122	31 (787mm)	22 (559mm)	28 (711mm)	16 (406mm)	7 <sup>5</sup> / <sub>8</sub> (194mm)	30 <sup>3</sup> / <sub>8</sub> (772mm)	21 <sup>3</sup> / <sub>8</sub> (543mm)	1, 2, MR2, 3, 4 or 5	36 (914mm)
LRS3322	LRSQ3322	33 (838mm)	22 (559mm)	28 (711mm)	16 (406mm)	7 <sup>5</sup> / <sub>8</sub> (194mm)	32 <sup>3</sup> / <sub>8</sub> (822mm)	21 <sup>3</sup> / <sub>8</sub> (543mm)	1, 2, MR2, 3, 4 or 5	36 (914mm)

 $<sup>{}^{\</sup>star}$ Length is left to right. Width is front to back.





LRQ Series Illustrated

# MECHANICAL FAUCETS 930-317XKCP

# CHICAGO SE FAUCETS

#### Water Faucets

#### **Product Type**

Deck Mounted Single Hole Hot and Cold Water Mixing Faucet with Vacuum Breaker

#### **Features & Specifications**

- Single Hole
- 6" Rigid / Swing Gooseneck Spout with Atmospheric Vacuum Breaker
- Full Flow Nozzle
- 4" Wristblade Handle
- Ceramic 1/4 Turn Operating Cartridge
- 3/8" O.D. Copper Supply Tubes
- Atmospheric Vacuum Breaker, Not Intended for Continuous Pressure Applications
- Atmospheric Vacuum Breaker, Not Intended for Continuous Pressure Applications
- CFNow! Item Ships in 5 Days

#### **Performance Specification**

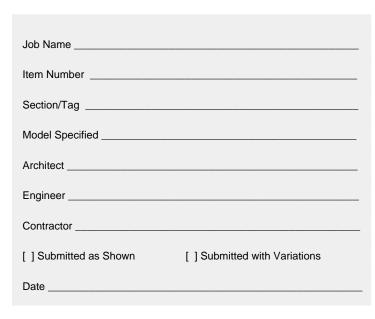
- Rated Operating Pressure: 20-125 PSI
- Rated Operating Temperature: 40-140°F

#### Warranty

- Lifetime Limited Faucet Warranty
- 5-Year Limited Cartridge Warranty
- 1-Year Limited Finish Warranty

#### **Codes & Standards**

- ASME A112.18.1/CSA B125.1
- · Certified to NSF/ANSI 61, Section 9 by CSA
- ADA ANSI/ICC A117.1





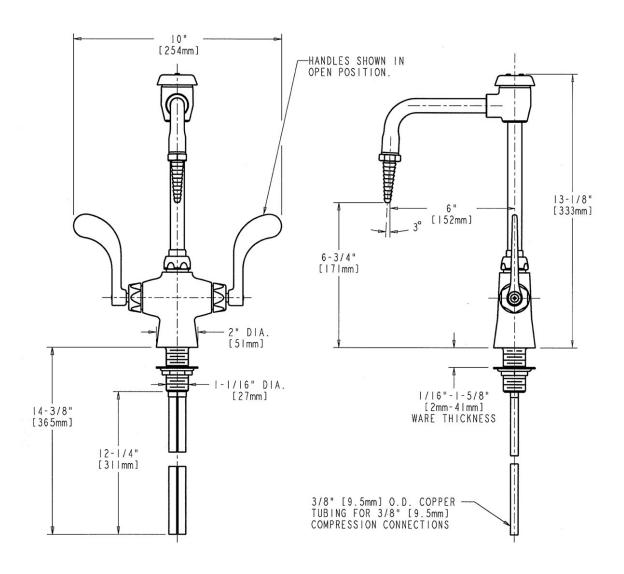


#### Water Faucets



#### **Architect/Engineer Specification**

Chicago Faucets No. 930-317XKCP, Deck Mounted Single Hole Hot and Cold Water Mixing Faucet with Vacuum Breaker, polished chrome plated solid brass construction 6" Center to Center Rigid / Swing Gooseneck Spout with Atmospheric Vacuum Breaker. Full Flow Laboratory Serrated Nozzle. 4" Metal Wristblade handle(s) with Sixteen Point Tapered Broach and Secured Blue and Red Buttons. Ceramic quarter turn cartridge, features square tapered stem. 3/8" O.D. Copper Supply Tubes. Atmospheric Vacuum Breaker, Not Intended for Continuous Pressure Applications. Atmospheric Vacuum Breaker, Not Intended for Continuous Pressure Applications. This product meets ADA ANSI/ICC A117.1 requirements and is tested and certified to industry standards: ASME A112.18.1/CSA B125.1, and Certified to NSF/ANSI 61, Section 9 by CSA.



#### **Operation and Maintenance**

Installation should be in accordance with local plumbing codes. Flush all pipes thoroughly before installation. After installation, remove spout outlet or flow control and flush faucet thoroughly to clear any debris. Care should be taken when cleaning the product. Do not use abrasive cleaners, chemicals or solvents as they can result in surface damage. Use mild soap and warm water for cleaning and protecting the life of Chicago Faucet products. For specific operation and maintenance refer to the installation instructions and repair parts documents that are located at <a href="https://www.chicagofaucets.com">www.chicagofaucets.com</a>.

Chicago Faucets, member of the Geberit Group, is the leading brand of commercial faucets and fittings in the United States, offering a complete range of products for schools, laboratories, hospitals, office buildings, food service, airports and sport facilities. Call 1.800.TECTRUE or 1.847.803.5000 Option 1 for installation or other technical assistance.



2100 South Clearwater Drive Des Plaines, IL P: 847/803-5000 F: 847/803-5454 Technical: 800/TEC-TRUE

## MECHANICAL FAUCETS

#### **828-ASAM**



#### **Pure Water Faucets**

#### **Product Type**

Deck Mounted Polypropylene Polypropylene Pure Water Faucet

#### **Features & Specifications**

- Polypropylene
- 2 1/2" Cross Handle
- 3/8" NPT Polypropylene Male Thread Inlet

#### **Performance Specification**

- Rated Operating Pressure: 80 PSI
- Rated Operating Temperature: 90°F
- The antimicrobial protection is formulated to last beyond the useful life of the product on an undamaged surface.

#### Warranty

- Lifetime Limited Faucet Warranty
- 5-Year Limited Faucet Warranty
- 5-Year Limited Cartridge Warranty
- 1-Year Limited Finish Warranty

Job Name	
Item Number	
Section/Tag	
Model Specified	
Architect	
Engineer	
Contractor	
[ ] Submitted as Shown	[ ] Submitted with Variations
Date	



S-3

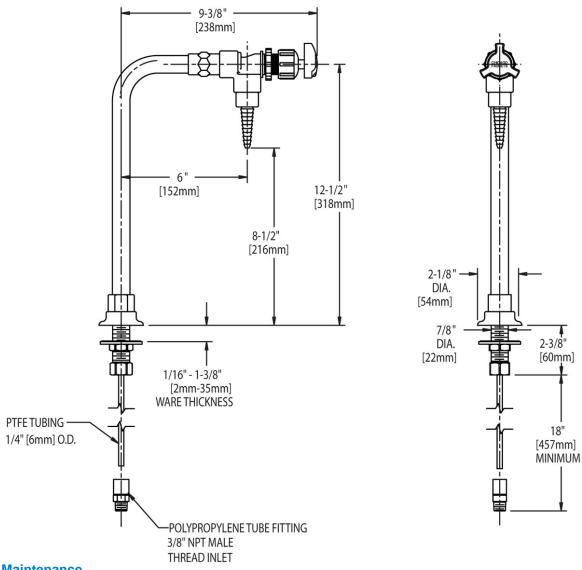
Technical: 800/TEC-TRUE www.chicagofaucets.com

#### **Pure Water Faucets**



#### **Architect/Engineer Specification**

Chicago Faucets No. 828-ASAM, Deck Mounted Polypropylene Polypropylene Pure Water Faucet , polished chrome plated solid brass construction 2 1/2" Metal Cross handle(s) with Eight Point Tapered Broach and CW Button. 3/8" NPT Polypropylene Male Thread Inlet. .



#### **Operation and Maintenance**

Installation should be in accordance with local plumbing codes. Flush all pipes thoroughly before installation. After installation, remove spout outlet or flow control and flush faucet thoroughly to clear any debris. Care should be taken when cleaning the product. Do not use abrasive cleaners, chemicals or solvents as they can result in surface damage. Use mild soap and warm water for cleaning and protecting the life of Chicago Faucet products. For specific operation and maintenance refer to the installation instructions and repair parts documents that are located at <a href="https://www.chicagofaucets.com">www.chicagofaucets.com</a>.

Chicago Faucets, member of the Geberit Group, is the leading brand of commercial faucets and fittings in the United States, offering a complete range of products for schools, laboratories, hospitals, office buildings, food service, airports and sport facilities. Call 1.800.TECTRUE or 1.847.803.5000 Option 1 for installation or other technical assistance.



2100 South Clearwater Drive Des Plaines, IL P: 847/803-5000 F: 847/803-5454 Technical: 800/TEC-TRUE

www.chicagofaucets.com

## **LabWaste™ Dilution Traps**



#### **LabWaste**<sup>TM</sup> 1-Gallon CPVC Dilution Traps

Provides chemical dilution from water rinse during use. Designed for under-sink installations as a trap. CPVC construction with Glass or PP Jar type tank.

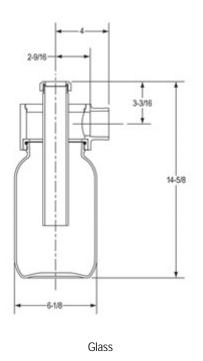
	Nominal US Gallons	Inlet & Outlet Size (in.)	Inlet	Outlet	CPVC Tank Part Glass Jar Tank No./Price	Disc Code	
١	1	1 1/2	Clin	Socket	T4001G1612	140	
	'	1 1-1/2 Slip Socket		Socker	384.23	169	

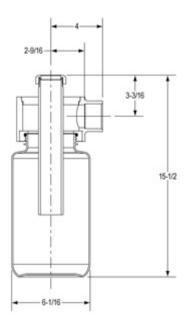
Nominal US Gallons	Inlet & Outlet Size (in.)	Outlet Inlet Outlet		CPVC Tank Part Polypropylene Jar Tank No./Price	Disc Code
1	1-1/2	Clin	Socket	T4001P1612	169
ı	1-1/2   Slip		Socker	276.64	109

Note: Slip connections are for sink drain tailpiece.



#### **Dimensions**





Polypropylene

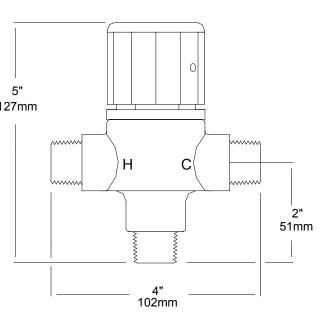
NOT FOR USE WITH COMPRESSED AIR OR GAS

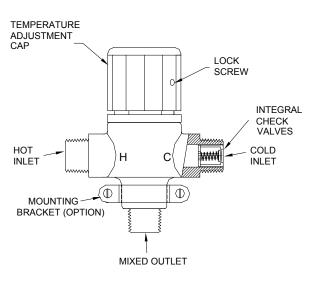
Made in the U.S.A.

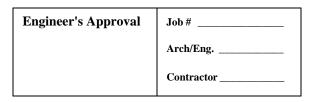
Progressive Products from Spears® Innovation and Technology

Page 6

## THERMOSTATIC MIXING VALVE







## **MODEL 270**

## THERMOSTATIC POINT OF USE MIXING VALVE

MODEL 1/2" inlets, 1/2" outlet, (MIPS connections)

#### **MATERIALS:**

- Bronze body
- Locked temperature adjustment cap (vandal resistant)
- Copper encapsulated thermostat assembly with polymer thermoplastic shuttle
- · Stainless steel springs
- Buna-N: O'rings
- · Integral check valves on hot and cold inlets

#### PRESSURE-TEMPERATURE:

- Minimum Flow:0.5 GPM (1.9 l/Min)
- Maximum Pressure:125 PSI (8.6 BAR)
- Maximum Hot Water temperature: 200°F- (93°C)
- Approach Temperature 5°F (2.8°C) above set point.

ASSE 1017 Certified ASSE 1070 Certified



Valve is CUPC listed



#### **OPTIONS:**

- \_\_\_SUFFIX BRKT- Mounting bracket
- \_\_\_SUFFIX BV- Inlet ball valves (shipped loose)
- \_\_\_SUFFIX SW- Sweat connections

PRESSURE DROP									
5	10	20	30	40	50	PSI			
.35	.70	1.4	2.1	2.8	3.4	BAR			
3.5	5.5	7.5	9.5	10.5	12	GPM			
13	21	28	36	40	45	I/min			



1360 Elmwood Avenue, Cranston, RI 02910 USA Phone: 401.461.1200 Fax: 401.941.5310

Email: info@leonardvalve.com

Web Site: http://www.leonardvalve.com

48 x 36 x 78 (1220 x 915 x 1980) • Fax on Demand #1164

MODEL #CAE1480

→ MODEL #CAE148L/R (1 seat, LH or RH)



#### **FEATURES**

- Stylized smooth wall
- 1 integral footrest(1 seat models)
- 2 integral footrest (no seat models)
- 1 molded seat or no seat
- Slip-resistant floor
- Center drain
- Lucite cast acrylic surface
- Limited 5-year warranty

#### **OPTIONS**

- Brass drain
- Designer metallic grab bar: Chrome, Oil-Rubbed Bronze, Polished Brass, Brushed Nickel
- Shower door series: L0517

#### AQUATIC ADVANTAGE

- National distribution
- 6 manufacturing facilities
- Private fleet
- Centralized customer service
- Field support
- 24-hour fax-on-demand

#### **COLOR & TRIM OPTIONS**

Stock	Premium
Almond	Black
Bone	Cashmere
Linen/Biscuit	Mexican Sand
Sterling Silver	Red
White	Sandbar







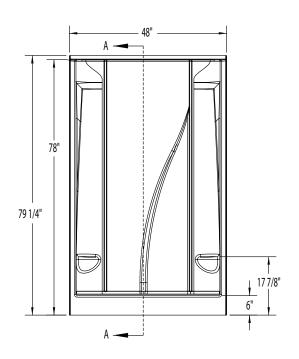
#### **TECHNICAL SPECIFICATIONS**

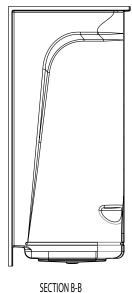
Acrylic Showers • Fax on Demand #1164

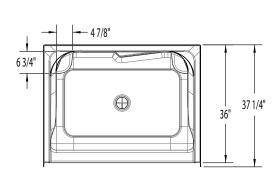
## **CAE148**

48 x 36 x 78 (1220 x 915 x 1980) inches (mm)









FEATURES lbs (kg) Dimensional Tolerance ± 3/8". Dimensions needed for site preparation should be measured from the unit. Aquatic assumes no responsibility for preparatory work.

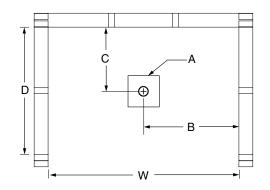
Type and Model #	Material	Wall Finish	Pieces	Drain	Seats	Lights	Pkg. Wt.
Shower #CAE1480	Acrylic	Smooth Wall	1	Center	No seat	_	145 (66)
Shower #CAE148L/R	Acrylic	Smooth Wall	1	Center	1 seat (LH or RH)	-	154 (70)

#### **DIMENSIONS**

Specifications	inches (mm)
Width: Overall / Net	48 (1220)
Depth: Overall / Net	37 ¼ (945) / 36 (915)
Height: Overall / Net	79 ¼ (2015) / 78 (1980)
Enclosure Opening	44 (1120)
Skirt Height	6 (150)
Drain Rough-In (from Back Wall)	17 ¾ (450)
Drain Rough-In (from Side Wall)	24 (610)
Drain: Diameter / Clearance	3 1/4 (85) / 3/4 (20)

#### FRAMING DIMENSIONS inches (mm)

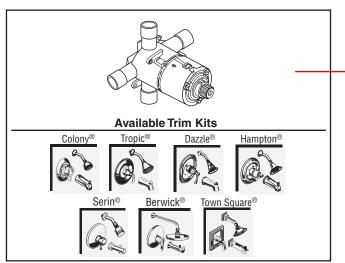
Туре	<b>D</b> Depth	<b>W</b> Width	<b>H</b> Height	<b>A</b> Box-Out	В	С
Alcove	36 (915)	48 1/8 (1220)	-	6 × 6 (150 × 150)	24 (610)	17¾ (450)





#### **UPGRADABLE**

## PRESSURE BALANCE BATH/SHOWER FITTING TEMPERATURE CONTROL VALVE



R110 Valve Body Shown

#### **GENERAL DESCRIPTION:**

Cast brass body, washerless ceramic disc valve cartridge with back-to-back capability and hot limit safety stop. Cycles from "off" to "cold" to "hot". Pressure balancing cartridge maintains constant output temperature in response to changes in relative hot and cold supply pressure. One-half inch inlets and outlets (choice of direct sweat, threaded, or PEX). Available with screwdriver stops. Rough-in plaster guard designed for use as thin-wall mounting adaptor. Valve body will accept a variety of decorative Bath/Shower trims.

#### **PRODUCT FEATURES:**

**Cast Brass Valve Body:** Durable - Quality that will last a lifetime. Ideal material for prolonged contact with water.

**Ceramic Disc Valve Cartridge:** Assures a lifetime of drip-free performance. Allows easy fine tuning of temperature (125°handle rotation from off to hot).

Pressure Balancing Valve Cartridge: Maintains constant output temperature in response to changes in hot and cold supply pressure. Diaphragm system engineered to eliminate cross flow. Avoids failure due to mineral deposits - ideal for use in hard water

**Back-to-Back Capability:** Hot and cold can be reversed quickly and easily.

Adjustable Hot Limit Safety Stop: Limits the amount of hot water allowed to mix with cold. Reduces the risk of accidental scalding.

**Exclusive Plaster Guard:** Plaster guard is designed to protect valve during installation and serve as a mounting plate for thin-wall installations. 2 piece design allows valve to be tested prior to trim installation.

Wide Rough-in Range: From 1-5/8" to 3-1/4".

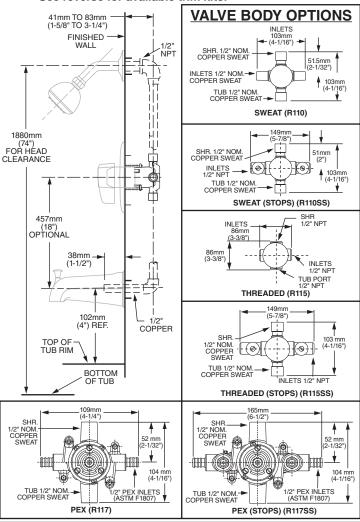
#### **MODEL NUMBER:**

R110 Pressure Balance Rough Valve Body only Direct sweat inlets/outlets. LESS trim.

R110SS Pressure Balance Rough Valve Body only with Screwdriver stops
Direct sweat inlets/outlets. Screwdriver stops. LESS trim.

- R115 Pressure Balance Rough Valve Body only Female thread inlets/outlets. LESS trim.
- R115SS Pressure Balance Rough Valve Body only with Screwdriver stops
  Female thread inlets/outlets. Screwdriver stops. LESS trim.
- ☐ R117 Pressure Balance Rough Valve Body only PEX inlets/Direct sweat outlets. LESS trim.
- R117SS Pressure Balance Rough Valve Body only with Screwdriver stops
  PEX inlets/Direct sweat outlets. Screwdriver stops. LESS trim.

See reverse for available trim kits.



#### SUGGESTED SPECIFICATION:

Bath/shower fitting shall feature a cast brass body. Shall feature ceramic disc valve cartridge which is capable of back-to-back installation. Fitting shall be equipped with pressure balancing cartridge engineered to eliminate cross flow and avoid failure due to mineral deposits. Shall also feature hot limit safety stop. Fitting shall be: Rough Valve Body - American Standard Model # R11\_\_\_\_\_, Trim Kit - American Standard Model # \_\_\_\_\_\_.



#### **UPGRADABLE**

## PRESSURE BALANCE BATH/SHOWER FITTING TEMPERATURE CONTROL VALVE

#### Valve + Trim: Trim Kit & Valve Body Packaged Separately

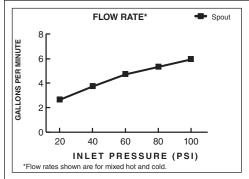
To order: Specify valve body and trim kit desired

Example: R110 - Direct Sweat Valve Body

T215.710 - Hampton Bath/Shower Trim Kit (Porcelain Lever Handle)



10							
S	R110	R110SS	R115	R115SS	R117	R117SS	
VALV	Direct Sweat Inlets/ Outlets	Direct Sweat Inlets/Outlets w/ Screwdriver Stops	Female Thread Inlets/ Outlets	Female Thread Inlets/Outlets w/ Screwdriver Stops	PEX Inlets/Direct Sweat Outlets	PEX Inlets/Direct Sweat Outlets w/ Screwdriver Stops	



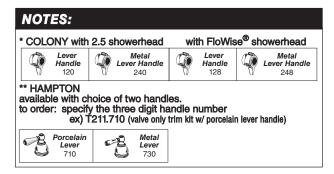
#### CODES AND STANDARDS

These products meet or exceed the following codes and standards:

ASSE 1016 ASME A112.18.1 CSA B 125

• Showerhead with 2.5gpm/9.5L.min. flow restrictor.

		Colony®*	Tropic®	Dazzle®	Hampton®**	Town Square®	Serin®	Berwick <sup>®</sup>
TRIM KITS								
¥	B/S	T375.XXX	T038.502	T028.502	T215.7XX	T555.502	T064.502	T430.502
⊨	Shower	T372.XXX	T038.501	T028.501	T212.7XX	T555.501	T064.501	T430.501
	Valve	T371.XXX	T038.500	T028.500	T211.7XX	T555.500	T064.500	T430.500
		Colony® with FloWise®	,	Serin® with FloWise®	Berwick® with FloWise®			
	B/S	T375.X28					T064.508	T430.508
	Shower	T372.X28					T064.507	T430.507





#### **BERWICK®**

#### PRESSURE BALANCE BATH/SHOWER FITTING

WITH FloWise® SHOWERHEAD



T430.508 Bath/Shower Trim Shown

#### **GENERAL DESCRIPTION:**

#### **TRIM KIT**

FloWise water saving 3-function showerhead offers up to 40% water savings at maximum 2.0gpm/7.6L/min. flow rate. Metal slip-on diverter spout. Available with metal lever handle.

#### **ROUGH VALVE BODY**

Cast brass body, washerless ceramic disc valve cartridge with back to back capability, and hot limit safety stop. Cycles from "off" to "cold" to "hot". Pressure balancing cartridge maintains constant output temperature in response to changes in relative hot and cold supply pressure. 1/2" inlets and outlets (choice of direct sweat, threaded, or PEX). Available with screwdriver stops. Rough-in plaster guard designed for use as thin-wall mounting adaptor.



#### **MODEL NUMBER:**

#### TRIM KITS:

T430.508 Berwick BATH/SHOWER Trim Kit Lever Handle, FloWise® Showerhead, LESS Valve Body.



T430.507 Berwick SHOWER ONLY Trim Kit Lever Handle. FloWise Showerhead. LESS Valve Body.

#### **ROUGH VALVES:**

R110 Pressure Balance Rough Valve Body only Direct sweat inlets/outlets. LESS trim.



R110SS Pressure Balance Rough Valve Body only with Screwdriver stops

Direct sweat inlets/outlets. Screwdriver stops. LESS trim.

- **R115 Pressure Balance Rough Valve Body only** Female thread inlets/outlets. LESS trim.
- R115SS Pressure Balance Rough Valve Body only with Screwdriver stops
  Female thread inlets/outlets. Screwdriver stops. LESS trim.
- **R117 Pressure Balance Rough Valve Body only** PEX inlets/Direct sweat outlets. LESS trim.
- R117SS Pressure Balance Rough Valve Body only with Screwdriver stops PEX inlets/Direct sweat outlets. Screwdriver stops. LESS trim.

#### PRODUCT FEATURES:

FloWise Water Saving 3-Function Showerhead: Saves up to 40% in water usage. Max. 2.0gpm/7.6L/min. flow rate.

Cast Brass Valve Body: Durable - Quality that will last a lifetime. Ideal material for prolonged contact with water.

Ceramic Disc Valve Cartridge: Assures a lifetime of drip-free performance. Allows easy fine tuning of temperature (125° handle rotation from off to hot).

Pressure Balancing Valve Cartridge: Maintains constant output temperature in response to changes in hot and cold supply pressure. Diaphragm system engineered to eliminate cross flow. Avoids failure due to mineral deposits - ideal for use in hard water.

Back-to-Back Capability: Hot and cold can be reversed quickly and easily.

Adjustable Hot Limit Safety Stop: Limits the amount of hot water allowed to mix with cold. Reduces the risk of accidental scalding.

Exclusive Plaster Guard: Plaster guard is designed to protect valve during installation and serve as a mounting plate for thin-wall installations. 2 piece design allows valve to be tested prior to trim installation.

Wide Rough-in Range: From 1-5/8" to 3-1/4".

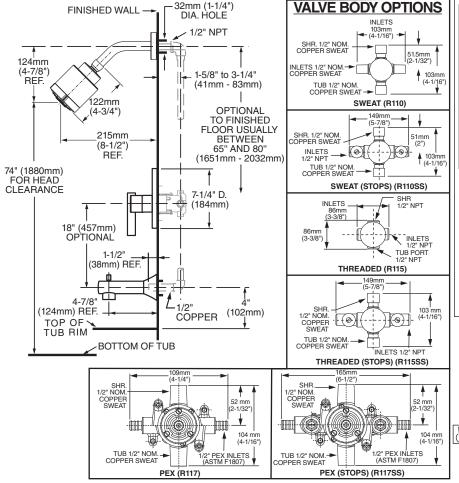
#### SUGGESTED SPECIFICATION:

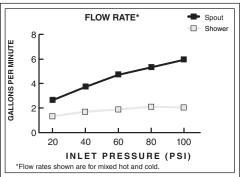
Bath/shower fitting shall feature water saving 3-function showerhead with Max. 2.0gpm/76L/min. flow rate. Shall feature a cast brass body. Shall feature ceramic disc valve cartridge which is capable of back-to-back installation. Fitting shall be equipped with pressure balancing cartridge engineered to eliminate cross flow and avoid failure due to mineral deposits. Shall also feature hot limit safety stop. Fitting shall be: Rough Valve Body - American Standard Model # R11\_\_\_\_\_, Trim Kit - American Standard limit safety stop. Model # T430.50\_



#### **BERWICK®**

## PRESSURE BALANCE BATH/SHOWER FITTING WITH FloWise® SHOWERHEAD





#### **CODES AND STANDARDS**

These products meet or exceed the following codes and standards:

ANSI A 117.1 ASSE 1016 ASME A112.18.1 CSA B 125



Meets the American Disabilities
Act Guidelines and ANSI
A117.1 Requirements for the
physically challenged.

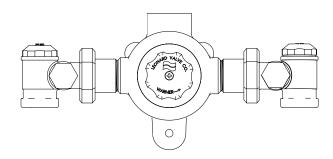
				Finish Options		
* SI	Product			Polished Chrome	PVD Satin Nickel	
¥	Number	Description		002	295	
RIM	T430.508	Bath/Shower Trim Kit. Lever Handle. FloWise Showerhead. LESS Valve Body.	F			
F	T430.507	Shower Only Trim Kit. Lever Handle. FloWise Showerhead. LESS Valve Body.	E	>		

DIES	Product Number	Description
BOI	R110	Rough Valve Body less trim. Direct Sweat inlets/outlets.
_E	R110SS	Rough Valve Body less trim. Direct Sweat inlets/outlets with Screwdriver Stops.
AL	R115	Rough Valve Body less trim. Female Thread inlets/outlets.
Ĭ	R115SS	Rough Valve Body less trim. Female Thread inlets/outlets with Screwdriver Stops.
DO.	R117	Rough Valve Body less trim. PEX inlets/ Direct Sweat outlets.
8	R117SS	Rough Valve Body less trim. PEX inlets/ Direct Sweat outlets with Screwdriver Stops.

<sup>\*</sup> TRIM & ROUGH MUST BE ORDERED SEPARATELY.

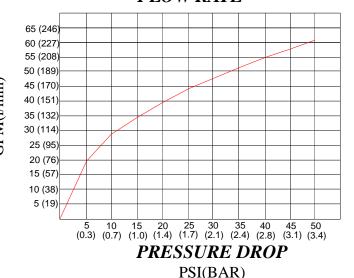


# HIGH LOW THERMOSTATIC MIXING VALVES



PRESSURE DROP												
MIN+	5	10	15	20	25	30	35	40	45	50	PSI	
FLOW	0.3	0.7	1	1.4	1.7	2.1	2.4	2.8	3.1	3.4	BAR	
1	19	28	34	39	43	48	51	55	58	61	GPM	
3.8	72	106	129	148	163	182	193	208	219	231	I/min	

#### **FLOW RATE**



**+NOTE:** The valve will maintain temperature with 0.5GPM flow from the domestic hot water loop when properly installed near the hot water source with a continuously operating recirculation pump.

## 

- High Low Thermostatic Water Mixing Valve with 1 GPM (3.8 l/min) minimum flow capacity
- 1" inlets, 1-1/4" outlet (25mm x 32 mm)
- Integral combination checkstops with strainers and wall support
- 125 PSI (8.6 BAR) maximum operating pressure
- Copper encapsulated thermostatic assembly with Teflon coated shuttle
- Locking temperature regulating handle set for 120°F(49°C)\*
- Top or bottom supply connections
- Internal parts of bronze, brass, and stainless steel
- Rough Bronze Finish

ASSE 1017 certified



Valve is CUPC certified



#### **OPTIONS**

\_\_\_\_ **SUFFIX** <u>CP</u> Chrome plated finish

\_SUFFIX <u>LWS</u> Less wall support

→ SUFFIX <u>BDT</u> Ball valve with dial

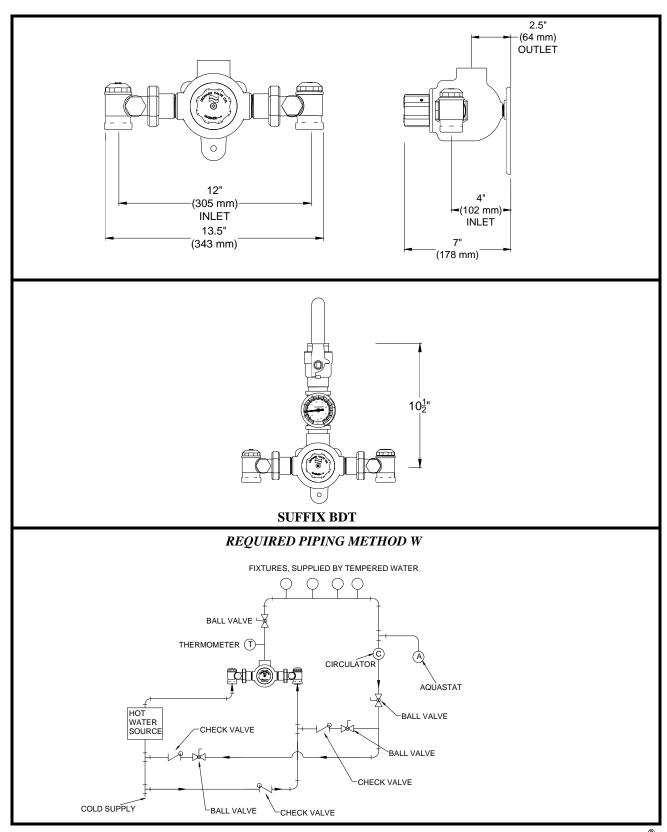
thermometer

\_ **SUFFIX** <u>IT</u> Inlet thermometers

NOTE: Leonard Valve Company reserves the right of product or design modification without notice or obligation

\*NOTE: A locking temperature regulator set for 120°F (49°C), is simply a mechanical setting to prevent unauthorized temperature set point changes. If incoming water is hotter than 150°F (65.5°C), the temperature of the factory test, the valve may deliver in excess of 120°F. MUST BE RESET BY THE INSTALLER

### TMV-1



**CAUTION!** All thermostatic water mixing valves have limitations. They will NOT provide the desired accuracy outside of their flow capacity range. Consult the Flow Capacity Chart and DO NOT OVERSIZE. Minimum flow must be no less than as indicated.



1360 Elmwood Avenue, Cranston, RI 02910 USA Phone: 401.461.1200 Fax: 401.941.5310

Email: <a href="mailto:info@leonardvalve.com">info@leonardvalve.com</a>
Web Site: <a href="mailto:http://www.leonardvalve.com">http://www.leonardvalve.com</a>

#### UR-1



#### WASHBROOK® FloWise® 0.125 GPF **ULTRA HIGH EFFICIENCY URINAL SYSTEM**

MANUAL FLUSH VALVE

**BARRIER FREE** 

#### WASHBROOK® FloWise® 0.125 GPF **ULTRA HIGH EFFICIENCY URINAL SYSTEM**

6590.503 0.125 gpf Exposed Top Spud Urinal and Manual Piston-Type Urinal Flush Valve

#### **URINAL:**

- · Vitreous china
- Ultra High Efficiency, Low Consumption. Operates in the range of 0.125 gpf to 1.0 gpf (0.5 Lpf to 3.8 Lpf)
- Flushing rim
- Elongated 14" rim from finished wall
- Washout flush action
- · Extended sides for privacy
- 3/4" inlet spud
- Outlet connection threaded 2" inside (NPTF)
- Strainer included
- Meets ASME flush requirements at 0.125 gpf
- Model 6590.001 top spud

#### **MANUAL FLUSH VALVE:**

- Self-cleaning brass piston with integral wiper spring prevents clogging and reduces maintenance
- Piston operation delivers superior flush accuracy and repeatability
- · Piston valve remains closed and does not need to be reset after loss of water pressure
- Non-hold open handle
- Positive seal ensures leak-free performance
- No external volume adjustment
- Durable chrome-plated cast brass construction is ideal for commercial applications
- Chloramine-resistant EPDM seals
- Adjustable tailpiece for rough-in flexibility
- · Can be installed left or right hand
- Model 6045.013 for 3/4" top spud urinals, 0.125 gpf

#### Includes:

- · 2 Wall hangers
- 3/4" I.P.S. angle stop with back-flow protection and vandal-resistant cap
- Sweat solder kit including cover tube and wall flange
- High back pressure vacuum breaker with down tube
- Spud coupling and flange for 3/4" top spud





MEETS THE AMERICANS WITH DISABILITIES ACT GUIDELINES AND ANSI A117.1 ACCESSIBLE AND USABLE BUILDINGS AND **FACILITIES - CHECK LOCAL CODES.** 

• When installed so top of rim is 387mm (15-1/4") from finished floor.



SEE REVERSE FOR ROUGHING-IN DIMENSIONS

#### **Operating Pressure:**

Overall Range: 20-125 psi\*\*

Recommended: 20 psi (flowing)-80 psi (static)

\*\* Water pressure over 80 psi is not recommended for most plumbing fixtures.

#### Flow Requirement:

8gpm (30.3 L/min.)

#### **Nominal Fixture Dimensions:**

360 x 480 x 664mm (14-1/8" x 18-7/8" x 26-1/8")

#### **Fixture Compliance Certifications -**Meets or Exceeds the Following Specifications:

 ASME A112.19.2-2008/CSA B45.1-08 for Vitreous China Fixtures

#### **Valve Listings:**

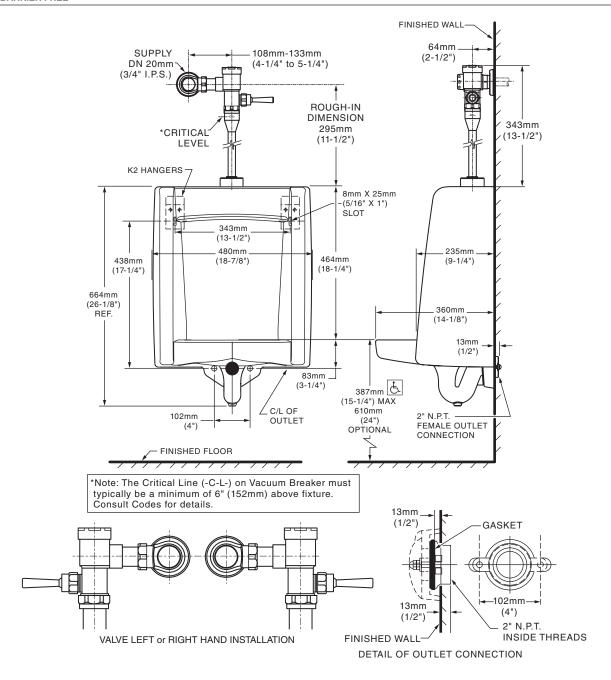
- ASSE 1037
- ANSI/ASME A112.19.2
- ADA Compliant



## WASHBROOK® FloWise® 0.125 GPF ULTRA HIGH EFFICIENCY URINAL SYSTEM

**MANUAL FLUSH VALVE** 

**&** BARRIER FREE



#### NOTES:

PROVIDE SUITABLE REINFORCEMENT FOR ALL WALL SUPPORTS.

**IMPORTANT:** Dimensions of fixtures are nominal and may vary within the range of tolerances established by ANSI Standard A112.19.2. These measurements are subject to change or cancellation. No responsibility is assumed for use of superseded or voided pages.

ш

DRAWING NUMBER S0637

SIZE **A** 

NONE

Z

APPROVED BY: **BS** 

CHECKED BY: **CR**  SUPERSEDED OR VOID DATA

WE CAN ASSUME NO RESPONSIBILITY FOR USE OF

AND CHANGE WITHOUT NOTICE

DIMENSIONS ARE SUBJECT TO MANUFACTURERS TOLERANCE.

FIGURE NUMBER

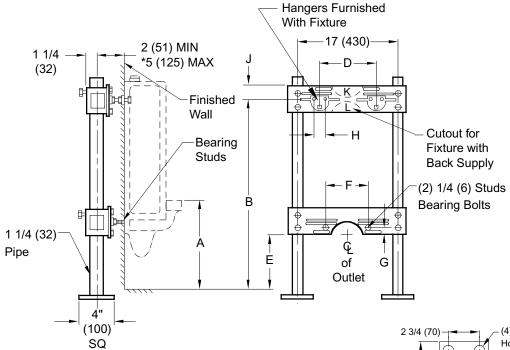




LOCATION

## URINAL SUPPORTS FOR OFF-THE-FLOOR URINALS

#### WITH PLATE FOR BLOWOUT AND WASHOUT URINALS WITH WALL HANGERS



**NOTE:** Dimensions shown in parentheses are in millimeters.

\*This dimension can be increased when fixture support is to be installed behind the wall (specify when required and wall thickness).

#### 2 3/4 (70) (4) 9/16 (14) DIA Holes 4 (100) 2 3/4 (70) (100) BASE DETAIL

#### **ROUGH-IN TABLE**

FIXTURE MFG.	NAME	NUMBER	Α	В	D	E	F	G	н	J	K	L
Am. Std.	Washbrook	6501.010	24 (610)	39 (990)	13 1/2 (345)	21 (535)	7 (180)	1/2 (13)	1 3/16 (30)	2 (51)	Х	-
Am. Std.	Washbrook	6506.011	24 (610)	39 (990)	13 1/2 (345)	21 (535)	7 (180)	1/2 (13)	1 3/16 (30)	2 (51)	Х	-
Am. Std.	Lynbrook	6538.010	24 (610)	40 (1015)	13 1/2 (345)	21 (535)	7 (180)	1/2 (13)	1 3/16 (30)	1 (25)	Х	-
Am. Std.	Lynbrook	6531.019	24 (610)	40 (1015)	13 1/2 (345)	21 (535)	7 (180)	1/2 (13)	1 3/16 (30)	1 (25)	Х	-
Am. Std.	Trimbrook	6560.015	24 (610)	37 5/8 (955)	11 (280)	16 3/8 (416)	5 (125)	1 (25)	1 3/16 (30)	1 (25)	Х	-
Am. Std.	Trimbrook	6560.023	24 (610)	37 5/8 (955)	11 (280)	16 3/8 (416)	5 (125)	1 (25)	1 3/16 (30)	1 (25)	Х	-
Am. Std.	Trimbrook	6565.014	24 (610)	37 5/8 (955)	11 (280)	16 3/8 (416)	5 (125)	1 (25)	1 3/16 (30)	1 (25)	Х	-
Am. Std.	Trimbrook	6565.022	24 (610)	37 5/8 (955)	11 (280)	16 3/8 (416)	5 (125)	1 (25)	1 3/16 (30)	1 (25)	Х	-
Eljer	Correcto	161-1030, 45	24 (610)	39 3/8 (1000)	12 (305)	21 (535)	5 1/4 (135)	1 (25)	1 (25)	1 (25)	Х	
		161-1060, 75										
Eljer	Terminal	161-1100, 3	25 1/2 (650)	33 7/8 (860)	9 1/2 (240)	23 1/4 (590)	6 (150)	2 (51)	1 (25)	1 (25)	Х	-
Eljer	Dover	161-1160, 75	24 (610)	32 3/8 (822)	6 (150)	17 (430)	6 (150)	1 (25)	1 (25)	1 (25)	Х	-
Kohler	Stanwell	K-4970-T, R	24 (610)	40 (1015)	12 (305)	22 (560)	5 3/8 (137)	1 (25)	1 (25)	1 (25)	Х	-
Kohler	Bardon	K-4980-T, R	24 (610)	40 1/2 (1030)	12 (305)	21 (535)	8 1/4 (210)	1 (25)	1 (25)	1 (25)	Х	-
Kohler	Derry	K-5007-T, R	24 (610)	29 1/2 (750)	6 (150)	22 (560)	6 (150)	1 (25)	1 (25)	1 (25)	-	Х
Kohler	Dexter	K-5014-T, R	24 (610)	32 1/8 (816)	6 1/2 (165)	17 5/8 (448)	8 (205)	1 (25)	1 (25)	1 (25)	Х	-

E D C B	7-17-02 3-21-95 7-28-93 11-17-88	Changed Table Added Metric Submittal Update Change Table	RN EMB EMB EMB	MB BS BS BS	_	VOLUME CUBIC FEET	FIGURE NUMBER 0637
REV.	DATE	DESCRIPTION	BY	CKD. BY			

SUPERSEDED OR VOID DATA

WE CAN ASSUME NO RESPONSIBILITY FOR USE OF

AND CHANGE WITHOUT NOTICE

TO MANUFACTURERS TOLERANCE

DRAWN BY:

FIGURE NUMBER

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NONE

03/27/01

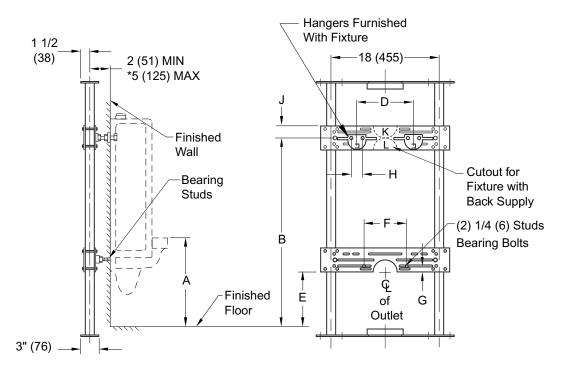
APPROVED BY: **AM** 



LOCATION

#### LABOR SAVER URINAL SUPPORTS FOR OFF-THE-FLOOR URINALS

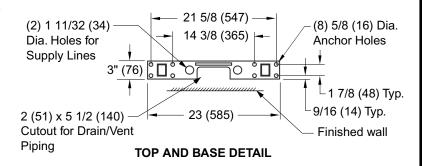
#### WITH PLATE FOR BLOWOUT AND WASHOUT URINALS WITH WALL HANGERS



NOTE: \*This dimension can be increased when fixture support is to be installed behind the wall (specify when required and wall thickness).

NOTE: Dimensions shown in parentheses are in millimeters.

NOTE: The rough-in dimensions listed on this drawing are based on current information available to Jay R. Smith by the fixture manufacturers. We recommend that you verify these dimensions with the fixture manufacturer. We will not accept responsibility for rough-in dimension changes by the fixture manufacturer.



#### **ROUGH-IN TABLE**

FIXTURE MFG.		NAM	E	NUMB	ER	SIZ	Έ	CUTOUT F	OR INLET
Α	В	D	E	F	G	н	J	к	L

C		TIXTORE IIII G.								331331131111221			
SUBJECT													
ARE SI		Α	В		E	F	G	i	н	J	К	L	
DIMENSIONS													
DIM	_	_	_		_		_						
ļ	D	C 11/06/02 Changed per George Flegel Revised "E" Dim. & Chart Size		9-03 Removed "C" in Table RN AM WEIGHT VOLUME FIGURE O6/02 Changed per George Flegel JJ AM POUNDS CUBIC FEET	SURE NUM	IBER							
	B A			rt Size ise	JJ AM PO RN AM JJ AM		FOUNDS COBIC I EL		-	0617			
	REV. DATE DESCRIPTION		BY	CKD. BY									



Style That Works Better

#### **CHAMPION® 4** RIGHT HEIGHT™ ELONGATED TOILET

**VITREOUS CHINA** 

#### CHAMPION® 4 RIGHT HEIGHT™ **ELONGATED TOILET**

#### **2002.014**

- Vitreous china
- EverClean® surface inhibits the growth of stain- and odor-causing bacteria, mold, and mildew on the surface
- Low-consumption (6.0 Lpf/1.6 gpf)
- Features Champion® 4 Flushing System performance platform
- 4" non-adjustable, piston action Accelerator™ flush valve
- 16-1/2" rim height for accessible applications
- · Elongated siphon action jetted bowl
- 2-3/8" fully-glazed trapway
- Speed Connect® tank/bowl coupling system
- Chrome-plated trip lever
- · Sweeping pier on bowl
- 100% factory flush tested
- 2 bolt caps
- 10 year warranty

**3225.016** Bowl

**4266.014** Tank

#### **Nominal Dimensions:**

772 x 464 x 825mm (30-3/8" x 18-1/4" x 32-1/2")

Fixture only, seat and supply by others

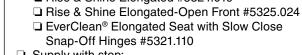
#### **Alternate Tank Configurations Available:**

- ☐ 4266.504 Tank complete with Aguaguard Liner ☐ 4266.604 Tank complete with tank cover locking device
- 4266.704 Tank complete with Aquaguard Liner and tank cover locking device
- ☐ 4266.804 Tank complete with trip lever located on right side
- 4266.904 Tank complete with tank cover locking device and trip lever located on right side
- ☐ 4266.954 Tank complete with Aquaguard Liner, tank cover locking device, and trip lever on right side

#### **Compliance Certifications -**Meets or Exceeds the Following Specifications:

- ASME A112.19.2M for Vitreous China Fixtures includes Flush Performance, Ball Pass Diameter, Trap Seal Depth and all Dimensions
- Los Angeles Department of Water and Power Supplementary Purchase Specification for Non-Adjustability - July, 2003 revision





■ Supply with stop:

THIS TOILET IS DESIGNED TO ROUGH-IN AT A MINIMUM DIMENSION OF 305MM (12") FROM FINISHED WALL TO C/L OF OUTLET.
SUPPLY NOT INCLUDED WITH FIXTURE AND MUST BE ORDERED SEPARATELY

\* DIMENSION SHOWN FOR LOCATION OF SUPPLY IS SUGGESTED.

**IMPORTANT:** Dimensions of fixtures are nominal and may vary within the range of tolerances established by ANSI Standard A112.19.2. These measurements are subject to change or cancellation. No responsibility is assumed for use of superseded or voided pages.



SEE REVERSE FOR ADDITIONAL ROUGHING-IN **DIMENSIONS** 



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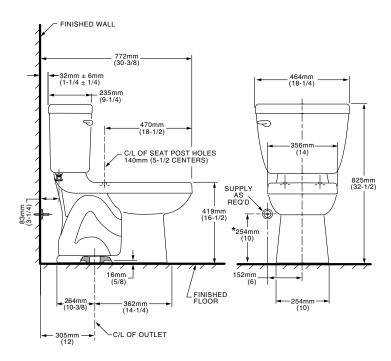
MEETS THE AMERICANS WITH DISABILITIES ACT GUIDELINES AND ANSI A117.1 REQUIREMENTS FOR ACCESSIBLE AND USABLE **BUILDING FACILITIES-CHECK LOCAL CODES.** 

K33



### **CHAMPION® 4** RIGHT HEIGHT™ ELONGATED TOILET

VITREOUS CHINA





#### NOTES:

THIS TOILET IS DESIGNED TO ROUGH-IN AT A MINIMUM DIMENSION OF 305MM (12") FROM FINISHED WALL TO C/L OF OUTLET. SUPPLY NOT INCLUDED WITH FIXTURE AND MUST BE ORDERED SEPARATELY.

\* DIMENSION SHOWN FOR LOCATION OF SUPPLY IS SUGGESTED.

MEETS THE AMERICANS WITH DISABILITIES ACT GUIDELINES AND ANSI A117.1 REQUIREMENTS FOR ACCESSIBLE AND USABLE **BUILDING FACILITIES-CHECK LOCAL CODES.** 

IMPORTANT: Dimensions of fixtures are nominal and may vary within the range of tolerances established by ANSI Standard A112.19.2. These measurements are subject to change or cancellation. No responsibility is assumed for use of superseded or voided pages.



## EVERCLEAN® TOILET SEATS

## EVERCLEAN® TOILET SEATS WITH SLOW-CLOSE AND SNAP-OFF HINGES

5321.110 Elongated toilet seat
5320.110 Round Front toilet seat

- Solid plastic seat with cover
- EverClean® silver-based surface permanently inhibits the growth of stain and odor causing bacteria, mold and mildew on the surface.
   EverClean® surface does not protect against disease causing bacteria
- Attractive design coordinates with popular bathroom decors
- Plastic slow-close snap-off hinge
- Convenient slow-close feature prevents seat from slamming
- Unique easy snap-off feature allows for quick removal and replacement of seat and cover without any tools for easy cleaning of toilet
- Fits any standard elongated or round front toilet
- Seat complete with bolts, nuts and washers



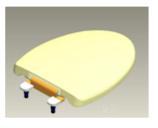
SHOWN: CONVENIENT SLOW-CLOSE FEATURE



#### **AVAILABLE REPLACEMENT PARTS**

• **760087-0070A** Toilet Seat Bolt Kit (complete with bolts, nuts and washers)

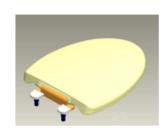
To Be Specified
☐ Color:
☐ White ☐ Bone ☐ Silver ☐ Linen ☐ Black



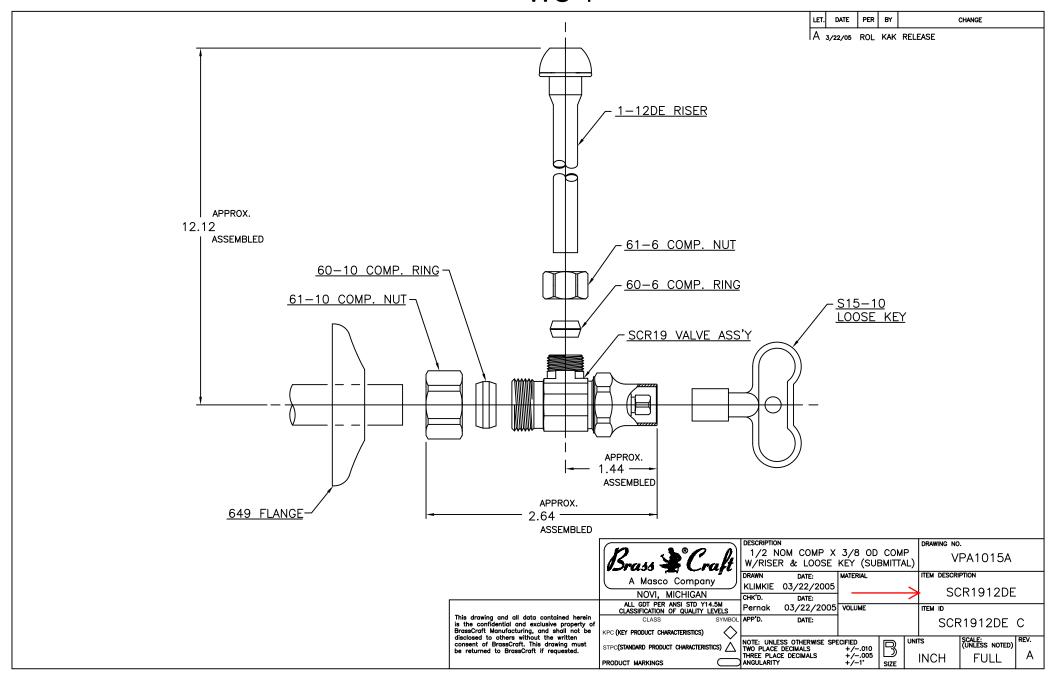
Mounts like any toilet seat-no need to find "correct" bolt spacing before installing seat



With bolt cap covers lifted up, seat easily "snapsoff" and snaps back on with little effort



With bolt cap covers in place, seat cannot be removed



SUPERSEDED OR VOID DATA

WE CAN ASSUME NO RESPONSIBILITY FOR USE OF

4

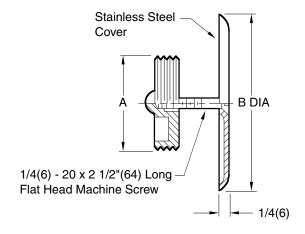


LOCATION

## **CLEANOUT PLUGS AND COVERS**

## TAPER THREAD PLUG WITH ROUND COVER

**FUNCTION:** Used in Female Pipe Size openings in Drainage piping where a cleanout is required. Countersunk plugs have slot sized to receive 1/2"(13) thick steel bar stock. Face-of-wall cover is desirable on finished walls.



#### COUNTERSUNK PLUG

Fig. 4470T . . . . LESS COVER AND SCREW
Fig. 4472T . . . . . WITH COVER AND SCREW

Α	В
SIZE	DIA
0150(40), 02(50), 0250(65)	4 1/4(110)
03(80), 0350(90), 04(100)	5 1/2(140)
05(125)	7(180)
06(150)	9 1/4(235)
08(200), 10(250)	11 1/4(285)

**NOTE:** Dimensions shown in parentheses are in millimeters.

#### **REGULARLY FURNISHED:**

Cast Bronze Taper Thread Plug with Stainless Steel Round Cover and Screw as indicated by Figure Number.

#### **VARIATIONS:**

Longer Screw (Specify Length)
"T" Handle Plug -TP

Plug tapped 1/4"(6) - 20 Thread

#### OPTIONAL MATERIALS:

Polished Bronze Cover -PB
Prime Coated Steel Cover -PC
Stainless Steel Plug
(See Fig. 9775)

Vandal	Proof	Screw -U	

E D C B	1-11-96 7-27-94 6-15-94 7-30-93	Added Millimeters Submittal Update Chg'd Title Redrawn, Chg Var & update form	EMB EMB EMB TWK	D.C.	_	VOLUME CUBIC FEET	FIGURE NUMBER 4470 4472
REV.	DATE	DESCRIPTION	BY	CKD. BY			1 17 0, 1 17 2

AND CHANGE WITHOUT NOTICE

#### WHA-1

#### WATER HAMMER ARRESTERS

650 & 660 series

Hydra-Rester<sup>™</sup> & Mini-Rester<sup>™</sup>

#### **SPECIFICATION**

Sioux Chief 650/660 Series piston-type water hammer arresters shall be required in piping systems. Water hammer arresters shall have sufficient volume of air to dissipate the calculated kinetic energy generated in the piping system. Arresters shall be effective when installed at any angle. Arresters shall be approved for installation with no access panel required. Water hammer arresters shall be ANSI/ASSE 1010 2004 certified. Arresters shall be sized and placed per manufacturer's instructions.

#### **MATERIALS**

arrester body: type L copper tube piston: poly piston with two EPDM o-rings male thread fitting: brass MIP thread

piston lubrication: Dow-Corning, 111 FDA approved silicone compound

#### **WORKING LIMITS\***

max working temperature: 250°F max working pressure: 350 PSIG burst tested: to 2,900 PSIG

\* PEX and CPVC connection specifications are limited to those called out in their respective ASTM Standards for Fittings (CPVC D2846, PEX F1807).

#### **INSTALLATION**

angle: May be installed at any angle access panels: No access panels required

#### **SIZING & PLACEMENT**

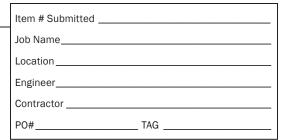
Refer to instructions on product package or in catalog.

#### **CERTIFICATIONS/APPROVALS**

650 series: Certified by ASSE to the ANSI/ASSE 1010 standard 660 series: Certified by ASSE to the ANSI/ASSE 1010 standard

#### **DIMENSIONS**

Arrester size	AA	Α	В	С	D	Ε	F
Overall height							
male sweat	3%"	61/2"	10"	12½"	11"	131/2"	16"
male thread	33/8"	81/4"	83/4"	11"	101/8"	125/8"	151/8"
CPVC	41/4"	7½"	91/2"	12"	_	_	_
PEX crimp	41/4"	6½"	83/4"	11"	_	_	_
Chamber width	7/8"	13/8"	13/8"	13/8"	21/8"	21/8"	21/8"
Connection size	1/2"	1/2"	3/4"	1"	1"	1"	1"
Volume (cu. in.)	1.4	5	7	11	20	29	36
Fixture units	1-4	4-11	12-32	33-60	61-113	114-154	155-330

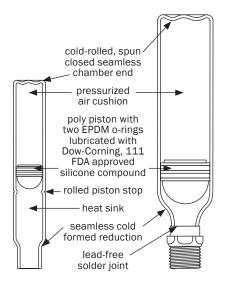






660-2B







	660-2B	AA size, MIP	─────── 653-B	B size, MIP	──────── 655-D	D size, MIP
	660-SB	AA size, sweat	□ 653-BS	B size, sweat	□ 655-DS	D size, sweat
	660-V82B	AA size, male CPVC	□ 653-BC	B size, CPVC socket	───── 656-E	E size, MIP
	660-X2B	AA size, PEX crimp	□ 653-BX	B size, PEX crimp	□ 656-ES	E size, sweat
$\rightarrow$	652-A	A size, MIP	——→ 654-C	C size, MIP	——→ 657-F	F size, MIP
	652-AS	A size, sweat	□ 654-CS	C size, sweat	□ 657-FS	F size, sweat
	652-AC	A size, CPVC socket	□ 654-CC	C size, CPVC socket		
	652-AX	A size, PEX crimp	□ 654-CX	C size, PEX crimp		

## LGV-1

# MECHANICAL FAUCETS 980-WS909AGVCP

# CHICAGO FAUCETS a Geberit company

#### **Ball Valves**

#### **Product Type**

Deck Mounted Single Ball Valves Turret with Single Ball Valve

#### **Features & Specifications**

- Single Ball Valves
- Full Flow Nozzle
- May Be Used with Most Laboratory Gases
- All Threaded Connections Factory Assembled
- 909 Valve is Certified for Gas Service per ANSI

Z21.15b-2006/CSA 9.1b-2006 by the Canadian Standards Association

#### **Performance Specification**

• Rated Operating Pressure: 0-0.5 PSI

#### Warranty

- Lifetime Limited Faucet Warranty
- 5-Year Limited Cartridge Warranty
- 1-Year Limited Finish Warranty

Job Name	
Item Number	
Section/Tag	
Model Specified	
Architect	
Engineer	
Contractor	
[ ] Submitted as Shown	[ ] Submitted with Variations
Date	





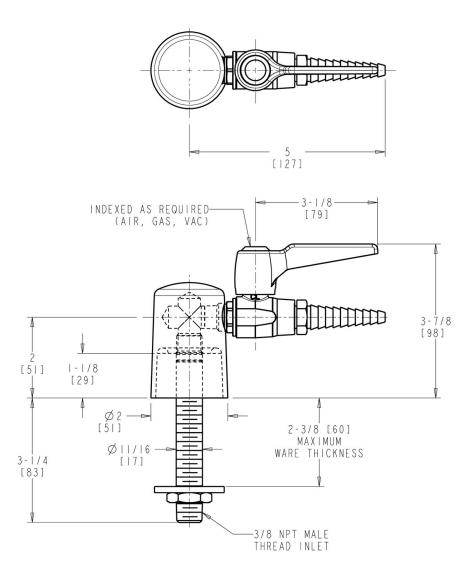
### 980-WS909AGVCP

### **Ball Valves**



### **Architect/Engineer Specification**

Chicago Faucets No. 980-WS909AGVCP, Deck Mounted Single Ball Valves Turret with Single Ball Valve, polished chrome plated solid brass construction Full Flow Laboratory Serrated Nozzle. May Be Used with Most Laboratory Gases. All Threaded Connections Factory Assembled. 909 Valve is Certified for Gas Service per ANSI Z21.15b-2006/CSA 9.1b-2006 by the Canadian Standards Association. Mounting hardware included.



#### **Operation and Maintenance**

Installation should be in accordance with local plumbing codes. Flush all pipes thoroughly before installation. After installation, remove spout outlet or flow control and flush faucet thoroughly to clear any debris. Care should be taken when cleaning the product. Do not use abrasive cleaners, chemicals or solvents as they can result in surface damage. Use mild soap and warm water for cleaning and protecting the life of Chicago Faucet products. For specific operation and maintenance refer to the installation instructions and repair parts documents that are located at <a href="https://www.chicagofaucets.com">www.chicagofaucets.com</a>.

Chicago Faucets, member of the Geberit Group, is the leading brand of commercial faucets and fittings in the United States, offering a complete range of products for schools, laboratories, hospitals, office buildings, food service, airports and sport facilities. Call 1.800.TECTRUE or 1.847.803.5000 Option 1 for installation or other technical assistance.



2100 South Clearwater Drive Des Plaines, IL P: 847/803-5000 F: 847/803-5454 Technical: 800/TEC-TRUE

www.chicagofaucets.com

## MECHANICAL FAUCETS LGV-2 980-WS909AGVCP



### **Ball Valves**

### **Product Type**

Deck Mounted Single Ball Valves Turret with Single Ball Valve

### **Features & Specifications**

- Single Ball Valves
- Full Flow Nozzle
- May Be Used with Most Laboratory Gases
- All Threaded Connections Factory Assembled
- 909 Valve is Certified for Gas Service per ANSI

Z21.15b-2006/CSA 9.1b-2006 by the Canadian Standards Association

### **Performance Specification**

• Rated Operating Pressure: 0-0.5 PSI

### Warranty

- Lifetime Limited Faucet Warranty
- 5-Year Limited Cartridge Warranty
- 1-Year Limited Finish Warranty

Job Name	
Item Number	
Section/Tag	
Model Specified	
Architect	
Engineer	
Contractor	
[ ] Submitted as Shown	[ ] Submitted with Variations
Date	



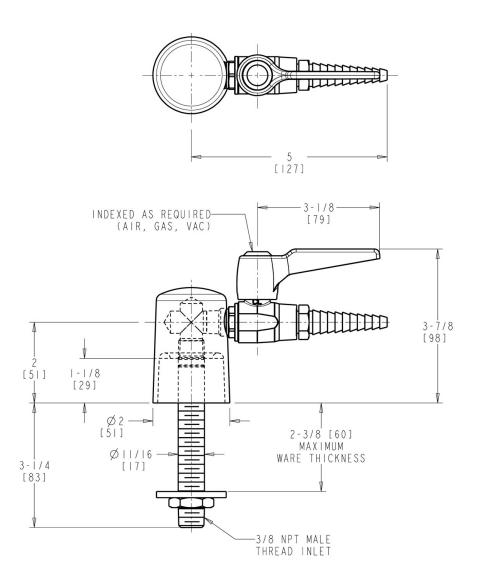


### **Ball Valves**



### **Architect/Engineer Specification**

Chicago Faucets No. 980-WS909AGVCP, Deck Mounted Single Ball Valves Turret with Single Ball Valve, polished chrome plated solid brass construction Full Flow Laboratory Serrated Nozzle. May Be Used with Most Laboratory Gases. All Threaded Connections Factory Assembled. 909 Valve is Certified for Gas Service per ANSI Z21.15b-2006/CSA 9.1b-2006 by the Canadian Standards Association. Mounting hardware included.



#### **Operation and Maintenance**

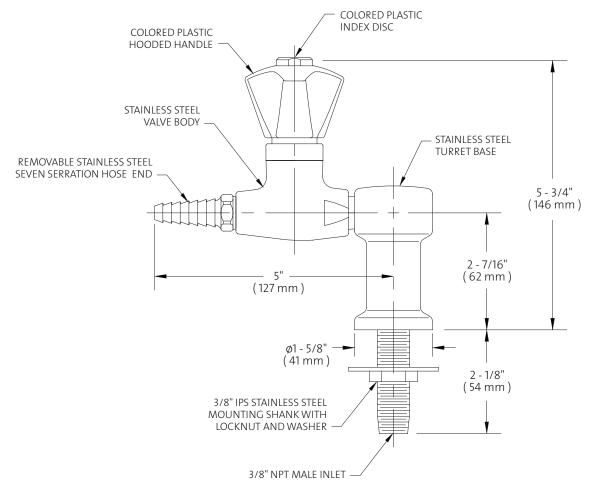
Installation should be in accordance with local plumbing codes. Flush all pipes thoroughly before installation. After installation, remove spout outlet or flow control and flush faucet thoroughly to clear any debris. Care should be taken when cleaning the product. Do not use abrasive cleaners, chemicals or solvents as they can result in surface damage. Use mild soap and warm water for cleaning and protecting the life of Chicago Faucet products. For specific operation and maintenance refer to the installation instructions and repair parts documents that are located at <a href="https://www.chicagofaucets.com">www.chicagofaucets.com</a>.

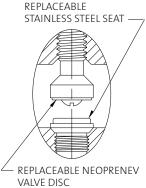
Chicago Faucets, member of the Geberit Group, is the leading brand of commercial faucets and fittings in the United States, offering a complete range of products for schools, laboratories, hospitals, office buildings, food service, airports and sport facilities. Call 1.800.TECTRUE or 1.847.803.5000 Option 1 for installation or other technical assistance.



2100 South Clearwater Drive Des Plaines, IL P: 847/803-5000 F: 847/803-5454 Technical: 800/TEC-TRUE

### ○ CT62800-6231WSA Pure Water Valve, Stainless Steel, Deck Mounted





#### Measurements may vary $\pm$ 1/4".

### NOTES:

- 1. VALVE BODY AND COMPONENT ARE TYPE 316 STAINLESS STEEL.
- 2. FIXTURE IS FACTORY ASSEMBLED AND TESTED AT 80 PSI. MAXIMUM WORKING PRESSURE IS 80 PSI.

© 2008 / WaterSaver Faucet Co.

# FORCE<sup>™</sup> 90

# WH-1 90% EFFICIENT

### **Power Vent Commercial Gas Water Heaters**

The 50-gallon, 76,000 BTU Force 90 light-duty commercial gas water heater is equipped with a fully submerged, spiral-shaped condensing heat exchanger. This design provides a much greater heat transfer surface than a standard straight flue tube, resulting in 90% thermal efficiency and higher hot water output than comparable 80% efficient water heaters. With 22" diameter, the 50-gallon Force 90 can be installed in less space than a 75-gallon unit and delivers greater recovery and lower operating costs.



Series 100

### Power Vent Design for Installation Versatility

- Modular blower, with 120 volt, 60Hz electrical system (5 amps or less), 6-foot cord with standard 3-prong connector
- Can be vented vertically thru-the-roof or horizontally thru-the-wall
- Combined horizontal and vertical vent runs terminating through outside wall, using PVC, CPVC or ABS pipe as follows:
  - 2" pipe allows vent runs up to 45 equivalent feet
  - 3" pipe allows vent runs up to 128 equivalent feet
- Supplied with PVC pipe and elbows to connect heat exchanger outlet to blower, including condensate elbow and drain
- PVC Vent Attenuation Assembly (VAA) supplied to help ensure extra-quiet operation
   Side-Mounted Taps for Recirculating Systems
- Hot and cold "side taps" allow Force 90 to be used for "combination" systems for water heating plus space heating, radiant floor heating or other applications requiring a recirculating hot water loop
- Plugs for recirculating taps are factory installed

#### Intelli-Vent®\* Gas Control with Silicon Nitride Hot Surface Ignitor

- Premium-grade hot surface ignitor eliminates standing pilot
- Electronic circuitry provides superior system diagnostic capabilities plus extremely precise temperature control
- 180°F maximum temperature setting

#### Glasslined Tank with Two Magnesium Anode Rods

- Provides superior protection against corrosion
- Glass lining protects all "water side" tank surfaces plus inside of internal heat exchanger exposed to condensate

#### Low NOx Green Choice® Burner

 Reduces NOx emissions up to 33% and meets low NOx emission requirements of less than 40 ng/j

### PEXAN™ Diffuser Dip Tube

- Helps reduce lime and sediment buildup, maximize hot water output
- PEXAN cross-link polymer withstands long-term exposure to temperatures up to 400°F
   CSA Certified and ASME Rated T&P Relief Valve

### Maximum Hydrostatic Working Pressure: 150 psi Compliance

- Design-certified by UL (Underwriters Laboratories) according to ANSI Z21.10.3-CSA4.3 standards governing storage-type water heaters
- Meets the thermal efficiency and standby loss requirements of the U.S. Department of Energy and current edition of ASHRAE/IESNA 90.1

#### Three-Year Limited Tank Warranty

- Consult written warranty shipped with water heater or contact State for complete warranty information
- \* Intelli-Vent is a registered trademark of the Emerson Electric Company

For more information on State® contact: State Water Heaters 500 Tennessee Waltz Parkway, Ashland City, TN 37015 800.365.0024 Toll-free USA www.statewaterheaters.com

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### WH-1

### **Power Vent Commercial Gas Water Heaters**

#### **SPECIFICATIONS**

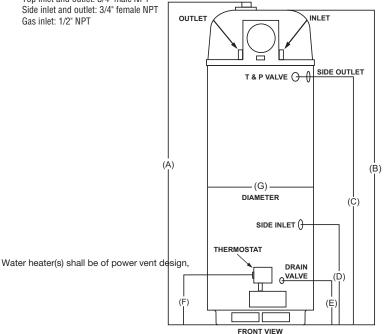
MODEL NUMBER	BTU INPUT PER	TANK SIZE	RECOVERY – GALLONS PER HOUR AT DEGREE RISE			SHIPPING WEIGHT
HOMBEN	HOUR	GALLONS	40°F	100°F	140°F	LBS.
	Hoon		22°C	56°C	78°C	
SHE50 76NE	76,000	50	206	83	59	210

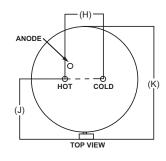
All models-Maximum Supply Pressure: 14 inches w.c. (3.48 kPa)
Minimum Supply Pressure Natural Gas: 5.0 inches w.c. (1.24 kPa); Minimum Pressure must be maintained under both load and no-load (static and dynamic) conditions Not available in Propane gas

#### **DIMENSIONS**

SHE50 76N	A	В	C	D	E	F	G	Н	J	K
INCHES	70-5/8	68-1/4	52	21	9-1/8	12	22	8	15-3/4	27

Top inlet and outlet: 3/4" male NPT Side inlet and outlet: 3/4" female NPT Gas inlet: 1/2" NPT





\* INSTALL IN ACCORDANCE WITH LOCAL CODES

#### SUGGESTED SPECIFICATION

Natural gas water heater(s) shall be State Force 90 model SHE50 76NE, with 90% thermal efficiency, a storage cap acity of 50 gallons, an input rating of 76,000 BTUs per hour, a recovery rating of 83 gallons per hour at 100°F rise and a maximum hydrostatic working pressure of 150 psi. This water heater is not available in Propane. Water heater(s) shall be of power vent design, using 2" or 3" PVC pipe for horizontal and/or vertical vent runs. Water heater(s) shall have: 1: Glasslined steel tank water heater(s) shall be of power verit design, using 2 of 3 PVC pipe for holizoital airch verit dus, water heater(s) shall have. It classified seet talk construction and a spiral-shaped heat exchanger placed entirely inside the tank, which shall be glasslined on the flue gas side to protect against acidic condensate.

2: An Intelli-Vent™ gas control system with silicon nitride hot surface ignitor. 3: A 3-year limited warranty against tank leaks. Water heater(s) shall meet the thermal efficiency and standby loss requirements of the U.S. Department of Energy and current edition of ASHRAE/IESNA 90.1 and be design-certified by UL (Underwriters Laboratories) according to ANSI Z21.10.3-CSA 4.3 standards governing storage tank water heaters.

For complete information on limited warranties, consult written warranty, or contact the State Customer Care Center, 1-800-365-0024.

State Industries. Inc. reserves the right to make product changes or improvements without prior notice.

Revised May 2012

For more information on State® contact: State Water Heaters 500 Tennessee Waltz Parkway, Ashland City, TN 37015 800.365.0024 Toll-free USA www.statewaterheaters.com

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### MODEL NC-1 'NeutraPal' CONDENSATE NEUTRALIZATION KIT

The 'NeutraPal' is ideal for neutralizing condensate from condensing boilers and furnaces operating on natural gas or propane.



The condensate is acidic and has the potential to harm the environment and the sewer system. The NeutraPal will raise the pH of the condensate to a more neutral level before it is discharged to drain.



### **FEATURES and BENEFITS**

- 1.6 Gal/hr (6.05l/hr)
- NeutraPal prevents acidic condensate from corroding drains and sewer systems
- *Neutralized condensate is more environmentally friendly*
- *Fast and easy installation*
- Helps maintain a neutral environment for bacteria in septic systems
- Low profile design for appliances with a near floor condensate drain
- *All corrosion resistant materials*
- Suitable for use on all types of Natural Gas and Propane appliances
- *Includes initial charge of LipHter neutralizing agent*
- Can be mounted in horizontal or vertical position (see installation instructions)
- \* Check with the appliance manufacturer for condensate flowrate. As a guideline 400,000 BTU/hr at 93% efficiency will produce approximately 1.6 Gal/hr.

AXIOM INDUSTRIES LIMITED 2615 WENTZ AVENUE SASKATOON, SK S7K 5J1 

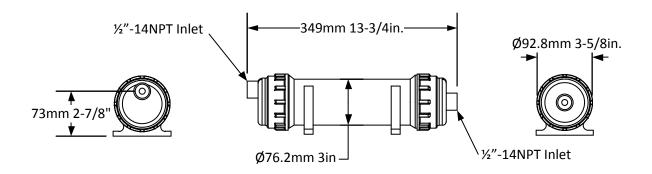


### NC-1 NEUTRALIZATION CAPSULE TECHNICAL INFORMATION

**WEIGHT** - 2 kg, 4.4 lbs.

### **SPECIFICATION**

The condensate neutralization capsule shall be AXIOM INDUSTRIES LTD. model NC-1. System shall include 1 litre (0.26 U.S. gallon) capsule made from of corrosion resistant materials with two 3" fill/access openings, 3" inlet and outlet screen, ½"-14NPT threaded inlet, ½"-14NPT threaded outlet, three ½" NPT to ½" hose barb fittings, ½" barbed Y fitting, six hose clamps, 10 ft of 1/2" ID vinyl tubing, two base/wall mounting clamps.



### **ACCESSORIES**

 $\square$  NM-1 – Replacement LipHter neutralization media

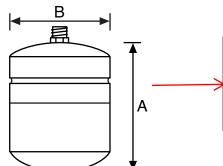


Project	Location
Consultant	Contractor
Unit Tag	Sales Agent



## THERM-X-TROL®

Thermal Expansion Absorbers, ST-Series (Non-ASME) 150 PSIG Working Pressure



### **In-Line Models**

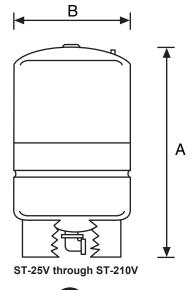
	Model No.	Tank Vol.		Max. A Accept. Height		Height				3 neter	Sys. Conn.	_	nip /t.
		Lit.	Gal.	Factor	cm	ins.	cm	ins.	NPTM	kg	lbs.		
≯	ST-5	8	2.0	0.45	321	12 <sup>5</sup> ⁄8	203	8	3⁄4	2.3	5		
	ST-8	12.1	3.2	0.59	381	15	229	9	3⁄4	3.2	7		
	ST-12	17	4.4	0.73	381	15	279	11	3⁄4	4.0	9		

### ST-5, ST-8, ST-12









### **Stand Models**

Model No.	Ta Vo		Max. Accept.	A Height		B Diameter		Sys. Conn.	Ship Wt.	
	Lit.	Gal.	Factor	cm	ins.	cm	ins.	NPTF	kg	lbs.
ST-25V	39	10.3	1.00	489	191⁄4	391	15¾	3⁄4	10.4	23
ST-30V	53	14.0	0.81	605	23 1/8	391	15¾	3⁄4	11.3	23
ST-42V	76	20.0	0.57	802	315⁄8	391	15¾	3⁄4	15.0	33
ST-60V	129	34.0	1.00	913	295/8	559	22	11⁄4	27.7	61
ST-80V	167	44.0	0.77	913	36	559	22	11⁄4	31.3	69
ST-180V	235	62.0	0.55	1186	46¾	559	22	11⁄4	41.7	92
ST-200V	306	81.0	0.41	1432	56¾	559	22	11⁄4	47.0	103
ST-210V	326	86.0	0.54	1199	471⁄4	660	26	11⁄4	55.8	123

### **Maximum Operating Conditions**

Operating Temperature	200°F (93°C)
Working Pressure	150 PSIG (10.5 bar)

### **Specifications**

Description	Standard Construction
Standard Factory Pre-charge	40 PSIG (2.8 bar)
System Connection	Stainless Steel
Diaphragm	Butyl
Liner Material	Polypropylene

All dimensions and weights are approximate. Complies with Low Lead Plumbing Law

Job Name	 Contractor
Location	 Contractor P.O. No.
	 Sales Representative
	 Model No. Ordered
Enginoor	



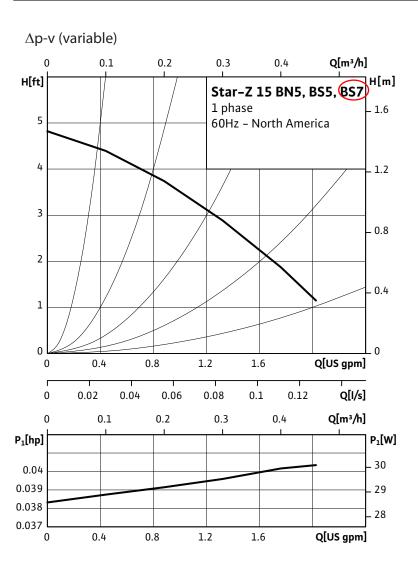
### WILO Z-15 Submittal

Z-15 BN5, Z-15 BS5, Z-15 BS7



Project:	
Engineer:	
Contractor:	
Submitted By:	Date:
Approved By:	Date:

Tag #	Model #	Flow	Head	Нр	Phase	Volt	RPM
				1/20	1	115	3100



#### **Applications**

Max Temp: 68°F to 150°F (20°C to 65°C) Max Ambient Temp: 105°F (40°C) 145 PSI (10 Bar) Max Working Press: Fluids: Domestic Hot Water **Heating Water** 

Water/Glycol up to 50%

#### **Materials of Construction**

Impeller: Plastic PPE (Noryl)

Shaft: Stainless Steel (X90 CrMo18)

Volute: Ecobrass

Bearing: Epoxy-impregnated Carbon

**Approval Stamp Here** 

WILO USA LLC 1290 N 25th Ave Melrose Park, IL 60160 Tel: (866) 945-6872 Fax: (708) 338-9455

www.WILO-USA.com

WILO Canada Inc. Bay 7-2915 10th Ave. NE Calgary, Alberta T2A 5L4 Tel: (866) 945-6236 Fax: (403) 277-9456

www.WILO-CDN.com

Literature Number: SD-Z15-0608



### WILO Z-15 Submittal

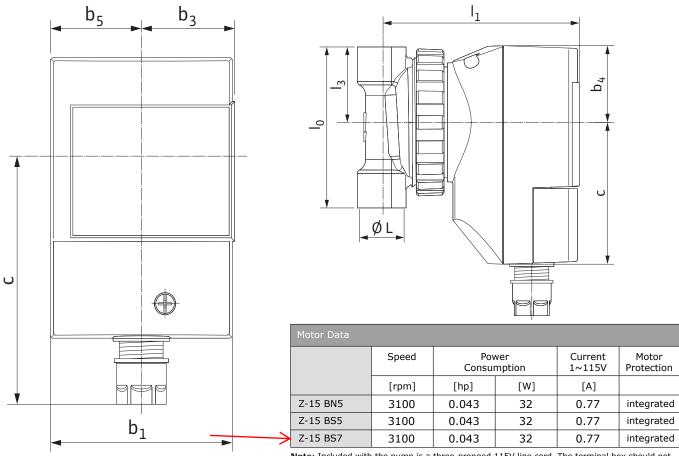
W/LO

Z-15 BN5, Z-15 BS5, Z-15 BS7

Pumpen Intelligenz.

Dimensions, weights	Dimensions, weights													
		Pipe Pump Connection Dimensions												
	Ø	L	I <sub>0</sub>		l <sub>1</sub>		l <sub>3</sub>		b <sub>1</sub>					
	[inch]	[mm]	[inch]	[mm]	[inch]	[mm]	[inch]	[mm]	[inch]	[mm]				
Z-15 BN5	½ FNPT	15	31/8	79	4 3/16	107	1 7/16	37	3 1/16	77				
Z-15 BS5	½ SWT	16	31/8	79	4 3/16	107	1 7/16	37	3 1/16	77				
Z-15 BS7	¾ SWT	22	31/8	79	4 3/16	107	1 7/16	37	3 1/16	77				

Dimensions, weights (continued)													
		Pump Dimensions										Weight Approx. net	
		b <sub>3</sub>		b <sub>4</sub>		b <sub>5</sub>		С		d			
		[inch]	[mm]	[inch]	[mm]	[inch]	[mm]	[inch]	[mm]	[inch]	[mm]	[lbs]	[kg]
	Z-15 BN5	1 9/16	40	1 9/16	40	11/2	39	2 15/16	74	4	101	4.10	1.86
	Z-15 BS5	1 9/16	40	1 9/16	40	11/2	39	2 15/16	74	4	101	4.03	1.83
•[	Z-15 BS7	1 9/16	40	1 9/16	40	11/2	39	2 15/16	74	4	101	4.14	1.88



 ${f Note}:$  Included with the pump is a three-pronged 115V line cord. The terminal box should not be opened for electrical connection.

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www.WILO-CDN.com

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Literature Number: SD-Z15-0608

### RCP-1

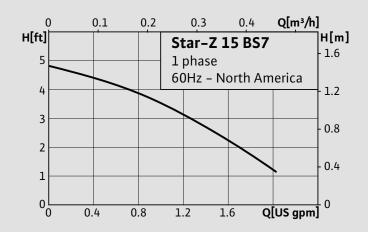
### WILO Z-15

### Domestic Hot Water Re-Circulation

The Wilo Z-15 is the pump of choice for instant hot water! Primarily used in secondary hot water systems, the Z-15 uses an NSF/ANSI 61 approved, lead-free bronze volute. With an optional timer, and magnetic drive design, your energy savings are maximized. Using the Jet Connect fitting package included with the circulator, installation is a breeze no matter what type of pipe connection you need! Practical? We call it Pumpen Intelligenz.



- Compact Design
- NSF/ANSI 61 approved, lead-free bronze volute
- 115v power cord included
- Magnetic drive design
- Jet Connect fitting pack included
- Optional digital timer available
- Conserves energy and water
- Safe and quick installation



### Includes Jet Connect Fitting Pack



- Two (2) 1/2" SW x FNPT
- Two (2) 34" SW x FNPT
- Two (2) 34" SW x 1/2" SW Reducing Bushings
- Two (2) 3/4" Street Hub Copper Unions

Optional Digital Timer Available!



timer sold separately

- Weekly digital timer
- Large LCD display
- Conserve energy



**Never miss your connection again!** 

**WILO USA LLC** 1290 N 25th Ave. Melrose Park, IL 60160

Toll Free: 866-WILO-USA Web: www.wilo-usa.com Email: info@wilo-usa.com



