





"Your Green Heating & Cooling Professionals  
Dedicated to Serving Your and Your Community"

## **Plumbing Submittals**

**Asian Health & Service Center  
9005 SE Foster Rd.  
Portland, OR 97266**

**General Contractor  
O'Neill / Walsh Community Builders  
2905 SW First Avenue  
Portland, OR 97201**

**Submitted By  
Andersen Mechanical  
16285 SW 85<sup>th</sup> Ave, Suite 410  
Tigard, OR 97224**

*Andersen Mechanical – 16285 SW 85<sup>th</sup> Ave, Suite 410 – Tigard, OR 97224 (503)992-6664  
WA License ANDERH1936QL : OR CCB 168214 : OR Plumbing License PB1464  
MBE Certification #8561*



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## Plumbing Submittal Index

22 05 00 Common Materials and Methods

22 07 00 Plumbing Insulation

22 10 00 Plumbing Piping and Pumps

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22\_40\_00

Plumbing Fixtures



## For Commercial Applications

Job Name \_\_\_\_\_ Item Designation \_\_\_\_\_

Job Location \_\_\_\_\_ Contractor \_\_\_\_\_

Engineer \_\_\_\_\_ Representative \_\_\_\_\_

Wall Thickness: \_\_\_\_\_ Inlet: P\_\_ C\_\_ (P1\_\_ EP\_\_ **MADE TO ORDER, NO RETURN**) Finish: CH\_\_ BR\_\_ PB\_\_

# Woodford Model 67 Backflow Protected Automatic Draining Freezeless Wall Hydrant

The Model 67 is an automatic draining, freezeless wall hydrant with hose connection Backflow Protection. The hydrant drains as handle is shut off, *even if hose is attached*. The Model 67 is intended for irrigation purposes and is designed to blend in with modern architecture for installation on restaurants, schools, office buildings, churches, apartments, motels, stores, shopping centers and industrial buildings.


**Sizes:** 4" - 24" (in 2" increments)  
CC (Close Coupled) for non-freezing climates

### Features:

- Drain port under nozzle diverts water away from building
- Red Brass head & valve body
- 3/8" solid brass operating rod
- Copper casing tubes
- Hardened stainless steel operating stem
- One piece valve plunger
- 4 inlet options
- Loose tee key operation
- No Lead Solder - All joints
- Supplied with adjustable wall clamp

### Specifications:

#### PATENTED HIGH FLOW DOUBLE CHECK BACKFLOW PREVENTER

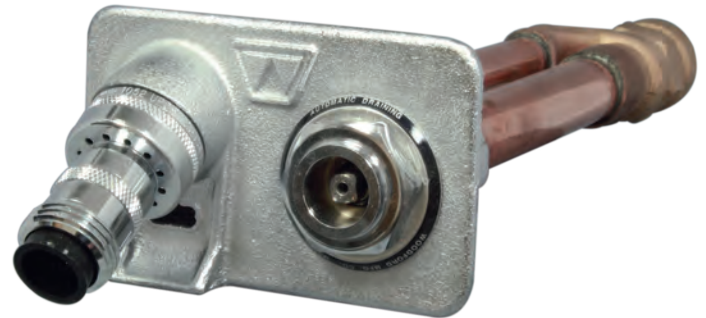
- NIDEL® Model 50HA with 3/4 inch male hose thread
- ASSE Standard 1052 approved 
- Field Testable
- Two Independent Check Valves
- Drains automatically when hose is removed
- No spray back

• **Maximum Working Pressure:** 125 p.s.i.

• **Maximum Temperature:** 120° F

### Specify as follows:

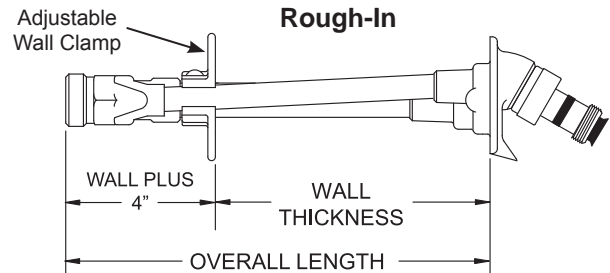
Wall hydrant shall be Woodford Model 67, automatic draining with ASSE 1052 approved NIDEL® Model 50HA high flow double check backflow preventer. 3/4" inlet and outlet (specify type of inlet). Hardened stainless steel operating stem and one-piece valve plunger to control both flow and drain functions. Exterior finish to be Chrome Plated (options: Polished Brass or Rough Brass). Loose tee key to be furnished with each hydrant. Intended for irrigation purposes. Wall thickness to be \_\_\_\_\_ inches.



### Exterior Finish:

Standard - Chrome (CH)

Optional - Brass (BR) Polished Brass (PB)  
Fits one standard modular brick course.



Overall Length = Wall Thickness + Inlet  
Close Coupled Overall Length = 5"

### Inlet Options

- P - 3/4" Female Pipe Thread
- P1 - 1" Male Pipe Thread
- C - 3/4" Copper Water Tube
- EP - Union Elbow with 3/4" Male Pipe Thread



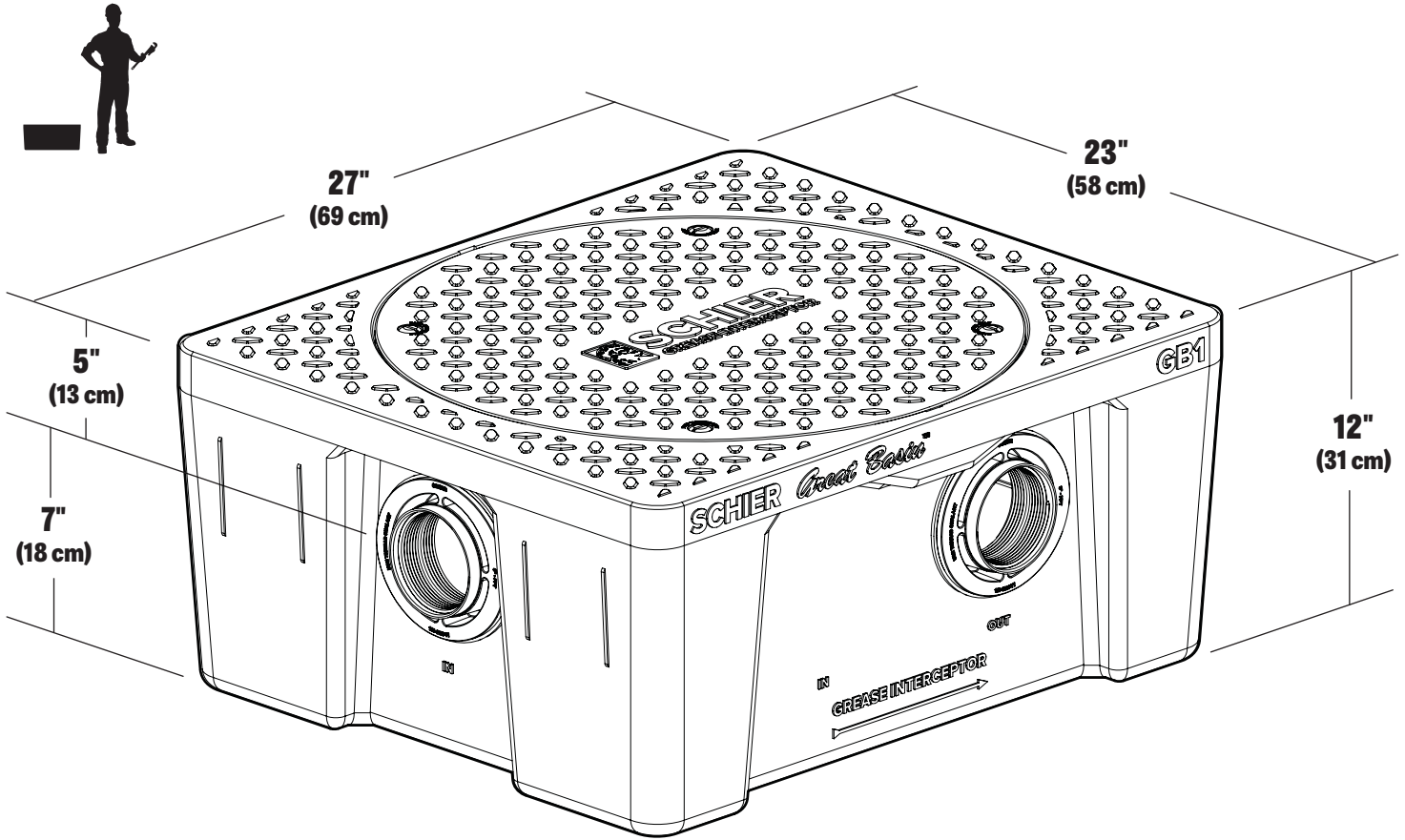
### WOODFORD MANUFACTURING COMPANY

2121 WAYNOKA ROAD  
COLORADO SPRINGS, CO 80915  
Phone (800) 621-6032 Fax (800) 765-4115  
Website: [www.woodfordmfg.com](http://www.woodfordmfg.com)  
Email: [sales@woodfordmfg.com](mailto:sales@woodfordmfg.com)

# GB1

20/25 GPM  
grease interceptor

# Specification and Submittal



## SUBMITTAL

### Standard

**Location:** indoor

**Installation:** above/below grade

**Flow Rates / Grease Capacities:**  
20 GPM (1.3 L/s) / 70 lbs. (31.8 kg)  
25 GPM (1.6 L/s) / 64.9 lbs. (29.4 kg)

**Liquid Capacity:** 10 gal. (37.9 L)

**Weight:** 39 lbs. (17.7 kg)

**Connections:** 3" (75 mm) FPT inlet/outlet  
with 3" x 2" (75 mm x 50 mm) FPT fittings

**Cover:** bolted gas/water tight polypropylene  
with 450 lb. load rating, or 1,000 lb. when unit is  
buried with FCR1 riser

### Options

- FCR1 (x1):** > 2-1/8" - 12" field cut riser
- FCR1 (x2):** > 12" - 24" field cut risers
- CC1:** membrane clamping collar kit  
(requires FCR1 riser)
- PPI:** pumpout port kit

### Approval

Signature:	Date:	Company:
Specifying Engineer:	Engineering Firm:	



**SCHIER**  
LIFETIME GUARANTEED  
GREASE INTERCEPTORS

MODEL NUMBER:  
**GB1**

DESCRIPTION: 20/25 GPM Polyethylene Grease Interceptor

PART #: 4060-001-01

DWG BY: B. Karrer

DATE: 4/18/2017

REV:

ECO:

# SPECIFICATION

## Notes

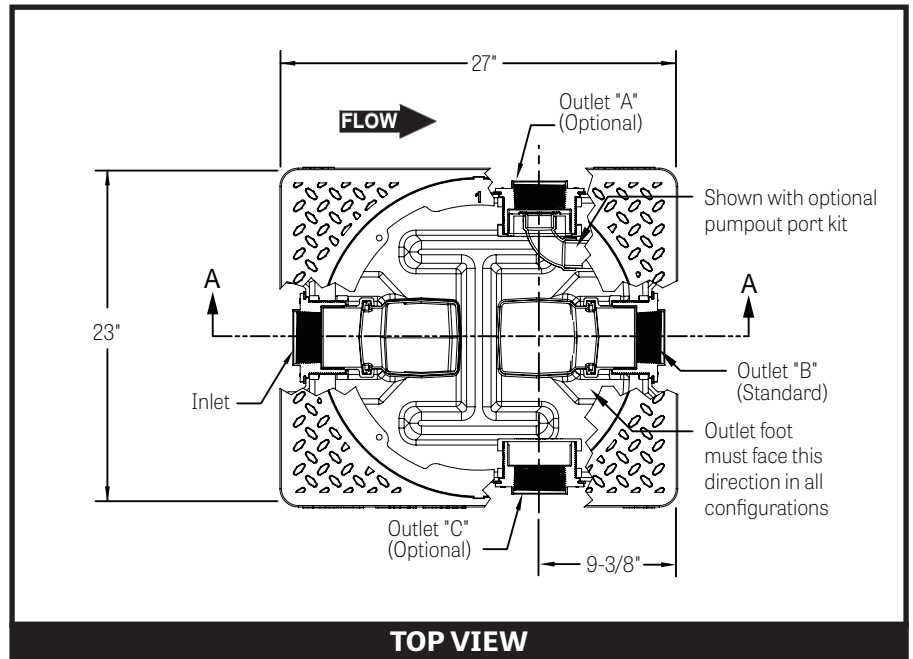
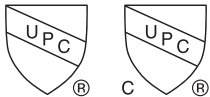
- 3" FPT inlet/outlet with 3"x2" FPT fittings.
- Unit weight - 39 lbs. (wet weight 123 lbs.)
- Capacities - Liquid: 10 gal.  
 @20 GPM- Grease: 70 lbs. (9.6 gal.)  
 @25 GPM- Grease: 64.9 lbs. (8.9 gal.)
- Built-in flow control.
- For gravity drainage applications only.
- Do not use for pressure applications.
- Cover placement allows full access to tank for proper maintenance.
- Vent not required unless per local code.
- Engineered inlet and outlet diffusers are removable to inspect/clean piping.
- Integral air relief / anti-siphon.

## Engineer Specification Guide

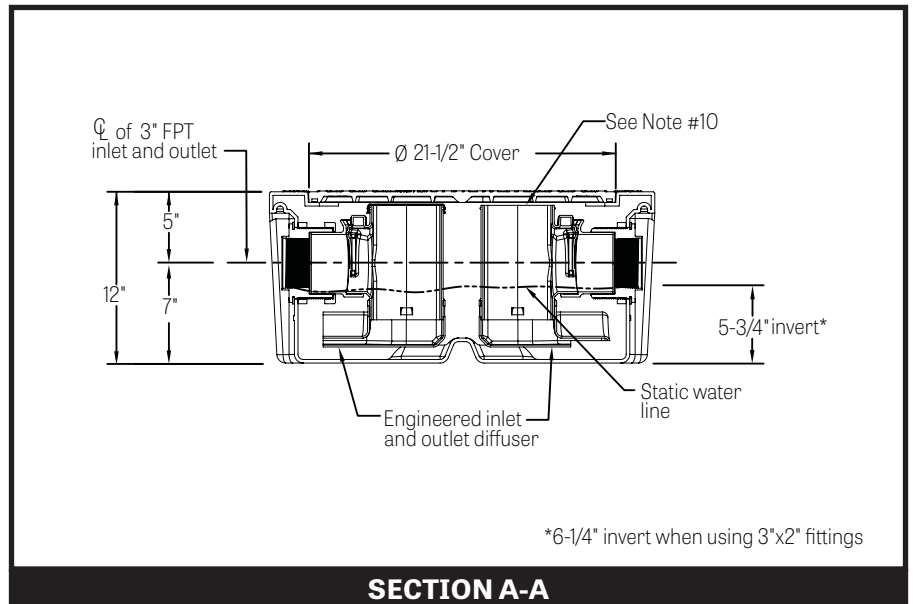
Schier Great Basin™ grease interceptor model # GB1 shall be lifetime guaranteed and made in USA of seamless, rotationally-molded polyethylene. Interceptor shall be furnished for above or below grade installation. Interceptor shall be certified to ASME A112.14.3 (type C) and CSA B481.1, with field cut riser system, built-in flow control, built-in test caps and three outlet options. Interceptor flow rate shall be 20 or 25 GPM. Interceptor grease capacity shall be 70 lbs. @ 20 GPM or 64.9 lbs. @ 25 GPM. Cover shall provide water/gas-tight seal and have minimum 450 lbs. load capacity.

## Certified Performance

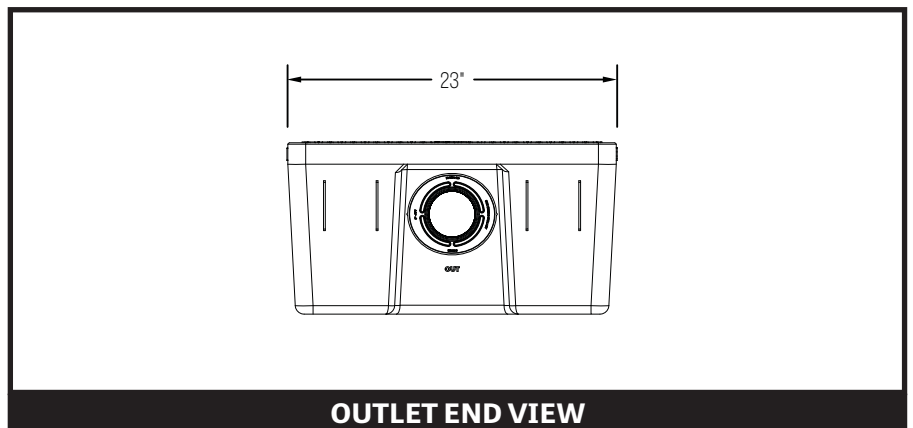
Great Basin™ hydromechanical grease interceptors are third party performance-tested and listed by IAPMO to ASME #A112.14.3 and CSA B481.1 grease interceptor standards and greatly exceed requirements for grease separation and storage. They are compliant to the Uniform Plumbing Code, the National Standard Plumbing Code, the National Plumbing Code of Canada, and the International Plumbing Code.



**TOP VIEW**



**SECTION A-A**



**OUTLET END VIEW**



**SCHIER**  
**LIFETIME GUARANTEED**  
**GREASE INTERCEPTORS**

**MODEL NUMBER:**  
**GB1**

**DESCRIPTION:** 20/25 GPM Polyethylene Grease Interceptor

**PART #:** 4060-001-01

**DWG BY:** B. Karrer

**DATE:** 4/18/2017

**REV:**

**ECO:**



**CONSOLIDATED  
SUPPLY CO.**

**PLUMBING • HEATING • WATER WORKS**

**PLUMBING FIXTURE  
SUBMITTAL PACKAGE**

JOB NAME:

***ASIAN HEALTH***

BID #:

**S8229441**

PREPARED FOR:

***ANDERSEN MECHANICAL***

DATE:

***MAY 16, 2017***

# ASIAN HEALTH

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BRASSCRAFT	OCR19X-C 1/2" X 38" COMP CP ANGLE STOP	27
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DEARBORN	DEARBORN 704-1 1-1/2" 17GA CP P-TRAP	66
BRASSCRAFT	OCR19X-C 1/2" X 38" COMP CP ANGLE STOP	67
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BRASSCRAFT	OCR19X-C 1/2" X 38" COMP CP ANGLE STOP	95
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# ASIAN HEALTH

GWH-1

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## For Residential, Commercial and Institutional Applications

Job Name \_\_\_\_\_

Job Location \_\_\_\_\_

Engineer \_\_\_\_\_

Approval \_\_\_\_\_

MFIA to verify- Does there need to be one valve per faucet? May we install one behind an access panel on each level?

Contractor \_\_\_\_\_

Approval \_\_\_\_\_

Contractor's P.O. No. \_\_\_\_\_

Representative \_\_\_\_\_

# LEAD FREE\*

## Series LFMMV Thermostatic Mixing Valves

Sizes: 1/2" – 1" (15 – 25mm)

Series LFMMV Thermostatic Mixing Valves maintain and limit mixed hot water to a desired, selectable temperature. The LFMMV series can be set to any temperature between 80°F and 120°F with flow rates as low as 0.5 gpm and as high as 12 gpm (refer to capacity chart on back). This mixing valve series is listed under ASSE 1017 for valves used in hot water source applications, ASSE 1069 for single-pipe, tempered water applications and ASSE 1070 for valves used in individual or multiple fixture applications and also listed IAPMO cUPC. The LFMMVs feature Lead Free\* construction to comply with Lead Free\* installation requirements.

The LFMMV-M1 uses a double throttling design to control both the hot and cold water supply to the mixed outlet. The superior flow characteristics of this valve provide accurate temperature control ( $\pm 3^\circ\text{F}$ ) with low pressure drop across the rated flow range. As an added feature, the LFMMV-M1 series incorporates integral inlet filter washers and check valves in both the hot and cold water inlets to protect against cross flow.

The LFMMV-M1 is available with either union thread (-UT), union solder (-US), CPVC (-CPVC) Quick-Connect (-QC) or PEX (-PEX) end connectors or w/press.

### Features

- Lead Free\* cast copper silicon alloy body construction
- Solid wax hydraulic principle thermostat assures dependable mixing of hot and cold water
- Thermostat controls both hot and cold water
- Solder, threaded, PEX or CPVC, Quick-Connect end connection or w/press
- Adjustment cap with locking feature
- ASSE 1017 listed
- ASSE 1069 listed
- ASSE 1070 listed
- IAPMO cUPC listed
- Integral filter washers and check valves

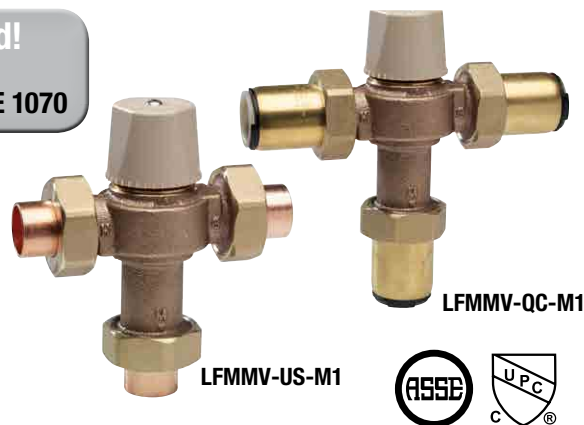
### Specifications

A Thermostatic Mixing Valve shall be installed on the hot water supply to fixture. The valve shall be ASSE 1017, ASSE 1069, ASSE 1070 and IAPMO cUPC listed. It shall have a Lead Free\* cast copper silicon alloy body. Lead Free\* thermostatic valves shall comply with state codes and standards, where applicable, requiring reduced lead content. The valve shall include integral filter washers and check valves and an adjustment cap with locking feature. The valve shall be provided with solder (-US), threaded (-UT), CPVC, (-CPVC) Quick Connect (-QC) or PEX (-PEX) or w/press union connections. The valve shall be a Watts Series LFMMV-M1.

\*The wetted surface of this product contacted by consumable water contains less than 0.25% of lead by weight.

Watts product specifications in U.S. customary units and metric are approximate and are provided for reference only. For precise measurements, please contact Watts Technical Service. Watts reserves the right to change or modify product design, construction, specifications, or materials without prior notice and without incurring any obligation to make such changes and modifications on Watts products previously or subsequently sold.

Triple Listed!  
ASSE 1017,  
ASSE 1069 & ASSE 1070



### Applications

The LFMMV-M1 Thermostatic Mixing Valves are ideal for supplying sinks, baths, showers or lavatories with tempered water. The LFMMV-M1 valves can be used in residential, commercial and institutional environments. These thermostatically modulated mixing valves can be used anywhere preset water temperature is required for point-of-use installations such as in homes, schools, restaurants, hospitals, beauty salons, and public restrooms. The LFMMV-M1 is provided with an adjustment cap that includes a locking feature.

The LFMMV-M1 valves should be used prior to the fixture to reduce the hot water supply to a safe temperature.

#### ⚠ WARNING

When used in an ASSE 1017 application at the hot water source, the Watts Thermostatic Mixing Valve Series LFMMV cannot be used by itself to control final temperature at fixtures where ASSE Standard 1016 or ASSE Standard 1070 listed devices are required. Such use may result in severe bodily injury (i.e. scalding or chilling) and/or death. ASSE Standard 1016, ASSE 1069 or ASSE Standard 1070 listed devices, such as Watts Series LFUSG, LFL111 or LFMMV, should be used at point-of-use to prevent possible injury. Consult all product manuals, and instruction guides before installing any referenced product.

Recirculation systems should recirculate water at temperatures over 140°F to reduce the risk of bacterial growth in the piping. This valve should not be used at the hot water source in recirculation systems.

#### ⚠ WARNING

Water temperatures in excess 110°F (43°C) are dangerous and may cause scalding, severe injury or death! This valve can be adjusted to deliver water at temperatures exceeding 110°F (43°C). Consequently, when used in an ASSE 1016, ASSE 1069 or ASSE 1070 application, the installer must check the mixed water outlet temperature at the point of use and adjust the Watts Thermostatic Mixing Valve Series LFMMV to ensure delivery of water at a safe temperature not exceeding 110°F (43°C). Mechanical valves are not fail-safe. Due to the effects of various water conditions, periodic verification of outlet water temperature is required.

## Materials

Body:	Lead Free* cast copper silicon alloy
Disc:	Stainless steel
Thermostat Assembly:	Copper
O-rings:	Buna-N; EPDM
Pistons:	Polysulfone (PSU)
Springs:	Stainless Steel

## Pressure — Temperature — Flow Rate

Minimum Supply Pressure Static: 30psi (207 kPa)  
 Inlet Temperatures: hot inlet, 120°F – 180°F (49°C – 82°C),  
 cold inlet, 39°F – 85°F (4°C – 29°C)  
 Hot Water Inlet to Outlet Differential Temperature: 5°F (3°C)  
 above set point  
 Temperature Out: Field range: 80°F – 120°F (27°C – 49°C),  
 adjustable. Accurate within ±3°F (1.7°C)  
 Maximum Temperature: 200°F (93°C)  
 Maximum Pressure: 150psi (1034 kPa)  
 Minimum Flow: 0.5 gpm (1.9 lpm) @ 0.8psi (0.55 kPa)†  
 Maximum Flow: 20 gpm (76 lpm) @ 125psi (862 kPa)†  
 Maximum Pressure Differential between Hot & Cold Water Supplies:  
 25%

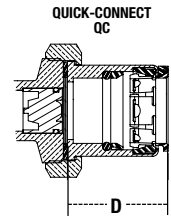
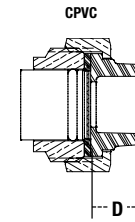
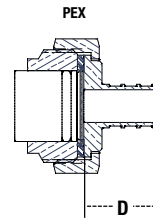
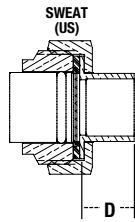
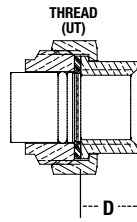
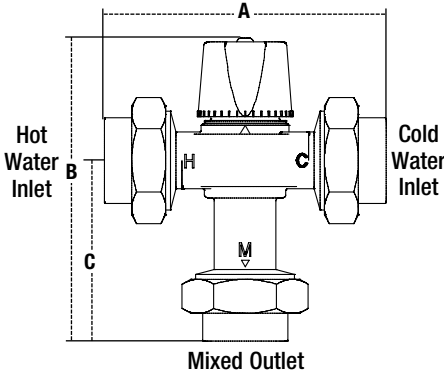


Listing: ASSE 1017, ASSE 1069, ASSE 1070 and IAPMO cUPC

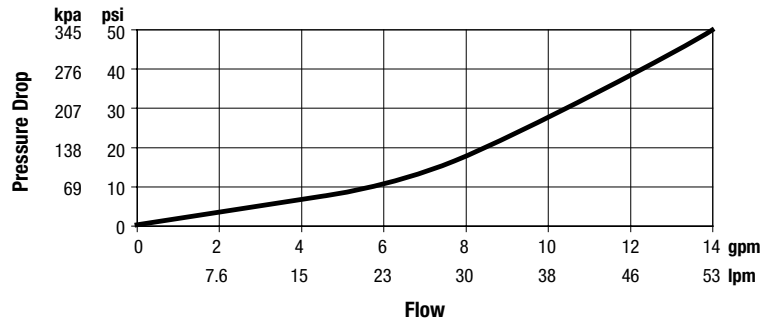
† When tested in accordance with ASSE 1017, ASSE 1069 & ASSE 1070

Viega Pro-Press™ connections are optional factory installed fitting on each end of the approved/certified assembly.

## Dimensions — Weights

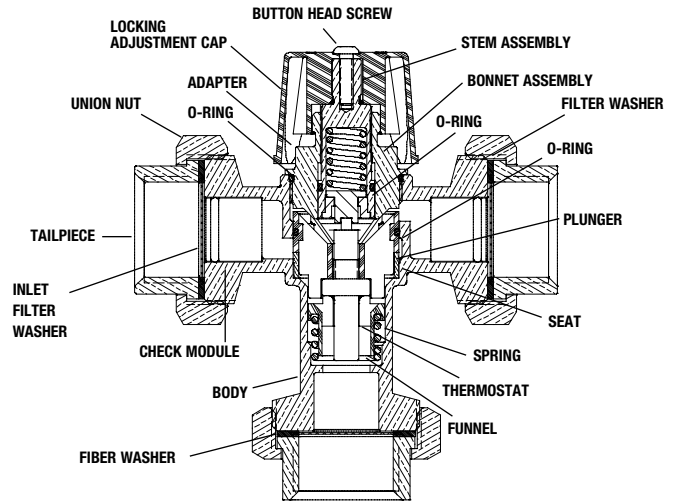


## Capacity\*\*



**Flow**  
 Flow curves are for reference. Actual flows may vary depending on system temperatures and/or pressures.  
 \*\*Flow curve with integral inlet filters and check valves

## Basic Construction



SIZE (DN)		MODEL	DIMENSIONS								WEIGHT	
in.	mm		A		B		C		D		lbs.	kg.
			in.	mm	in.	mm.	in.	mm	in.	mm		
1/2	15	LFMMV-UT-M1	4 7/8	124	5 7/16	137	3 3/16	80	5/8	16	1.8	0.8
3/4	20		4 7/8	124	5 7/16	137	3 3/16	80	5/8	16	2.4	1.1
1	25		5 5/16	135	5 5/8	143	3 3/8	86	3/4	20	3.0	1.4
1/2	15	LFMMV-US-M1	4 13/16	123	5 3/8	137	3 1/8	80	5/8	15	1.7	0.8
3/4	20		5 5/16	135	5 5/8	143	3 3/8	86	7/8	22	2.3	1.0
1	25		5 13/16	148	5 7/8	149	3 5/8	92	1 1/8	28	2.9	1.3
1/2	15	LFMMV-PEX-M1	5 1/4	133	5 9/16	142	3 3/16	85	1 3/16	21	1.8	0.8
3/4	20		5 1/2	140	5 1 1/16	145	3 3/16	88	1 5/16	24	2.5	1.1
1	25		5 7/8	149	5 7/8	150	3 3/8	93	1 1/8	29	3.1	1.4
1/2	15	LFMMV-CPVC-M1	4 3/4	121	5 5/16	136	3 1/16	79	9/16	14	1.6	0.7
3/4	20		5 1/4	133	5 9/16	142	3 3/16	85	1 3/16	21	2.2	1.0
1	25		5 1 1/16	144	5 13/16	147	3 3/16	90	1	26	2.6	1.2
1/2	15	LFMMV-QC-M1	6 5/8	168	6 1/4	159	4	102	1 1/2	38	2.1	0.9
3/4	20		6 13/16	177	6 1/16	163	4 3/16	106	1 11/16	42	2.8	1.3
1	25		7 1/8	181	6 1/2	165	4 1/4	108	1 3/4	44	3.5	1.6

Note: Consult factory for dimensions w/press



USA: Tel: (978) 689-6066 • Fax: (978) 975-8350 • Watts.com

Canada: Tel: (905) 332-4090 • Fax: (905) 332-7068 • Watts.com

Latin America: Tel: (52) 81-1001-8600 • Fax: (52) 81-8000-7091 • Watts.com



## Commercial eF Series® Ultra High Efficiency Energy Saver Gas Water Heater



Photo is of  
EF-60T-199E-3N

### FEATURING:



### 3 or 5-Year Limited Tank Warranties / 1-Year Limited Warranty on Component Parts.

For more information on warranty, please visit [www.bradfordwhite.com](http://www.bradfordwhite.com)

For products installed in USA, Canada and Puerto Rico. Some states do not allow limitations on warranties. See complete copy of the warranty included with the heater.

#### The eF Series® Models feature:

- **Thermal Efficiency up to 99.1%**—Ultra High Efficiency results in less fuel consumption and greater hot water recovery.
- **ICON HD™**—Intelligent proven design combines temperature control, diagnostic codes, and system ignition functions into a single control board with a digital LCD display.
- **ENERGY STAR® Models Available**—EF60T125 & EF100T (150,199,250,399) Models.
- **Factory Installed Hydrojet® Sediment Reduction System**—Cold water inlet sediment reducing device helps prevent sediment build up in the tank.
- **Direct Spark Ignition**—For improved operational dependability and durability.
- **Operation Mode**—Two different digitally displayed operation modes have the capability of adjusting the temperature setting up to 180°F (82°C), and adjusting the degree setting (°F to °C, or °C to °F).
- **Service Mode**—Eight different digitally displayed service screens can be easily cycled through by pressing the select button. There is the capability of adjusting the temperature setting up to 180°F (82°C), adjusting the degree setting (°F to °C, or °C to °F), locking the maximum temperature setting that can be adjusted in operation mode, displaying the temperature sensor reading, displaying the flame current, and displaying diagnostic codes.
- **Premix Power Burner**—A self compensating negative regulation system automatically increases or decreases fuel flow when a change in combustion air is detected. This provides the range for optimum combustion and efficiency (automatic high altitude compatibility).
- **Flexible Venting**—The eF Series® can vent vertically or horizontally with either 2", 3" or 4" PVC, CPVC or ABS (not approved for Canada) vent pipe, and is approved for direct vent closed combustion applications, or those applications that require inside air for combustion. Foam Core pipe is permitted on the entire venting system. The eF Series® is also approved for unbalanced venting, which means the air intake pipe doesn't have to be vented the same distance as the exhaust.
- **Ultra Quiet Operation.**
- **A Single Exhaust Pressure Switch.**
- **1" NPT Side Connections for Space Heating.**
- **Sanitizing Capability**—Temperature setting up to 180°F (82°C).
- **Complies with the latest ultra-low NOx requirement (14 ng/J NOx limit).**
- **ASME Code Available on All Models.**
- **NSF Construction Available.**
- **T&P Relief Valve**—Installed.
- **Low Restrictive Brass Drain Valve**—Durable tamper proof design.

MANUFACTURED UNDER ONE OR MORE OF THE FOLLOWING U.S. PATENTS: 6,682,666; 7,634,976; 5,660,165; 5,954,492; 6,056,542; 6,935,280; 5,372,185; 5,485,879; 5,574,822; 7,971,560; 7,992,526; 6,684,821; 6,442,178; 7,334,419; 7,866,168; 7,270,087; 7,007,748; 5,596,952; 6,142,216; 7,699,026; 5,341,770; 7,337,517; 7,665,211; 7,665,210; 7,063,132; 7,063,133; 7,559,293; 7,900,589; 5,943,984; 8,082,888; 5,988,117; 7,621,238; 7,650,859; 5,761,379; 7,409,925; 5,277,171; 8,146,772; 7,458,341; 2,262,174. OTHER U.S. AND FOREIGN PATENT APPLICATIONS PENDING. CURRENT CANADIAN PATENTS: 2,314,845; 2,504,824; 2,108,186; 2,143,031; 2,409,271; 2,548,958; 2,112,515; 2,476,685; 2,239,007; 2,092,105; 2,107,012. eF Series®, Vitraglas® and Hydrojet® are registered trademarks of Bradford White® Corporation.

800-B-0414-A



# Commercial Gas High Efficiency Water Heater

## eF Series® Additional Equipment Features:

**Three Pass Heat Exchanger System**—The three pass Heat Exchanger system keeps the hot combustion gases moving at a high velocity. The combination of high turbulence and velocity causes an enormous rate of heat transfer into the water.

**Submerged Combustion Chamber**—Submerging the combustion chamber in the center of the water storage tank minimizes radiant heat loss and improves efficiency.

**Zero Inch Clearance**—The eF Series® jacket is cool to the touch and is approved for zero inch clearance to combustibles for unsurpassed installation flexibility.

**Vitraglas® Lining**—Bradford White tanks are lined with an exclusively engineered enamel formula that provides superior tank protection from the highly corrosive effects of hot water. This formula (Vitraglas®) is fused to the steel surface by firing at a temperature of over 1600°F (871°C).

**Magnesium Anode Rods**—Each eF Series® model has multiple anodes to provide added protection against corrosion for long trouble-free service (EF100T399 has one powered anode rod and 2 magnesium anode rods).

**Factory Installed Hydrojet® Sediment Reduction System**—Cold water inlet sediment reducing device helps prevent sediment build up in tank.

**Water Connections**—Factory installed true dielectric waterway fittings extend water heater life and eases installation.

**Hand Hole Cleanout**—Allows inspection of tank interior and facilitates the removal of sediment deposits.

**E.C.O.**—A manual re-set Energy Cut Off (E.C.O) shuts off all gas in event of an overheat condition. The ECO is manually resettable.

**Non-CFC Foam Insulation**—Covers the sides and top of tank, reducing the amount of heat loss. This results in less energy consumption, improved operation efficiencies and jacket rigidity.

2" Vent Pipe	EF-60T-125		EF-60T-150 EF-100T-150		EF-60T-199 EF-100T-199					
	Power Direct Vent	Power Vent	Power Direct Vent	Power Vent	Power Direct Vent	Power Vent				
Max. Intake Length	15 ft.	N/A	15 ft.	N/A	15 ft.	N/A				
Max. Exhaust Length	15 ft.	30 ft.	15 ft.	30 ft.	15 ft.	30 ft.				

3" Vent Pipe	EF-60T-125 EF-100T-150		EF-60T-150 EF-100T-199		EF-60T-199 EF-100T-250		EF-100T-300		EF-100T-399	
	Power Direct Vent	Power Vent	Power Direct Vent	Power Vent	Power Direct Vent	Power Vent	Power Direct Vent	Power Vent	Power Direct Vent	Power Vent
Max. Intake Length	60 ft.	N/A	50 ft.	N/A	40 ft.	N/A	30 ft.	N/A	25 ft.	N/A
Max. Exhaust Length	60 ft.	120 ft.	50 ft.	100 ft.	40 ft.	80 ft.	30 ft.	60 ft.	25 ft.	50 ft.

4" Vent Pipe	EF-60T-125 EF-100T-150		EF-60T-150 EF-100T-199		EF-60T-199 EF-100T-250		EF-100T-300		EF-100T-399	
	Power Direct Vent	Power Vent	Power Direct Vent	Power Vent	Power Direct Vent	Power Vent	Power Direct Vent	Power Vent	Power Direct Vent	Power Vent
Max. Intake Length	85 ft.	N/A	75 ft.	N/A	65 ft.	N/A	55 ft.	N/A	50 ft.	N/A
Max. Exhaust Length	85 ft.	170 ft.	75 ft.	150 ft.	65 ft.	130 ft.	55 ft.	110 ft.	50 ft.	100 ft.

Air intake cannot exceed exhaust by more than 30 ft. in any venting situation. Subtract 5 ft. for each additional 90° elbow.

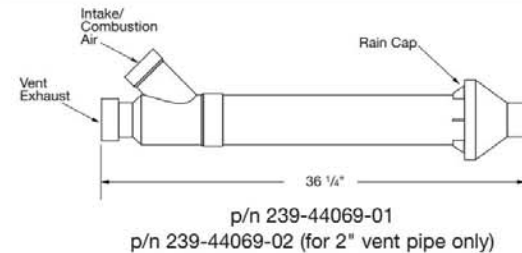
## eF Series® Optional Equipment Features:

**Maxitrol Gas Pressure Regulating valve**—Ensures proper supply pressure to eF unit of 7" to 11" W.C. (provided incoming pressure is between 1/2 and 2 psi). This can be ordered as a separate part, or as part of the heater. For the separate part, please use p/n 243-45517-00. Part is included with EF100T399 model.

**NSF Compliance Kit**—p/n 265-44542-04.

**Low Gas Inlet Pressure Option**—Pre-assembled to allow operation at lower inlet natural gas pressure (down to 3.5" w.c.).

**Concentric Vent Kit Termination**—3" termination fitting provides for only one exit opening through wall or roof (p/n 239-44069-01).



# Commercial Gas High Efficiency Water Heater

## eF Series® Energy Saver Models

NATURAL GAS AND LIQUID PROPANE GAS

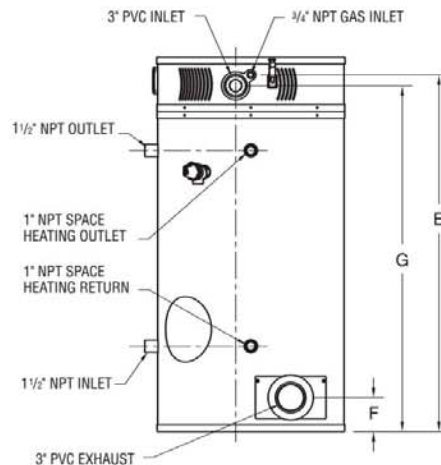
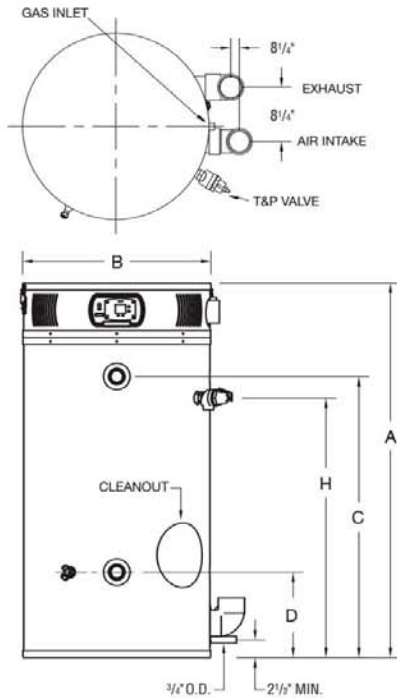
Meet or exceed ASHRAE 90.1b (current standard) C.E.C. Listed

Model Number	Capacity		Input		GPH Recovery at Degree Rise*			Therm. Eff. %	A Floor to Top of Heater in.	B Jacket Dia. in.	C Floor to Hot Water Conn. in.	D Floor to Cold Water Conn. in.	E Floor to Gas Conn. in.	F Floor to Vent Conn. in.	G Floor to Air Intake Conn. in.	H Floor to T&P Conn. in.	Water Conn. Dia. in.	Gas Conn. Dia. in.	Relief Valve Open in.	Approx. Shipping Weight lbs.
	U.S. Gal.	Imp. Gal.	Nat. BTU/Hr. Input	LP BTU/Hr. Input	40°F	100°F	140°F													
EF-60T-125E-3N(A)	60	50	125,000	125,000	364	145	104	96.0	57	28 1/4	42 1/2	12 1/8	53 1/2	5	52 1/2	40	1 1/2	3/4	3/4	570
EF-60T-150E-3N(A)	60	50	150,000	150,000	423	169	121	93.0	57	28 1/4	42 1/2	12 1/8	53 1/2	5	52 1/2	40	1 1/2	3/4	3/4	570
EF-60T-199E-3N(A)	60	50	199,999	199,999	558	223	159	92.0	57	28 1/4	42 1/2	12 1/8	53 1/2	5	52 1/2	40	1 1/2	3/4	3/4	570
EF-100T-150E-3N(A)	100	83	150,000	150,000	450	180	129	99.1	77 1/8	28 1/4	62 1/2	12 1/8	74 3/4	5	73 1/8	60	1 1/2	3/4	3/4	900
EF-100T-199E-3N(A)	100	83	199,999	199,999	597	239	171	98.5	77 1/8	28 1/4	62 1/2	12 1/8	74 3/4	5	73 1/8	60	1 1/2	3/4	3/4	900
EF-100T-250E-3N(A)	100	83	250,000	250,000	735	294	210	97.0	77 1/8	28 1/4	62 1/2	12 1/8	74 3/4	5	73 1/8	60	1 1/2	3/4	1	900
EF-100T-300E-3N(A)	100	83	300,000	300,000	836	335	239	92.0	77 1/8	28 1/4	62 1/2	12 1/8	74 3/4	5	73 1/8	60	1 1/2	3/4	1	900
EF-100T-399E-3N(A)	100	83	399,999	399,999	1127	451	322	94.0	77 1/8	28 1/4	63	13	74 1/4	5	73 1/8	60	1 1/2	1	1	950

Model Number	Capacity		Input		LPH Recovery at Degree Rise*			Therm. Eff. %	A Floor to Top of Heater mm.	B Jacket Dia. mm.	C Floor to Hot Water Conn. mm.	D Floor to Cold Water Conn. mm.	E Floor to Gas Conn. mm.	F Floor to Vent Conn. mm.	G Floor to Air Intake Conn. mm.	H Floor to T&P Conn. mm.	Water Conn. Dia. mm.	Gas Conn. Dia. mm.	Relief Valve Open mm.	Approx. Shipping Weight kgs.
	Liters		Nat. kW/Hr. Input	LP kW/Hr. Input	22°C	56°C	78°C													
EF-60T-125E-3N(A)	227		36.6	36.6	1378	549	394	96.0	1448	718	1087	327	1359	127	1334	1016	38	19	19	259
EF-60T-150E-3N(A)	227		43.9	43.9	1601	640	458	93.0	1448	718	1087	327	1359	127	1334	1016	38	19	19	259
EF-60T-199E-3N(A)	227		58.6	58.6	2112	844	602	92.0	1448	718	1087	327	1359	127	1334	1016	38	19	19	259
EF-100T-150E-3N(A)	379		43.9	43.9	1703	681	488	99.1	1972	718	1588	327	1899	127	1857	1524	38	19	19	408
EF-100T-199E-3N(A)	379		58.6	58.6	2260	905	647	98.5	1972	718	1588	327	1899	127	1857	1524	38	19	19	408
EF-100T-250E-3N(A)	379		73.2	73.2	2782	1113	795	97.0	1972	718	1588	327	1899	127	1857	1524	38	19	25	408
EF-100T-300E-3N(A)	379		87.9	87.9	3165	1268	905	92.0	1972	718	1588	327	1899	127	1857	1524	38	19	25	408
EF-100T-399E-3N(A)	379		117.2	117.2	4266	1707	1219	94.0	1972	718	1600	330	1861	127	1857	1524	38	25	25	431

For propane gas models change suffix "N" to "X" and remove "E" from the model number.  
**Example: EF-100T-150-3X**  
 (A) ASME - All models are available with ASME construction. To order ASME construction add the (A) to the end of the model number.  
**Example: EF-60T-125E-3NA**

**Note:** The weight is the same for both ASME and Non-ASME models.  
 All models comply with the latest ultra-low NOx requirements of 14 ng/J or less.  
 Amp Draw range = 1.0 to 1.8 amps.  
 14.0" w.c. maximum static, 4.5" w.c. minimum running (recommend 7.0" w.c. minimum running)



Note: Diagrams are for both 60 and 100 gallon models.

## Commercial Gas High Efficiency Water Heater

### Sample Specification

The water heater shall be a Bradford White model EF-\_\_\_\_\_ with a rated storage capacity of not less than \_\_\_\_\_ gallons/liters, a minimum gas input of \_\_\_\_\_ BTU/hr., a minimum recovery of \_\_\_\_\_ GPH/LPH at 100°F (56°C) temperature rise, and a Thermal Efficiency Rating of \_\_\_\_%. It shall be design certified by CSA International (formerly AGA and CGA) for 180°F (82°C) application, either with or without a separate storage tank. The tank shall be lined with Vitraglas® vitreous enamel and shall have a bolted hand hole cleanout. The tank shall have four extruded magnesium anode rods installed in separate head couplings. This water heater shall be equipped with stainless steel cold water inlet, Hydrojet® Sediment Reduction System. The heater shall be insulated with Non-CFC foam. This water heater shall be equipped with an electronic ignition system, an ASME rated T&P relief valve and a premix closed combustion system for direct venting using either 3" (76mm) or 4" (102mm) PVC, CPVC or ABS vent pipe. (115V AC required). The water heater shall be factory assembled and tested. The water heater shall be approved for zero inch clearance to combustibles. A digital LCD display shall be integrated into the front and be an adjustable electronic thermostat to any temperature up to 180°F. A recycling Energy Cut Off (E.C.O.) shuts off all gas in the event of an overheat condition. The entire installation shall be made in compliance with state and local codes and ordinances.

### General

All gas water heaters are certified at 300 PSI test pressure (2068 kPa) and 150 PSI working pressure (1034 kPa). All models are design certified by CSA International (formerly AGA/CGA), ANSI standard Z-21.10.3, for up to 180°F (82°C) application as an Automatic Storage Heater. As an Automatic Storage Heater, all models are complete, self-contained water heating systems. It needs no separate storage tank, pump, wiring or elaborate piping network. When equipped with a mixing valve, it will supply 180°F (82°C) sanitizing and lower temperature general purpose hot water simultaneously. These models can be used either as a single unit or in multiples connected in series or parallel (recommended).

*Dimensions and specifications subject to change without notice in accordance with our policy of continuous product improvement.*



Ambler, PA

For U.S. and Canada field service, contact your professional installer or local Bradford White sales representative.

Sales 800-523-2931 • Fax 215-641-1670 / Technical Support 800-334-3393 • Fax 269-795-1089 • Warranty 800-531-2111 • Fax 269-795-1089

International: Telephone 215-641-9400 • Telefax 215-641-9750 / [www.bradfordwhite.com](http://www.bradfordwhite.com)



BRADFORD WHITE-CANADA INC. Sales / Technical Support 866-690-0961 / 905-238-0100 • Fax 905-238-0105 / [www.bradfordwhite.com](http://www.bradfordwhite.com)

**Built to be the Best™**

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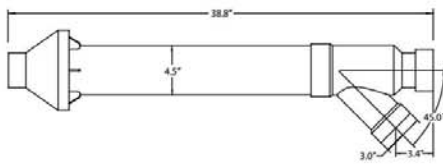


## Tankless Water Heater Accessories Specification Sheet 3" PVC Concentric Vent

- Made of PVC for use with our condensing, high-efficiency NRC98-DV, NCC199-DV, and NRC111-DV models only
- Compatible with Schedule 40 PVC/CPVC pipe and has two 3" connections for both intake and exhaust
- Concentric design allows for both intake and exhaust vents to be installed with a single wall penetration
- ULC-S636 approved for use in Canada



### Dimensions



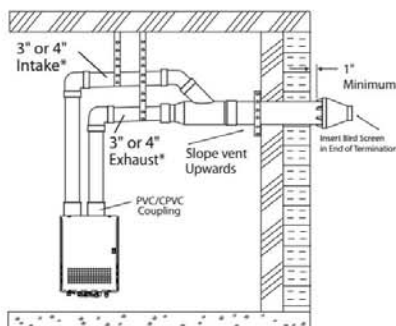
### PVC Concentric Vent Kit

- PVC Concentric Vent (#VK3-H-PVC)

### Compatible High-Efficiency Models

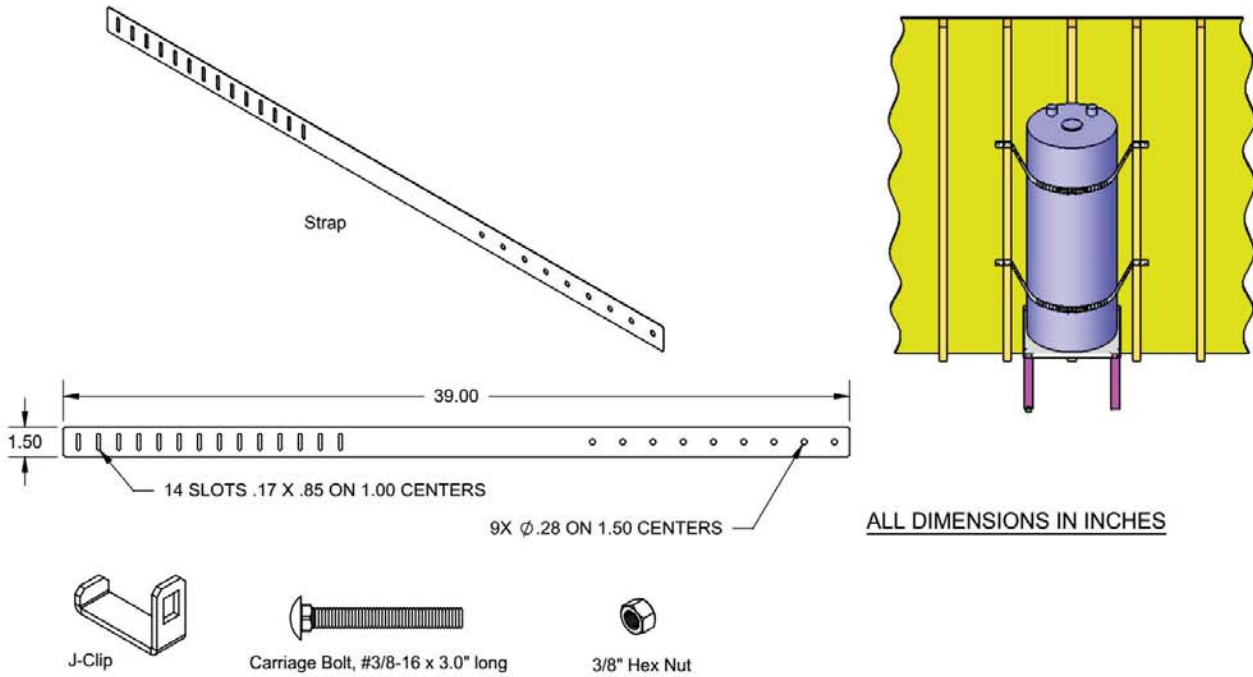
NRC98-DV  
NCC199-DV  
NRC111-DV

### Installation Example



\*4" pipe requires the use of a reducing coupling just prior to the termination.

**PRODUCT SPECIFICATION DRAWING**  
**QUICK STRAP® #QS-50**  
**Seismic support for water heaters**



The QUICK STRAP® #QS-50 is a seismic/earthquake support system for water heaters up to 80 gallons in size. The system includes: (4) Straps, (2) J-Clips, (2) 3/8" Carriage Bolts and (2) 3/8" Hex Nuts. The Quick Link® system allows for full adjustment from the front side of the water heater.

**Product Information:**

- Material: Strap, 24 gage CRS, galvanized
- California Division State Architect (DSA) approval #97-010
- UPC / IPC / IAPMO listed



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Product Submittal	
Job Name:	
Date:	
Part Number:	Qty:
Architect / Owner:	
Contractor:	
Notes:	

2560 PROGRESS STREET / VISTA, CA 92081 / 800-321-0316 OR 760-744-6944 / FAX: 760-744-0507 / WWW.HOLDRITE.COM  
 spec\_QS-50\_RevE

# ASIAN HEALTH

L-1

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*American  
Standard*

 BARRIER FREE

**LUCERNE™**  
**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
- Compliant with Texas accessibility standard (TAS) for children age group 13 and up

**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
- 0356.915** For wall hanger (included) or concealed arms support
  - Less overflow

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

- 0355.027** For exposed bracket support
- 0355.012** For wall hanger (included) or concealed arms support
- 0355.912** For wall hanger (included) or concealed arms support
  - Less overflow

**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
- 0356.921** For wall hanger (included) or concealed arms support
  - Less overflow
- 0356.439** For wall hanger (included) or concealed arms support
  - Single faucet hole on right
- 0356.066** For exposed bracket support
  - Single faucet hole on right

**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 / CSA B45.1 for Vitreous China Fixtures



**0356.028**



**0356.041**

SEE FOLLOWING PAGES FOR ROUGHING-IN DIMENSIONS

**To Be Specified:**

- Color:  White
- Faucet\*:
- Faucet Finish:
- Supplies:
- 1-1/4" Trap:
- Nipple:
- Bracket Support (by others):
- Concealed Arms Support (by others):

\* See faucet section for additional models available



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

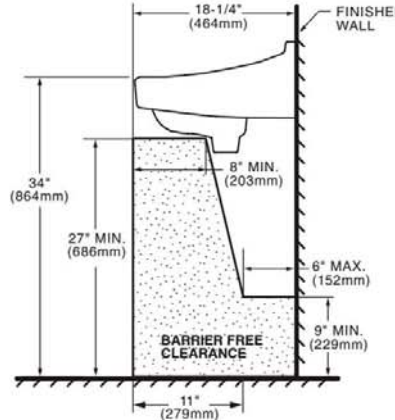
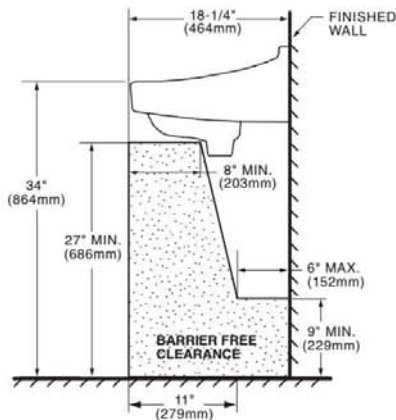
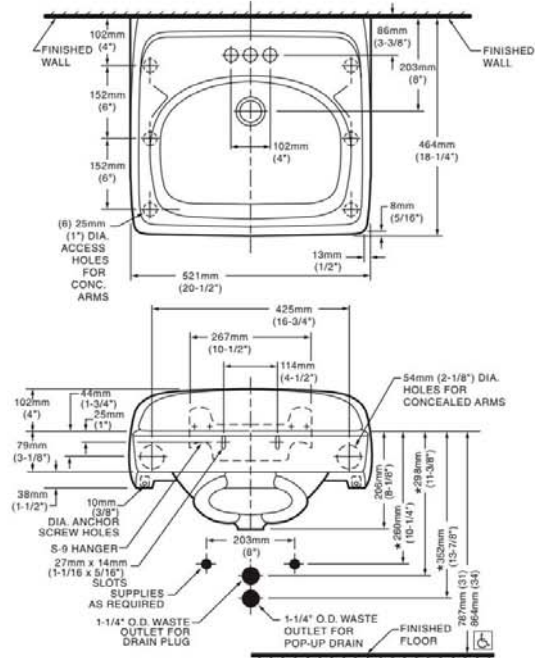
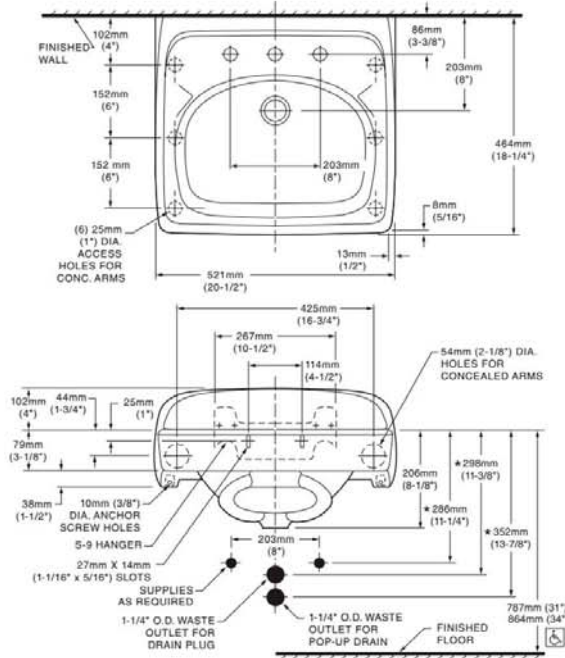


**LUCERNE™**  
**WALL-HUNG LAVATORY**  
VITREOUS CHINA

**BARrier FREE**

- 0356.028** 8" CTRS FOR EXPOSED BRACKET SUPPORT
- 0356.015** 8" CTRS FOR WALL HANGER OR CONCEALED ARMS
- 0356.915** LESS OVERFLOW

- 0355.021** 4" CTRS FOR EXPOSED BRACKET SUPPORT
- 0355.012** 4" CTRS FOR WALL HANGER OR CONCEALED ARMS
- 0355.912** LESS OVERFLOW



**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.**



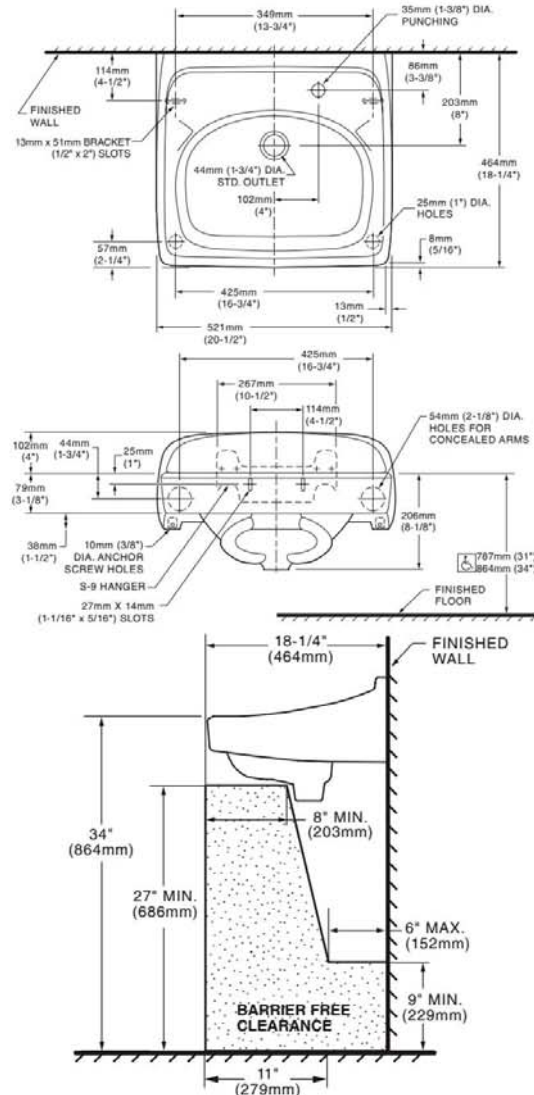
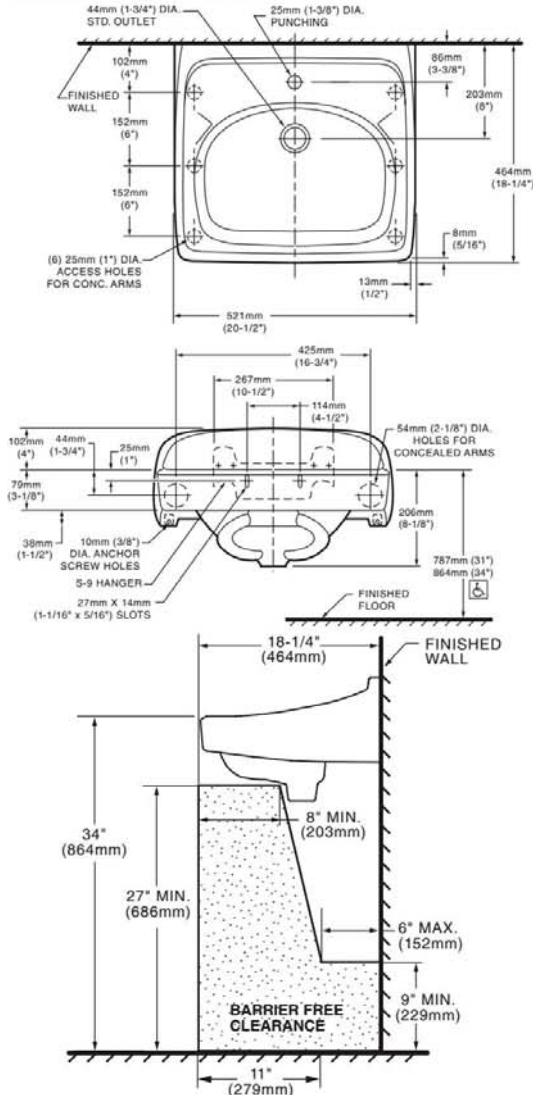


**LUCERNE™**  
**WALL-HUNG LAVATORY**  
VITREOUS CHINA

**BARRIER FREE**

- 0356.041** SINGLE CENTER HOLE FOR EXPOSED BRACKET SUPPORT
- 0356.421** SINGLE CENTER HOLE FOR WALL HANGER OR CONCEALED ARMS
- 0356.921** LESS OVERFLOW

- 0356.439** SINGLE CENTER HOLE ON RIGHT FOR WALL HANGER OR CONCEALED ARMS
- 0356.066** SINGLE CENTER HOLE ON RIGHT FOR EXPOSED BRACKET SUPPORT



**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.**

*American  
Standard*

**SELECTRONIC®**  
**ELECTRONIC PROXIMITY LAVATORY FAUCET**  
**CAST BRASS SPOUT, BASE MODEL**



**PRODUCT FEATURES:**

- **Flexible Selectronic® Platform** with programmable, multi-function sensor.
- **Hygienic, touch-free operation**
- **Easy & Flexible Installation:** Single post mounting with optional 4" & 8" deck plate. Water resistant solenoid enclosure mounts to wall.
- **Durable Vandal-Resistant Brass Body:** Ideal for high-use commercial applications.
- **Self-Cleaning Solenoid Valve:** Wiper spring prevents clogging
- **Easy to Service Integrated Strainer:** Patented integrated strainer protects solenoid from debris. Strainer is enclosed in removable debris cup for easy service.
- **Optional Auto Purge Feature:** Faucet can be programmed to open at a pre-determined time after last use to purge the faucet and water lines.
- **Safety Timer:** Helps prevent vandalism by turning off the faucet if the sensor is covered for 55 seconds or more. Timing is adjustable with optional remote control.
- **Adjustable Range:** Detection zone can be adjusted manually or with optional remote control.
- **Fail-Safe:** Faucet automatically shuts off upon loss of power or dead battery. Prevents costly excess water usage and potential flooding.
- **Lead-Free:** Faucet contains  $\leq 0.25\%$  total lead content by weighted average.

**GENERAL DESCRIPTION:**

Electronic faucet with proximity operation. Vandal-resistant cast brass spout with single post mounting. Water pressure range from 20 to 125 psi. Single inlet. 18" flexible stainless steel inlet hose with 3/8" compression fitting for connection to control box.

**RECOMMENDED SPECIFICATION:**

Electronic, sensor-operated lavatory faucet shall feature a programmable, multi-function sensor and an electronically operated self-cleaning solenoid valve. Shall also feature a vandal resistant all brass body with single inlet and in-line strainer. Shall meet ANSI A112.18.1 and ANSI 117.1 codes. Fitting shall be American Standard Model # 605B\_10\_.

**PWRX**

■ **BASE UNIT (Does not include power supply)**

- **605B.105** 0.5 GPM pressure compensating, vandal-resistant multi-laminar spray.
- **605B.104** 0.35 GPM pressure compensating, vandal-resistant multi-laminar spray. Faucet is factory set for 7.5 second running time to deliver 0.044 gallons per cycle.
- **605B.102** 1.5 GPM pressure compensating, vandal-resistant aerator.

■ **POWER KITS (Must be purchased separately)**

- **PK00.PAC** Includes universal Plug-In AC power supply.
- **PK00.MAC** Includes Y-splitter and 10' extension cable.
- **PK00.HAC** Includes universal Hard-Wired AC transformer and 10' extension cable.

■ **OPTIONAL Battery Back-Up**

- **PK00.BBU** Allows faucet to continuously operate during a power failure.

■ **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" x 1/2")

■ **OPTIONAL Mixing Valve**

- **605XTMV1070** Thermostatic mixing valve. 20" flexible stainless steel inlet hoses with 3/8" compression fittings. ASSE 1070 certified down to 0.35 gpm.

**POWER OPTIONS:**

- **Universal Voltage:** 100 - 240 VAC, 50/60 Hz
- **Plug-In AC:** Includes Class 2 UL certified universal Plug-In AC power supply with 6' long power cord.
- **Hard-Wired AC:** Includes Class 2 UL certified universal Hard-Wired AC transformer (electrical box by others).
- **Multi-AC:** One AC transformer can power up to 15 faucets and/or flush valves in a daisy chain configuration. **POWER SUPPLY NOT INCLUDED.**

Battery Powered  
per Spec

Spec'd Mixing Valve



**SELECTRONIC®**  
**ELECTRONIC PROXIMITY LAVATORY FAUCET**  
**CAST BRASS SPOUT, BASE MODEL**

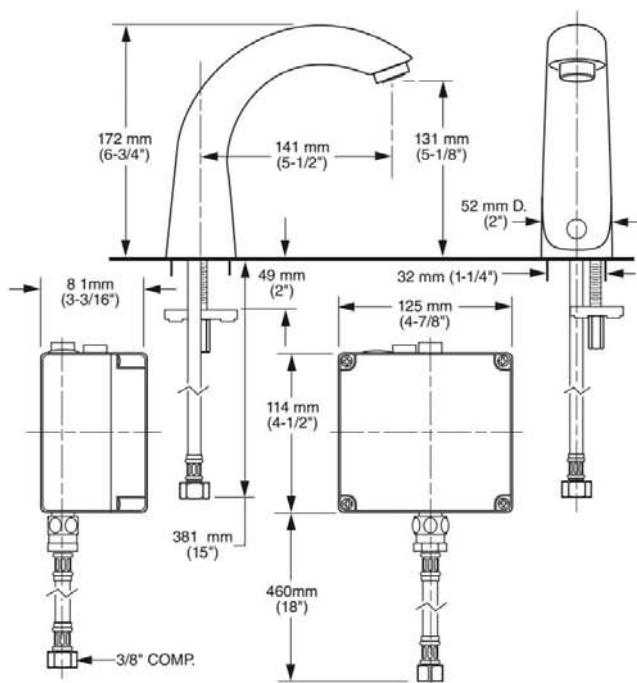
**CODES AND STANDARDS**

These products meet or exceed the following codes and standards:

- ANSI A117.1
- ASME A112.18.1
- CSA B125.1
- NSF 372

Other Aerators Available:	
Part Suffix	Description
LV15	1.5 gpm (5.7 Lpm) PCA Vandal-Resistant Laminar Flow Outlet
LV10	1.0 gpm (3.8 Lpm) PCA Vandal-Resistant Laminar Flow Outlet
V10	1.0 gpm (3.8 Lpm) PCA Vandal-Resistant Aerator
V035*	0.35 gpm (1.3 Lpm) PCA Vandal-Resistant Multi-Laminar Spray

PCA - PRESSURE COMPENSATING  
 \*MEETS CAL GREEN CODE



Meets the American Disabilities Act Guidelines and ANSI A117.1 Requirements for accessible and usable building facilities - check local codes

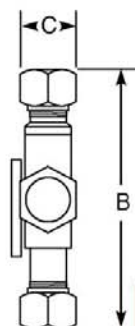
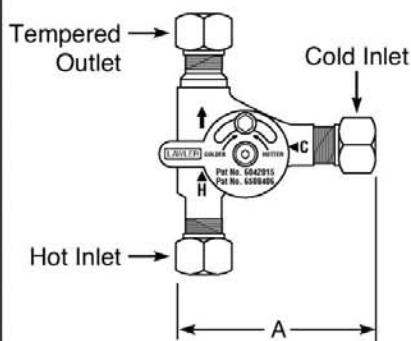
PART OF **LIXIL**



www.lawlervalve.com

**DATA SHEET**

ENG. NO. 86800-B  
 PAT. NO. 6,042,015.  
 PAT. NO. 6,508,406.  
 PAT. NO. 7,175,100.



**Mechanical Mixing Valve with Thermo-static Limit Stop**

**Model TMM - 1070 Lead Free**  
**Unit No. 87500 (3/8")**



Inlets & Outlet are 3/8" compression fittings  
 Checks included within inlets **ASSE 1070 Approved**

The point of use mixing valve shall be a mechanical mixing valve with a high temperature limit stop with automatic reset. The mixing valve shall have compression fittings and a means to adjust outlet temperature. Valve construction will include a bronze body and integral back flow checks. The mixing valve shall be Lawler model TMM-1070.

**Specifications**

- Hot water supply temperature: 140°F max.
- Water supply pressure (static): 125 psi max.
- Flow rate @ 45 psi: 2.1 gal/minute min.
- Shut off temperature: 118°F +/-3°F.
- Min. operating pressure: 5 psi.
- Integral rubber duck-bill back-flow checks.
- Pressure must be equal between supplies.

**Benefits**

- Automatically shuts down flow of water when temperature reaches 120°F.
- Protects against scalding and chilling.
- Offers choice of temperature settings from full cold through 115°F.
- Easy installation.
- Backed by Lawler's One Year Warranty.

Engineer Approval

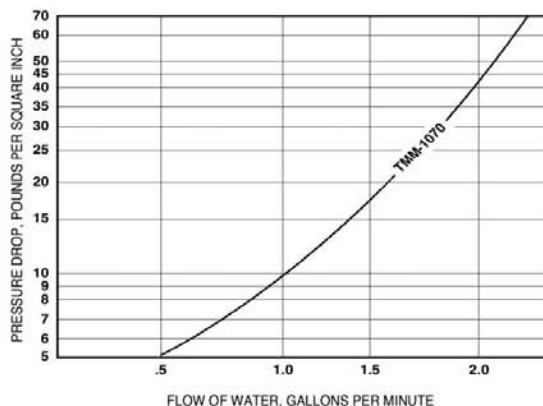


**MANUFACTURING CO., INC.**  
 5330 East 25th Street  
 Indianapolis, Indiana 46218  
 Phone (317) 261-1212  
 Fax (317) 261-1208

**DIMENSIONS:**

Valve Number	A	B	C
TMM-1070	2 1/8"	3 3/16"	7/8"

FLOW CAPACITIES SINGLE STAGE - MODEL TMM-1070



**CAPACITIES - MODEL TMM-1070**

Pressure Drop PSI	5	10	20	40
<b>Valve Number</b>	<b>Capacity</b>			
TMM-1070-GPM	.5	1	1.6	1.9
TMM-1070-LPM	1.8	3.7	6	7



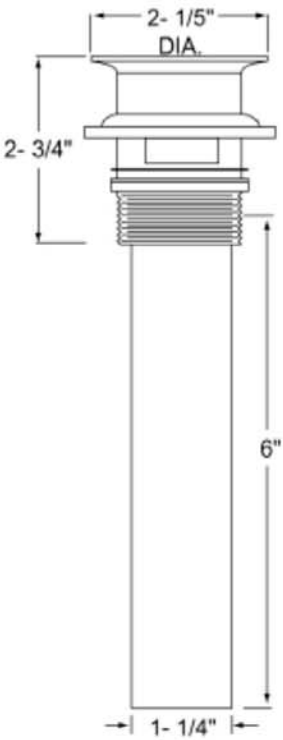
**Temperature Adjustment**

The temperature adjusting dial is located on the cold inlet. Turning the dial clockwise will lower the outlet temperature, turning the dial counter-clockwise will raise it. The valve cannot be adjusted above its shut-off temperature of 120°F.

**Note:** For ASSE 1070 applications.



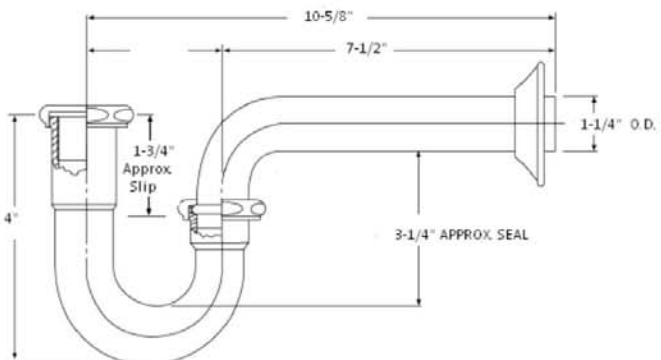
Design and specification subject to change without notice.

DATA1070

 <p style="font-size: small; margin-top: 5px;">4675 W. 160th St. Cleveland, Ohio 44135 Ph: (800) 321-9532 Fax: (800) 321-9535 www.dearbornbrass.com</p> <p style="text-align: center; margin-top: 5px;"><b>SUBMITTAL SPECIFICATION</b></p>	<h3 style="margin: 0;">CAST GRID PATENT OUTLET PLUG</h3>											
<p><b>Engineering Specification:</b> Dearborn Brass Semi-Cast Grid Patent Overflow Plug with 1-1/4" x 6" – 17 gauge tailpiece.</p>		<p><b>Job Reference</b></p>										
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p><b>DESCRIPTION</b></p> <ul style="list-style-type: none"> <li>Chrome Finished</li> <li>Includes: Cast Grid, P.O. Plug with nuts and washers and 17 gauge tailpiece</li> <li>Designed for installation in most commercial applications</li> <li>cUPC Listed</li> </ul> </div> <div style="width: 45%; text-align: center;">  </div> </div> <div style="margin-top: 20px;">  </div> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 20px;"> <thead> <tr> <th style="width: 5%;"></th> <th style="width: 15%;">Product No.</th> <th style="width: 45%;">Description</th> <th style="width: 15%;">Carton Quantity</th> <th style="width: 20%;">Carton Weight (lbs)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">✓</td> <td>760-1</td> <td>Semi-Cast Grid Patent Overflow Plug with 1-1/4" x 6" – 17 gauge Tailpiece</td> <td style="text-align: center;">25</td> <td style="text-align: center;">18</td> </tr> </tbody> </table> <p style="font-size: x-small; margin-top: 10px;">Data is subject to manufacturing tolerances.</p>				Product No.	Description	Carton Quantity	Carton Weight (lbs)	✓	760-1	Semi-Cast Grid Patent Overflow Plug with 1-1/4" x 6" – 17 gauge Tailpiece	25	18
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03/2009

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*For Residential and Commercial Applications*

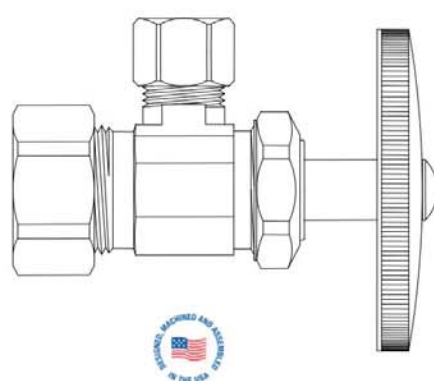
Job Name		Engineer / Architect	
Job Location		Wholesaler	
Submittal Date		Contractor	

## OCR1B/ OCR3B & OCR09/ OCR19/ OCR39/ OCR49 Multi-Turn Angle Stop – Compression x Compression

**Use:** For use in potable water distribution systems. Not intended for recirculating water systems that produce continuous use temperatures above 115° F. For those applications, use BrassCraft KT series ball stops

**Design Features:**

- **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 protects accidental stop operation during rough-ins
- **Compliant Stops** available for California and Vermont “low-lead” requirements



**Operating Specifications:**

- Temperature:** 40°- 140° F  
**Pressure:** 125 psi maximum



**Standard**

MATERIAL SPECIFICATIONS	
<b>Valve Body</b>	C36000 brass
<b>Stem</b>	POM or C36000 brass*
<b>Bib &amp; Packing Washers</b>	Nitrile or EPDM rubber
<b>Packing Nut</b>	C36000 brass
<b>Handle</b>	Plated metal, chrome-plated ABS or Lexan
<b>Handle Screw</b>	Zinc-plated steel
<b>Compression Sleeve</b>	C36000 brass
<b>Compression Nut</b>	C36000 brass, chrome plated

\*Where specified

**Compliant**

MATERIAL SPECIFICATIONS	
<b>Valve Body</b>	Compliant brass
<b>Stem</b>	POM or Compliant brass*
<b>Bib &amp; Packing Washers</b>	Nitrile or EPDM rubber
<b>Packing Nut</b>	Compliant brass
<b>Handle</b>	ABS, chrome plated
<b>Handle Screw</b>	Zinc-plated steel
<b>Compression Sleeve</b>	Compliant brass
<b>Compression Nut</b>	C36000 brass, chrome plated

**Standard Part Listing:**

- OCR1B C 3/8" Nom. Compression x 3/8" OD Compression, chrome plated
- OCR1B C1 3/8" Nom. Compression x 3/8" OD Compression, chrome plated, window box
- OCR1BZ C 3/8" Nom. Compression x 3/8" OD Compression, brass stem, chrome plated
- OCR3B C 3/8" Nom. Compression x 1/2" OD Compression, chrome plated
- OCR09 C 1/2" Nom. Compression x 1/4" OD Compression, chrome plated
- OCR09 C1 1/2" Nom. Compression x 1/4" OD Compression, chrome plated, window box
- OCR09 CBT 1/2" Nom. Compression x 1/4" OD Compression, chrome plated, bulk

*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. This specification must be returned to BrassCraft if requested.*



400.28 OCR09/19/39 Multi-Turn Angle Stop - Compr x Compr REV 01/11

© 2011 Brass-Craft Mfg.



## OCR1B/ OCR3B & OCR09/ OCR19/ OCR39/ OCR49 Multi-Turn Angle Stop – Compression x Compression

### Standard Part Listing (con't):

<input type="checkbox"/>	OCR09 R	1/2" Nom. Compression x 1/4" OD Compression, rough brass
<input type="checkbox"/>	OCR09Z C	1/2" Nom. Compression x 1/4" OD Compression, brass stem, chrome plated
<input type="checkbox"/>	OCR09Z R	1/2" Nom. Compression x 1/4" OD Compression, brass stem, rough brass
<input type="checkbox"/>	OCR19 C	1/2" Nom. Compression x 3/8" OD Compression, chrome plated
<input type="checkbox"/>	OCR19 CBT	1/2" Nom. Compression x 3/8" OD Compression, chrome plated, bulk
<input type="checkbox"/>	OCR19 C1	1/2" Nom. Compression x 3/8" OD Compression, chrome plated, window box
<input type="checkbox"/>	OCR19 BZ	1/2" Nom. Compression x 3/8" OD Compression, oil rubbed bronze
<input type="checkbox"/>	OCR19 NP	1/2" Nom. Compression x 3/8" OD Compression, polished nickel
<input type="checkbox"/>	OCR19 NS	1/2" Nom. Compression x 3/8" OD Compression, satin nickel
<input type="checkbox"/>	OCR19 P	1/2" Nom. Compression x 3/8" OD Compression, polished brass
<input type="checkbox"/>	OCR19 R	1/2" Nom. Compression x 3/8" OD Compression, rough brass
<input type="checkbox"/>	OCR19 RB	1/2" Nom. Compression x 3/8" OD Compression, rough brass, bulk
<input type="checkbox"/>	OCR19 RBT	1/2" Nom. Compression x 3/8" OD Compression, rough brass, bulk
<input type="checkbox"/>	OCR19 R1	1/2" Nom. Compression x 3/8" OD Compression, rough brass, window box
<input type="checkbox"/>	OCR19K C	1/2" Nom. Compression x 3/8" OD Compression, plastic handle, chrome plated
<input type="checkbox"/>	OCR19K CB	1/2" Nom. Compression x 3/8" OD Compression, plastic handle, chrome plated, bulk
<input type="checkbox"/>	OCR19KL1 CB	1/2" Nom. Compression x 3/8" OD Compression, less outlet nut, plastic handle, chrome plated, bulk
<input type="checkbox"/>	OCR19KL1 RB	1/2" Nom. Compression x 3/8" OD Compression, less outlet nut, plastic handle, rough brass, bulk
<input type="checkbox"/>	OCR19L1 CB	1/2" Nom. Compression x 3/8" OD Compression, less outlet nut, chrome plated, bulk
<input type="checkbox"/>	OCR19L1 RB	1/2" Nom. Compression x 3/8" OD Compression, less outlet nut, rough brass, bulk
<input type="checkbox"/>	OCR19L4 C100T	1/2" Nom. Compression x 3/8" OD Compression, less inlet nut, chrome plated, bulk
<input type="checkbox"/>	OCR19P C	1/2" Nom. Compression x 3/8" OD Compression, less handle, handle screw included, chrome plated
<input type="checkbox"/>	OCR19P R	1/2" Nom. Compression x 3/8" OD Compression, less handle, handle screw included, rough brass
<input type="checkbox"/>	OCR19PX C	1/2" Nom. Compression x 3/8" OD Compression, PEX insert, chrome plated
<input type="checkbox"/>	OCR19PX R	1/2" Nom. Compression x 3/8" OD Compression, PEX insert, rough brass
<input type="checkbox"/>	OCR19T CB	1/2" Nom. Compression x 3/8" OD Compression, chrome plated, no tray, bulk
<input type="checkbox"/>	OCR19Z C	1/2" Nom. Compression x 3/8" OD Compression, brass stem, chrome plated
<input type="checkbox"/>	OCR19Z R	1/2" Nom. Compression x 3/8" OD Compression, brass stem, rough brass
<input type="checkbox"/>	OCR29 C	1/2" Nom. Compression x 7/16" OD Compression, chrome plated
<input type="checkbox"/>	OCR29 C1	1/2" Nom. Compression x 7/16" OD Compression, chrome plated, window box
<input type="checkbox"/>	OCR29 R	1/2" Nom. Compression x 7/16" OD Compression, rough brass
<input type="checkbox"/>	OCR29Z C	1/2" Nom. Compression x 7/16" OD Compression, brass stem, chrome plated
<input type="checkbox"/>	OCR39 C	1/2" Nom. Compression x 1/2" OD Compression, chrome plated
<input type="checkbox"/>	OCR39 CBT	1/2" Nom. Compression x 1/2" OD Compression, chrome plated, bulk
<input type="checkbox"/>	OCR39 C1	1/2" Nom. Compression x 1/2" OD Compression, chrome plated, window box
<input type="checkbox"/>	OCR39 R	1/2" Nom. Compression x 1/2" OD Compression, rough brass
<input type="checkbox"/>	OCR39Z C	1/2" Nom. Compression x 1/2" OD Compression, brass stem, chrome plated
<input type="checkbox"/>	OCR49 C	1/2" Nom. Compression x 5/8" OD Compression, chrome plated
<input type="checkbox"/>	OCR49Z C	1/2" Nom. Compression x 5/8" OD Compression, brass stem, chrome plated

### Compliant Part Listing:

<input type="checkbox"/>	OCR09X C	1/2" Nom. Compression x 1/4" OD Compression, chrome plated
<input type="checkbox"/>	OCR09X C1	1/2" Nom. Compression x 1/4" OD Compression, chrome plated, window box

*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. This specification must be returned to BrassCraft if requested.*

**BrassCraft®**

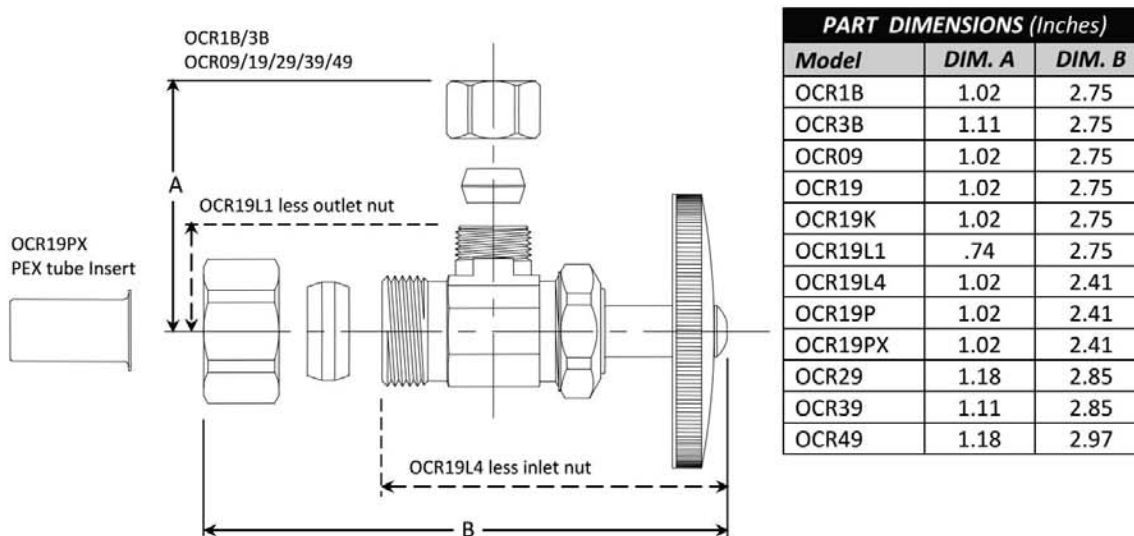
400.28 OCR09/19/39 Multi-Turn Angle Stop - Compr x Compr REV 01/11

© 2011 Brass-Craft Mfg.

## OCR1B/ OCR3B & OCR09/ OCR19/ OCR39/ OCR49 Multi-Turn Angle Stop – Compression x Compression

### Compliant Part Listing (con't):

<input type="checkbox"/>	OCR09X R	1/2" Nom. Compression x 1/4" OD Compression, rough brass
<input checked="" type="checkbox"/>	OCR19X C	1/2" Nom. Compression x 3/8" OD Compression, chrome plated
<input type="checkbox"/>	OCR19X C1	1/2" Nom. Compression x 3/8" OD Compression, chrome plated, window box
<input type="checkbox"/>	OCR19X R	1/2" Nom. Compression x 3/8" OD Compression, rough brass
<input type="checkbox"/>	OCR19X R1	1/2" Nom. Compression x 3/8" OD Compression, rough brass, window box
<input type="checkbox"/>	OCR19L1X CB	1/2" Nom. Compression x 3/8" OD Compression, less outlet nut, chrome plated, bulk
<input type="checkbox"/>	OCR19L1X RB	1/2" Nom. Compression x 3/8" OD Compression, less outlet nut, rough brass, bulk
<input type="checkbox"/>	OCR19L4X C100T	1/2" Nom. Compression x 3/8" OD Compression, less inlet nut, chrome plated, 100 per case
<input type="checkbox"/>	OCR19PXX C	1/2" Nom. Compression x 3/8" OD Compression, PEX insert, chrome plated
<input type="checkbox"/>	OCR19ZX C	1/2" Nom. Compression x 3/8" OD Compression, brass stem, chrome plated
<input type="checkbox"/>	OCR29X C	1/2" Nom. Compression x 7/16" OD Compression, chrome plated
<input type="checkbox"/>	OCR29X C1	1/2" Nom. Compression x 7/16" OD Compression, chrome plated, window box
<input type="checkbox"/>	OCR29X R	1/2" Nom. Compression x 7/16" OD Compression, rough brass
<input type="checkbox"/>	OCR39X C	1/2" Nom. Compression x 1/2" OD Compression, chrome plated
<input type="checkbox"/>	OCR39X CBT	1/2" Nom. Compression x 1/2" OD Compression, chrome plated, bulk
<input type="checkbox"/>	OCR39X C1	1/2" Nom. Compression x 1/2" OD Compression, chrome plated, window box
<input type="checkbox"/>	OCR39X R	1/2" Nom. Compression x 1/2" OD Compression, rough brass



### Listings & Certifications:

- IAPMO listed to ASME A112.18.1-05 / CSA B125.1-05 (File # 0645)
- CSA listed to ASME A112.18.1-05 / CSA B125.1-05 (File # 204593)
- Compliant product CSA approved to California Health & Safety Code 116875 and Vermont Bill S.152 (Project # 2174785)




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400.28 OCR09/19/39 Multi-Turn Angle Stop - Compr x Compr REV 01/11

**BrassCraft**

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**PASCO Specialty & Mfg., Inc.**

11156 Wright Road  
Lynwood, CA 90262  
Phone (310) 537-7782  
Fax (800) 737-2726  
www.pascospecialty.com

7529 Perryman Court  
Curtis Bay, MD 21226  
Phone (410) 360-5010  
Fax (877) 377-6466

**TECHNICAL SPECIFICATION SUBMITTAL**

Chrome plated steel or stainless steel escutcheon or flange for steel, copper, plastic pipe used in plumbing.

Job Name \_\_\_\_\_ Date \_\_\_\_\_

Model Specified \_\_\_\_\_ Quantity \_\_\_\_\_

Customer/Wholesaler \_\_\_\_\_

Contractor \_\_\_\_\_


Architect/Engineer \_\_\_\_\_

**Engineering Specification: A chrome plated steel or stainless steel escutcheon or flange to cover the connection between a sink drain wall bend and the trap adapter at the sanitary tee or other connections where pipe wall penetrations occur.**

- Sure grip style for snug fit
- Domestic or foreign manufacture

**Chrome Plated Steel**

PART NUMBER	IPS	CWT	OUTSIDE DIAMETER
1224	1-1/2" Tubular		3"
1225	3/8"	--	2-1/2"
1226	1/2"	--	2-1/2"
1227	3/4"	--	2-1/2"
1228	1-1/2"	--	3"
1229	2"	--	3-1/4"
1230	--	1/2"	2-1/2"
1231	--	3/4"	2-1/2"
1232	1-1/4"	1-1/2"	3"
1233	1"	--	2-3/4"
1240	--	2"	3-1/2"
1241	--	1"	2-3/4"
1244	1-1/4" Tubular		3"



**Stainless Steel - Grade 304**

1226-SS	1/2"	--	2-1/2"
1227-SS	3/4"	--	2-1/2"
1228-SS	1-1/2"	--	3-1/2"
1229-SS	2"	--	3-1/2"
1230-SS	--	1/2"	2-1/2"
1231-SS	--	3/4"	2-1/2"
37244	1-1/4" Tubular		3"
37224	1-1/2" Tubular		3"

11/16/10

**Flanges - Escutcheons for Steel, Copper, Plastic Pipe**

tss012



# WATER SUPPLY CONNECTORS



Meeting the demands of the Pro, Fluidmaster® has added new professional-grade faucet and toilet connectors to the Fluidmaster PRO Series™ line. This new line features 18 of the most popular braided stainless steel connectors with No-Burst® technology. Backed by a 10-year warranty, for professional installation only.

## TOILET



- No-Burst® braided stainless steel
- Lengths range from 9" to 20"
- Ample inside diameter for high flow capacity
- Won't kink or crease, even in the tightest of spaces
- Exceeds all requirements for flexible water connectors as defined by ASME A112.18.6 and CSA B125
- 10-year warranty

## FAUCET



- No-Burst® braided stainless steel
- Lengths range from 12" to 30"
- Ample inside diameter for high flow capacity
- Won't kink or crease, even in the tightest of spaces
- Exceeds all requirements for flexible water connectors as defined by ASME A112.18.6 and CSA B125
- 10-year warranty

TOILET

MODEL NUMBER	UPC 0 39961	CONNECTOR CONFIGURATION	PACK QTY	CASE DIMENSIONS W/D/H INCHES	CUBIC FEET	CASE WEIGHT	SCC 1 2 OF 5 100 39961
PR01T09	10011 5		25	6.75 x 9.75 x 5.00	0.20	5.00	10011 2
PR01T12	10013 9	3/8" Female Compression Thread X 7/8" Female Ballcock Thread	25	6.75 x 13.75 x 5.00	0.27	6.00	10013 6
PR01T20	10014 6		25	8.25 x 16.75 x 5.00	0.40	8.00	10014 3
PR04T09	10021 4		25	6.75 x 9.75 x 5.00	0.20	5.00	10021 1
PR04T12	10022 1	1/2" I.P. Female Straight Thread X 7/8" Female Ballcock Thread	25	6.75 x 13.75 x 5.00	0.27	6.00	10022 8
PR04T20	10023 8		25	8.25 x 16.75 x 5.00	0.40	8.00	10023 5

FAUCET

PR01F12	10012 2		25	6.75 x 13.75 x 5.00	0.27	6.00	10012 9
PR01F16	10016 0	3/8" Female Compression Thread	25	8.25 x 16.75 x 5.00	0.40	7.00	10016 7
PR01F20	10020 7	X 1/2" I.P. Female Straight Thread	25	8.25 x 16.75 x 5.00	0.40	8.00	10020 4
PR01F30	10030 6		25	8.25 x 16.75 x 5.00	0.40	10.00	10030 3
PR04F12	10015 3		25	6.75 x 13.75 x 5.00	0.27	7.00	10015 0
PR04F16	10017 7	1/2" I.P. Female Straight Thread	25	8.25 x 16.75 x 5.00	0.40	8.00	10017 4
PR04F20	10018 4	X 1/2" I.P. Female Straight Thread	25	8.25 x 16.75 x 5.00	0.40	8.00	10018 1
PR04F30	10019 1		25	8.25 x 16.75 x 5.00	0.40	11.00	10019 8
PR06F12	10024 5	3/8" Female Compression	25	6.75 x 13.75 x 5.00	0.27	6.00	10024 2
PR06F20	10025 2	X 3/8" Female Compression	25	8.25 x 16.75 x 5.00	0.40	7.00	10025 9
PR08F12	10026 9	3/8" Female Compression Thread	25	6.75 x 13.75 x 5.00	0.27	6.00	10026 6
PR08F20	10027 6	X 3/8" O.D. Copper Tubing Coupling	25	8.25 x 16.75 x 5.00	0.40	8.00	10027 3





ADA-compliant undersink protection



# Submittal Sheet

## General Description:

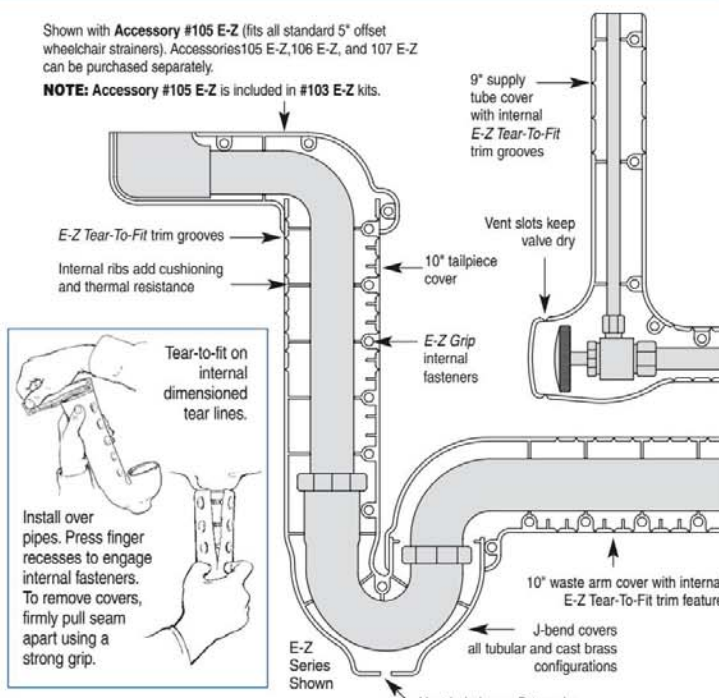
LAV GUARD® 2 E-Z Series waste and supply piping covers satisfy ADA compliance requirements. Built-in E-Z Grip internal fasteners and internal, E-Z Tear-To-Fit trimming feature allow for fast installation without tools. Series #100 E-Z kits are designed to fit on all tubular and cast brass P-trap assemblies. 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, E-Z Tear-To-Fit trim feature
Fasteners (E-Z Series)	Internal E-Z Grip 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 2,158,063

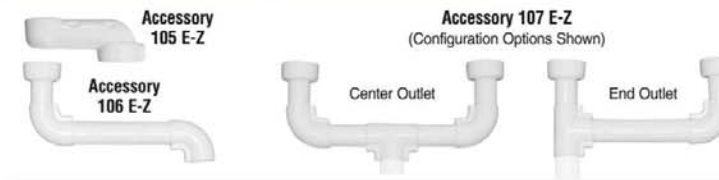


IPS Corporation, 202 Industrial Park Lane, Collierville, TN 38017  
 (901) 853-5001 (800) 340-5969 FAX: (901) 853-5008  
 e-mail: info@truebro.com Internet: http://www.truebro.com



#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.

- |   |  |   |
|---|--|---|
| <input type="checkbox"/> <b>Model #99 E-Z</b><br>One angle valve and supply cover<br><br><input type="checkbox"/> <b>Model #100 E-Z</b><br>One P-trap cover<br><br><input type="checkbox"/> <b>Model #400W*</b><br>One P-trap cover<br><br><input type="checkbox"/> <b>Model #101 E-Z</b><br>One P-trap cover, one angle valve cover<br><br><input type="checkbox"/> <b>Model #401W*</b><br>One P-trap cover, one angle valve cover | <input checked="" type="checkbox"/> <b>Model #102 E-Z</b><br>One P-trap cover, two angle valves and covers<br><br><input type="checkbox"/> <b>Model #402W*</b><br>One P-trap cover, two angle valves and covers<br><br><input type="checkbox"/> <b>Model #103 E-Z</b><br>One P-trap cover, two angle valves and supply covers, one 5" offset tailpiece wheelchair strainer cover<br><br><input type="checkbox"/> <b>Accessory #105 E-Z</b><br>One 5" offset tailpiece wheelchair strainer assembly | <input type="checkbox"/> <b>Accessory #105-K</b><br>Kohler 6" offset<br><br><input type="checkbox"/> <b>Accessory #106 E-Z</b><br>One basket strainer cover and offset waste cover (adjustable to 18")<br><br><input type="checkbox"/> <b>Accessory #107 E-Z</b><br>Two basket strainer covers and center or end outlet waste cover (adjustable)<br><br><input type="checkbox"/> <b>Accessory #Ex99 E-Z</b><br>One 16" extension for water supply<br><br><input type="checkbox"/> <b>Accessory #Ex100 E-Z</b><br>One 16" extension for drain waste arm or tailpiece |
|---|--|---|
- \*All #400W series items are the "original" LAV GUARD® design and construction. Specifications may change without notice.



Job/Location \_\_\_\_\_  
 Designer \_\_\_\_\_

TRUEBRO reserves the right to make product and material changes at any time without notice. 2/07

# ASIAN HEALTH

L-2

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**American Standard**

Style That Works Better

BARRIER FREE

**STUDIO™  
UNDERCOUNTER SINK**  
VITREOUS CHINA

**STUDIO™ UNDERCOUNTER SINK**

- Rectangular undercounter mount sink
- Made from vitreous china
- Front overflow
- Supplied with mounting kit (047194-0070A) and template



**0614.000 Unglazed Rim**  
540 x 387mm  
(21-1/4" x 15-1/4")

**0614.300 Glazed underside**

**Bowl size:**

464mm (18-1/4") wide  
308mm (12-1/8") front to back  
171mm (6-3/4") deep

**0618.000 Unglazed Rim**  
600 x 422mm  
(23-5/8" x 16-5/8")

**0618.300 Glazed underside**

**Bowl size:**

537mm (21-1/8") wide  
356mm (14") front to back  
152mm (6") deep

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

- ASME A112.19.2M for Vitreous China Fixtures
- CAN/CSA B45 series

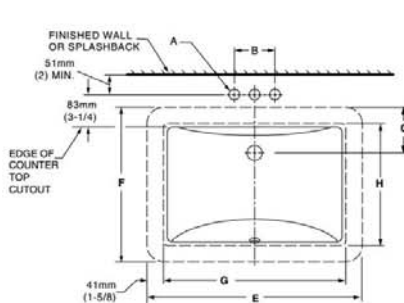
**To Be Specified:**

- Color:  White  Bone  Linen  Black
- Faucet\*
- Faucet Finish:
- Supplies:
- 1-1/4" Trap:

\* See faucet section for additional models available

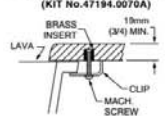
**MEETS THE AMERICANS WITH DISABILITIES ACT GUIDELINES AND ANSI A117.1 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES - CHECK LOCAL CODES.**

- Countertop 864mm (34") from finished floor. Lavatory installed 102mm (4") from front edge of countertop. Countertop thickness to be 25mm (1") maximum.

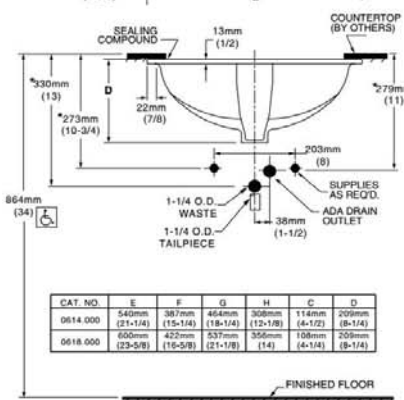


FITTING	A	B
CENTER-SET	1-1/16 (27mm)	4 (102mm)
SPREAD	1-1/4 (32mm)	8 (203mm)

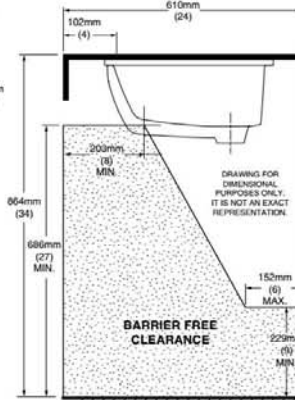
**DETAIL OF MOUNTING CLIP (KIT No. 47194.0070A)**



REFER TO INSTRUCTIONS PROVIDED WITH KIT FOR ADDITIONAL INFORMATION



CAT. NO.	E	F	G	H	C	D
0614.000	540mm (21-1/4)	387mm (15-1/4)	464mm (18-1/4)	308mm (12-1/8)	114mm (4-1/2)	209mm (8-1/4)
0618.000	600mm (23-5/8)	422mm (16-5/8)	537mm (21-1/8)	356mm (14)	108mm (4-1/4)	209mm (8-1/4)



**NOTES:**

WE RECOMMEND USING BASIN AS A TEMPLATE TO DETERMINE PROPER CONTOUR. CUT COUNTERTOP 38MM (1-1/2") INSIDE BASIN CONTOUR. \* DIMENSIONS SHOWN FOR LOCATION OF SUPPLIED AND "P" TRAP ARE SUGGESTED.

UNDERCOUNTER MOUNTING KIT SUPPLIED WITH SINK. FITTINGS NOT INCLUDED WITH FIXTURE AND MUST BE ORDERED SEPARATELY. SEALING COMPOUND SUPPLIED 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.



*American  
Standard*

**SELECTRONIC®**  
**ELECTRONIC PROXIMITY LAVATORY FAUCET**  
**CAST BRASS SPOUT, BASE MODEL**



**PRODUCT FEATURES:**

- **Flexible Selectronic® Platform** with programmable, multi-function sensor.
- **Hygienic, touch-free operation**
- **Easy & Flexible Installation:** Single post mounting with optional 4" & 8" deck plate. Water resistant solenoid enclosure mounts to wall.
- **Durable Vandal-Resistant Brass Body:** Ideal for high-use commercial applications.
- **Self-Cleaning Solenoid Valve:** Wiper spring prevents clogging
- **Easy to Service Integrated Strainer:** Patented integrated strainer protects solenoid from debris. Strainer is enclosed in removable debris cup for easy service.
- **Optional Auto Purge Feature:** Faucet can be programmed to open at a pre-determined time after last use to purge the faucet and water lines.
- **Safety Timer:** Helps prevent vandalism by turning off the faucet if the sensor is covered for 55 seconds or more. Timing is adjustable with optional remote control.
- **Adjustable Range:** Detection zone can be adjusted manually or with optional remote control.
- **Fail-Safe:** Faucet automatically shuts off upon loss of power or dead battery. Prevents costly excess water usage and potential flooding.
- **Lead-Free:** Faucet contains  $\leq 0.25\%$  total lead content by weighted average.

**GENERAL DESCRIPTION:**

Electronic faucet with proximity operation. Vandal-resistant cast brass spout with single post mounting. Water pressure range from 20 to 125 psi. Single inlet. 18" flexible stainless steel inlet hose with 3/8" compression fitting for connection to control box.

**RECOMMENDED SPECIFICATION:**

Electronic, sensor-operated lavatory faucet shall feature a programmable, multi-function sensor and an electronically operated self-cleaning solenoid valve. Shall also feature a vandal resistant all brass body with single inlet and in-line strainer. Shall meet ANSI A112.18.1 and ANSI 117.1 codes. Fitting shall be American Standard Model # 605B\_10\_.

**PWRX**

■ **BASE UNIT (Does not include power supply)**

- **605B.105** 0.5 GPM pressure compensating, vandal-resistant multi-laminar spray.
- **605B.104** 0.35 GPM pressure compensating, vandal-resistant multi-laminar spray. Faucet is factory set for 7.5 second running time to deliver 0.044 gallons per cycle.
- **605B.102** 1.5 GPM pressure compensating, vandal-resistant aerator.

■ **POWER KITS (Must be purchased separately)**

- **PK00.PAC** Includes universal Plug-In AC power supply.
- **PK00.MAC** Includes Y-splitter and 10' extension cable.
- **PK00.HAC** Includes universal Hard-Wired AC transformer and 10' extension cable.

■ **OPTIONAL Battery Back-Up**

- **PK00.BBU** Allows faucet to continuously operate during a power failure.

■ **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" x 1/2")

■ **OPTIONAL Mixing Valve**

- **605XTMV1070** Thermostatic mixing valve. 20" flexible stainless steel inlet hoses with 3/8" compression fittings. ASSE 1070 certified down to 0.35 gpm.

**POWER OPTIONS:**

- **Universal Voltage:** 100 - 240 VAC, 50/60 Hz
- **Plug-In AC:** Includes Class 2 UL certified universal Plug-In AC power supply with 6' long power cord.
- **Hard-Wired AC:** Includes Class 2 UL certified universal Hard-Wired AC transformer (electrical box by others).
- **Multi-AC:** One AC transformer can power up to 15 faucets and/or flush valves in a daisy chain configuration. **POWER SUPPLY NOT INCLUDED.**

Battery Powered  
per Spec

Spec'd Mixing Valve



**SELECTRONIC®**  
**ELECTRONIC PROXIMITY LAVATORY FAUCET**  
**CAST BRASS SPOUT, BASE MODEL**

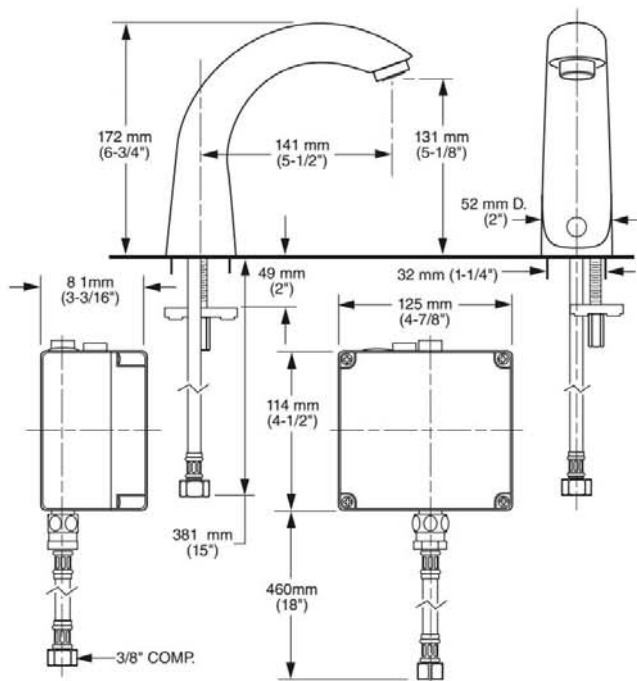
**CODES AND STANDARDS**

These products meet or exceed the following codes and standards:

- ANSI A117.1
- ASME A112.18.1
- CSA B125.1
- NSF 372

Other Aerators Available:	
Part Suffix	Description
LV15	1.5 gpm (5.7 Lpm) PCA Vandal-Resistant Laminar Flow Outlet
LV10	1.0 gpm (3.8 Lpm) PCA Vandal-Resistant Laminar Flow Outlet
V10	1.0 gpm (3.8 Lpm) PCA Vandal-Resistant Aerator
V035*	0.35 gpm (1.3 Lpm) PCA Vandal-Resistant Multi-Laminar Spray

PCA - PRESSURE COMPENSATING  
 \*MEETS CAL GREEN CODE



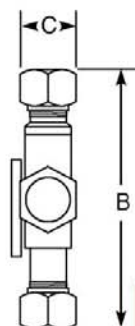
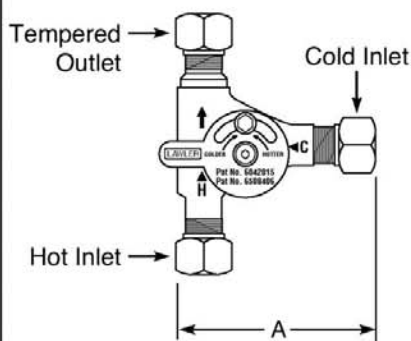
Meets the American Disabilities Act Guidelines and ANSI A117.1 Requirements for accessible and usable building facilities - check local codes

PART OF **LIXIL**

www.lawlervalve.com

**DATA SHEET**

ENG. NO. 86800-B  
 PAT. NO. 6,042,015.  
 PAT. NO. 6,508,406.  
 PAT. NO. 7,175,100.



**Mechanical Mixing Valve with Thermo-static Limit Stop**

**Model TMM - 1070 Lead Free**  
**Unit No. 87500 (3/8")**



Inlets & Outlet are 3/8" compression fittings  
 Checks included within inlets **ASSE 1070 Approved**

The point of use mixing valve shall be a mechanical mixing valve with a high temperature limit stop with automatic reset. The mixing valve shall have compression fittings and a means to adjust outlet temperature. Valve construction will include a bronze body and integral back flow checks. The mixing valve shall be Lawler model TMM-1070.

**Specifications**

- Hot water supply temperature: 140°F max.
- Water supply pressure (static): 125 psi max.
- Flow rate @ 45 psi: 2.1 gal/minute min.
- Shut off temperature: 118°F +/-3°F.
- Min. operating pressure: 5 psi.
- Integral rubber duck-bill back-flow checks.
- Pressure must be equal between supplies.

**Benefits**

- Automatically shuts down flow of water when temperature reaches 120°F.
- Protects against scalding and chilling.
- Offers choice of temperature settings from full cold through 115°F.
- Easy installation.
- Backed by Lawler's One Year Warranty.

Engineer Approval

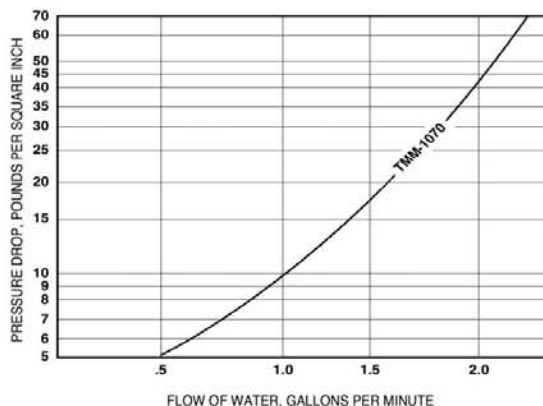


**MANUFACTURING CO., INC.**  
 5330 East 25th Street  
 Indianapolis, Indiana 46218  
 Phone (317) 261-1212  
 Fax (317) 261-1208

**DIMENSIONS:**

Valve Number	A	B	C
TMM-1070	2 1/8"	3 3/16"	7/8"

FLOW CAPACITIES SINGLE STAGE - MODEL TMM-1070



**CAPACITIES - MODEL TMM-1070**

Pressure Drop PSI	5	10	20	40
<b>Valve Number</b>	<b>Capacity</b>			
<b>TMM-1070-GPM</b>	.5	1	1.6	1.9
<b>TMM-1070-LPM</b>	1.8	3.7	6	7


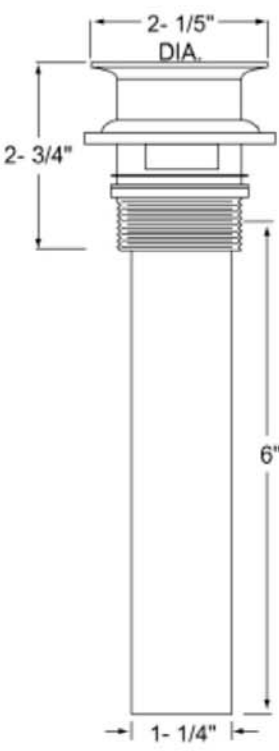

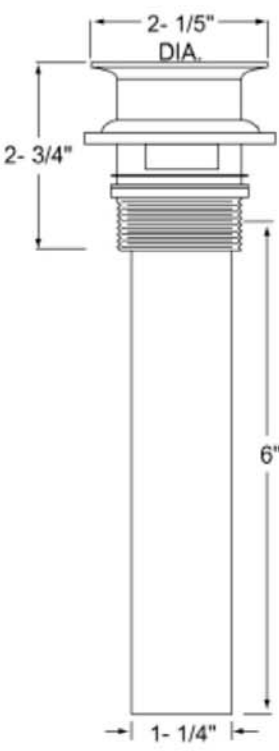

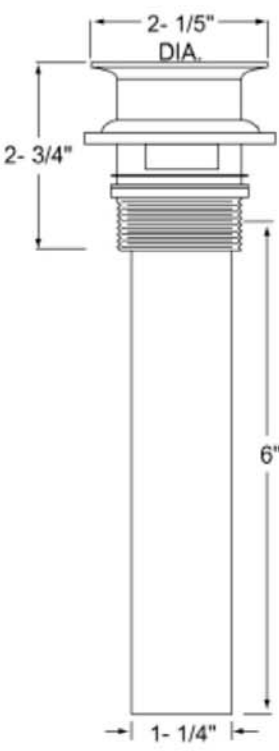

**Temperature Adjustment**

The temperature adjusting dial is located on the cold inlet. Turning the dial clockwise will lower the outlet temperature, turning the dial counter-clockwise will raise it. The valve cannot be adjusted above its shut-off temperature of 120°F.

**Note:** For ASSE 1070 applications.

Design and specification subject to change without notice.



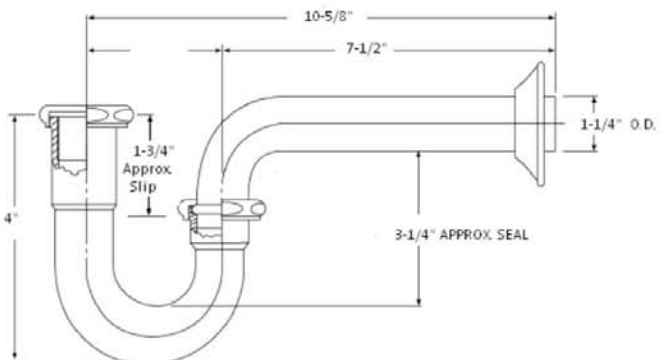
DATA1070

 <p style="font-size: small; margin-top: 5px;">4675 W. 160th St. Cleveland, Ohio 44135 Ph: (800) 321-9532 Fax: (800) 321-9535 www.dearbornbrass.com</p> <p style="text-align: center; margin-top: 5px;"><b>SUBMITTAL SPECIFICATION</b></p>	<p><b>CAST GRID PATENT OUTLET PLUG</b></p>										
<p><b>Engineering Specification:</b> Dearborn Brass Semi-Cast Grid Patent Overflow Plug with 1-<math>\frac{1}{4}</math>" x 6" – 17 gauge tailpiece.</p>											
<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top; padding: 10px;"> <p><b>DESCRIPTION</b></p> <ul style="list-style-type: none"> <li>Chrome Finished</li> <li>Includes: Cast Grid, P.O. Plug with nuts and washers and 17 gauge tailpiece</li> <li>Designed for installation in most commercial applications</li> <li>cUPC Listed</li> </ul> <div style="text-align: center; margin-top: 20px;">  </div> </td> <td style="width: 50%; vertical-align: top; padding: 10px;"> <div style="text-align: center; margin-bottom: 10px;">  </div> </td> </tr> </table>		<p><b>DESCRIPTION</b></p> <ul style="list-style-type: none"> <li>Chrome Finished</li> <li>Includes: Cast Grid, P.O. Plug with nuts and washers and 17 gauge tailpiece</li> <li>Designed for installation in most commercial applications</li> <li>cUPC Listed</li> </ul> <div style="text-align: center; margin-top: 20px;">  </div>	<div style="text-align: center; margin-bottom: 10px;">  </div>								
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03/2009



 <p>4675 W. 160th St. Cleveland, Ohio 44135 Ph: (800) 321-9532 Fax: (800) 321-9535 www.dearbornbrass.com</p> <p><b>SUBMITTAL SPECIFICATION</b></p>	<p><b>BRASS TUBULAR</b> <b>1-1/4" P-TRAP WITHOUT CLEANOUT</b></p>																																																																																		
<p><b>Engineering Specification:</b> Dearborn Brass 1-1/4" Brass Tubular P-Trap without Cleanout are designed for use in tubular drain applications. Available in 17, 20 or Budget Gauge Brass. Options include Brass Nuts, Deep Flange, Longer Wall Tube and Ground Joint.</p>		<p><b>Job Reference</b></p>																																																																																	
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*For Residential and Commercial Applications*

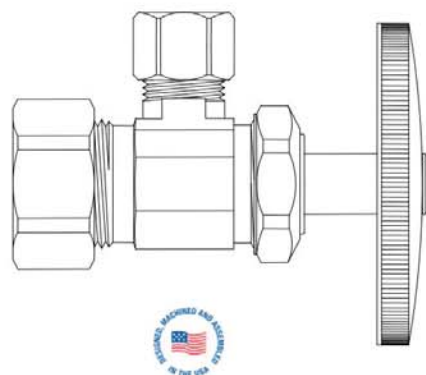
Job Name		Engineer / Architect	
Job Location		Wholesaler	
Submittal Date		Contractor	

## OCR1B/ OCR3B & OCR09/ OCR19/ OCR39/ OCR49 Multi-Turn Angle Stop – Compression x Compression

**Use:** For use in potable water distribution systems. Not intended for recirculating water systems that produce continuous use temperatures above 115° F. For those applications, use BrassCraft KT series ball stops

**Design Features:**

- **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 protects accidental stop operation during rough-ins
- **Compliant Stops** available for California and Vermont “low-lead” requirements



**Operating Specifications:**

**Temperature:** 40°- 140° F  
**Pressure:** 125 psi maximum



**Standard**

MATERIAL SPECIFICATIONS	
<b>Valve Body</b>	C36000 brass
<b>Stem</b>	POM or C36000 brass*
<b>Bib &amp; Packing Washers</b>	Nitrile or EPDM rubber
<b>Packing Nut</b>	C36000 brass
<b>Handle</b>	Plated metal, chrome-plated ABS or Lexan
<b>Handle Screw</b>	Zinc-plated steel
<b>Compression Sleeve</b>	C36000 brass
<b>Compression Nut</b>	C36000 brass, chrome plated

\*Where specified

**Compliant**

MATERIAL SPECIFICATIONS	
<b>Valve Body</b>	Compliant brass
<b>Stem</b>	POM or Compliant brass*
<b>Bib &amp; Packing Washers</b>	Nitrile or EPDM rubber
<b>Packing Nut</b>	Compliant brass
<b>Handle</b>	ABS, chrome plated
<b>Handle Screw</b>	Zinc-plated steel
<b>Compression Sleeve</b>	Compliant brass
<b>Compression Nut</b>	C36000 brass, chrome plated

**Standard Part Listing:**

- OCR1B C 3/8" Nom. Compression x 3/8" OD Compression, chrome plated
- OCR1B C1 3/8" Nom. Compression x 3/8" OD Compression, chrome plated, window box
- OCR1BZ C 3/8" Nom. Compression x 3/8" OD Compression, brass stem, chrome plated
- OCR3B C 3/8" Nom. Compression x 1/2" OD Compression, chrome plated
- OCR09 C 1/2" Nom. Compression x 1/4" OD Compression, chrome plated
- OCR09 C1 1/2" Nom. Compression x 1/4" OD Compression, chrome plated, window box
- OCR09 CBT 1/2" Nom. Compression x 1/4" OD Compression, chrome plated, bulk

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400.28 OCR09/19/39 Multi-Turn Angle Stop - Compr x Compr REV 01/11

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## OCR1B/ OCR3B & OCR09/ OCR19/ OCR39/ OCR49 Multi-Turn Angle Stop – Compression x Compression

### Standard Part Listing (con't):

<input type="checkbox"/>	OCR09 R	1/2" Nom. Compression x 1/4" OD Compression, rough brass
<input type="checkbox"/>	OCR09Z C	1/2" Nom. Compression x 1/4" OD Compression, brass stem, chrome plated
<input type="checkbox"/>	OCR09Z R	1/2" Nom. Compression x 1/4" OD Compression, brass stem, rough brass
<input type="checkbox"/>	OCR19 C	1/2" Nom. Compression x 3/8" OD Compression, chrome plated
<input type="checkbox"/>	OCR19 CBT	1/2" Nom. Compression x 3/8" OD Compression, chrome plated, bulk
<input type="checkbox"/>	OCR19 C1	1/2" Nom. Compression x 3/8" OD Compression, chrome plated, window box
<input type="checkbox"/>	OCR19 BZ	1/2" Nom. Compression x 3/8" OD Compression, oil rubbed bronze
<input type="checkbox"/>	OCR19 NP	1/2" Nom. Compression x 3/8" OD Compression, polished nickel
<input type="checkbox"/>	OCR19 NS	1/2" Nom. Compression x 3/8" OD Compression, satin nickel
<input type="checkbox"/>	OCR19 P	1/2" Nom. Compression x 3/8" OD Compression, polished brass
<input type="checkbox"/>	OCR19 R	1/2" Nom. Compression x 3/8" OD Compression, rough brass
<input type="checkbox"/>	OCR19 RB	1/2" Nom. Compression x 3/8" OD Compression, rough brass, bulk
<input type="checkbox"/>	OCR19 RBT	1/2" Nom. Compression x 3/8" OD Compression, rough brass, bulk
<input type="checkbox"/>	OCR19 R1	1/2" Nom. Compression x 3/8" OD Compression, rough brass, window box
<input type="checkbox"/>	OCR19K C	1/2" Nom. Compression x 3/8" OD Compression, plastic handle, chrome plated
<input type="checkbox"/>	OCR19K CB	1/2" Nom. Compression x 3/8" OD Compression, plastic handle, chrome plated, bulk
<input type="checkbox"/>	OCR19KL1 CB	1/2" Nom. Compression x 3/8" OD Compression, less outlet nut, plastic handle, chrome plated, bulk
<input type="checkbox"/>	OCR19KL1 RB	1/2" Nom. Compression x 3/8" OD Compression, less outlet nut, plastic handle, rough brass, bulk
<input type="checkbox"/>	OCR19L1 CB	1/2" Nom. Compression x 3/8" OD Compression, less outlet nut, chrome plated, bulk
<input type="checkbox"/>	OCR19L1 RB	1/2" Nom. Compression x 3/8" OD Compression, less outlet nut, rough brass, bulk
<input type="checkbox"/>	OCR19L4 C100T	1/2" Nom. Compression x 3/8" OD Compression, less inlet nut, chrome plated, bulk
<input type="checkbox"/>	OCR19P C	1/2" Nom. Compression x 3/8" OD Compression, less handle, handle screw included, chrome plated
<input type="checkbox"/>	OCR19P R	1/2" Nom. Compression x 3/8" OD Compression, less handle, handle screw included, rough brass
<input type="checkbox"/>	OCR19PX C	1/2" Nom. Compression x 3/8" OD Compression, PEX insert, chrome plated
<input type="checkbox"/>	OCR19PX R	1/2" Nom. Compression x 3/8" OD Compression, PEX insert, rough brass
<input type="checkbox"/>	OCR19T CB	1/2" Nom. Compression x 3/8" OD Compression, chrome plated, no tray, bulk
<input type="checkbox"/>	OCR19Z C	1/2" Nom. Compression x 3/8" OD Compression, brass stem, chrome plated
<input type="checkbox"/>	OCR19Z R	1/2" Nom. Compression x 3/8" OD Compression, brass stem, rough brass
<input type="checkbox"/>	OCR29 C	1/2" Nom. Compression x 7/16" OD Compression, chrome plated
<input type="checkbox"/>	OCR29 C1	1/2" Nom. Compression x 7/16" OD Compression, chrome plated, window box
<input type="checkbox"/>	OCR29 R	1/2" Nom. Compression x 7/16" OD Compression, rough brass
<input type="checkbox"/>	OCR29Z C	1/2" Nom. Compression x 7/16" OD Compression, brass stem, chrome plated
<input type="checkbox"/>	OCR39 C	1/2" Nom. Compression x 1/2" OD Compression, chrome plated
<input type="checkbox"/>	OCR39 CBT	1/2" Nom. Compression x 1/2" OD Compression, chrome plated, bulk
<input type="checkbox"/>	OCR39 C1	1/2" Nom. Compression x 1/2" OD Compression, chrome plated, window box
<input type="checkbox"/>	OCR39 R	1/2" Nom. Compression x 1/2" OD Compression, rough brass
<input type="checkbox"/>	OCR39Z C	1/2" Nom. Compression x 1/2" OD Compression, brass stem, chrome plated
<input type="checkbox"/>	OCR49 C	1/2" Nom. Compression x 5/8" OD Compression, chrome plated
<input type="checkbox"/>	OCR49Z C	1/2" Nom. Compression x 5/8" OD Compression, brass stem, chrome plated

### Compliant Part Listing:

<input type="checkbox"/>	OCR09X C	1/2" Nom. Compression x 1/4" OD Compression, chrome plated
<input type="checkbox"/>	OCR09X C1	1/2" Nom. Compression x 1/4" OD Compression, chrome plated, window box

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**BrassCraft®**

400.28 OCR09/19/39 Multi-Turn Angle Stop - Compr x Compr REV 01/11

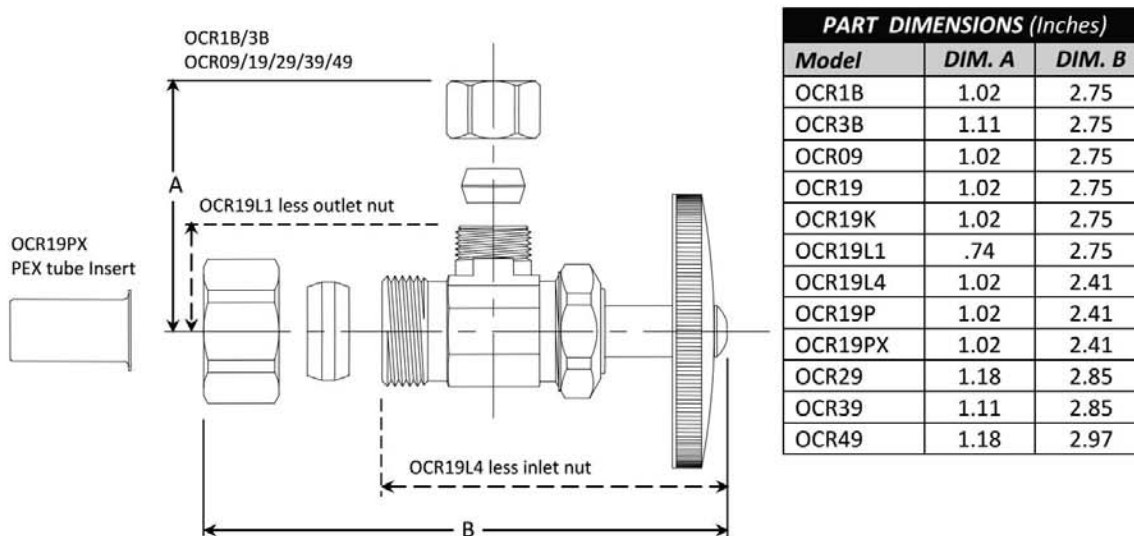
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## OCR1B/ OCR3B & OCR09/ OCR19/ OCR39/ OCR49 Multi-Turn Angle Stop – Compression x Compression

### Compliant Part Listing (con't):

<input type="checkbox"/>	OCR09X R	1/2" Nom. Compression x 1/4" OD Compression, rough brass
<input checked="" type="checkbox"/>	OCR19X C	1/2" Nom. Compression x 3/8" OD Compression, chrome plated
<input type="checkbox"/>	OCR19X C1	1/2" Nom. Compression x 3/8" OD Compression, chrome plated, window box
<input type="checkbox"/>	OCR19X R	1/2" Nom. Compression x 3/8" OD Compression, rough brass
<input type="checkbox"/>	OCR19X R1	1/2" Nom. Compression x 3/8" OD Compression, rough brass, window box
<input type="checkbox"/>	OCR19L1X CB	1/2" Nom. Compression x 3/8" OD Compression, less outlet nut, chrome plated, bulk
<input type="checkbox"/>	OCR19L1X RB	1/2" Nom. Compression x 3/8" OD Compression, less outlet nut, rough brass, bulk
<input type="checkbox"/>	OCR19L4X C100T	1/2" Nom. Compression x 3/8" OD Compression, less inlet nut, chrome plated, 100 per case
<input type="checkbox"/>	OCR19PXX C	1/2" Nom. Compression x 3/8" OD Compression, PEX insert, chrome plated
<input type="checkbox"/>	OCR19ZX C	1/2" Nom. Compression x 3/8" OD Compression, brass stem, chrome plated
<input type="checkbox"/>	OCR29X C	1/2" Nom. Compression x 7/16" OD Compression, chrome plated
<input type="checkbox"/>	OCR29X C1	1/2" Nom. Compression x 7/16" OD Compression, chrome plated, window box
<input type="checkbox"/>	OCR29X R	1/2" Nom. Compression x 7/16" OD Compression, rough brass
<input type="checkbox"/>	OCR39X C	1/2" Nom. Compression x 1/2" OD Compression, chrome plated
<input type="checkbox"/>	OCR39X CBT	1/2" Nom. Compression x 1/2" OD Compression, chrome plated, bulk
<input type="checkbox"/>	OCR39X C1	1/2" Nom. Compression x 1/2" OD Compression, chrome plated, window box
<input type="checkbox"/>	OCR39X R	1/2" Nom. Compression x 1/2" OD Compression, rough brass



### Listings & Certifications:

- IAPMO listed to ASME A112.18.1-05 / CSA B125.1-05 (File # 0645)
- CSA listed to ASME A112.18.1-05 / CSA B125.1-05 (File # 204593)
- Compliant product CSA approved to California Health & Safety Code 116875 and Vermont Bill S.152 (Project # 2174785)




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400.28 OCR09/19/39 Multi-Turn Angle Stop - Compr x Compr REV 01/11

**BrassCraft®**

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**PASCO Specialty & Mfg., Inc.**

11156 Wright Road  
Lynwood, CA 90262  
Phone (310) 537-7782  
Fax (800) 737-2726  
www.pascospecialty.com

7529 Perryman Court  
Curtis Bay, MD 21226  
Phone (410) 360-5010  
Fax (877) 377-6466

**TECHNICAL SPECIFICATION SUBMITTAL**

Chrome plated steel or stainless steel escutcheon or flange for steel, copper, plastic pipe used in plumbing.

Job Name \_\_\_\_\_ Date \_\_\_\_\_

Model Specified \_\_\_\_\_ Quantity \_\_\_\_\_

Customer/Wholesaler \_\_\_\_\_


Contractor \_\_\_\_\_

Architect/Engineer \_\_\_\_\_

---

**Engineering Specification: A chrome plated steel or stainless steel escutcheon or flange to cover the connection between a sink drain wall bend and the trap adapter at the sanitary tee or other connections where pipe wall penetrations occur.**

- Sure grip style for snug fit
- Domestic or foreign manufacture



**Chrome Plated Steel**

PART NUMBER	IPS	CWT	OUTSIDE DIAMETER
1224	1-1/2" Tubular		3"
1225	3/8"	--	2-1/2"
1226	1/2"	--	2-1/2"
1227	3/4"	--	2-1/2"
1228	1-1/2"	--	3"
1229	2"	--	3-1/4"
1230	--	1/2"	2-1/2"
1231	--	3/4"	2-1/2"
1232	1-1/4"	1-1/2"	3"
1233	1"	--	2-3/4"
1240	--	2"	3-1/2"
1241	--	1"	2-3/4"
1244	1-1/4" Tubular		3"

**Stainless Steel - Grade 304**

1226-SS	1/2"	--	2-1/2"
1227-SS	3/4"	--	2-1/2"
1228-SS	1-1/2"	--	3-1/2"
1229-SS	2"	--	3-1/2"
1230-SS	--	1/2"	2-1/2"
1231-SS	--	3/4"	2-1/2"
37244	1-1/4" Tubular		3"
37224	1-1/2" Tubular		3"

11/16/10
**Flanges - Escutcheons for Steel, Copper, Plastic Pipe**
tss012

# WATER SUPPLY CONNECTORS



Meeting the demands of the Pro, Fluidmaster® has added new professional-grade faucet and toilet connectors to the Fluidmaster PRO Series™ line. This new line features 18 of the most popular braided stainless steel connectors with No-Burst® technology. Backed by a 10-year warranty, for professional installation only.

## TOILET



- No-Burst® braided stainless steel
- Lengths range from 9" to 20"
- Ample inside diameter for high flow capacity
- Won't kink or crease, even in the tightest of spaces
- Exceeds all requirements for flexible water connectors as defined by ASME A112.18.6 and CSA B125
- 10-year warranty

## FAUCET



- No-Burst® braided stainless steel
- Lengths range from 12" to 30"
- Ample inside diameter for high flow capacity
- Won't kink or crease, even in the tightest of spaces
- Exceeds all requirements for flexible water connectors as defined by ASME A112.18.6 and CSA B125
- 10-year warranty

TOILET

MODEL NUMBER	UPC 0 39961	CONNECTOR CONFIGURATION	PACK QTY	CASE DIMENSIONS W/D/H INCHES	CUBIC FEET	CASE WEIGHT	SCC 1 2 OF 5 100 39961
PR01T09	10011 5		25	6.75 x 9.75 x 5.00	0.20	5.00	10011 2
PR01T12	10013 9	3/8" Female Compression Thread X 7/8" Female Ballcock Thread	25	6.75 x 13.75 x 5.00	0.27	6.00	10013 6
PR01T20	10014 6		25	8.25 x 16.75 x 5.00	0.40	8.00	10014 3
PR04T09	10021 4		25	6.75 x 9.75 x 5.00	0.20	5.00	10021 1
PR04T12	10022 1	1/2" I.P. Female Straight Thread X 7/8" Female Ballcock Thread	25	6.75 x 13.75 x 5.00	0.27	6.00	10022 8
PR04T20	10023 8		25	8.25 x 16.75 x 5.00	0.40	8.00	10023 5

FAUCET

PR01F12	10012 2		25	6.75 x 13.75 x 5.00	0.27	6.00	10012 9
PR01F16	10016 0	3/8" Female Compression Thread	25	8.25 x 16.75 x 5.00	0.40	7.00	10016 7
PR01F20	10020 7	X 1/2" I.P. Female Straight Thread	25	8.25 x 16.75 x 5.00	0.40	8.00	10020 4
PR01F30	10030 6		25	8.25 x 16.75 x 5.00	0.40	10.00	10030 3
PR04F12	10015 3		25	6.75 x 13.75 x 5.00	0.27	7.00	10015 0
PR04F16	10017 7	1/2" I.P. Female Straight Thread	25	8.25 x 16.75 x 5.00	0.40	8.00	10017 4
PR04F20	10018 4	X 1/2" I.P. Female Straight Thread	25	8.25 x 16.75 x 5.00	0.40	8.00	10018 1
PR04F30	10019 1		25	8.25 x 16.75 x 5.00	0.40	11.00	10019 8
PR06F12	10024 5	3/8" Female Compression	25	6.75 x 13.75 x 5.00	0.27	6.00	10024 2
PR06F20	10025 2	X 3/8" Female Compression	25	8.25 x 16.75 x 5.00	0.40	7.00	10025 9
PR08F12	10026 9	3/8" Female Compression Thread	25	6.75 x 13.75 x 5.00	0.27	6.00	10026 6
PR08F20	10027 6	X 3/8" O.D. Copper Tubing Coupling	25	8.25 x 16.75 x 5.00	0.40	8.00	10027 3

# ASIAN HEALTH

WC-1

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## MADERA™ FloWise® 15" HEIGHT ELONGATED FLUSHOMETER TOILET

VITREOUS CHINA with EVERCLEAN®

### MADERA™ FloWise® 15" HEIGHT ELONGATED with EVERCLEAN®

- Floor mount flushometer valve toilet
- Vitreous china
- High Efficiency, Low Consumption. Operates in the range of 1.1 gpf to 1.6 gpf (4.2 Lpf to 6.0 Lpf)
- Meets definition of HET (High Efficiency Toilet) when used with a high efficiency flush valve (1.28 gpf or 1.6 / 1.1 gpf dual flush)
- Permanent EverClean® surface inhibits the growth of stain and odor-causing bacteria, mold, and mildew on the surface
- Fully glazed 2-1/8" trapway
- Elongated bowl
- 10" or 12" roughing-in
- 15" rim height
- Condensation channel
- Powerful direct-fed siphon jet action
- 10" x 12" water surface area
- 1-1/2" inlet spud
- 2 bolt caps
- 100% factory flush tested



SEE REVERSE FOR ROUGHING-IN DIMENSIONS

- 3451.001** Elongated bowl only, top spud
- 3452.001** Elongated bowl only, top spud with slotted rim for bedpan holding (White only)
- 3453.001** Elongated bowl only, back spud
- 3455.001** Elongated bowl only, back spud with slotted rim for bedpan holding (White only)

#### System MaP\* Score:

- 1,000 grams of miso @ 1.1 gpf, 1.28 gpf or 1.6 gpf when used with an American Standard flush valve

\* Maximum Performance (MaP) testing performed by IAPMO R&T Lab. MaP Report conducted by Veritec Consulting, Inc. and Koeller and Company.

#### Component Parts:

- 047007-0070A** Inlet Spud (furnished with bowl)
- 481310-100** Bolt caps with retainers (furnished with bowl)

#### Nominal Dimensions:

718 x 356 x 381mm  
(28-1/4" x 14" x 15")

Fixture only, less seat and flush valve

Recommended working pressure—between  
25 psi at valve when flushing and 80 psi static

#### Compliance Certifications -

- Meets or Exceeds the Following Specifications:
- ASME A112.19.2-2008 / CSA B45.1-08 for Vitreous China Fixtures

#### To Be Specified:

- Color:  White  Bone  Linen
- Seat:
  - American Standard #5901.100 Heavy duty open front less cover
  - American Standard #5905.100 Extra heavy duty open front less cover
- Flushometer Valve:
  - 1.6 gpf:
    - Sensor-Operated: American Standard Selectronic® DC Power #6065.161.002 (Top Spud)
    - Sensor-Operated: American Standard Selectronic® AC Power #6067.261.002 (Back Spud)
    - Manual: American Standard #6047.161.002 (Top Spud)
  - 1.28 gpf:
    - Sensor-Operated: American Standard Selectronic® DC Power #6065.121.002 (Top Spud)
    - Sensor-Operated: American Standard Selectronic® AC Power #6067.221.002 (Back Spud)
    - Manual: American Standard #6047.121.002 (Top Spud)
  - 1.6 / 1.1 gpf Dual Flush:
    - Sensor-Operated: American Standard Selectronic® DC Power #6065.761.002 (Top Spud)

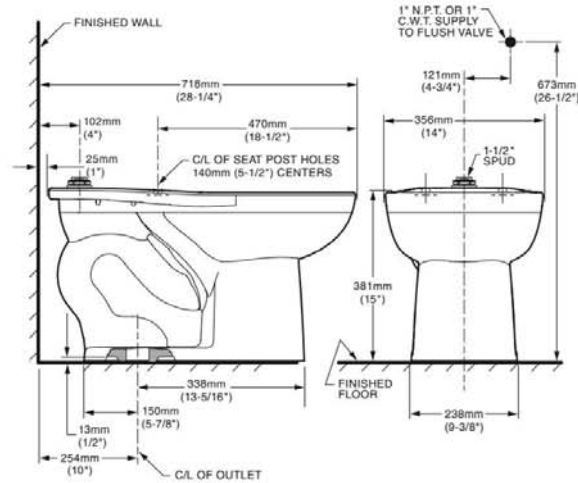
EVERCLEAN®  
Surface



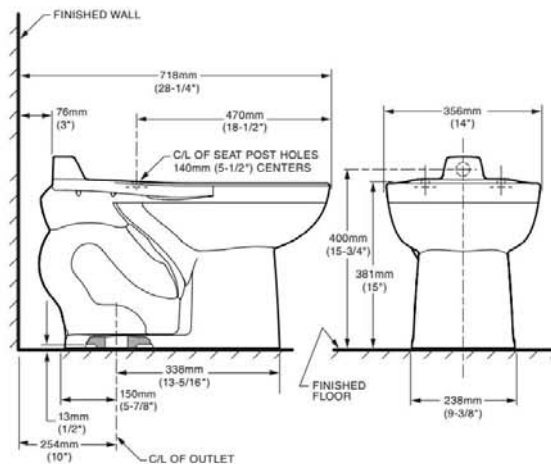


**MADERA™ FloWise® 15" HEIGHT  
ELONGATED FLUSHOMETER TOILET**  
VITREOUS CHINA with EVERCLEAN®

3451.001/3452.001



3453.001/3455.001



**NOTES:**

PRODUCT 3451 AND 3453 SHOWN, 3452 AND 3455 SAME EXCEPT WITH SLOTTED RIM FOR BED PAN HOLDING.  
TO COMPLY WITH AREA CODE GOVERNING THE HEIGHT OF VACUUM BREAKER ON THE FLUSHOMETER VALVE, THE PLUMBER MUST VERIFY DIMENSIONS SHOWN FOR SUPPLY ROUGHING.  
THIS TOILET DESIGNED TO ROUGH-IN AT A MINIMUM DIMENSION OF 254MM (10") AND A MAXIMUM DIMENSION OF 305MM (12") FROM FINISHED WALL TO C/L OF OUTLET.  
FLUSHOMETER VALVE NOT INCLUDED WITH FIXTURE AND MUST BE ORDERED SEPARATELY. FLUSHOMETER VALVE REQUIREMENTS FOR 12" (305MM) ROUGH-IN: SWEAT EXTENSION NIPPLE IS REQUIRED. REFER TO VALVE MANUFACTURER AND 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.

**SLOAN**®

**ECOS**

**MODEL**  
**8111-1.6/1.1**  
**Electronic Dual Flush**

- ▶ **Description**  
Exposed, Battery Powered, Sensor Activated Sloan ECOS® Electronic Dual Flush Model Water Closet Flushometer for floor mounted or wall hung top spud bowls.
- ▶ **Flush Cycle**  
Full Flush (Large Button – 1.6 gpf/6.0 Lpf), Reduced Flush (Small Button – 1.1 gpf/4.2 Lpf)
- ▶ **Specifications**  
Quiet, Exposed, Diaphragm Type, Chrome Plated Closet Flushometer for either left or right hand supply with the following features:
  - If the user is present for less than one minute and leaves the sensing zone or chooses the small override button, a reduced flush initiates (1.1 gpf/4.2 Lpf) eliminating liquid and paper waste, saving 1/2 gallon of water
  - If the user is present for greater than one minute and leaves the zone or chooses the large override button, the full flush initiates (1.6 gpf/6.0 Lpf) eliminating solid waste and paper waste
  - Reduces water volume by up to 30% when a reduced flush occurs
  - PERMEX® Synthetic Rubber Flex Tube Diaphragm with twin linear filtered bypass and vortex cleansing action designed for improved life and reduced maintenance
  - ADA Compliant Sloan ECOS® Electronic Dual Flush Battery Powered Infrared Sensor for automatic "No Hands" operation
  - Infrared Sensor with Multiple-focused, Lobular Sensing Fields for high and low target detection with range adjustment screw
  - Latching Solenoid Operator
  - Engineered Metal Cover with replaceable Lens Window
  - User friendly three (3) second Flush Delay
  - Courtesy Flush® Override Button
  - Four (4) Size AA alkaline Batteries included: Duracell® with DURALOCK Power Preserve Technology™—guaranteed for up to 10 years in storage
  - "Low Battery" Flashing LED
  - Initial Set-up Range Indicator Light (first 10 minutes)
  - 1" I.P.S. Screwdriver Bak-Chek® Angle Stop
  - Free Spinning, Vandal Resistant Stop Cap
  - Adjustable Tailpiece
  - High Back Pressure Vacuum Breaker Flush Connection with One-piece Bottom Hex Coupling Nut
  - Spud Coupling and Flange for 1½" Top Spud
  - Sweat Solder Adapter with Cover Tube and Cast Wall Flange with Set Screw
  - High Copper, Low Zinc Brass Castings for Dezincification Resistance
  - Fixed Metering Bypass and No External Volume Adjustment to Ensure Water Conservation
  - Flush Accuracy Controlled by CID Technology
  - Diaphragm, Stop Seat and Vacuum Breaker molded from PERMEX® Rubber Compound for Chloramine resistance

Valve Body, Tailpiece and Control Stop shall be in conformance with ASTM Alloy Classification for Semi-Red Brass. Valve shall be in compliance with the applicable sections of ASSE 1037. Installation conforms to ADA requirements.
- ▶ **Special Finishes**
  - PB** Polished Brass (PVD Finish)
  - BN** Brushed Nickel (PVD Finish)
  - SF** Satin Chrome
- ▶ **Accessories**  
See Accessories Section and Sloan ECOS® Electronic Dual Flush Accessories Section of the Sloan catalog for details on these and other Sloan ECOS® Electronic Dual Flush Flushometer variations.
- ▶ **Fixtures**  
Consult Sloan for Sloan brand matching fixture options.

**HET**  
HIGH EFFICIENCY TOILET



- ▶ **ADA Compliant**
- ▶ **Manual Operation**  
Sloan ECOS® Electronic Dual Flush Flushometers incorporate intuitive split-button design for easy manual activation. The small button controls the *reduced* flush cycle (1.1 gpf/4.2 Lpf), the large button controls the *full* flush cycle (1.6 gpf/6.0 Lpf). Straightforward graphics alert user to proper activation. The reduced flush for liquid waste or full flush for solid waste. To further educate the user, two (2) instructional wall plates are included with each Sloan ECOS® Flushometer.
- ▶ **Automatic Operation**  
Sloan ECOS® Electronic Dual Flush Flushometers can also be activated via multi-lobular infrared sensor. By detecting user presence and duration, the Sloan ECOS® Smart Sense Technology™ will determine the proper flush volume for unequalled water efficiency.
- ▶ **Functional & Hygienic**  
Touchless, sensor operation eliminates the need for user contact to help control the spread of infectious diseases. The Sloan ECOS® Electronic Dual Flush Flushometers are provided with *Reduced* or *Full* Flush Override Buttons to allow a "courtesy flush" for individual user comfort.
- ▶ **Warranty**  
3 year (limited)
- ▶ **Patented**  
D598,976

This space for Architect/Engineer approval	
Job Name _____	Date _____
Model Specified _____	Quantity _____
Variations Specified _____	
Customer/Wholesaler _____	
Contractor _____	
Architect _____	

The information contained in this document is subject to change without notice.



Sloan ECOS® Electronic Dual Flush 8111-1.6/1.1 01-14



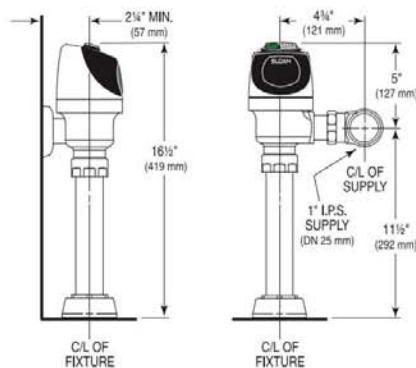


**MODEL**  
**8111-1.6/1.1**  
**Electronic Dual Flush**

- ▶ **Description**  
Exposed, Battery Powered, Sensor Activated Sloan ECOS® Electronic Dual Flush Model Water Closet Flushometer for floor mounted or wall hung top spud bowls.
- ▶ **Flush Cycle**  
Full Flush (Large Button – 1.6 gpf/6.0 Lpf), Reduced Flush (Small Button – 1.1 gpf/4.2 Lpf)

**ELECTRICAL SPECIFICATIONS**

- ▶ **Control Circuit**  
Solid State  
6 VDC Input  
8 Second Arming Delay  
3 Second Flush Delay
- ▶ **Sloan ECOS® Dual Flush Sensor Type**  
Active Infrared
- ▶ **Sloan ECOS® Dual Flush Sensor Range**  
Nominal 22" - 42" (559 mm - 1067 mm),  
Adjustable ± 8" (203 mm)
- ▶ **Battery Type**  
(4) Size AA Alkaline: Duracell® with DURALOCK Power Preserve Technology™
- ▶ **Battery Life**  
Three (3) Years @ 4,000 Flushes/Month
- ▶ **Indicator Lights**  
Range Adjustment/Low Battery
- ▶ **Operating Pressure**  
15 - 100 psi (104 - 689 kPa)
- ▶ **Sentinel Flush**  
Once Every 72 Hours After the Last Flush



**OPERATION**

1. A continuous, invisible light beam is emitted from the Sloan ECOS® Dual Flush Sensor.



2. As the user enters the beam's effective range, 22" to 42" (559 mm to 1067 mm), the beam is reflected into the Scanner Window to activate the Output Circuit. Once activated, the Output Circuit continues in a "hold" mode for as long as the user remains within the effective range of the sensor. If the user stays longer than 65 seconds, a full flush will automatically initiate when the user leaves.

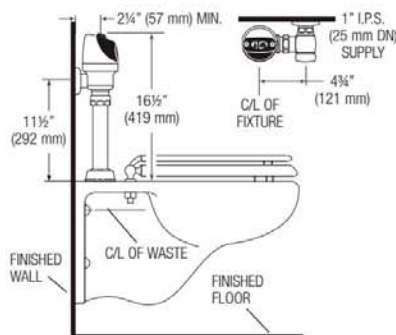


3. Once a user is detected, if the user leaves in 65 seconds or less, a reduced flush will automatically initiate. The circuit automatically resets and is ready for the next user.



**VALVE ROUGH-IN**

Model 8111



**When installing the Sloan ECOS® Electronic Dual Flush in a handicap stall:**  
Per the ADA Guidelines (section 604.9.4) it is recommended that the grab bars be split or shifted to the wide side of the stall.

**SLOAN VALVE COMPANY • 10500 SEYMOUR AVENUE • FRANKLIN PARK, IL 60131**

Phone: 1-800-9-VALVE-9 or 1-847-671-4300 • Fax: 1-800-447-8329 or 1-847-671-4380 • www.sloanvalve.com



## COMMERCIAL HEAVY-DUTY PLASTIC TOILET SEAT



MODEL #

COLOR #

**1955CT/1955SCT**

WHITE

### DESCRIPTION :

Open front less cover, elongated, heavy-duty, injection molded solid plastic toilet seat. Features four molded-in bumpers, non self-sustaining (1955CT) or self-sustaining (1955SCT) check hinges with non-corrosive 300 Series stainless steel posts and pintles and STA-TITE® Commercial Fastening System™. This seat complies with IAPMO/ANSI Z124.5-2013 Plastic Toilet Seats as a class Commercial Heavy Duty.

### SPECIFICATIONS :

Size:	Elongated
Material:	Plastic
Style:	Open Front less Cover
Bumpers:	Four
Hinges:	Plastic Non Self-Sustaining (1955CT) or Self-Sustaining (1955SCT) with 300 Series Stainless Steel Posts and Pintles
Fastening System:	STA-TITE® Commercial Fastening System™

### FEATURES :

STA-TITE® Commercial Fastening System™

Non-Corrosive 300 Series Stainless Steel Posts and Pintles

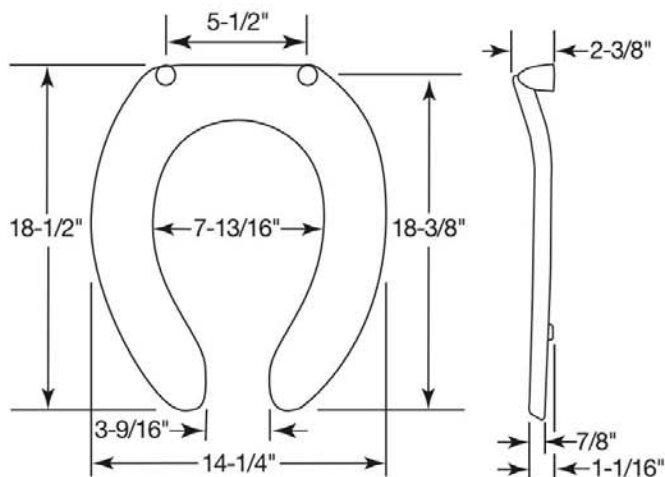


PLASTIC HINGES WITH  
STAINLESS STEEL POSTS  
AND PINTLES



STA-TITE® COMMERCIAL  
FASTENING SYSTEM™

### DIMENSIONS :



Proudly Made in the USA

Bemis Manufacturing Co., Sheboygan Falls, WI 53085  
www.ToiletSeats.com

Phone: 800-558-7651 Fax: 800-292-3647

# johni-ring®

Spec Sheet #S01068

March 2011

## Specialized Wax Gaskets



### DESCRIPTION

**Johni-ring** wax gaskets provide a permanent, sanitary, gas and watertight seal on most types of water closets. Constructed of high-quality golden wax, **johni-rings** will not dry out, harden, or deteriorate. Each wax ring is carefully extracted from its mold and packaged in an exclusive all-weather, non-stick plastic wrapper for easy removal and installation. **Hercules** sturdy polypropylene horn has full downward extension to eliminate splash-backs - ensures positive, non-interrupted flow through the floor flange.

**johni-ring jumbo** has 40% more wax than the standard **johni-ring** - for applications where the floor flange is excessively recessed. Eliminates the need for "double stacking."

**johni-ring for urinals** - felt reinforced, 2" diameter for most wall-installed urinals. Can be used on cast iron, copper or plastic fittings.

**johni-ring for back outlet toilets** - felt reinforced, fits most 4" wall toilets.

**johni-ring combination packs** - contain both the wax gasket and a set of either **johni-bolts**® or **johni quick bolts**®.

### SIZES AND PACKING

STOCK NO.	SIZE	PACKING	WEIGHT/CASE
<b>johni-ring standard</b>			
90210	for 3" or 4" waste lines	48	23.8 lbs.
90220	for 3" or 4" waste lines	24 with plastic horn	14.3 lbs.
90230	for 4" waste lines	24 with plastic horn	14.3 lbs.
<b>johni-ring jumbo</b>			
90243	for 3" or 4" waste lines	24	15.5 lbs.
90241	for 3" or 4" waste lines	24 with plastic horn	18.2 lbs.
<b>johni-ring plus for urinals</b>			
90260	for 2" waste lines	24	7.0 lbs.
<b>johni-ring plus for back outlet toilets</b>			
90270	for 4" waste lines	24	11.5 lbs.
<b>johni-ring standard combo pack / johni-bolts</b>			
90214	for 3" or 4" waste lines	48 regular flat ring	29.5 lbs.
90224	for 4" waste lines	24 with plastic horn	16.4 lbs.
90234	for 3" or 4" waste lines	24 with plastic horn	17.1 lbs.
<b>johni-ring standard combo pack / johni quick bolts</b>			
96401	for 3" or 4" waste lines	48	27.0 lbs.
96402	for 3" or 4" waste lines	24 with plastic horn	16.0 lbs.
96403	for 4" waste lines	24 with plastic horn	16.0 lbs.
<b>johni-ring jumbo combo pack / johni-bolt XL</b>			
90203	for 3" or 4" waste lines	24 with plastic horn	16.4 lbs.



HERCULES®

Specifications

johni-ring®



Spec Sheet #S01068

# johni-ring<sup>®</sup>

## Specialized wax gaskets

### APPROVALS AND LISTINGS

Meets Federal Specification TT-P-1536A.

### SPECIFIC USES

Wax gasket rings for sanitary seal for floor mounted, back outlet toilet drainage fittings and urinals.

### SPECIFIC APPLICATIONS\*

Designed to work with all types of installations such as cast iron, copper and plastics.

### PHYSICAL PROPERTIES

Specific Gravity: .82 - .86  
Solubility in water: Insoluble  
Appearance and color: Golden wax

### WARNINGS OR CAUTIONS

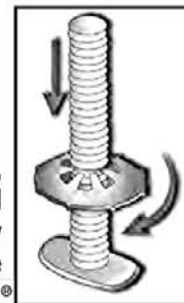
Read all cautions and directions carefully before using this product.

### DIRECTIONS FOR USE

**Johni-Ring for Floor Mounted Toilets:** Remove wrapping. With bowl upside down on a protective pad, place wax ring around opening. Plastic sleeve should face upward. Press wax ring firmly into place to assure adhesion when bowl is inverted. Carefully set toilet on bolts. Twist bowl slightly and apply downward pressure to compress wax and bring base of toilet in contact with floor. Tighten bolts. (Wax ring works best at room temperature.)

**Johni-Ring plus for Urinals:** Remove wrapping from wax bowl ring. Place wax ring firmly onto urinal flange. Set urinal firmly against flange and tighten bolts evenly. (Wax ring works best at room temperature.)

**Johni-Ring plus for Back Outlet Toilets:** Remove wrapping from wax bowl ring. With bowl on protective pad, have rear side of bowl face you. Place wax ring around outlet opening. Make sure wax ring is firmly in place to assure adhesion. Carefully install toilet to drainage fittings. (Wax ring works best at room temperature.)



For a quick, secure and "no wobble" way to install a toilet, use Hercules johni quick bolts.<sup>®</sup>

### MATERIAL SAFETY INFORMATION

FOR MORE INFORMATION ON THIS PRODUCT, REQUEST MATERIAL SAFETY DATA SHEET (MSDS) #68.

For Delivery by Fax	Call 1-800-942-4636
Internet	See MSDS section of <a href="http://www.herchem.com">www.herchem.com</a>
Mail	Contact Hercules at address below or any Hercules representative

This product is defined as an "article" and is not classified as hazardous in accordance with OSHA 1910.1200.

HMIS Hazard warning 0-1-0-A.

### INGREDIENTS CAS#

Petrolatum 8009-03-8

\*For special applications which may not be covered on this or other Hercules literature, please contact Hercules Technical Services Department by phone 1-800-221-9330, or fax 1-800-333-3456, or visit our technical database web-site at [www.herchem.com](http://www.herchem.com).



### Hercules Chemical Company, Inc.

111 South Street, Passaic, NJ 07055-9100  
Phone: 800-221-9330 • Fax: 800-333-3456  
e-mail: [info@herchem.com](mailto:info@herchem.com)  
<http://www.herchem.com>

ISO 9001:2008 Certified



© HCCI / JPD 2011



**Plumbing Specialties**

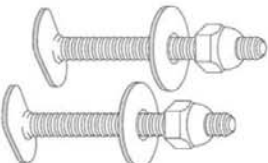
**Packaged BRASS Bolt Sets with Nuts & Washers**

Brass bolts made in the U.S.A.

**PASCO** has cataloged the most popular bolt sets.

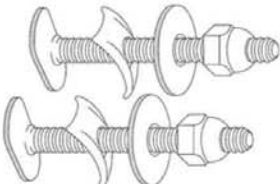
Each set comes with 2 brass bolts, 2 NP brass nuts and 2 plated steel washers.

Please contact us to package any set you require from other componets listed on the following pages.



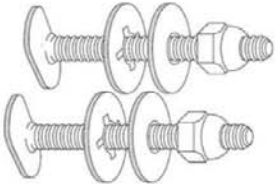
PART NUMBER	SIZE
100	1/4" x 2-1/4"
94	1/4" x 3-1/2"
82	5/16" x 2-1/4"

- With Steel Speed Nuts



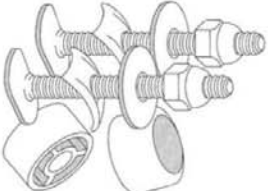
PART NUMBER	SIZE
102	1/4" x 2-1/4"
107	1/4" x 3-1/2"
59	5/16" x 2-1/4"

- With "Push On" Speed Washers



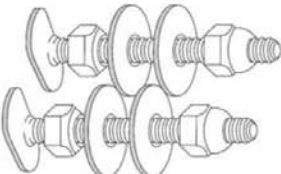
PART NUMBER	SIZE
102-SN	1/4" x 2-1/4"
107-SN	1/4" x 3-1/2"

- With Speed Nuts & Round Plastic Bolt Caps



PART NUMBER	SIZE
106	1/4" x 2-1/4"

- With Hex Speed Nuts



PART NUMBER	SIZE
28	1/4" x 2-1/4"
30	1/4" x 3-1/2"

B-5

# ASIAN HEALTH

WC-2

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*American Standard*

Style That Works Better

 BARRIER FREE

**MADERA™ FloWise® RIGHT HEIGHT ELONGATED FLUSH VALVE TOILET LESS EVERCLEAN®**

- Flush valve toilet
- Vitreous china
- Conventional glaze
- Meets definition for HET (High Efficiency Toilet)
- High Efficiency (4.8 Lpf/1.28 gpf)
- Will also function at 1.1gpf and 1.6gpf with a properly set dual flush valve
- 10" or 12" roughing-in
- 16-1/2" to 17" rim height
- Elongated bowl
- Direct-fed siphon jet action
- Fully glazed 2-1/8" trapway
- 10" x 12" water surface area
- 1-1/2" top spud
- 2 bolt caps
- 100% factory flush tested

- 3043.001** Elongated Universal bowl only, top spud
- 3248.001** Elongated Universal bowl only, top spud with slotted rim for bedpan holding (White Only)
- 3249.001** Elongated Universal bowl only, back spud (White Only)

**Component Parts:**

- 047007-0070A** Inlet spud (furnished with bowl)
- 481310-100** Bolt caps with retainers (furnished with bowl)

**Nominal Dimensions:**

718 x 356 x 419mm (28-1/4" x 14" x 16-1/2")

Recommended working pressure – between 25 psi at valve when flushing and 80 psi static

Fixture only, seat and flush valve by others

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

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

**MADERA™ FloWise® RIGHT HEIGHT™ ELONGATED FLUSH VALVE TOILET**  
VITREOUS CHINA LESS EVERCLEAN®



SEE REVERSE FOR ROUGHING-IN DIMENSIONS

**To Be Specified:**

- Color:  White  Bone
- Seat: 5901.100 American Standard Seat
- 5901.110 American Standard Seat with EverClean®
- Alternate Seat: 5905.100 Heavy Duty American Standard Seat
- 5905.110 Heavy Duty American Standard Seat with EverClean
- Flush Valve:
  - American Standard Selectronic™ #6065.121.002 DC Power (Top Spud)
  - American Standard Selectronic™ #6065.221.007 DC Power (Back Spud)
  - American Standard Selectronic™ #6067.221.007 AC Power (Back Spud)
  - American Standard Selectronic™ #6068.221.007 Multi AC Power (Back Spud)



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



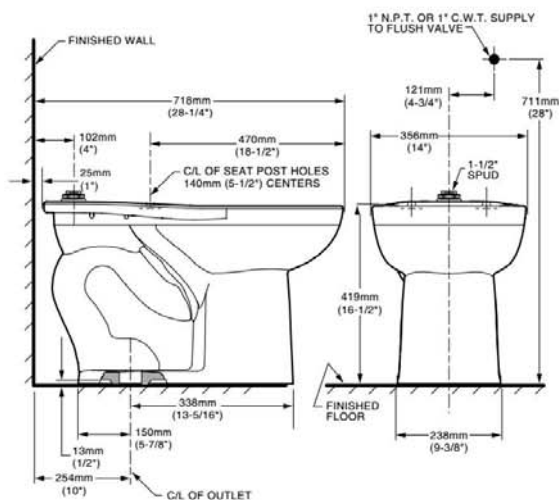
*American Standard*

Style That Works Better

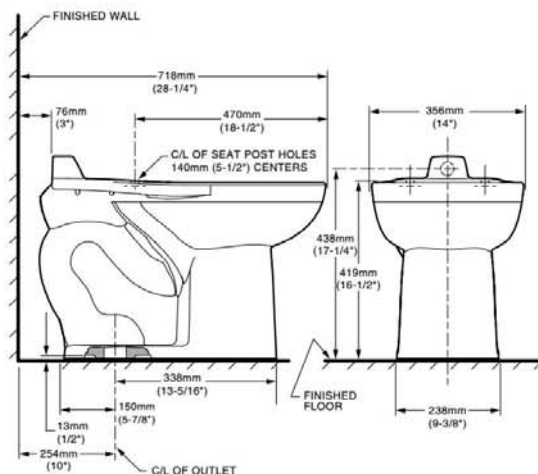
 BARRIER FREE

**MADERA™ FloWise® RIGHT HEIGHT™  
ELONGATED FLUSH VALVE TOILET**  
VITREOUS CHINA LESS EVERCLEAN®

3043.001/3248.001



3249.001



**NOTES:**  
PRODUCT 3043.001 AND 3249.001 SHOWN, 3248.001 SAME AS EXCEPT WITH SLOTTED RIM FOR BED PAN HOLDING.  
TO COMPLY WITH AREA CODE GOVERNING THE HEIGHT OF VACUUM BREAKER ON THE FLUSHMETER VALVE, THE PLUMBER MUST VERIFY DIMENSIONS SHOWN FOR SUPPLY ROUGHING.  
THIS TOILET DESIGNED TO ROUGH-IN AT A MINIMUM DIMENSION OF 254MM (10\") AND A MAXIMUM DIMENSION OF 305MM (12\") FROM FINISHED WALL TO C/L OF OUTLET.  
FLUSHMETER VALVE NOT INCLUDED WITH FIXTURE AND MUST BE ORDERED SEPARATELY. FLUSHMETER VALVE REQUIREMENTS FOR 12\" (305MM) ROUGH-IN: SWEAT EXTENSION NIPPLE IS REQUIRED. REFER TO VALVE MANUFACTURER AND 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.



**SLOAN**®

**ECOS**

**MODEL**  
**8111-1.6/1.1**  
**Electronic Dual Flush**

- ▶ **Description**  
Exposed, Battery Powered, Sensor Activated Sloan ECOS® Electronic Dual Flush Model Water Closet Flushometer for floor mounted or wall hung top spud bowls.
- ▶ **Flush Cycle**  
Full Flush (Large Button – 1.6 gpf/6.0 Lpf), Reduced Flush (Small Button – 1.1 gpf/4.2 Lpf)
- ▶ **Specifications**  
Quiet, Exposed, Diaphragm Type, Chrome Plated Closet Flushometer for either left or right hand supply with the following features:
  - If the user is present for less than one minute and leaves the sensing zone or chooses the small override button, a reduced flush initiates (1.1 gpf/4.2 Lpf) eliminating liquid and paper waste, saving 1/2 gallon of water
  - If the user is present for greater than one minute and leaves the zone or chooses the large override button, the full flush initiates (1.6 gpf/6.0 Lpf) eliminating solid waste and paper waste
  - Reduces water volume by up to 30% when a reduced flush occurs
  - PERMEX® Synthetic Rubber Flex Tube Diaphragm with twin linear filtered bypass and vortex cleansing action designed for improved life and reduced maintenance
  - ADA Compliant Sloan ECOS® Electronic Dual Flush Battery Powered Infrared Sensor for automatic "No Hands" operation
  - Infrared Sensor with Multiple-focused, Lobular Sensing Fields for high and low target detection with range adjustment screw
  - Latching Solenoid Operator
  - Engineered Metal Cover with replaceable Lens Window
  - User friendly three (3) second Flush Delay
  - Courtesy Flush® Override Button
  - Four (4) Size AA alkaline Batteries included: Duracell® with DURALOCK Power Preserve Technology™—guaranteed for up to 10 years in storage
  - "Low Battery" Flashing LED
  - Initial Set-up Range Indicator Light (first 10 minutes)
  - 1" I.P.S. Screwdriver Bak-Chek® Angle Stop
  - Free Spinning, Vandal Resistant Stop Cap
  - Adjustable Tailpiece
  - High Back Pressure Vacuum Breaker Flush Connection with One-piece Bottom Hex Coupling Nut
  - Spud Coupling and Flange for 1½" Top Spud
  - Sweat Solder Adapter with Cover Tube and Cast Wall Flange with Set Screw
  - High Copper, Low Zinc Brass Castings for Dezincification Resistance
  - Fixed Metering Bypass and No External Volume Adjustment to Ensure Water Conservation
  - Flush Accuracy Controlled by CID Technology
  - Diaphragm, Stop Seat and Vacuum Breaker molded from PERMEX® Rubber Compound for Chloramine resistance

Valve Body, Tailpiece and Control Stop shall be in conformance with ASTM Alloy Classification for Semi-Red Brass. Valve shall be in compliance with the applicable sections of ASSE 1037. Installation conforms to ADA requirements.
- ▶ **Special Finishes**
  - PB** Polished Brass (PVD Finish)
  - BN** Brushed Nickel (PVD Finish)
  - SF** Satin Chrome
- ▶ **Accessories**  
See Accessories Section and Sloan ECOS® Electronic Dual Flush Accessories Section of the Sloan catalog for details on these and other Sloan ECOS® Electronic Dual Flush Flushometer variations.
- ▶ **Fixtures**  
Consult Sloan for Sloan brand matching fixture options.



- ▶ **ADA Compliant**
- ▶ **Manual Operation**  
Sloan ECOS® Electronic Dual Flush Flushometers incorporate intuitive split-button design for easy manual activation. The small button controls the *reduced* flush cycle (1.1 gpf/4.2 Lpf), the large button controls the *full* flush cycle (1.6 gpf/6.0 Lpf). Straightforward graphics alert user to proper activation. The reduced flush for liquid waste or full flush for solid waste. To further educate the user, two (2) instructional wall plates are included with each Sloan ECOS® Flushometer.
- ▶ **Automatic Operation**  
Sloan ECOS® Electronic Dual Flush Flushometers can also be activated via multi-lobular infrared sensor. By detecting user presence and duration, the Sloan ECOS® Smart Sense Technology™ will determine the proper flush volume for unequalled water efficiency.
- ▶ **Functional & Hygienic**  
Touchless, sensor operation eliminates the need for user contact to help control the spread of infectious diseases. The Sloan ECOS® Electronic Dual Flush Flushometers are provided with *Reduced* or *Full* Flush Override Buttons to allow a "courtesy flush" for individual user comfort.
- ▶ **Warranty**  
3 year (limited)
- ▶ **Patented**  
D598,976

This space for Architect/Engineer approval	
Job Name _____	Date _____
Model Specified _____	Quantity _____
Variations Specified _____	
Customer/Wholesaler _____	
Contractor _____	
Architect _____	

The information contained in this document is subject to change without notice.



Sloan ECOS® Electronic Dual Flush 8111-1.6/1.1 01-14

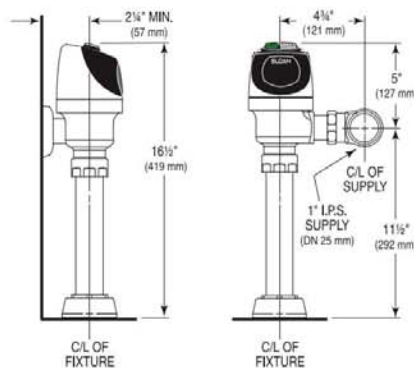


**MODEL**  
**8111-1.6/1.1**  
**Electronic Dual Flush**

- ▶ **Description**  
Exposed, Battery Powered, Sensor Activated Sloan ECOS® Electronic Dual Flush Model Water Closet Flushometer for floor mounted or wall hung top spud bowls.
- ▶ **Flush Cycle**  
Full Flush (Large Button – 1.6 gpf/6.0 Lpf), Reduced Flush (Small Button – 1.1 gpf/4.2 Lpf)

**ELECTRICAL SPECIFICATIONS**

- ▶ **Control Circuit**  
Solid State  
6 VDC Input  
8 Second Arming Delay  
3 Second Flush Delay
- ▶ **Sloan ECOS® Dual Flush Sensor Type**  
Active Infrared
- ▶ **Sloan ECOS® Dual Flush Sensor Range**  
Nominal 22" - 42" (559 mm - 1067 mm),  
Adjustable ± 8" (203 mm)
- ▶ **Battery Type**  
(4) Size AA Alkaline: Duracell® with DURALOCK Power Preserve Technology™
- ▶ **Battery Life**  
Three (3) Years @ 4,000 Flushes/Month
- ▶ **Indicator Lights**  
Range Adjustment/Low Battery
- ▶ **Operating Pressure**  
15 - 100 psi (104 - 689 kPa)
- ▶ **Sentinel Flush**  
Once Every 72 Hours After the Last Flush



**OPERATION**

1. A continuous, invisible light beam is emitted from the Sloan ECOS® Dual Flush Sensor.



2. As the user enters the beam's effective range, 22" to 42" (559 mm to 1067 mm), the beam is reflected into the Scanner Window to activate the Output Circuit. Once activated, the Output Circuit continues in a "hold" mode for as long as the user remains within the effective range of the sensor. If the user stays longer than 65 seconds, a full flush will automatically initiate when the user leaves.

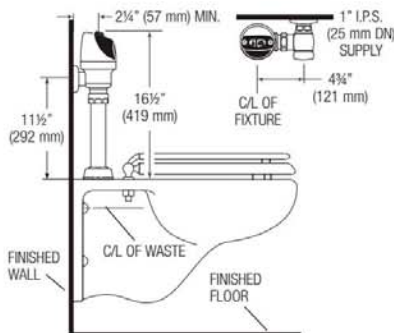


3. Once a user is detected, if the user leaves in 65 seconds or less, a reduced flush will automatically initiate. The circuit automatically resets and is ready for the next user.



**VALVE ROUGH-IN**

Model 8111



**When installing the Sloan ECOS® Electronic Dual Flush in a handicap stall:**  
Per the ADA Guidelines (section 604.9.4) it is recommended that the grab bars be split or shifted to the wide side of the stall.

**SLOAN VALVE COMPANY • 10500 SEYMOUR AVENUE • FRANKLIN PARK, IL 60131**

Phone: 1-800-9-VALVE-9 or 1-847-671-4300 • Fax: 1-800-447-8329 or 1-847-671-4380 • www.sloanvalve.com



## COMMERCIAL HEAVY-DUTY PLASTIC TOILET SEAT



MODEL #

COLOR #

**1955CT/1955SCT**

WHITE

### DESCRIPTION :

Open front less cover, elongated, heavy-duty, injection molded solid plastic toilet seat. Features four molded-in bumpers, non self-sustaining (1955CT) or self-sustaining (1955SCT) check hinges with non-corrosive 300 Series stainless steel posts and pintles and STA-TITE® Commercial Fastening System™. This seat complies with IAPMO/ANSI Z124.5-2013 Plastic Toilet Seats as a class Commercial Heavy Duty.

### SPECIFICATIONS :

Size:	Elongated
Material:	Plastic
Style:	Open Front less Cover
Bumpers:	Four
Hinges:	Plastic Non Self-Sustaining (1955CT) or Self-Sustaining (1955SCT) with 300 Series Stainless Steel Posts and Pintles
Fastening System:	STA-TITE® Commercial Fastening System™

### FEATURES :

STA-TITE® Commercial Fastening System™

Non-Corrosive 300 Series Stainless Steel Posts and Pintles

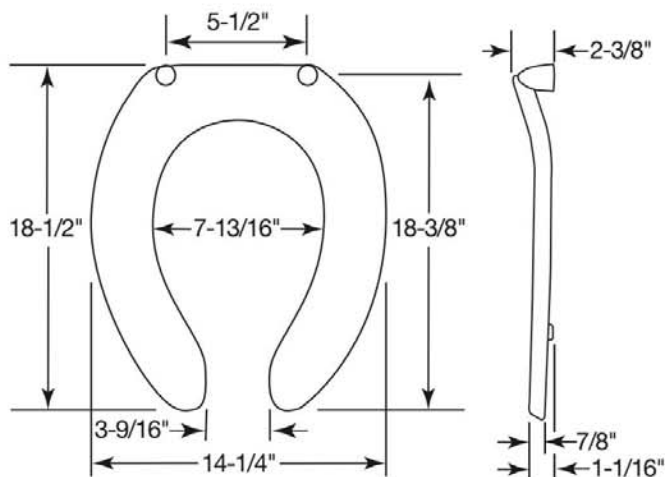


PLASTIC HINGES WITH  
STAINLESS STEEL POSTS  
AND PINTLES



STA-TITE® COMMERCIAL  
FASTENING SYSTEM™

### DIMENSIONS :



Proudly Made in the USA

Bemis Manufacturing Co., Sheboygan Falls, WI 53085  
www.ToiletSeats.com

Phone: 800-558-7651 Fax: 800-292-3647



Spec Sheet #S01068

March 2011

# johni-ring®

## Specialized Wax Gaskets



### DESCRIPTION

**Johni-ring** wax gaskets provide a permanent, sanitary, gas and watertight seal on most types of water closets. Constructed of high-quality golden wax, **johni-rings** will not dry out, harden, or deteriorate. Each wax ring is carefully extracted from its mold and packaged in an exclusive all-weather, non-stick plastic wrapper for easy removal and installation. **Hercules** sturdy polypropylene horn has full downward extension to eliminate splash-backs - ensures positive, non-interrupted flow through the floor flange.

**johni-ring jumbo** has 40% more wax than the standard **johni-ring** - for applications where the floor flange is excessively recessed. Eliminates the need for "double stacking."

**johni-ring for urinals** - felt reinforced, 2" diameter for most wall-installed urinals. Can be used on cast iron, copper or plastic fittings.

**johni-ring for back outlet toilets** - felt reinforced, fits most 4" wall toilets.

**johni-ring combination packs** - contain both the wax gasket and a set of either **johni-bolts®** or **johni quick bolts®**.

### SIZES AND PACKING

STOCK NO.	SIZE	PACKING	WEIGHT/CASE
<b>johni-ring standard</b>			
90210	for 3" or 4" waste lines	48	23.8 lbs.
90220	for 3" or 4" waste lines	24 with plastic horn	14.3 lbs.
90230	for 4" waste lines	24 with plastic horn	14.3 lbs.
<b>johni-ring jumbo</b>			
90243	for 3" or 4" waste lines	24	15.5 lbs.
90241	for 3" or 4" waste lines	24 with plastic horn	18.2 lbs.
<b>johni-ring plus for urinals</b>			
90260	for 2" waste lines	24	7.0 lbs.
<b>johni-ring plus for back outlet toilets</b>			
90270	for 4" waste lines	24	11.5 lbs.
<b>johni-ring standard combo pack / johni-bolts</b>			
90214	for 3" or 4" waste lines	48 regular flat ring	29.5 lbs.
90224	for 4" waste lines	24 with plastic horn	16.4 lbs.
90234	for 3" or 4" waste lines	24 with plastic horn	17.1 lbs.
<b>johni-ring standard combo pack / johni quick bolts</b>			
96401	for 3" or 4" waste lines	48	27.0 lbs.
96402	for 3" or 4" waste lines	24 with plastic horn	16.0 lbs.
96403	for 4" waste lines	24 with plastic horn	16.0 lbs.
<b>johni-ring jumbo combo pack / johni-bolt XL</b>			
90203	for 3" or 4" waste lines	24 with plastic horn	16.4 lbs.



HERCULES®

Specifications

johni-ring®



Spec Sheet #S01068

# johni-ring®

## Specialized wax gaskets

### APPROVALS AND LISTINGS

Meets Federal Specification TT-P-1536A.

### SPECIFIC USES

Wax gasket rings for sanitary seal for floor mounted, back outlet toilet drainage fittings and urinals.

### SPECIFIC APPLICATIONS\*

Designed to work with all types of installations such as cast iron, copper and plastics.

### PHYSICAL PROPERTIES

Specific Gravity: .82 - .86  
Solubility in water: Insoluble  
Appearance and color: Golden wax

### WARNINGS OR CAUTIONS

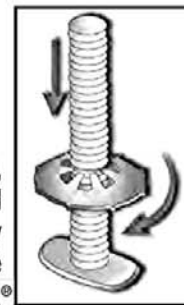
Read all cautions and directions carefully before using this product.

### DIRECTIONS FOR USE

**Johni-Ring for Floor Mounted Toilets:** Remove wrapping. With bowl upside down on a protective pad, place wax ring around opening. Plastic sleeve should face upward. Press wax ring firmly into place to assure adhesion when bowl is inverted. Carefully set toilet on bolts. Twist bowl slightly and apply downward pressure to compress wax and bring base of toilet in contact with floor. Tighten bolts. (Wax ring works best at room temperature.)

**Johni-Ring plus for Urinals:** Remove wrapping from wax bowl ring. Place wax ring firmly onto urinal flange. Set urinal firmly against flange and tighten bolts evenly. (Wax ring works best at room temperature.)

**Johni-Ring plus for Back Outlet Toilets:** Remove wrapping from wax bowl ring. With bowl on protective pad, have rear side of bowl face you. Place wax ring around outlet opening. Make sure wax ring is firmly in place to assure adhesion. Carefully install toilet to drainage fittings. (Wax ring works best at room temperature.)



For a quick, secure and "no wobble" way to install a toilet, use Hercules johni quick bolts.®

### MATERIAL SAFETY INFORMATION

FOR MORE INFORMATION ON THIS PRODUCT, REQUEST MATERIAL SAFETY DATA SHEET (MSDS) #68.

For Delivery by Fax	Call 1-800-942-4636
Internet	See MSDS section of <a href="http://www.herchem.com">www.herchem.com</a>
Mail	Contact Hercules at address below or any Hercules representative

This product is defined as an "article" and is not classified as hazardous in accordance with OSHA 1910.1200.

HMIS Hazard warning 0-1-0-A.

### INGREDIENTS CAS#

Petrolatum 8009-03-8

\*For special applications which may not be covered on this or other Hercules literature, please contact Hercules Technical Services Department by phone 1-800-221-9330, or fax 1-800-333-3456, or visit our technical database web-site at [www.herchem.com](http://www.herchem.com).



### Hercules Chemical Company, Inc.

111 South Street, Passaic, NJ 07055-9100  
Phone: 800-221-9330 • Fax: 800-333-3456  
e-mail: [info@herchem.com](mailto:info@herchem.com)  
<http://www.herchem.com>

ISO 9001:2008 Certified



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**Plumbing Specialties**

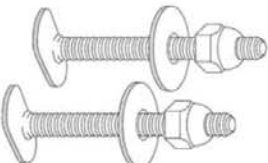
**Packaged BRASS Bolt Sets with Nuts & Washers**

Brass bolts made in the U.S.A.

**PASCO** has cataloged the most popular bolt sets.

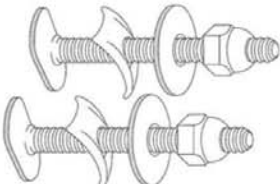
Each set comes with 2 brass bolts, 2 NP brass nuts and 2 plated steel washers.

Please contact us to package any set you require from other componets listed on the following pages.



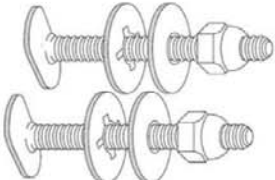
PART NUMBER	SIZE
100	1/4" x 2-1/4"
94	1/4" x 3-1/2"
82	5/16" x 2-1/4"

- With Steel Speed Nuts



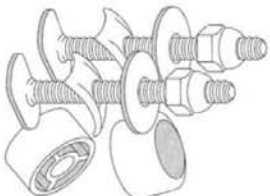
PART NUMBER	SIZE
102	1/4" x 2-1/4"
107	1/4" x 3-1/2"
59	5/16" x 2-1/4"

- With "Push On" Speed Washers



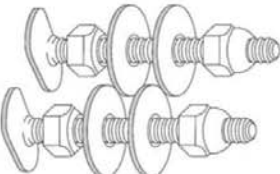
PART NUMBER	SIZE
102-SN	1/4" x 2-1/4"
107-SN	1/4" x 3-1/2"

- With Speed Nuts & Round Plastic Bolt Caps



PART NUMBER	SIZE
106	1/4" x 2-1/4"

- With Hex Speed Nuts



PART NUMBER	SIZE
28	1/4" x 2-1/4"
30	1/4" x 3-1/2"

B-5

# ASIAN HEALTH

UR-1

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*American Standard*

Style That Works Better

 BARRIER FREE

### WASHBROOK™ FloWise® UNIVERSAL URINAL

- Vitreous china
- Ultra High Efficiency, Low Consumption. Operates in the range of 0.125gpf to 1.0gpf (0.5 Lpf to 3.8gpf)
- 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)
- 2 wall hangers
- Fixture only
- Strainer included
- Meets ASME flush requirements at 0.125 to 1.0 gpf

- 6590.001 Universal Top spud
- 6515.001 Universal Back spud

#### Nominal Dimensions:

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

Recommended working pressure – between  
20 psi at valve when flushing and 80 psi static

#### Compliance Certifications -

##### Meets or Exceeds the Following Specifications:

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

## WASHBROOK™ FloWise® UNIVERSAL URINAL

VITREOUS CHINA



SEE REVERSE FOR ROUGHING-IN DIMENSIONS

#### To Be Specified:

- Color:  White  Bone  Linen  Black
- Flush Valve:
  - 1.0 gpf Flush Valve: Sensor-Operated:
    - American Standard Selectronic® #6063.101.002 DC Power (Top Spud)
    - American Standard Selectronic® #6062.310.007 AC Power (Back Spud)
  - 1.0 gpf Flush Valve: Manual-Operated:
    - American Standard # 6045.101.002
  - 0.5 gpf Flush Valve: Sensor-Operated:
    - American Standard Selectronic® #6063.051.002 DC Power (Top Spud)
    - American Standard Selectronic® #6062.305.007 AC Power (Back Spud)
  - 0.5 gpf Flush Valve: Manual-Operated:
    - American Standard #6045.051.002
  - 0.125 gpf Flush Valve: Sensor-Operated:
    - American Standard Selectronic® #6063.013.002 DC Power (Top Spud)
    - American Standard Selectronic® #6062.301.007 AC Power (Back Spud)
  - 0.125 gpf Flush Valve: Manual-Operated:
    - American Standard #6045.013.002



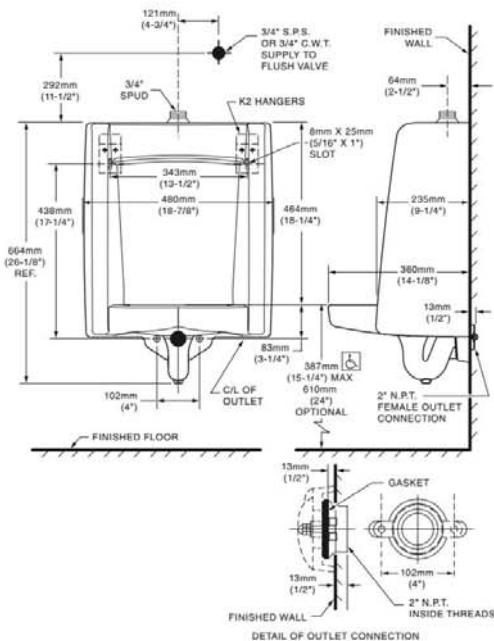


**American Standard**  
Style That Works Better

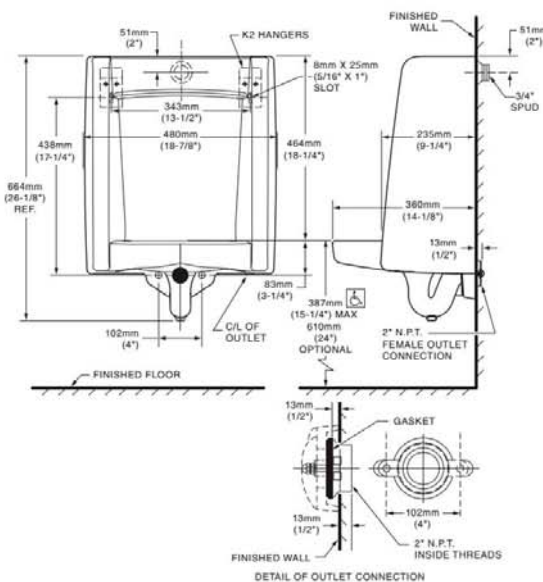
BARRIER FREE

**WASHBROOK™ FloWise®**  
**UNIVERSAL URINAL**  
VITREOUS CHINA

**6590.001 TOP SPUD**



**6515.001 BACK 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.

**NOTES:**  
FLUSH VALVE 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.



Model  
**8186**  
Electronic Valve

**Description**

Exposed, battery-powered, sensor-activated Sloan ECOS® electronic urinal flushometer with Smart Sense Technology™.

**Flush Cycle**

- Model 8186-0.125 High Efficiency (0.125 gpf/0.5 Lpf)
- Model 8186-0.25 High Efficiency (0.25 gpf/1.0 Lpf)
- Model 8186-0.5 High Efficiency (0.5 gpf/1.9 Lpf)

**Specifications**

Quiet, Exposed, Chrome Plated Urinal flushometer for either left or right hand supply with the following features:

For flushing volumes 0.125 gpf and 0.25 gpf:

- Pressure compensating cartridge assembly
- Synthetic rubber seals for chloramine resistance

For flushing volume 0.5 gpf:

- PERMEX® Synthetic Rubber Flex Tube Diaphragm with twin linear filtered bypass and vortex cleansing action
- Flush Accuracy Controlled by CID Technology

For all flushing volumes:

- Latching Solenoid Operator
- Engineered Metal Cover with replaceable Lens Window
- User friendly three (3) second Flush Delay
- Courtesy Flush® Override Button (optional)
- Four (4) Size AA alkaline Batteries included: Duracell® with DURALOCK Power Preserve Technology™ - guaranteed for up to 10 years in storage
- "Low Battery" Flashing LED
- Infrared Sensor Range Adjustment Screw
- Initial Set-up Range Indicator Light (first 10 minutes)
- 3/4" I.P.S. Screwdriver Bak-Chek® Angle Stop
- Free Spinning, Vandal Resistant Stop Cap
- Adjustable Tailpiece
- Spud Coupling and Flange for 3/4" Top Spud
- Reduces water usage up to 80% over standard sensor urinal
- ADA Compliant Sloan ECOS® Battery powered Infrared Sensor for automatic "No Hands" operation
- Infrared sensor with multiple-focused, lobular sensing fields for high and low target detection
- High Back Pressure Vacuum Breaker Flush Connection with One-piece Bottom Hex Coupling Nut
- Sweat Solder Adapter with Cover Tube and Cast Wall Flange with Set Screw
- High Copper, Low Zinc Brass Castings for Dezincification Resistance
- Fixed Metering Bypass and No External Volume Adjustment to Ensure Water Conservation
- Stop Seat and Vacuum Breaker molded from PERMEX® Rubber Compound for Chloramine resistance

Valve Body, Tailpiece and Control Stop shall be in conformance with ASTM Alloy Classification for Semi-Red Brass. Valve in compliance with the applicable sections of ASSE 1037. Installation conforms to ADA requirements.

**Special Finishes**

- PVDPB** Polished Brass
- PVDBN** Brushed Nickel
- PVDSF** Satin Finish

**Variations**

- OR** With Override

**Accessories**

See Accessories Section and Sloan ECOS® accessories section of the Sloan catalog for details on these and other Sloan ECOS® flushometer variations.

**Fixtures**



Shown with optional override button

**Manual Operation**

Sloan ECOS® electronic urinal flushometers are available without an override button to eliminate unnecessary casual activation. The Sloan ECOS® flushometers are offered with an *optional* Override Button to allow a "Courtesy Flush®" for individual user comfort.

**Automatic Operation**

Sloan ECOS® electronic flushometers can also be activated via multi-lobular infrared sensor. By detecting user presence and duration, the Sloan ECOS® Smart Sense Technology™.

**Smart Sense Technology**

The Sloan ECOS® flushometer is equipped with Smart Sense Technology™ which applies extended range and logic techniques to significantly reduce water usage in high use urinal applications; such as when a continuous line of people, also known as a queue, forms. In fact during continuous queue, regardless the number of users, the maximum amount of water used is only 2.0 gallons or less. Please contact Sloan for specific details.

**Functional & Hygienic**

Touchless, sensor operation eliminates the need for user contact to help control the spread of infectious diseases.

**Warranty**

3 year (limited)



This space for Architect/Engineer approval

Job Name \_\_\_\_\_ Date \_\_\_\_\_

Model Specified \_\_\_\_\_ Quantity \_\_\_\_\_

Variations Specified \_\_\_\_\_

Customer/Wholesaler \_\_\_\_\_

Contractor \_\_\_\_\_

Architect \_\_\_\_\_

The information contained in this document is subject to change without notice.

Sloan ECOS 8186 HEU 01-14



**Model 8186**  
**Electronic Valve**

**Description**

Exposed, battery-powered, sensor-activated Sloan ECOS® electronic urinal flushometer with Smart Sense Technology™.

**Flush Cycle**

- Model 8186-0.125 High Efficiency (0.125 gpf/0.5 Lpf)
- Model 8186-0.25 High Efficiency (0.25 gpf/1.0 Lpf)
- Model 8186-0.5 High Efficiency (0.5 gpf/1.9 Lpf)

**ELECTRICAL SPECIFICATIONS**

**Control Circuit**

Solid State  
6 VDC Input  
8 Second Arming Delay  
1-2 Second Flush Delay

**Optima Plus Sensor Type**

Active Infrared

**Optima Plus Sensor Range**

Nominal 15" - 30" (381 mm - 762 mm),  
Adjustable ± 8" (203 mm)

**Battery Type**

(4) Size AA Alkaline: Duracell® with DURALOCK Power Preserve Technology™

**Battery Life**

3 Years @ 4,000 Flushes/Month

**Indicator Lights**

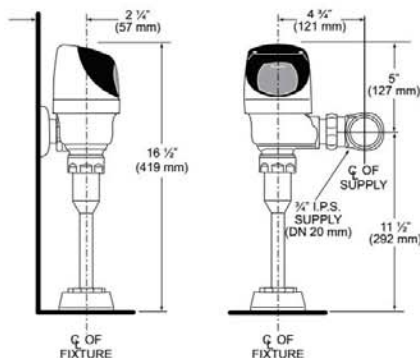
Range Adjustment/Low Battery

**Operating Pressure (Flowing)**

15 - 100 psi (104 - 689 kPa)

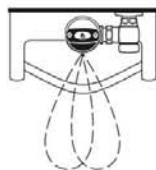
**Sentinel Flush**

Once Every 72 Hours After the Last Flush

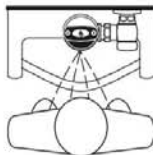


**OPERATION**

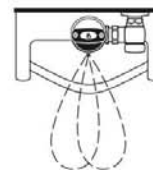
1. A continuous, invisible light beam is emitted from the Sloan ECOS® Sensor.



2. As the user enters the beam's effective range, 15" - 30" (381 mm to 762 mm), the beam is reflected into the scanner window to activate the output circuit. Once activated, the Output Circuit continues in a "hold" mode for as long as the user remains within the effective range of the sensor.

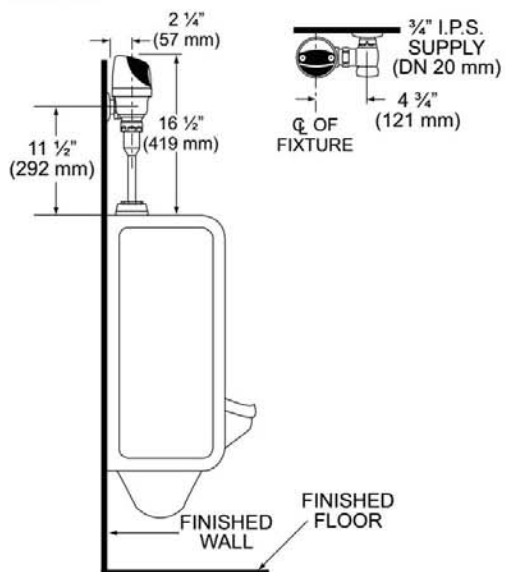


3. When the user steps away from the Sloan ECOS® sensor the sensor initiates an electrical signal that operates the solenoid. This initiates the flushing cycle to flush the fixture. The circuit then automatically resets and is ready for the next user.



**ROUGH-IN**

Model 8186



**SLOAN • 10500 SEYMOUR AVENUE • FRANKLIN PARK, IL 60131**

Phone: 1-800-9-VALVE-9 or 1-847-671-4300 • Fax: 1-800-447-8329 or 1-847-671-4380 • www.sloanvalve.com

# ASIAN HEALTH

S-1

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# ELKAY<sup>®</sup> SPECIFICATIONS


## Elkay Lustertone Stainless Steel 16" x 18-1/2" x 5-3/8" Single Bowl Undermount ADA Sink with Perfect Drain Model(s) **ELUHAD131655PD**

### PRODUCT SPECIFICATIONS

Elkay Lustertone Stainless Steel 16" x 18-1/2" x 5-3/8", Single Bowl Undermount ADA Sink with Perfect Drain. Sink is manufactured from 18 gauge 304 Stainless Steel with a Lustertone finish, Rear Center drain placement, and Full spray sides and bottom.

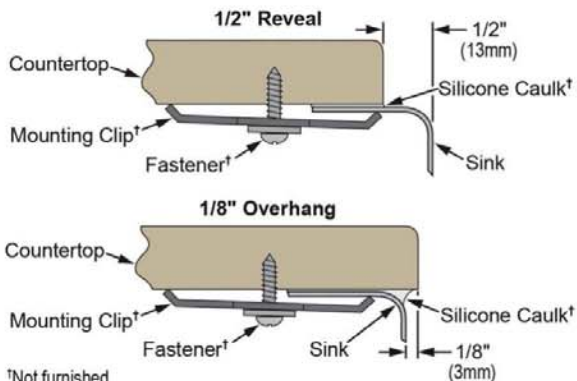
<b>Installation Type:</b>	Undermount
<b>Material:</b>	304 Stainless Steel
<b>Special Features:</b>	Perfect Drain
<b>Finish:</b>	Lustertone
<b>Gauge:</b>	18
<b>Sound Deadening:</b>	Full spray sides and bottom
<b>Number of Bowls:</b>	1
<b>Sink Dimensions:</b>	16" x 18-1/2" x 5-3/8"
<b>Bowl 1 Dimensions:</b>	13-1/2" x 16" x 5-3/8"
<b>Drain Size:</b>	3-3/8" (86mm)
<b>Drain Location:</b>	Rear Center
<b>Minimum Cabinet Size:</b>	21"
<b>Mounting Hardware:</b>	Undermount brackets sold separately
<b>Template Included:</b>	Yes
<b>Cutout Template #:</b>	<a href="#">1000001399</a>

Template is available for download at [elkay.com](#)

 This sink is compliant to ADA and ANSI/ICC A117.1 accessibility requirements when installed according to the requirements outlined in these standards.

**Perfect Drain:** Seamlessly welded stainless steel collar eliminates the gap between a traditional drain and the sink for a sanitary and gap free installation. An InSinkErator® garbage disposer can be installed on either sink bowl for user convenience. **Patent Pending**

#### Installation Profile:



PART: \_\_\_\_\_ QTY: \_\_\_\_\_  
 PROJECT: \_\_\_\_\_  
 CONTACT: \_\_\_\_\_  
 DATE: \_\_\_\_\_  
 NOTES: \_\_\_\_\_  
 APPROVAL: \_\_\_\_\_


In keeping with our policy of continuing product improvement, Elkay reserves the right to change product specifications without notice. Please visit [elkay.com](#) for the 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.



**Included with Product:** One LKPD1 Perfect Drain and Strainer

**AMERICAN PRIDE. A LIFETIME TRADITION.**  
 Like your family, the Elkay family has values and traditions that endure. For almost a century, Elkay has been a family-owned and operated company, providing thousands of jobs that support our families and communities.

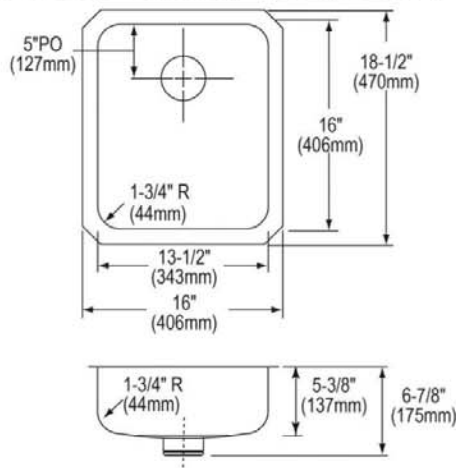


 Sinks are listed by IAPMO® as meeting the applicable requirements of the Uniform Plumbing Code®, International Plumbing Code®, and National Plumbing Code of Canada.

**Product Compliance:** ADA & ICC A117.1  
 ASME A112.19.3/CSA B45.4  
 BUY AMERICAN ACT  
 Accessory: ASME A112.18.2/CSA B125.2

- [Clean and Care Manual \(PDF\)](#)
- [Installation Instructions \(PDF\) - 1000002045](#)
- [Installation Instructions \(PDF\) - 74180289\\_Disposer](#)
- [Installation Instructions \(PDF\) - 74180340-USA\\_Drain](#)
- [Limited Lifetime Warranty \(PDF\)](#)

**Similar models are available with: 4-1/2" and 5" depths**



# ELKAY® SPECIFICATIONS

## Elkay Lustertone Stainless Steel 16" x 18-1/2" x 5-3/8" Single Bowl Undermount ADA Sink with Perfect Drain Model(s) ELUHAD131655PD

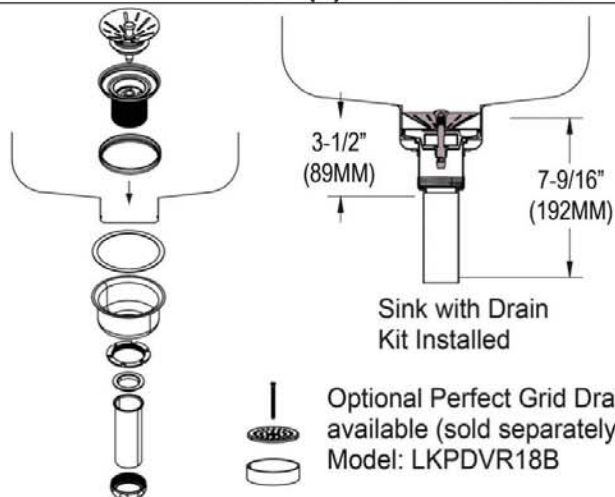
### OPTIONAL ACCESSORIES

<b>Bottom Grid:</b>	LKWOBG1316SS
<b>Cutting Board:</b>	CB1613*, CB1713*, CBS1316*
<b>Drain:</b>	LKPDVR18B, LKPDAD18B, LKDS99
<b>Faucet:</b>	LKGT1042, LKGT2042
<b>Hardware:</b>	LKUCLIP8
<b>Rinsing Basket:</b>	LKWRB1316SS, LKWERBSS
<b>Sinkmate:</b>	LKSM17, LKSMHOOK, LKSMSPONGE, LKSMHSL
<b>Soap Dispenser:</b>	LKGT1054
* 1/2" sink reveal required for proper fit.	

**in sink erator®**

Elkay® Perfect Drain™ sinks are designed and approved for compatible disposers manufactured by InSinkErator® utilizing the Quick Lock® mounting configuration. Use of non-approved disposers may void Elkay warranty.

InSinkErator, Quick Lock and the mounting collar configuration are trademarks of Emerson Electric Co.



Optional Perfect Grid Drain  
available (sold separately)  
Model: LKPDVR18B

*In keeping with our policy of continuing product improvement, Elkay reserves the right to change product specifications without notice. Please visit [elkay.com](http://elkay.com) for the 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.*

*American  
Standard*

**MONTERREY™ TWO-HANDLE CENTERSET LAVATORY  
FAUCET WITH LAMINAR FLOW IN BASE OF SPOUT  
RIGID/SWIVEL GOOSENECK SPOUT WITH 8" REACH**

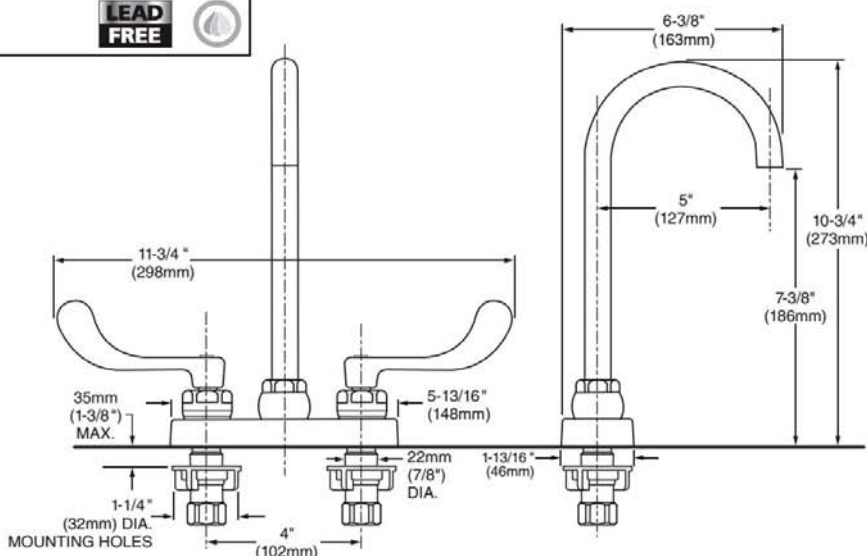


7500.180 Shown

**MODEL NUMBER:\***

**7500.180 Centerset Lavatory**

1.5 gpm Pressure Compensating Laminar Flow device in base of spout. Field-Convertible rigid/swivel gooseneck spout. Plain spout end. Vandal-Resistant Wrist Blade handles. Less drain and pop-up hole.



**GENERAL DESCRIPTION:**

Durable cast brass construction. 1/2" male threaded inlet shanks with brass shank nuts and coupling nuts. 1/4 turn ceramic disc valve cartridges. Field-Convertible rigid/swivel spout. Plain spout end. Vandal-Resistant Wrist Blade with blue & red color indexes. 1.5 gpm/5.7L/min. maximum flow rate.

**PRODUCT FEATURES:**

**Laminar Flow Device in Base of Spout:** Ideal for hospital applications.

**Solid Brass Construction:** Durable - Excellent in high use applications. Ideal for prolonged contact with water.

**Ceramic Disc Valve Cartridge:** Assures a lifetime of drip-free performance.

**Field-Convertible Rigid/Swivel Spout:** Easily converted in the field.

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

**SUGGESTED SPECIFICATION:**

4" centerset lavatory faucet shall be cast brass construction with all brass shank nuts and coupling nuts. Shall feature water-conserving 1.5 gpm/5.7L/min. pressure compensating laminar flow device in base of spout. Vandal-Resistant wrist blade handles. 1/4 turn washerless ceramic disc valve cartridges. Shall also feature field-convertible rigid/swivel spout with plain spout end. Fitting shall be American Standard Model # 7500.180.002.

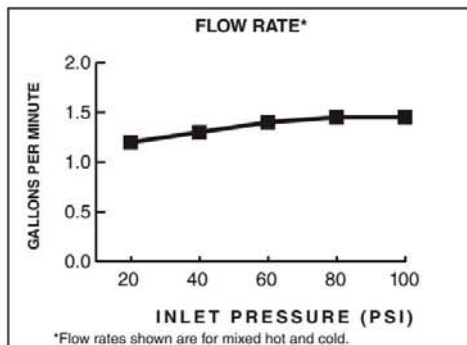


**MONTERREY™ TWO-HANDLE CENTERSET LAVATORY FAUCET WITH LAMINAR FLOW IN BASE OF SPOUT RIGID/SWIVEL GOOSENECK SPOUT WITH 8" REACH**

**CODES AND STANDARDS**

These products meet or exceed the following codes and standards:

- ANSI 117.1
- ASME A112.18.1
- CSA B 125
- NSF 61/Section 9 and Annex G





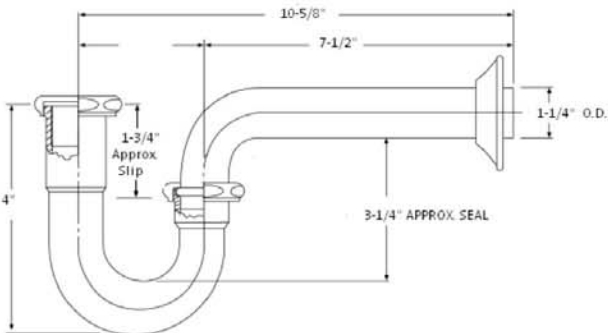
Product Number	Description	Finish
		Polished Chrome
7500.180	Centerset Lavatory with field-convertible rigid/swivel gooseneck spout. 1.5 gpm/5.7L/min pressure compensating laminar flow device in base of spout. Plain spout end. Vandal-Resistant Wrist Blade Handles. Less drain and pop-up hole.	002

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

**Other Aerators Available:**

Part Suffix	Description
L10	1.0 gpm (3.8 Lpm) PCA Non-Aerated Laminar Flow Outlet



 <b>Dearborn® Brass</b> <small>4675 W. 160th St. Cleveland, Ohio 44135 Ph: (800) 321-9532 Fax: (800) 321-9535 www.dearbornbrass.com</small> <b>SUBMITTAL SPECIFICATION</b>	<b>BRASS TUBULAR 1-½" P-TRAP WITHOUT CLEANOUT</b>																																																																																											
<b>Engineering Specification:</b> Dearborn Brass 1-½" Brass Tubular P-Trap without Cleanout are designed for use in tubular drain applications. Available in 17, 20 or Budget Gauge Brass. Options include Brass Nuts, Deep Flange, Longer Wall Tube, Ground Joint and Unfinished Brass.		<b>Job Reference</b>																																																																																										
<div style="display: flex; justify-content: space-between;"> <div style="width: 60%;"> <p><b>DESCRIPTION</b></p> <ul style="list-style-type: none"> <li>• Chrome Finished</li> <li>• 1-½" P-Trap Without Cleanout                             <ul style="list-style-type: none"> <li>○ (1) Metal Flange</li> <li>○ (1) Quarter Bend</li> <li>○ (1) J-Bend</li> <li>○ (2) Rubber Washers</li> <li>○ (2) Nuts</li> </ul> </li> </ul> </div> <div style="width: 35%; text-align: center;">  </div> </div> <div style="margin-top: 20px;">  </div> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 20px;"> <thead> <tr> <th style="width: 5%;"></th> <th style="width: 15%;">Product No.</th> <th style="width: 55%;">Description</th> <th style="width: 10%;">Carton Quantity</th> <th style="width: 15%;">Carton Weight (lbs)</th> </tr> </thead> <tbody> <tr><td>✓</td><td>2702-1</td><td>1-½" P-Trap – Budget Ga.</td><td>25</td><td>23</td></tr> <tr><td></td><td>2702DF-1</td><td>1-½" p-Trap – Budget Ga. w/ Deep Flange</td><td>25</td><td>25</td></tr> <tr><td></td><td>702-1</td><td>1-½" P-Trap – 20 Ga.</td><td>25</td><td>28</td></tr> <tr><td></td><td>702BN-1</td><td>1-½" P-Trap – 20 Ga. w/Brass Nuts</td><td>25</td><td>30</td></tr> <tr><td></td><td>702DF-1</td><td>1-½" P-Trap – 20 Ga. w/ Deep Flange</td><td>25</td><td>29</td></tr> <tr><td></td><td>702DFBN-1</td><td>1-½" P-Trap – 20 Ga. w/ Deep Flange and Brass Nuts</td><td>25</td><td>31</td></tr> <tr><td></td><td>702A-1</td><td>1-½" P-Trap – 20 Ga. w/ 11.25" Wall Tube</td><td>25</td><td>35</td></tr> <tr><td>✓</td><td>704-1</td><td>1-½" P-Trap – 17 Ga.</td><td>25</td><td>35</td></tr> <tr><td></td><td>H704-3</td><td>1-½" P-Trap – 17 Ga., Unfinished Brass – Display Box</td><td>6</td><td>8</td></tr> <tr><td></td><td>704BN-1</td><td>1-½" P-Trap – 17 Ga. w/ Brass Nuts</td><td>25</td><td>36</td></tr> <tr><td></td><td>704DF-1</td><td>1-½" P-Trap – 17 Ga. w/ Deep Flange</td><td>25</td><td>36</td></tr> <tr><td></td><td>704DFBN-1</td><td>1-½" P-Trap – 17 Ga. w/ Deep Flange and Brass Nuts</td><td>25</td><td>38</td></tr> <tr><td></td><td>704A-1</td><td>1-½" P-Trap – 17 Ga. w/ 10" Wall Tube</td><td>25</td><td>39</td></tr> <tr><td></td><td>704G-1</td><td>1-½" P-Trap – 17 Ga. w/ Ground Joint</td><td>25</td><td>36</td></tr> <tr><td></td><td>704GBN-1</td><td>1-½" P-Trap – 17 Ga. w/ Ground Joint and Brass Nuts</td><td>25</td><td>37</td></tr> <tr><td></td><td>704GBN-3</td><td>1-½" P-Trap – 17 Ga. w/ Ground Joint and Brass Nuts, Unfinished Brass</td><td>25</td><td>38</td></tr> <tr><td></td><td>704GDFBN-1</td><td>1-½" P-Trap – 17 Ga. w/ Ground Joint, Deep Flange and Brass Nuts</td><td>25</td><td>37</td></tr> </tbody> </table> <p style="font-size: small; margin-top: 10px;">Data is subject to manufacturing tolerances.</p>				Product No.	Description	Carton Quantity	Carton Weight (lbs)	✓	2702-1	1-½" P-Trap – Budget Ga.	25	23		2702DF-1	1-½" p-Trap – Budget Ga. w/ Deep Flange	25	25		702-1	1-½" P-Trap – 20 Ga.	25	28		702BN-1	1-½" P-Trap – 20 Ga. w/Brass Nuts	25	30		702DF-1	1-½" P-Trap – 20 Ga. w/ Deep Flange	25	29		702DFBN-1	1-½" P-Trap – 20 Ga. w/ Deep Flange and Brass Nuts	25	31		702A-1	1-½" P-Trap – 20 Ga. w/ 11.25" Wall Tube	25	35	✓	704-1	1-½" P-Trap – 17 Ga.	25	35		H704-3	1-½" P-Trap – 17 Ga., Unfinished Brass – Display Box	6	8		704BN-1	1-½" P-Trap – 17 Ga. w/ Brass Nuts	25	36		704DF-1	1-½" P-Trap – 17 Ga. w/ Deep Flange	25	36		704DFBN-1	1-½" P-Trap – 17 Ga. w/ Deep Flange and Brass Nuts	25	38		704A-1	1-½" P-Trap – 17 Ga. w/ 10" Wall Tube	25	39		704G-1	1-½" P-Trap – 17 Ga. w/ Ground Joint	25	36		704GBN-1	1-½" P-Trap – 17 Ga. w/ Ground Joint and Brass Nuts	25	37		704GBN-3	1-½" P-Trap – 17 Ga. w/ Ground Joint and Brass Nuts, Unfinished Brass	25	38		704GDFBN-1	1-½" P-Trap – 17 Ga. w/ Ground Joint, Deep Flange and Brass Nuts	25	37
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Visit [www.dearbornbrass.com](http://www.dearbornbrass.com) for updates

06/2009

*For Residential and Commercial Applications*

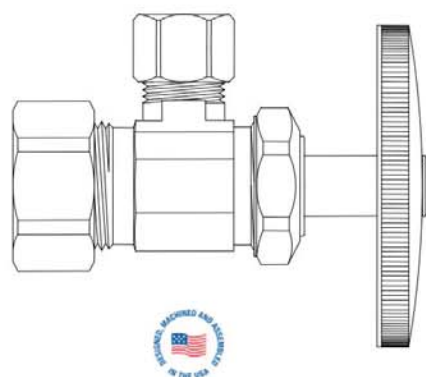
Job Name		Engineer / Architect	
Job Location		Wholesaler	
Submittal Date		Contractor	

## OCR1B/ OCR3B & OCR09/ OCR19/ OCR39/ OCR49 Multi-Turn Angle Stop – Compression x Compression

**Use:** For use in potable water distribution systems. Not intended for recirculating water systems that produce continuous use temperatures above 115° F. For those applications, use BrassCraft KT series ball stops

**Design Features:**

- **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 protects accidental stop operation during rough-ins
- **Compliant Stops** available for California and Vermont “low-lead” requirements



**Operating Specifications:**

**Temperature:** 40°- 140° F  
**Pressure:** 125 psi maximum



**Standard**

MATERIAL SPECIFICATIONS	
<b>Valve Body</b>	C36000 brass
<b>Stem</b>	POM or C36000 brass*
<b>Bib &amp; Packing Washers</b>	Nitrile or EPDM rubber
<b>Packing Nut</b>	C36000 brass
<b>Handle</b>	Plated metal, chrome-plated ABS or Lexan
<b>Handle Screw</b>	Zinc-plated steel
<b>Compression Sleeve</b>	C36000 brass
<b>Compression Nut</b>	C36000 brass, chrome plated

\*Where specified

**Compliant**

MATERIAL SPECIFICATIONS	
<b>Valve Body</b>	Compliant brass
<b>Stem</b>	POM or Compliant brass*
<b>Bib &amp; Packing Washers</b>	Nitrile or EPDM rubber
<b>Packing Nut</b>	Compliant brass
<b>Handle</b>	ABS, chrome plated
<b>Handle Screw</b>	Zinc-plated steel
<b>Compression Sleeve</b>	Compliant brass
<b>Compression Nut</b>	C36000 brass, chrome plated

**Standard Part Listing:**

- OCR1B C 3/8" Nom. Compression x 3/8" OD Compression, chrome plated
- OCR1B C1 3/8" Nom. Compression x 3/8" OD Compression, chrome plated, window box
- OCR1BZ C 3/8" Nom. Compression x 3/8" OD Compression, brass stem, chrome plated
- OCR3B C 3/8" Nom. Compression x 1/2" OD Compression, chrome plated
- OCR09 C 1/2" Nom. Compression x 1/4" OD Compression, chrome plated
- OCR09 C1 1/2" Nom. Compression x 1/4" OD Compression, chrome plated, window box
- OCR09 CBT 1/2" Nom. Compression x 1/4" OD Compression, chrome plated, bulk

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400.28 OCR09/19/39 Multi-Turn Angle Stop - Compr x Compr REV 01/11

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## OCR1B/ OCR3B & OCR09/ OCR19/ OCR39/ OCR49 Multi-Turn Angle Stop – Compression x Compression

### Standard Part Listing (con't):

<input type="checkbox"/>	OCR09 R	1/2" Nom. Compression x 1/4" OD Compression, rough brass
<input type="checkbox"/>	OCR09Z C	1/2" Nom. Compression x 1/4" OD Compression, brass stem, chrome plated
<input type="checkbox"/>	OCR09Z R	1/2" Nom. Compression x 1/4" OD Compression, brass stem, rough brass
<input type="checkbox"/>	OCR19 C	1/2" Nom. Compression x 3/8" OD Compression, chrome plated
<input type="checkbox"/>	OCR19 CBT	1/2" Nom. Compression x 3/8" OD Compression, chrome plated, bulk
<input type="checkbox"/>	OCR19 C1	1/2" Nom. Compression x 3/8" OD Compression, chrome plated, window box
<input type="checkbox"/>	OCR19 BZ	1/2" Nom. Compression x 3/8" OD Compression, oil rubbed bronze
<input type="checkbox"/>	OCR19 NP	1/2" Nom. Compression x 3/8" OD Compression, polished nickel
<input type="checkbox"/>	OCR19 NS	1/2" Nom. Compression x 3/8" OD Compression, satin nickel
<input type="checkbox"/>	OCR19 P	1/2" Nom. Compression x 3/8" OD Compression, polished brass
<input type="checkbox"/>	OCR19 R	1/2" Nom. Compression x 3/8" OD Compression, rough brass
<input type="checkbox"/>	OCR19 RB	1/2" Nom. Compression x 3/8" OD Compression, rough brass, bulk
<input type="checkbox"/>	OCR19 RBT	1/2" Nom. Compression x 3/8" OD Compression, rough brass, bulk
<input type="checkbox"/>	OCR19 R1	1/2" Nom. Compression x 3/8" OD Compression, rough brass, window box
<input type="checkbox"/>	OCR19K C	1/2" Nom. Compression x 3/8" OD Compression, plastic handle, chrome plated
<input type="checkbox"/>	OCR19K CB	1/2" Nom. Compression x 3/8" OD Compression, plastic handle, chrome plated, bulk
<input type="checkbox"/>	OCR19KL1 CB	1/2" Nom. Compression x 3/8" OD Compression, less outlet nut, plastic handle, chrome plated, bulk
<input type="checkbox"/>	OCR19KL1 RB	1/2" Nom. Compression x 3/8" OD Compression, less outlet nut, plastic handle, rough brass, bulk
<input type="checkbox"/>	OCR19L1 CB	1/2" Nom. Compression x 3/8" OD Compression, less outlet nut, chrome plated, bulk
<input type="checkbox"/>	OCR19L1 RB	1/2" Nom. Compression x 3/8" OD Compression, less outlet nut, rough brass, bulk
<input type="checkbox"/>	OCR19L4 C100T	1/2" Nom. Compression x 3/8" OD Compression, less inlet nut, chrome plated, bulk
<input type="checkbox"/>	OCR19P C	1/2" Nom. Compression x 3/8" OD Compression, less handle, handle screw included, chrome plated
<input type="checkbox"/>	OCR19P R	1/2" Nom. Compression x 3/8" OD Compression, less handle, handle screw included, rough brass
<input type="checkbox"/>	OCR19PX C	1/2" Nom. Compression x 3/8" OD Compression, PEX insert, chrome plated
<input type="checkbox"/>	OCR19PX R	1/2" Nom. Compression x 3/8" OD Compression, PEX insert, rough brass
<input type="checkbox"/>	OCR19T CB	1/2" Nom. Compression x 3/8" OD Compression, chrome plated, no tray, bulk
<input type="checkbox"/>	OCR19Z C	1/2" Nom. Compression x 3/8" OD Compression, brass stem, chrome plated
<input type="checkbox"/>	OCR19Z R	1/2" Nom. Compression x 3/8" OD Compression, brass stem, rough brass
<input type="checkbox"/>	OCR29 C	1/2" Nom. Compression x 7/16" OD Compression, chrome plated
<input type="checkbox"/>	OCR29 C1	1/2" Nom. Compression x 7/16" OD Compression, chrome plated, window box
<input type="checkbox"/>	OCR29 R	1/2" Nom. Compression x 7/16" OD Compression, rough brass
<input type="checkbox"/>	OCR29Z C	1/2" Nom. Compression x 7/16" OD Compression, brass stem, chrome plated
<input type="checkbox"/>	OCR39 C	1/2" Nom. Compression x 1/2" OD Compression, chrome plated
<input type="checkbox"/>	OCR39 CBT	1/2" Nom. Compression x 1/2" OD Compression, chrome plated, bulk
<input type="checkbox"/>	OCR39 C1	1/2" Nom. Compression x 1/2" OD Compression, chrome plated, window box
<input type="checkbox"/>	OCR39 R	1/2" Nom. Compression x 1/2" OD Compression, rough brass
<input type="checkbox"/>	OCR39Z C	1/2" Nom. Compression x 1/2" OD Compression, brass stem, chrome plated
<input type="checkbox"/>	OCR49 C	1/2" Nom. Compression x 5/8" OD Compression, chrome plated
<input type="checkbox"/>	OCR49Z C	1/2" Nom. Compression x 5/8" OD Compression, brass stem, chrome plated

### Compliant Part Listing:

<input type="checkbox"/>	OCR09X C	1/2" Nom. Compression x 1/4" OD Compression, chrome plated
<input type="checkbox"/>	OCR09X C1	1/2" Nom. Compression x 1/4" OD Compression, chrome plated, window box

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**BrassCraft®**

400.28 OCR09/19/39 Multi-Turn Angle Stop - Compr x Compr REV 01/11

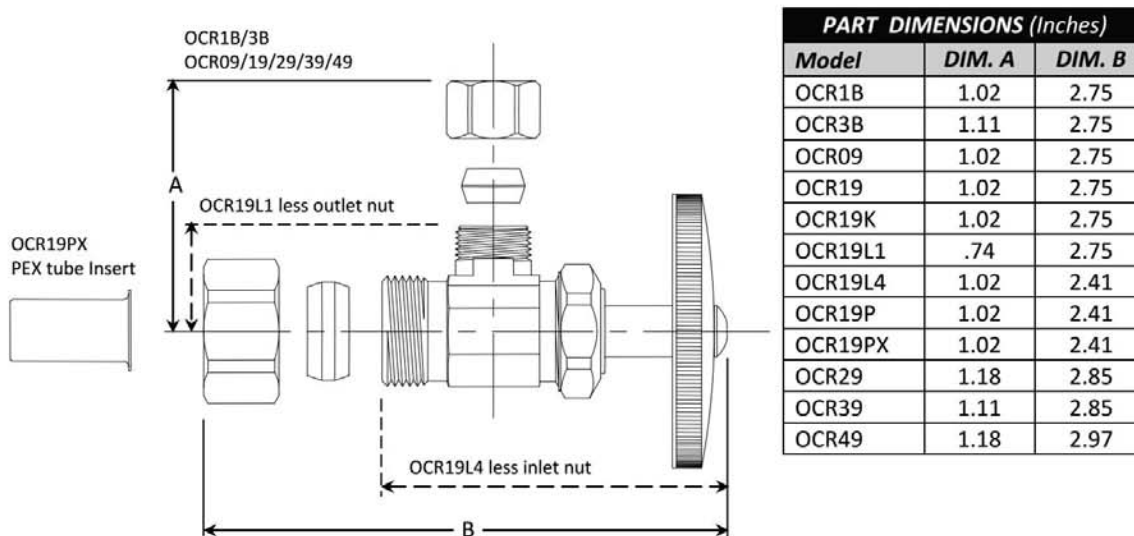
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## OCR1B/ OCR3B & OCR09/ OCR19/ OCR39/ OCR49 Multi-Turn Angle Stop – Compression x Compression

### Compliant Part Listing (con't):

<input type="checkbox"/>	OCR09X R	1/2" Nom. Compression x 1/4" OD Compression, rough brass
<input checked="" type="checkbox"/>	OCR19X C	1/2" Nom. Compression x 3/8" OD Compression, chrome plated
<input type="checkbox"/>	OCR19X C1	1/2" Nom. Compression x 3/8" OD Compression, chrome plated, window box
<input type="checkbox"/>	OCR19X R	1/2" Nom. Compression x 3/8" OD Compression, rough brass
<input type="checkbox"/>	OCR19X R1	1/2" Nom. Compression x 3/8" OD Compression, rough brass, window box
<input type="checkbox"/>	OCR19L1X CB	1/2" Nom. Compression x 3/8" OD Compression, less outlet nut, chrome plated, bulk
<input type="checkbox"/>	OCR19L1X RB	1/2" Nom. Compression x 3/8" OD Compression, less outlet nut, rough brass, bulk
<input type="checkbox"/>	OCR19L4X C100T	1/2" Nom. Compression x 3/8" OD Compression, less inlet nut, chrome plated, 100 per case
<input type="checkbox"/>	OCR19PXX C	1/2" Nom. Compression x 3/8" OD Compression, PEX insert, chrome plated
<input type="checkbox"/>	OCR19ZX C	1/2" Nom. Compression x 3/8" OD Compression, brass stem, chrome plated
<input type="checkbox"/>	OCR29X C	1/2" Nom. Compression x 7/16" OD Compression, chrome plated
<input type="checkbox"/>	OCR29X C1	1/2" Nom. Compression x 7/16" OD Compression, chrome plated, window box
<input type="checkbox"/>	OCR29X R	1/2" Nom. Compression x 7/16" OD Compression, rough brass
<input type="checkbox"/>	OCR39X C	1/2" Nom. Compression x 1/2" OD Compression, chrome plated
<input type="checkbox"/>	OCR39X CBT	1/2" Nom. Compression x 1/2" OD Compression, chrome plated, bulk
<input type="checkbox"/>	OCR39X C1	1/2" Nom. Compression x 1/2" OD Compression, chrome plated, window box
<input type="checkbox"/>	OCR39X R	1/2" Nom. Compression x 1/2" OD Compression, rough brass



### Listings & Certifications:

- IAPMO listed to ASME A112.18.1-05 / CSA B125.1-05 (File # 0645)
- CSA listed to ASME A112.18.1-05 / CSA B125.1-05 (File # 204593)
- Compliant product CSA approved to California Health & Safety Code 116875 and Vermont Bill S.152 (Project # 2174785)




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400.28 OCR09/19/39 Multi-Turn Angle Stop - Compr x Compr REV 01/11

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**PASCO Specialty & Mfg., Inc.**

11156 Wright Road  
Lynwood, CA 90262  
Phone (310) 537-7782  
Fax (800) 737-2726  
www.pascospecialty.com

7529 Perryman Court  
Curtis Bay, MD 21226  
Phone (410) 360-5010  
Fax (877) 377-6466

**TECHNICAL SPECIFICATION SUBMITTAL**

Chrome plated steel or stainless steel escutcheon or flange for steel, copper, plastic pipe used in plumbing.

Job Name \_\_\_\_\_ Date \_\_\_\_\_

Model Specified \_\_\_\_\_ Quantity \_\_\_\_\_

Customer/Wholesaler \_\_\_\_\_


Contractor \_\_\_\_\_

Architect/Engineer \_\_\_\_\_

---

**Engineering Specification: A chrome plated steel or stainless steel escutcheon or flange to cover the connection between a sink drain wall bend and the trap adapter at the sanitary tee or other connections where pipe wall penetrations occur.**

- Sure grip style for snug fit
- Domestic or foreign manufacture



**Chrome Plated Steel**

PART NUMBER	IPS	CWT	OUTSIDE DIAMETER
1224	1-1/2" Tubular		3"
1225	3/8"	--	2-1/2"
1226	1/2"	--	2-1/2"
1227	3/4"	--	2-1/2"
1228	1-1/2"	--	3"
1229	2"	--	3-1/4"
1230	--	1/2"	2-1/2"
1231	--	3/4"	2-1/2"
1232	1-1/4"	1-1/2"	3"
1233	1"	--	2-3/4"
1240	--	2"	3-1/2"
1241	--	1"	2-3/4"
1244	1-1/4" Tubular		3"

**Stainless Steel - Grade 304**

1226-SS	1/2"	--	2-1/2"
1227-SS	3/4"	--	2-1/2"
1228-SS	1-1/2"	--	3-1/2"
1229-SS	2"	--	3-1/2"
1230-SS	--	1/2"	2-1/2"
1231-SS	--	3/4"	2-1/2"
37244	1-1/4" Tubular		3"
37224	1-1/2" Tubular		3"

11/16/10

**Flanges - Escutcheons for Steel, Copper, Plastic Pipe**

tss012

# WATER SUPPLY CONNECTORS



Meeting the demands of the Pro, Fluidmaster® has added new professional-grade faucet and toilet connectors to the Fluidmaster PRO Series™ line. This new line features 18 of the most popular braided stainless steel connectors with No-Burst® technology. Backed by a 10-year warranty, for professional installation only.

## TOILET



- No-Burst® braided stainless steel
- Lengths range from 9" to 20"
- Ample inside diameter for high flow capacity
- Won't kink or crease, even in the tightest of spaces
- Exceeds all requirements for flexible water connectors as defined by ASME A112.18.6 and CSA B125
- 10-year warranty

## FAUCET



- No-Burst® braided stainless steel
- Lengths range from 12" to 30"
- Ample inside diameter for high flow capacity
- Won't kink or crease, even in the tightest of spaces
- Exceeds all requirements for flexible water connectors as defined by ASME A112.18.6 and CSA B125
- 10-year warranty

TOILET

MODEL NUMBER	UPC 0 39961	CONNECTOR CONFIGURATION	PACK QTY	CASE DIMENSIONS W/D/H INCHES	CUBIC FEET	CASE WEIGHT	SCC 1 2 OF 5 100 39961
PR01T09	10011 5		25	6.75 x 9.75 x 5.00	0.20	5.00	10011 2
PR01T12	10013 9	3/8" Female Compression Thread X 7/8" Female Ballcock Thread	25	6.75 x 13.75 x 5.00	0.27	6.00	10013 6
PR01T20	10014 6		25	8.25 x 16.75 x 5.00	0.40	8.00	10014 3
PR04T09	10021 4		25	6.75 x 9.75 x 5.00	0.20	5.00	10021 1
PR04T12	10022 1	1/2" I.P. Female Straight Thread X 7/8" Female Ballcock Thread	25	6.75 x 13.75 x 5.00	0.27	6.00	10022 8
PR04T20	10023 8		25	8.25 x 16.75 x 5.00	0.40	8.00	10023 5

FAUCET

PR01F12	10012 2		25	6.75 x 13.75 x 5.00	0.27	6.00	10012 9
PR01F16	10016 0	3/8" Female Compression Thread	25	8.25 x 16.75 x 5.00	0.40	7.00	10016 7
PR01F20	10020 7	X 1/2" I.P. Female Straight Thread	25	8.25 x 16.75 x 5.00	0.40	8.00	10020 4
PR01F30	10030 6		25	8.25 x 16.75 x 5.00	0.40	10.00	10030 3
PR04F12	10015 3		25	6.75 x 13.75 x 5.00	0.27	7.00	10015 0
PR04F16	10017 7	1/2" I.P. Female Straight Thread	25	8.25 x 16.75 x 5.00	0.40	8.00	10017 4
PR04F20	10018 4	X 1/2" I.P. Female Straight Thread	25	8.25 x 16.75 x 5.00	0.40	8.00	10018 1
PR04F30	10019 1		25	8.25 x 16.75 x 5.00	0.40	11.00	10019 8
PR06F12	10024 5	3/8" Female Compression	25	6.75 x 13.75 x 5.00	0.27	6.00	10024 2
PR06F20	10025 2	X 3/8" Female Compression	25	8.25 x 16.75 x 5.00	0.40	7.00	10025 9
PR08F12	10026 9	3/8" Female Compression Thread	25	6.75 x 13.75 x 5.00	0.27	6.00	10026 6
PR08F20	10027 6	X 3/8" O.D. Copper Tubing Coupling	25	8.25 x 16.75 x 5.00	0.40	8.00	10027 3

# ASIAN HEALTH

S-2

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# ELKAY<sup>®</sup> SPECIFICATIONS


## Gourmet (Lustertone<sup>®</sup>) Stainless Steel Double Bowl Undermount Perfect Drain Sink Model(s) **ELUHAD311845PD**

### PRODUCT SPECIFICATIONS

Gourmet (Lustertone<sup>®</sup>) Stainless Steel Double Bowl Undermount Perfect Drain Sink. Overall dimensions are 30-3/4" x 18-1/2" x 4-3/8". Sink is manufactured from 18 gauge 304 Stainless Steel with a Lustrous Highlighted Satin finish, Rear Center drain placement Full spray sides and bottom.

<b>Installation Type:</b>	Undermount
<b>Material:</b>	304 Stainless Steel
<b>Special Features:</b>	Perfect Drain
<b>Finish:</b>	Lustrous Highlighted Satin
<b>Gauge:</b>	18
<b>Sound Deadening:</b>	Full spray sides and bottom
<b>Number of Bowls:</b>	2
<b>Sink Dimensions:</b>	30-3/4" x 18-1/2" x 4-3/8"
<b>Bowl 1 Dimensions:</b>	13-1/2" x 16" x 4-3/8"
<b>Bowl 2 Dimensions:</b>	13-1/2" x 16" x 4-3/8"
<b>Drain Size:</b>	3-3/8" (86mm)
<b>Drain Location:</b>	Rear Center
<b>Minimum Cabinet Size:</b>	36"
<b>Mounting Hardware:</b>	Undermount brackets sold separately
<b>Template Included:</b>	Yes
<b>Cutout Template #:</b>	<a href="#">1000001312</a>

Template is available for download at [elkay.com](http://elkay.com)

 This sink is compliant to ADA and ANSI/ICC A117.1 accessibility requirements when installed according to the requirements outlined in these standards.


**Perfect Drain:** Seamlessly welded stainless steel collar eliminates the gap between a traditional drain and the sink for a sanitary and gap free installation. An InSinkErator<sup>®</sup> garbage disposer can be installed on either sink bowl for user convenience. **Patent Pending**



**Included with Product:** Two LKPD1 Perfect Drain Strainer Assemblies

AMERICAN PRIDE. A LIFETIME TRADITION. Like your family, the Elkay family has values and traditions that endure. For almost a century, Elkay has been a family-owned and operated company, providing thousands of jobs that support our families and communities.

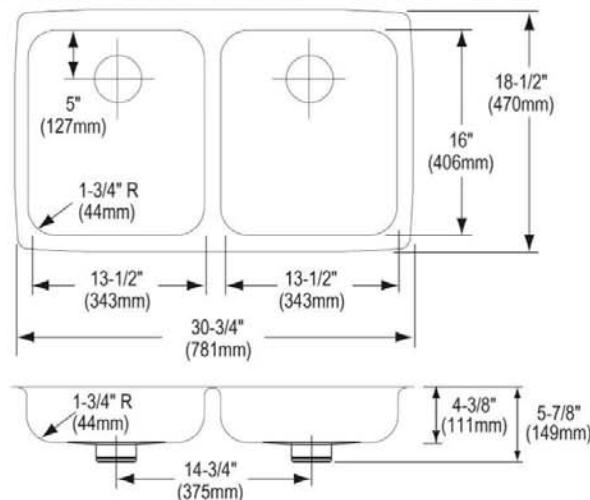


 Sinks are listed by IAPMO<sup>®</sup> as meeting the applicable requirements of the Uniform Plumbing Code<sup>®</sup>, International Plumbing Code<sup>®</sup>, and National Plumbing Code of Canada.

**Product Compliance:** ADA  
BUY AMERICAN ACT  
ASME A112.19.3/CSA B45.4  
Accessory: ASME A112.18.2/CSA B125.2

[Clean and Care Manual \(PDF\)](#)  
[Installation Instructions \(PDF\) - 1000002045](#)  
[Installation Instructions \(PDF\) - 74180289\\_Disposer](#)  
[Installation Instructions \(PDF\) - 74180340-USA\\_Drain](#)  
[Limited Lifetime Warranty \(PDF\)](#)

**Similar models are available with:** additional ADA depths



PART: \_\_\_\_\_ QTY: \_\_\_\_\_  
 PROJECT: \_\_\_\_\_  
 CONTACT: \_\_\_\_\_  
 DATE: \_\_\_\_\_  
 NOTES: \_\_\_\_\_  
 APPROVAL: \_\_\_\_\_

In keeping with our policy of continuing product improvement, Elkay reserves the right to change product specifications without notice. Please visit [elkay.com](http://elkay.com) for the 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.

Elkay REV 06232016  
[ELUHAD311845PD](#)

2222 Camden Court  
Oak Brook, IL 60523

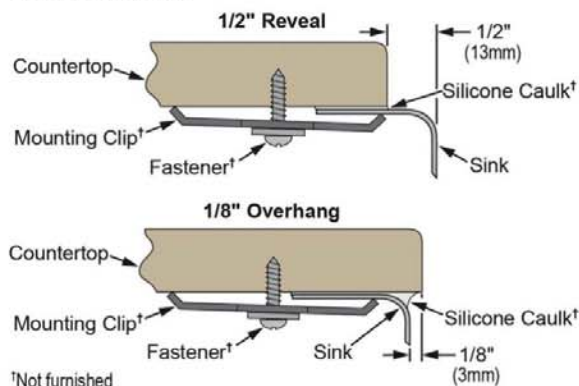
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ELUHAD311845PD\_spec.pdf



**ELKAY®**  
SPECIFICATIONS

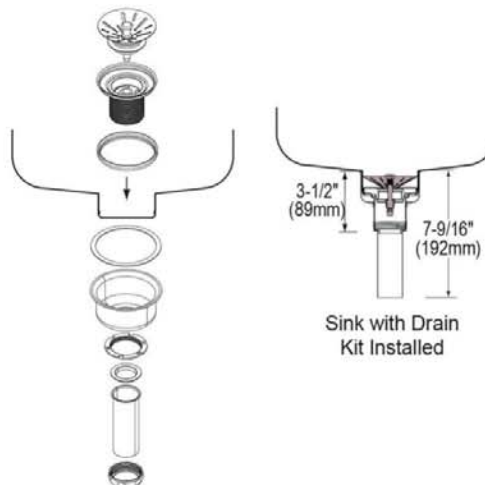
Gourmet (Lustertone®) Stainless Steel  
Double Bowl Undermount Perfect Drain Sink  
**Model(s) ELUHAD311845PD**

**Installation Profile:**



†Not furnished

*Designed to affix to the underside of any solid surface countertop.*



**OPTIONAL ACCESSORIES**

<b>Bottom Grid:</b>	LKWOBG1316SS
<b>Cutting Board:</b>	CB1613*, CB1713*, CBR1316*, CBS1316*
<b>Drain:</b>	LKDS99, LKDS35
<b>Faucet:</b>	LKGT1041, LKGT2041
<b>Hardware:</b>	LKUCLIP8 (2 Required)
<b>Rinsing Basket:</b>	LKWRB1316SS, LKWERBSS
<b>Sinkmate:</b>	LKSM17, LKSMHOOK, LKSMSPONGE, LKSMHSL
<b>Soap Dispenser:</b>	LKGT1054

\* 1/2" sink reveal required for proper fit.

**in sink erator®**

Elkay® Perfect Drain™ sinks are designed and approved for compatible disposers manufactured by InSinkErator® utilizing the Quick Lock® mounting configuration. Use of non-approved disposers may void Elkay warranty.

InSinkErator, Quick Lock and the mounting collar configuration are trademarks of Emerson Electric Co.



*In keeping with our policy of continuing product improvement, Elkay reserves the right to change product specifications without notice. Please visit [elkay.com](http://elkay.com) for the 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.*

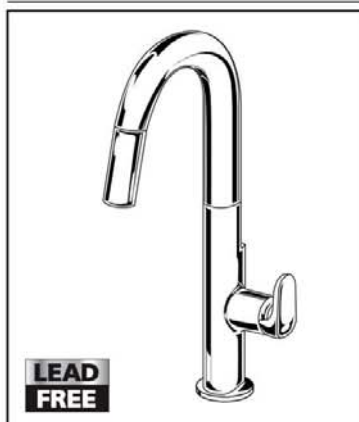
Elkay REV 06232016  
[ELUHAD311845PD](http://ELUHAD311845PD)

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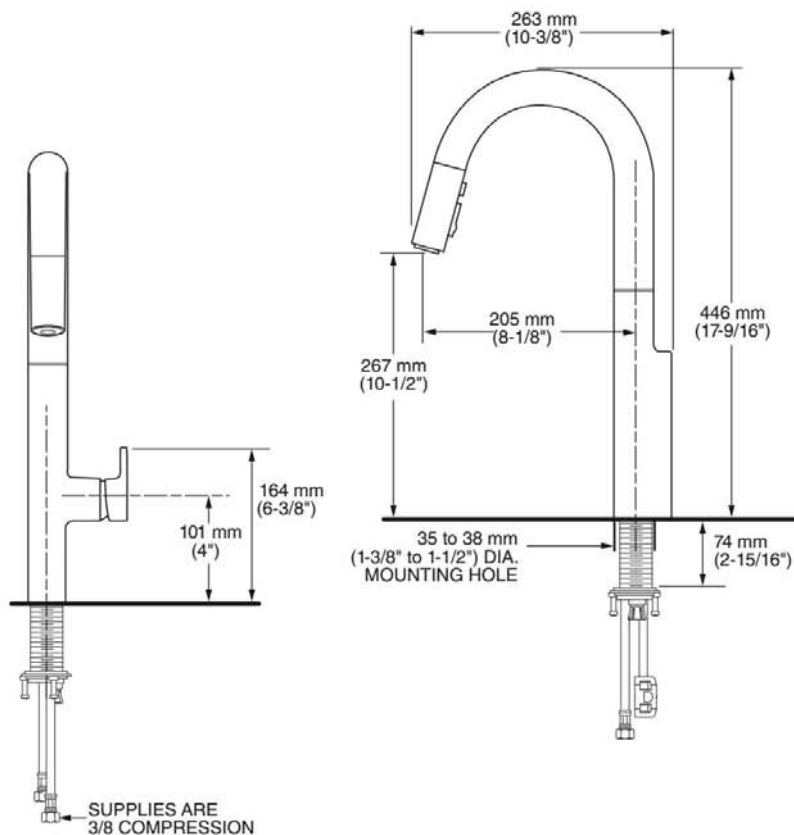
*American  
Standard*

**BEALE™**  
**PULL-DOWN KITCHEN FAUCET**



MODEL NUMBER:

4931.300 Pull-Down Kitchen Faucet



**GENERAL DESCRIPTION:**

Single control kitchen faucet featuring brass swivel spout and two function spray head with pause. 35 mm ceramic disc valve cartridge, metal body and ADA metal lever handle. Includes 39" integrated color coded braided stainless steel supply hoses with 3/8" compression connections. Durable braided nylon spray hose is complete with two integral check valves. Maximum flow rate is 1.5 gpm / 5.7 L / min. Metal mounting shank with brass fixation ring. Fitting can be mounted with or without escutcheon plate (sold separately).

**PRODUCT FEATURES:**

**Dock-Tite™ spray-head docking system:** Magnetic technology to ensure spray head remains in place when not in use.

**Re-Trax™ spray head retraction system:** Spray hose technology system to ensure smooth pull-out, operation, and retraction of spray head.

**Ceramic Disc Valve Cartridge:** Precise temperature and flow control with a lifetime of drip-free, maintenance-free performance.

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

**Integral Check Valves:** Prevents back flow.

**SUGGESTED SPECIFICATION:**

Single control kitchen pull-down faucet shall feature a high arc brass swivel spout with pull-down two-function spray, and metal lever handle. Shall also feature 35 mm washerless ceramic disc valve cartridge and flexible Stainless Steel supply hoses. Faucet shall be American Standard Model # 4931.300.\_\_\_\_\_.

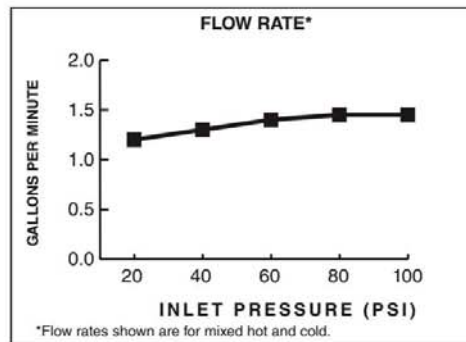


**BEALE™**  
**PULL-DOWN KITCHEN FAUCET**

**CODES AND STANDARDS**

These products meet or exceed the following codes and standards:

- ANSI A117.1**
- ASME A112.18.1**
- CSA B125.1**
- NSF 61/Section 9**
- NSF 372**



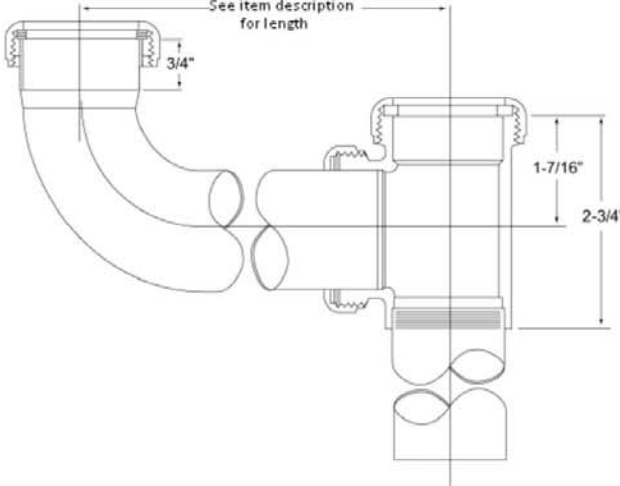


**1.5 gpm/5.7 L/min. FLOW RATE**

Product Number	Description	Finish Options	
		Polished Chrome	PVD Stainless Steel
		002	075
4931.300	Beale Pull-Down Kitchen Faucet.	✓	

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



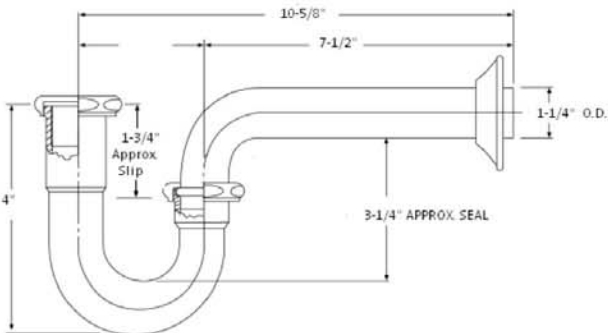
PART OF **LIXIL**

 <p>4675 W. 160th St. Cleveland, Ohio 44135 Ph: (800) 321-9532 Fax: (800) 321-9535 www.dearbornbrass.com</p> <p><b>SUBMITTAL SPECIFICATION</b></p>	<p><b>BRASS TUBULAR</b> <b>1-½" SLIP JOINT END OUTLET WASTE</b></p>																																																			
<p><b>Engineering Specification:</b> Dearborn Brass 1-½" Brass Tubular Slip Joint End Outlet Waste is designed for use in tubular drain applications. Available in 17, 20 or Budget Gauge Brass. Options include Brass Nuts, Baffle Tee and 16" or 21" lengths.</p>		<p><b>Job Reference</b></p>																																																		
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p><b>DESCRIPTION</b></p> <ul style="list-style-type: none"> <li>• Chrome Finish</li> <li>• End Outlet Waste                             <ul style="list-style-type: none"> <li>○ Waste Arm</li> <li>○ Tailpiece</li> <li>○ Tee</li> <li>○ (3) Nuts</li> <li>○ (3) Washers</li> </ul> </li> </ul> </div> <div style="width: 45%; text-align: center;">  </div> </div> <div style="text-align: center; margin-top: 20px;">  </div> <table border="1" style="width: 100%; margin-top: 20px;"> <thead> <tr> <th style="width: 5%;">✓</th> <th style="width: 15%;">Product No.</th> <th style="width: 50%;">Description</th> <th style="width: 15%;">Carton Quantity</th> <th style="width: 15%;">Carton Weight (lbs)</th> </tr> </thead> <tbody> <tr> <td></td> <td>2108A-1</td> <td>1-½" x 16" Center to Center, Slip Joint – Budget Gauge</td> <td>10</td> <td>15</td> </tr> <tr> <td></td> <td>108A-1</td> <td>1-½" x 16" Center to Center, Slip Joint – 20 Gauge</td> <td>10</td> <td>17</td> </tr> <tr> <td></td> <td>108B-1</td> <td>1-½" x 21" Center to Center, Slip Joint – 20 Gauge</td> <td>10</td> <td>20</td> </tr> <tr> <td style="text-align: center;">✓</td> <td>111A-1</td> <td>1-½" x 16" Center to Center, Slip Joint – 17 Gauge</td> <td>10</td> <td>19</td> </tr> <tr> <td></td> <td>111ABN-1</td> <td>1-½" x 16" Center to Center, Slip Joint – 17 Gauge with Brass Nuts</td> <td>10</td> <td>20</td> </tr> <tr> <td></td> <td>2178A-1</td> <td>1-½" x 16" Center to Center, Slip Joint – Budget Gauge with Baffle Tee</td> <td>10</td> <td>16</td> </tr> <tr> <td></td> <td>78A-1</td> <td>1-½" x 16" Center to Center, Slip Joint – 20 Gauge with Baffle Tee</td> <td>10</td> <td>17</td> </tr> <tr> <td></td> <td>78A-17-1</td> <td>1-½" x 16" Center to Center, Slip Joint – 17 Gauge</td> <td>10</td> <td>20</td> </tr> <tr> <td></td> <td>78A-17BN-1</td> <td>1-½" x 16" Center to Center, Slip Joint – 17 Gauge with Baffle Tee and Brass Nuts</td> <td>10</td> <td>20</td> </tr> </tbody> </table> <p style="font-size: small; margin-top: 10px;">Data is subject to manufacturing tolerances.</p>			✓	Product No.	Description	Carton Quantity	Carton Weight (lbs)		2108A-1	1-½" x 16" Center to Center, Slip Joint – Budget Gauge	10	15		108A-1	1-½" x 16" Center to Center, Slip Joint – 20 Gauge	10	17		108B-1	1-½" x 21" Center to Center, Slip Joint – 20 Gauge	10	20	✓	111A-1	1-½" x 16" Center to Center, Slip Joint – 17 Gauge	10	19		111ABN-1	1-½" x 16" Center to Center, Slip Joint – 17 Gauge with Brass Nuts	10	20		2178A-1	1-½" x 16" Center to Center, Slip Joint – Budget Gauge with Baffle Tee	10	16		78A-1	1-½" x 16" Center to Center, Slip Joint – 20 Gauge with Baffle Tee	10	17		78A-17-1	1-½" x 16" Center to Center, Slip Joint – 17 Gauge	10	20		78A-17BN-1	1-½" x 16" Center to Center, Slip Joint – 17 Gauge with Baffle Tee and Brass Nuts	10	20
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*For Residential and Commercial Applications*

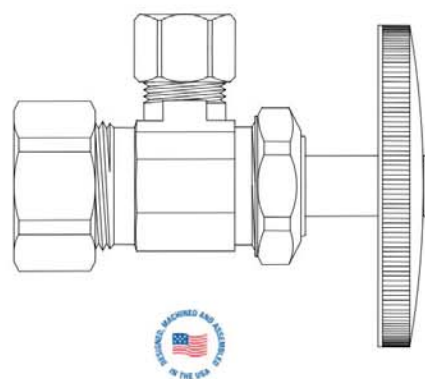
Job Name		Engineer / Architect	
Job Location		Wholesaler	
Submittal Date		Contractor	

## OCR1B/ OCR3B & OCR09/ OCR19/ OCR39/ OCR49 Multi-Turn Angle Stop – Compression x Compression

**Use:** For use in potable water distribution systems. Not intended for recirculating water systems that produce continuous use temperatures above 115° F. For those applications, use BrassCraft KT series ball stops

**Design Features:**

- **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 protects accidental stop operation during rough-ins
- **Compliant Stops** available for California and Vermont “low-lead” requirements



**Operating Specifications:**

**Temperature:** 40°- 140° F  
**Pressure:** 125 psi maximum



**Standard**

MATERIAL SPECIFICATIONS	
<b>Valve Body</b>	C36000 brass
<b>Stem</b>	POM or C36000 brass*
<b>Bib &amp; Packing Washers</b>	Nitrile or EPDM rubber
<b>Packing Nut</b>	C36000 brass
<b>Handle</b>	Plated metal, chrome-plated ABS or Lexan
<b>Handle Screw</b>	Zinc-plated steel
<b>Compression Sleeve</b>	C36000 brass
<b>Compression Nut</b>	C36000 brass, chrome plated

\*Where specified

**Compliant**

MATERIAL SPECIFICATIONS	
<b>Valve Body</b>	Compliant brass
<b>Stem</b>	POM or Compliant brass*
<b>Bib &amp; Packing Washers</b>	Nitrile or EPDM rubber
<b>Packing Nut</b>	Compliant brass
<b>Handle</b>	ABS, chrome plated
<b>Handle Screw</b>	Zinc-plated steel
<b>Compression Sleeve</b>	Compliant brass
<b>Compression Nut</b>	C36000 brass, chrome plated

**Standard Part Listing:**

- OCR1B C      3/8" Nom. Compression x 3/8" OD Compression, chrome plated
- OCR1B C1     3/8" Nom. Compression x 3/8" OD Compression, chrome plated, window box
- OCR1BZ C     3/8" Nom. Compression x 3/8" OD Compression, brass stem, chrome plated
- OCR3B C      3/8" Nom. Compression x 1/2" OD Compression, chrome plated
- OCR09 C      1/2" Nom. Compression x 1/4" OD Compression, chrome plated
- OCR09 C1     1/2" Nom. Compression x 1/4" OD Compression, chrome plated, window box
- OCR09 CBT    1/2" Nom. Compression x 1/4" OD Compression, chrome plated, bulk

*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. This specification must be returned to BrassCraft if requested.*



400.28 OCR09/19/39 Multi-Turn Angle Stop - Compr x Compr REV 01/11

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## OCR1B/ OCR3B & OCR09/ OCR19/ OCR39/ OCR49 Multi-Turn Angle Stop – Compression x Compression

### Standard Part Listing (con't):

<input type="checkbox"/>	OCR09 R	1/2" Nom. Compression x 1/4" OD Compression, rough brass
<input type="checkbox"/>	OCR09Z C	1/2" Nom. Compression x 1/4" OD Compression, brass stem, chrome plated
<input type="checkbox"/>	OCR09Z R	1/2" Nom. Compression x 1/4" OD Compression, brass stem, rough brass
<input type="checkbox"/>	OCR19 C	1/2" Nom. Compression x 3/8" OD Compression, chrome plated
<input type="checkbox"/>	OCR19 CBT	1/2" Nom. Compression x 3/8" OD Compression, chrome plated, bulk
<input type="checkbox"/>	OCR19 C1	1/2" Nom. Compression x 3/8" OD Compression, chrome plated, window box
<input type="checkbox"/>	OCR19 BZ	1/2" Nom. Compression x 3/8" OD Compression, oil rubbed bronze
<input type="checkbox"/>	OCR19 NP	1/2" Nom. Compression x 3/8" OD Compression, polished nickel
<input type="checkbox"/>	OCR19 NS	1/2" Nom. Compression x 3/8" OD Compression, satin nickel
<input type="checkbox"/>	OCR19 P	1/2" Nom. Compression x 3/8" OD Compression, polished brass
<input type="checkbox"/>	OCR19 R	1/2" Nom. Compression x 3/8" OD Compression, rough brass
<input type="checkbox"/>	OCR19 RB	1/2" Nom. Compression x 3/8" OD Compression, rough brass, bulk
<input type="checkbox"/>	OCR19 RBT	1/2" Nom. Compression x 3/8" OD Compression, rough brass, bulk
<input type="checkbox"/>	OCR19 R1	1/2" Nom. Compression x 3/8" OD Compression, rough brass, window box
<input type="checkbox"/>	OCR19K C	1/2" Nom. Compression x 3/8" OD Compression, plastic handle, chrome plated
<input type="checkbox"/>	OCR19K CB	1/2" Nom. Compression x 3/8" OD Compression, plastic handle, chrome plated, bulk
<input type="checkbox"/>	OCR19KL1 CB	1/2" Nom. Compression x 3/8" OD Compression, less outlet nut, plastic handle, chrome plated, bulk
<input type="checkbox"/>	OCR19KL1 RB	1/2" Nom. Compression x 3/8" OD Compression, less outlet nut, plastic handle, rough brass, bulk
<input type="checkbox"/>	OCR19L1 CB	1/2" Nom. Compression x 3/8" OD Compression, less outlet nut, chrome plated, bulk
<input type="checkbox"/>	OCR19L1 RB	1/2" Nom. Compression x 3/8" OD Compression, less outlet nut, rough brass, bulk
<input type="checkbox"/>	OCR19L4 C100T	1/2" Nom. Compression x 3/8" OD Compression, less inlet nut, chrome plated, bulk
<input type="checkbox"/>	OCR19P C	1/2" Nom. Compression x 3/8" OD Compression, less handle, handle screw included, chrome plated
<input type="checkbox"/>	OCR19P R	1/2" Nom. Compression x 3/8" OD Compression, less handle, handle screw included, rough brass
<input type="checkbox"/>	OCR19PX C	1/2" Nom. Compression x 3/8" OD Compression, PEX insert, chrome plated
<input type="checkbox"/>	OCR19PX R	1/2" Nom. Compression x 3/8" OD Compression, PEX insert, rough brass
<input type="checkbox"/>	OCR19T CB	1/2" Nom. Compression x 3/8" OD Compression, chrome plated, no tray, bulk
<input type="checkbox"/>	OCR19Z C	1/2" Nom. Compression x 3/8" OD Compression, brass stem, chrome plated
<input type="checkbox"/>	OCR19Z R	1/2" Nom. Compression x 3/8" OD Compression, brass stem, rough brass
<input type="checkbox"/>	OCR29 C	1/2" Nom. Compression x 7/16" OD Compression, chrome plated
<input type="checkbox"/>	OCR29 C1	1/2" Nom. Compression x 7/16" OD Compression, chrome plated, window box
<input type="checkbox"/>	OCR29 R	1/2" Nom. Compression x 7/16" OD Compression, rough brass
<input type="checkbox"/>	OCR29Z C	1/2" Nom. Compression x 7/16" OD Compression, brass stem, chrome plated
<input type="checkbox"/>	OCR39 C	1/2" Nom. Compression x 1/2" OD Compression, chrome plated
<input type="checkbox"/>	OCR39 CBT	1/2" Nom. Compression x 1/2" OD Compression, chrome plated, bulk
<input type="checkbox"/>	OCR39 C1	1/2" Nom. Compression x 1/2" OD Compression, chrome plated, window box
<input type="checkbox"/>	OCR39 R	1/2" Nom. Compression x 1/2" OD Compression, rough brass
<input type="checkbox"/>	OCR39Z C	1/2" Nom. Compression x 1/2" OD Compression, brass stem, chrome plated
<input type="checkbox"/>	OCR49 C	1/2" Nom. Compression x 5/8" OD Compression, chrome plated
<input type="checkbox"/>	OCR49Z C	1/2" Nom. Compression x 5/8" OD Compression, brass stem, chrome plated

### Compliant Part Listing:

<input type="checkbox"/>	OCR09X C	1/2" Nom. Compression x 1/4" OD Compression, chrome plated
<input type="checkbox"/>	OCR09X C1	1/2" Nom. Compression x 1/4" OD Compression, chrome plated, window box

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400.28 OCR09/19/39 Multi-Turn Angle Stop - Compr x Compr REV 01/11

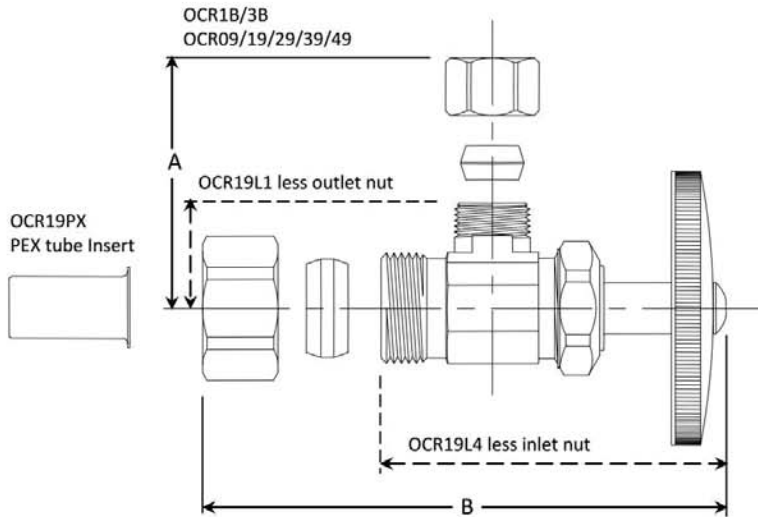
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## OCR1B/ OCR3B & OCR09/ OCR19/ OCR39/ OCR49 Multi-Turn Angle Stop – Compression x Compression

**Compliant Part Listing (con't):**

- OCR09X R      1/2" Nom. Compression x 1/4" OD Compression, rough brass
- OCR19X C      1/2" Nom. Compression x 3/8" OD Compression, chrome plated
- OCR19X C1     1/2" Nom. Compression x 3/8" OD Compression, chrome plated, window box
- OCR19X R      1/2" Nom. Compression x 3/8" OD Compression, rough brass
- OCR19X R1     1/2" Nom. Compression x 3/8" OD Compression, rough brass, window box
- OCR19L1X CB   1/2" Nom. Compression x 3/8" OD Compression, less outlet nut, chrome plated, bulk
- OCR19L1X RB   1/2" Nom. Compression x 3/8" OD Compression, less outlet nut, rough brass, bulk
- OCR19L4X C100T 1/2" Nom. Compression x 3/8" OD Compression, less inlet nut, chrome plated, 100 per case
- OCR19PXX C    1/2" Nom. Compression x 3/8" OD Compression, PEX insert, chrome plated
- OCR19ZX C     1/2" Nom. Compression x 3/8" OD Compression, brass stem, chrome plated
- OCR29X C      1/2" Nom. Compression x 7/16" OD Compression, chrome plated
- OCR29X C1     1/2" Nom. Compression x 7/16" OD Compression, chrome plated, window box
- OCR29X R      1/2" Nom. Compression x 7/16" OD Compression, rough brass
- OCR39X C      1/2" Nom. Compression x 1/2" OD Compression, chrome plated
- OCR39X CBT    1/2" Nom. Compression x 1/2" OD Compression, chrome plated, bulk
- OCR39X C1     1/2" Nom. Compression x 1/2" OD Compression, chrome plated, window box
- OCR39X R      1/2" Nom. Compression x 1/2" OD Compression, rough brass



PART DIMENSIONS (Inches)		
Model	DIM. A	DIM. B
OCR1B	1.02	2.75
OCR3B	1.11	2.75
OCR09	1.02	2.75
OCR19	1.02	2.75
OCR19K	1.02	2.75
OCR19L1	.74	2.75
OCR19L4	1.02	2.41
OCR19P	1.02	2.41
OCR19PX	1.02	2.41
OCR29	1.18	2.85
OCR39	1.11	2.85
OCR49	1.18	2.97

**Listings & Certifications:**

- IAPMO listed to ASME A112.18.1-05 / CSA B125.1-05 (File # 0645)
- CSA listed to ASME A112.18.1-05 / CSA B125.1-05 (File # 204593)
- Compliant product CSA approved to California Health & Safety Code 116875 and Vermont Bill S.152 (Project # 2174785)




*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. This specification must be returned to BrassCraft if requested.*

400.28 OCR09/19/39 Multi-Turn Angle Stop - Compr x Compr REV 01/11

**BrassCraft®**

© 2011 Brass-Craft Mfg.



 <p><b>PASCO Specialty &amp; Mfg., Inc.</b></p> <p>11156 Wright Road Lynwood, CA 90262 Phone (310) 537-7782 Fax (800) 737-2726</p> <p>7529 Perryman Court Curtis Bay, MD 21226 Phone (410) 360-5010 Fax (877) 377-6466</p> <p><a href="http://www.pascospecialty.com">www.pascospecialty.com</a></p>	<p style="text-align: center;"><b>TECHNICAL SPECIFICATION SUBMITTAL</b></p> <p>Chrome plated steel or stainless steel escutcheon or flange for steel, copper, plastic pipe used in plumbing.</p> <hr/> <p>Job Name _____ Date _____</p> <p>Model Specified _____ Quantity _____</p> <p>Customer/Wholesaler _____</p> <p>Contractor _____</p> <p>Architect/Engineer _____</p>
---	--

**Engineering Specification: A chrome plated steel or stainless steel escutcheon or flange to cover the connection between a sink drain wall bend and the trap adapter at the sanitary tee or other connections where pipe wall penetrations occur.**

- Sure grip style for snug fit
- Domestic or foreign manufacture

**Chrome Plated Steel**



PART NUMBER	IPS	CWT	OUTSIDE DIAMETER
1224	1-1/2" Tubular		3"
1225	3/8"	--	2-1/2"
1226	1/2"	--	2-1/2"
1227	3/4"	--	2-1/2"
1228	1-1/2"	--	3"
1229	2"	--	3-1/4"
1230	--	1/2"	2-1/2"
1231	--	3/4"	2-1/2"
1232	1-1/4"	1-1/2"	3"
1233	1"	--	2-3/4"
1240	--	2"	3-1/2"
1241	--	1"	2-3/4"
1244	1-1/4" Tubular		3"

**Stainless Steel - Grade 304**

1226-SS	1/2"	--	2-1/2"
1227-SS	3/4"	--	2-1/2"
1228-SS	1-1/2"	--	3-1/2"
1229-SS	2"	--	3-1/2"
1230-SS	--	1/2"	2-1/2"
1231-SS	--	3/4"	2-1/2"
37244	1-1/4" Tubular		3"
37224	1-1/2" Tubular		3"

# WATER SUPPLY CONNECTORS



Meeting the demands of the Pro, Fluidmaster® has added new professional-grade faucet and toilet connectors to the Fluidmaster PRO Series™ line. This new line features 18 of the most popular braided stainless steel connectors with No-Burst® technology. Backed by a 10-year warranty, for professional installation only.

## TOILET



- No-Burst® braided stainless steel
- Lengths range from 9" to 20"
- Ample inside diameter for high flow capacity
- Won't kink or crease, even in the tightest of spaces
- Exceeds all requirements for flexible water connectors as defined by ASME A112.18.6 and CSA B125
- 10-year warranty

## FAUCET



- No-Burst® braided stainless steel
- Lengths range from 12" to 30"
- Ample inside diameter for high flow capacity
- Won't kink or crease, even in the tightest of spaces
- Exceeds all requirements for flexible water connectors as defined by ASME A112.18.6 and CSA B125
- 10-year warranty

TOILET

MODEL NUMBER	UPC 0 39961	CONNECTOR CONFIGURATION	PACK QTY	CASE DIMENSIONS W/D/H INCHES	CUBIC FEET	CASE WEIGHT	SCC 1 2 OF 5 100 39961
PR01T09	10011 5		25	6.75 x 9.75 x 5.00	0.20	5.00	10011 2
PR01T12	10013 9	3/8" Female Compression Thread X 7/8" Female Ballcock Thread	25	6.75 x 13.75 x 5.00	0.27	6.00	10013 6
PR01T20	10014 6		25	8.25 x 16.75 x 5.00	0.40	8.00	10014 3
PR04T09	10021 4		25	6.75 x 9.75 x 5.00	0.20	5.00	10021 1
PR04T12	10022 1	1/2" I.P. Female Straight Thread X 7/8" Female Ballcock Thread	25	6.75 x 13.75 x 5.00	0.27	6.00	10022 8
PR04T20	10023 8		25	8.25 x 16.75 x 5.00	0.40	8.00	10023 5

FAUCET

PR01F12	10012 2		25	6.75 x 13.75 x 5.00	0.27	6.00	10012 9
PR01F16	10016 0	3/8" Female Compression Thread	25	8.25 x 16.75 x 5.00	0.40	7.00	10016 7
PR01F20	10020 7	X 1/2" I.P. Female Straight Thread	25	8.25 x 16.75 x 5.00	0.40	8.00	10020 4
PR01F30	10030 6		25	8.25 x 16.75 x 5.00	0.40	10.00	10030 3
PR04F12	10015 3		25	6.75 x 13.75 x 5.00	0.27	7.00	10015 0
PR04F16	10017 7	1/2" I.P. Female Straight Thread	25	8.25 x 16.75 x 5.00	0.40	8.00	10017 4
PR04F20	10018 4	X 1/2" I.P. Female Straight Thread	25	8.25 x 16.75 x 5.00	0.40	8.00	10018 1
PR04F30	10019 1		25	8.25 x 16.75 x 5.00	0.40	11.00	10019 8
PR06F12	10024 5	3/8" Female Compression	25	6.75 x 13.75 x 5.00	0.27	6.00	10024 2
PR06F20	10025 2	X 3/8" Female Compression	25	8.25 x 16.75 x 5.00	0.40	7.00	10025 9
PR08F12	10026 9	3/8" Female Compression Thread	25	6.75 x 13.75 x 5.00	0.27	6.00	10026 6
PR08F20	10027 6	X 3/8" O.D. Copper Tubing Coupling	25	8.25 x 16.75 x 5.00	0.40	8.00	10027 3

# ASIAN HEALTH

S-3

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# ELKAY<sup>®</sup> SPECIFICATIONS

## PRODUCT SPECIFICATIONS

Gourmet (Lustertone<sup>®</sup>) Stainless Steel Single Bowl Undermount Perfect Drain Sink. Overall dimensions are 16" x 18-1/2" x 5-3/8". Sink is manufactured from 18 gauge 304 Stainless Steel with a Lustrous Highlighted Satin finish, Rear Center drain placement Full spray sides and bottom.

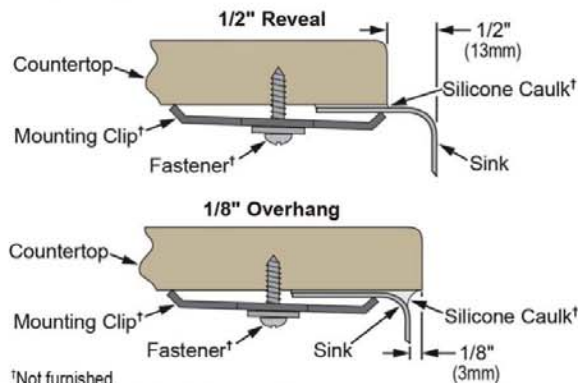
<b>Installation Type:</b>	Undermount
<b>Material:</b>	304 Stainless Steel
<b>Special Features:</b>	Perfect Drain
<b>Finish:</b>	Lustrous Highlighted Satin
<b>Gauge:</b>	18
<b>Sound Deadening:</b>	Full spray sides and bottom
<b>Number of Bowls:</b>	1
<b>Sink Dimensions:</b>	16" x 18-1/2" x 5-3/8"
<b>Bowl 1 Dimensions:</b>	13-1/2" x 16" x 5-3/8"
<b>Drain Size:</b>	3-3/8" (86mm)
<b>Drain Location:</b>	Rear Center
<b>Minimum Cabinet Size:</b>	21"
<b>Mounting Hardware:</b>	Undermount brackets sold separately
<b>Template Included:</b>	Yes
<b>Cutout Template #:</b>	1000001399

Template is available for download at [elkay.com](http://elkay.com)

 This sink is compliant to ADA and ANSI/ICC A117.1 accessibility requirements when installed according to the requirements outlined in these standards.

**Perfect Drain:** Seamlessly welded stainless steel collar eliminates the gap between a traditional drain and the sink for a sanitary and gap free installation. An InSinkErator<sup>®</sup> garbage disposer can be installed on either sink bowl for user convenience. **Patent Pending**

### Installation Profile:



<sup>†</sup>Not furnished  
Designed to affix to the underside of any solid surface countertop.

PART: \_\_\_\_\_ QTY: \_\_\_\_\_  
 PROJECT: \_\_\_\_\_  
 CONTACT: \_\_\_\_\_  
 DATE: \_\_\_\_\_  
 NOTES: \_\_\_\_\_  
 APPROVAL: \_\_\_\_\_

In keeping with our policy of continuing product improvement, Elkay reserves the right to change product specifications without notice. Please visit [elkay.com](http://elkay.com) for the 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.

Elkay REV 06232016  
[ELUHAD131655PD](http://ELUHAD131655PD)

2222 Camden Court  
 Oak Brook, IL 60523

© 2016  
[ELUHAD131655PD\\_spec.pdf](http://ELUHAD131655PD_spec.pdf)


## Gourmet (Lustertone<sup>®</sup>) Stainless Steel Single Bowl Undermount Perfect Drain Sink Model(s) **ELUHAD131655PD**



Included with Product: **LKPD1 Perfect Drain Strainer Assembly**

AMERICAN PRIDE. A LIFETIME TRADITION.  
 Like your family, the Elkay family has values and traditions that endure. For almost a century, Elkay has been a family-owned and operated company, providing thousands of jobs that support our families and communities.

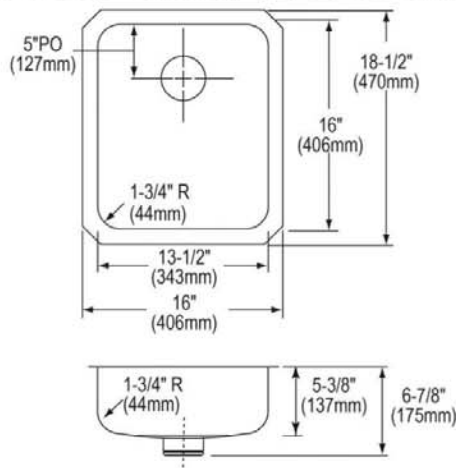


 Sinks are listed by IAPMO<sup>®</sup> as meeting the applicable requirements of the Uniform Plumbing Code<sup>®</sup>, International Plumbing Code<sup>®</sup>, and National Plumbing Code of Canada.

**Product Compliance:** ADA  
 BUY AMERICAN ACT  
 ASME A112.19.3/CSA B45.4  
 Accessory: ASME A112.18.2/CSA B125.2

[Clean and Care Manual \(PDF\)](#)  
[Installation Instructions \(PDF\) - 1000002045](#)  
[Installation Instructions \(PDF\) - 74180289\\_Disposer](#)  
[Installation Instructions \(PDF\) - 74180340-USA\\_Drain](#)  
[Limited Lifetime Warranty \(PDF\)](#)

**Similar models are available with:** additional ADA depths





# ELKAY®

## SPECIFICATIONS

### Gourmet (Lustertone®) Stainless Steel Single Bowl Undermount Perfect Drain Sink Model(s) ELUHAD131655PD

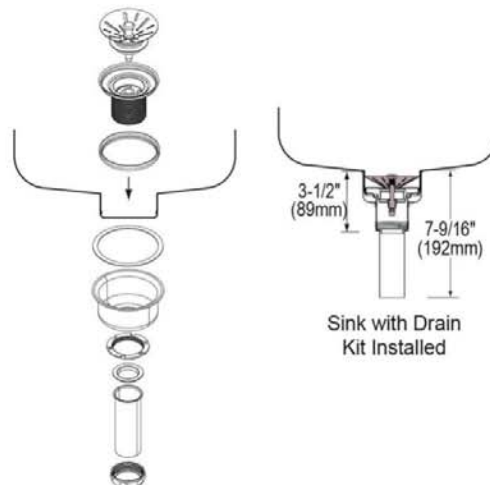
#### OPTIONAL ACCESSORIES

<b>Bottom Grid:</b>	LKWOBG1316SS
<b>Cutting Board:</b>	CB1613*, CB1713*, CBR1316*, CBS1316*
<b>Drain:</b>	LKDS99, LKDS35
<b>Faucet:</b>	LKGT1042, LKGT2042
<b>Hardware:</b>	LKUCLIP8
<b>Rinsing Basket:</b>	LKWRB1316SS, LKWERBSS
<b>Sinkmate:</b>	LKSM17, LKSMHOOK, LKSMSPONGE, LKSMHSL
<b>Soap Dispenser:</b>	LKGT1054
* 1/2" sink reveal required for proper fit.	

#### in sink erator®

Elkay® Perfect Drain™ sinks are designed and approved for compatible disposers manufactured by InSinkErator® utilizing the Quick Lock® mounting configuration. Use of non-approved disposers may void Elkay warranty.

InSinkErator, Quick Lock and the mounting collar configuration are trademarks of Emerson Electric Co.



Sink with Drain Kit Installed

*In keeping with our policy of continuing product improvement, Elkay reserves the right to change product specifications without notice. Please visit [elkay.com](http://elkay.com) for the 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.*

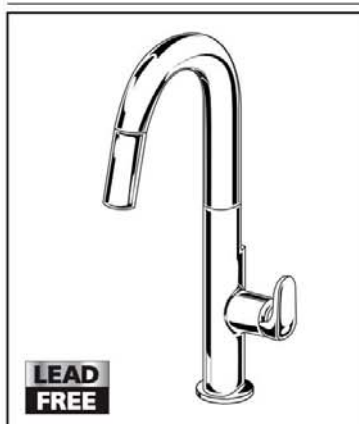
Elkay REV 06232016  
[ELUHAD131655PD](http://ELUHAD131655PD)

2222 Camden Court  
Oak Brook, IL 60523

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ELUHAD131655PD\_spec.pdf

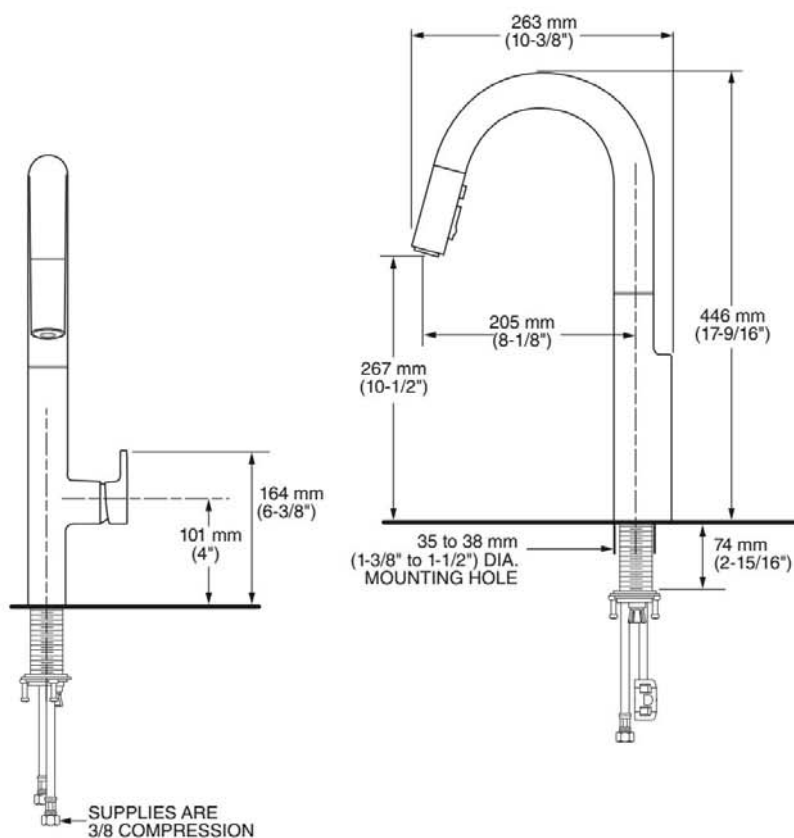
*American  
Standard*

**BEALE™  
PULL-DOWN KITCHEN FAUCET**



MODEL NUMBER:

4931.300 Pull-Down Kitchen Faucet



**GENERAL DESCRIPTION:**

Single control kitchen faucet featuring brass swivel spout and two function spray head with pause. 35 mm ceramic disc valve cartridge, metal body and ADA metal lever handle. Includes 39" integrated color coded braided stainless steel supply hoses with 3/8" compression connections. Durable braided nylon spray hose is complete with two integral check valves. Maximum flow rate is 1.5 gpm / 5.7 L / min. Metal mounting shank with brass fixation ring. Fitting can be mounted with or without escutcheon plate (sold separately).

**PRODUCT FEATURES:**

**Dock-Tite™ spray-head docking system:** Magnetic technology to ensure spray head remains in place when not in use.

**Re-Trax™ spray head retraction system:** Spray hose technology system to ensure smooth pull-out, operation, and retraction of spray head.

**Ceramic Disc Valve Cartridge:** Precise temperature and flow control with a lifetime of drip-free, maintenance-free performance.

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

**Integral Check Valves:** Prevents back flow.

**SUGGESTED SPECIFICATION:**

Single control kitchen pull-down faucet shall feature a high arc brass swivel spout with pull-down two-function spray, and metal lever handle. Shall also feature 35 mm washerless ceramic disc valve cartridge and flexible Stainless Steel supply hoses. Faucet shall be American Standard Model # 4931.300.\_\_\_\_\_.

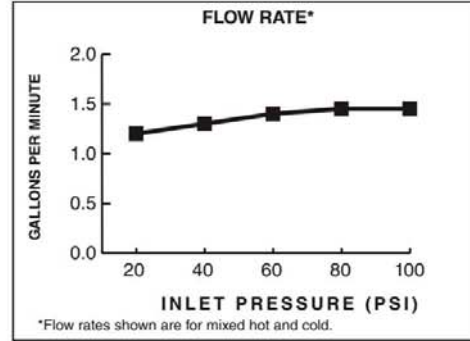


**BEALE™**  
**PULL-DOWN KITCHEN FAUCET**

**CODES AND STANDARDS**

These products meet or exceed the following codes and standards:

- ANSI A117.1**
- ASME A112.18.1**
- CSA B125.1**
- NSF 61/Section 9**
- NSF 372**



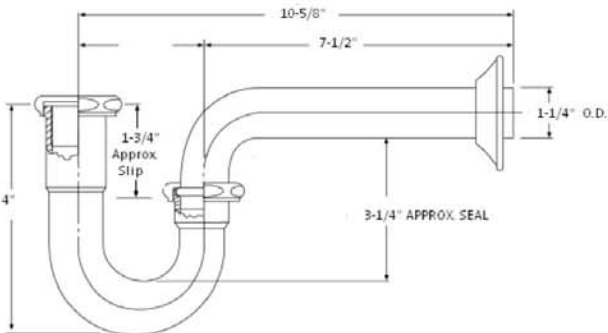


**1.5 gpm/5.7 L/min. FLOW RATE**

Product Number	Description	Finish Options	
		Polished Chrome	PVD Stainless Steel
		002	075
4931.300	Beale Pull-Down Kitchen Faucet.	✓	

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

PART OF **LIXIL**

 <b>Dearborn® Brass</b> <small>4675 W. 160th St. Cleveland, Ohio 44135 Ph: (800) 321-9532 Fax: (800) 321-9535 www.dearbornbrass.com</small> <b>SUBMITTAL SPECIFICATION</b>	<b>BRASS TUBULAR 1-½" P-TRAP WITHOUT CLEANOUT</b>																																																																																											
<b>Engineering Specification:</b> Dearborn Brass 1-½" Brass Tubular P-Trap without Cleanout are designed for use in tubular drain applications. Available in 17, 20 or Budget Gauge Brass. Options include Brass Nuts, Deep Flange, Longer Wall Tube, Ground Joint and Unfinished Brass.		<b>Job Reference</b>																																																																																										
<div style="display: flex; justify-content: space-between;"> <div style="width: 60%;"> <p><b>DESCRIPTION</b></p> <ul style="list-style-type: none"> <li>• Chrome Finished</li> <li>• 1-½" P-Trap Without Cleanout                             <ul style="list-style-type: none"> <li>○ (1) Metal Flange</li> <li>○ (1) Quarter Bend</li> <li>○ (1) J-Bend</li> <li>○ (2) Rubber Washers</li> <li>○ (2) Nuts</li> </ul> </li> </ul> </div> <div style="width: 35%; text-align: center;">  </div> </div> <div style="margin-top: 20px;">  </div> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 20px;"> <thead> <tr> <th style="width: 5%;"></th> <th style="width: 15%;">Product No.</th> <th style="width: 55%;">Description</th> <th style="width: 10%;">Carton Quantity</th> <th style="width: 15%;">Carton Weight (lbs)</th> </tr> </thead> <tbody> <tr><td>✓</td><td>2702-1</td><td>1-½" P-Trap – Budget Ga.</td><td>25</td><td>23</td></tr> <tr><td></td><td>2702DF-1</td><td>1-½" p-Trap – Budget Ga. w/ Deep Flange</td><td>25</td><td>25</td></tr> <tr><td></td><td>702-1</td><td>1-½" P-Trap – 20 Ga.</td><td>25</td><td>28</td></tr> <tr><td></td><td>702BN-1</td><td>1-½" P-Trap – 20 Ga. w/Brass Nuts</td><td>25</td><td>30</td></tr> <tr><td></td><td>702DF-1</td><td>1-½" P-Trap – 20 Ga. w/ Deep Flange</td><td>25</td><td>29</td></tr> <tr><td></td><td>702DFBN-1</td><td>1-½" P-Trap – 20 Ga. w/ Deep Flange and Brass Nuts</td><td>25</td><td>31</td></tr> <tr><td></td><td>702A-1</td><td>1-½" P-Trap – 20 Ga. w/ 11.25" Wall Tube</td><td>25</td><td>35</td></tr> <tr><td>✓</td><td>704-1</td><td>1-½" P-Trap – 17 Ga.</td><td>25</td><td>35</td></tr> <tr><td></td><td>H704-3</td><td>1-½" P-Trap – 17 Ga., Unfinished Brass – Display Box</td><td>6</td><td>8</td></tr> <tr><td></td><td>704BN-1</td><td>1-½" P-Trap – 17 Ga. w/ Brass Nuts</td><td>25</td><td>36</td></tr> <tr><td></td><td>704DF-1</td><td>1-½" P-Trap – 17 Ga. w/ Deep Flange</td><td>25</td><td>36</td></tr> <tr><td></td><td>704DFBN-1</td><td>1-½" P-Trap – 17 Ga. w/ Deep Flange and Brass Nuts</td><td>25</td><td>38</td></tr> <tr><td></td><td>704A-1</td><td>1-½" P-Trap – 17 Ga. w/ 10" Wall Tube</td><td>25</td><td>39</td></tr> <tr><td></td><td>704G-1</td><td>1-½" P-Trap – 17 Ga. w/ Ground Joint</td><td>25</td><td>36</td></tr> <tr><td></td><td>704GBN-1</td><td>1-½" P-Trap – 17 Ga. w/ Ground Joint and Brass Nuts</td><td>25</td><td>37</td></tr> <tr><td></td><td>704GBN-3</td><td>1-½" P-Trap – 17 Ga. w/ Ground Joint and Brass Nuts, Unfinished Brass</td><td>25</td><td>38</td></tr> <tr><td></td><td>704GDFBN-1</td><td>1-½" P-Trap – 17 Ga. w/ Ground Joint, Deep Flange and Brass Nuts</td><td>25</td><td>37</td></tr> </tbody> </table> <p style="font-size: small; margin-top: 10px;">Data is subject to manufacturing tolerances.</p>				Product No.	Description	Carton Quantity	Carton Weight (lbs)	✓	2702-1	1-½" P-Trap – Budget Ga.	25	23		2702DF-1	1-½" p-Trap – Budget Ga. w/ Deep Flange	25	25		702-1	1-½" P-Trap – 20 Ga.	25	28		702BN-1	1-½" P-Trap – 20 Ga. w/Brass Nuts	25	30		702DF-1	1-½" P-Trap – 20 Ga. w/ Deep Flange	25	29		702DFBN-1	1-½" P-Trap – 20 Ga. w/ Deep Flange and Brass Nuts	25	31		702A-1	1-½" P-Trap – 20 Ga. w/ 11.25" Wall Tube	25	35	✓	704-1	1-½" P-Trap – 17 Ga.	25	35		H704-3	1-½" P-Trap – 17 Ga., Unfinished Brass – Display Box	6	8		704BN-1	1-½" P-Trap – 17 Ga. w/ Brass Nuts	25	36		704DF-1	1-½" P-Trap – 17 Ga. w/ Deep Flange	25	36		704DFBN-1	1-½" P-Trap – 17 Ga. w/ Deep Flange and Brass Nuts	25	38		704A-1	1-½" P-Trap – 17 Ga. w/ 10" Wall Tube	25	39		704G-1	1-½" P-Trap – 17 Ga. w/ Ground Joint	25	36		704GBN-1	1-½" P-Trap – 17 Ga. w/ Ground Joint and Brass Nuts	25	37		704GBN-3	1-½" P-Trap – 17 Ga. w/ Ground Joint and Brass Nuts, Unfinished Brass	25	38		704GDFBN-1	1-½" P-Trap – 17 Ga. w/ Ground Joint, Deep Flange and Brass Nuts	25	37
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Visit [www.dearbornbrass.com](http://www.dearbornbrass.com) for updates

06/2009



*For Residential and Commercial Applications*

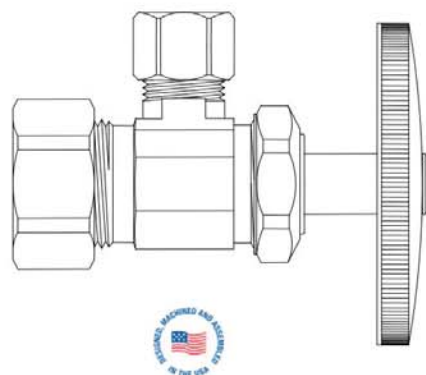
Job Name		Engineer / Architect	
Job Location		Wholesaler	
Submittal Date		Contractor	

## OCR1B/ OCR3B & OCR09/ OCR19/ OCR39/ OCR49 Multi-Turn Angle Stop – Compression x Compression

**Use:** For use in potable water distribution systems. Not intended for recirculating water systems that produce continuous use temperatures above 115° F. For those applications, use BrassCraft KT series ball stops

**Design Features:**

- **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 protects accidental stop operation during rough-ins
- **Compliant Stops** available for California and Vermont “low-lead” requirements



**Operating Specifications:**

**Temperature:** 40°- 140° F  
**Pressure:** 125 psi maximum



**Standard**

MATERIAL SPECIFICATIONS	
<b>Valve Body</b>	C36000 brass
<b>Stem</b>	POM or C36000 brass*
<b>Bib &amp; Packing Washers</b>	Nitrile or EPDM rubber
<b>Packing Nut</b>	C36000 brass
<b>Handle</b>	Plated metal, chrome-plated ABS or Lexan
<b>Handle Screw</b>	Zinc-plated steel
<b>Compression Sleeve</b>	C36000 brass
<b>Compression Nut</b>	C36000 brass, chrome plated

\*Where specified

**Compliant**

MATERIAL SPECIFICATIONS	
<b>Valve Body</b>	Compliant brass
<b>Stem</b>	POM or Compliant brass*
<b>Bib &amp; Packing Washers</b>	Nitrile or EPDM rubber
<b>Packing Nut</b>	Compliant brass
<b>Handle</b>	ABS, chrome plated
<b>Handle Screw</b>	Zinc-plated steel
<b>Compression Sleeve</b>	Compliant brass
<b>Compression Nut</b>	C36000 brass, chrome plated

**Standard Part Listing:**

- OCR1B C 3/8" Nom. Compression x 3/8" OD Compression, chrome plated
- OCR1B C1 3/8" Nom. Compression x 3/8" OD Compression, chrome plated, window box
- OCR1BZ C 3/8" Nom. Compression x 3/8" OD Compression, brass stem, chrome plated
- OCR3B C 3/8" Nom. Compression x 1/2" OD Compression, chrome plated
- OCR09 C 1/2" Nom. Compression x 1/4" OD Compression, chrome plated
- OCR09 C1 1/2" Nom. Compression x 1/4" OD Compression, chrome plated, window box
- OCR09 CBT 1/2" Nom. Compression x 1/4" OD Compression, chrome plated, bulk

*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. This specification must be returned to BrassCraft if requested.*



400.28 OCR09/19/39 Multi-Turn Angle Stop - Compr x Compr REV 01/11

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## OCR1B/ OCR3B & OCR09/ OCR19/ OCR39/ OCR49 Multi-Turn Angle Stop – Compression x Compression

### Standard Part Listing (con't):

<input type="checkbox"/>	OCR09 R	1/2" Nom. Compression x 1/4" OD Compression, rough brass
<input type="checkbox"/>	OCR09Z C	1/2" Nom. Compression x 1/4" OD Compression, brass stem, chrome plated
<input type="checkbox"/>	OCR09Z R	1/2" Nom. Compression x 1/4" OD Compression, brass stem, rough brass
<input type="checkbox"/>	OCR19 C	1/2" Nom. Compression x 3/8" OD Compression, chrome plated
<input type="checkbox"/>	OCR19 CBT	1/2" Nom. Compression x 3/8" OD Compression, chrome plated, bulk
<input type="checkbox"/>	OCR19 C1	1/2" Nom. Compression x 3/8" OD Compression, chrome plated, window box
<input type="checkbox"/>	OCR19 BZ	1/2" Nom. Compression x 3/8" OD Compression, oil rubbed bronze
<input type="checkbox"/>	OCR19 NP	1/2" Nom. Compression x 3/8" OD Compression, polished nickel
<input type="checkbox"/>	OCR19 NS	1/2" Nom. Compression x 3/8" OD Compression, satin nickel
<input type="checkbox"/>	OCR19 P	1/2" Nom. Compression x 3/8" OD Compression, polished brass
<input type="checkbox"/>	OCR19 R	1/2" Nom. Compression x 3/8" OD Compression, rough brass
<input type="checkbox"/>	OCR19 RB	1/2" Nom. Compression x 3/8" OD Compression, rough brass, bulk
<input type="checkbox"/>	OCR19 RBT	1/2" Nom. Compression x 3/8" OD Compression, rough brass, bulk
<input type="checkbox"/>	OCR19 R1	1/2" Nom. Compression x 3/8" OD Compression, rough brass, window box
<input type="checkbox"/>	OCR19K C	1/2" Nom. Compression x 3/8" OD Compression, plastic handle, chrome plated
<input type="checkbox"/>	OCR19K CB	1/2" Nom. Compression x 3/8" OD Compression, plastic handle, chrome plated, bulk
<input type="checkbox"/>	OCR19KL1 CB	1/2" Nom. Compression x 3/8" OD Compression, less outlet nut, plastic handle, chrome plated, bulk
<input type="checkbox"/>	OCR19KL1 RB	1/2" Nom. Compression x 3/8" OD Compression, less outlet nut, plastic handle, rough brass, bulk
<input type="checkbox"/>	OCR19L1 CB	1/2" Nom. Compression x 3/8" OD Compression, less outlet nut, chrome plated, bulk
<input type="checkbox"/>	OCR19L1 RB	1/2" Nom. Compression x 3/8" OD Compression, less outlet nut, rough brass, bulk
<input type="checkbox"/>	OCR19L4 C100T	1/2" Nom. Compression x 3/8" OD Compression, less inlet nut, chrome plated, bulk
<input type="checkbox"/>	OCR19P C	1/2" Nom. Compression x 3/8" OD Compression, less handle, handle screw included, chrome plated
<input type="checkbox"/>	OCR19P R	1/2" Nom. Compression x 3/8" OD Compression, less handle, handle screw included, rough brass
<input type="checkbox"/>	OCR19PX C	1/2" Nom. Compression x 3/8" OD Compression, PEX insert, chrome plated
<input type="checkbox"/>	OCR19PX R	1/2" Nom. Compression x 3/8" OD Compression, PEX insert, rough brass
<input type="checkbox"/>	OCR19T CB	1/2" Nom. Compression x 3/8" OD Compression, chrome plated, no tray, bulk
<input type="checkbox"/>	OCR19Z C	1/2" Nom. Compression x 3/8" OD Compression, brass stem, chrome plated
<input type="checkbox"/>	OCR19Z R	1/2" Nom. Compression x 3/8" OD Compression, brass stem, rough brass
<input type="checkbox"/>	OCR29 C	1/2" Nom. Compression x 7/16" OD Compression, chrome plated
<input type="checkbox"/>	OCR29 C1	1/2" Nom. Compression x 7/16" OD Compression, chrome plated, window box
<input type="checkbox"/>	OCR29 R	1/2" Nom. Compression x 7/16" OD Compression, rough brass
<input type="checkbox"/>	OCR29Z C	1/2" Nom. Compression x 7/16" OD Compression, brass stem, chrome plated
<input type="checkbox"/>	OCR39 C	1/2" Nom. Compression x 1/2" OD Compression, chrome plated
<input type="checkbox"/>	OCR39 CBT	1/2" Nom. Compression x 1/2" OD Compression, chrome plated, bulk
<input type="checkbox"/>	OCR39 C1	1/2" Nom. Compression x 1/2" OD Compression, chrome plated, window box
<input type="checkbox"/>	OCR39 R	1/2" Nom. Compression x 1/2" OD Compression, rough brass
<input type="checkbox"/>	OCR39Z C	1/2" Nom. Compression x 1/2" OD Compression, brass stem, chrome plated
<input type="checkbox"/>	OCR49 C	1/2" Nom. Compression x 5/8" OD Compression, chrome plated
<input type="checkbox"/>	OCR49Z C	1/2" Nom. Compression x 5/8" OD Compression, brass stem, chrome plated

### Compliant Part Listing:

<input type="checkbox"/>	OCR09X C	1/2" Nom. Compression x 1/4" OD Compression, chrome plated
<input type="checkbox"/>	OCR09X C1	1/2" Nom. Compression x 1/4" OD Compression, chrome plated, window box

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**BrassCraft®**

400.28 OCR09/19/39 Multi-Turn Angle Stop - Compr x Compr REV 01/11

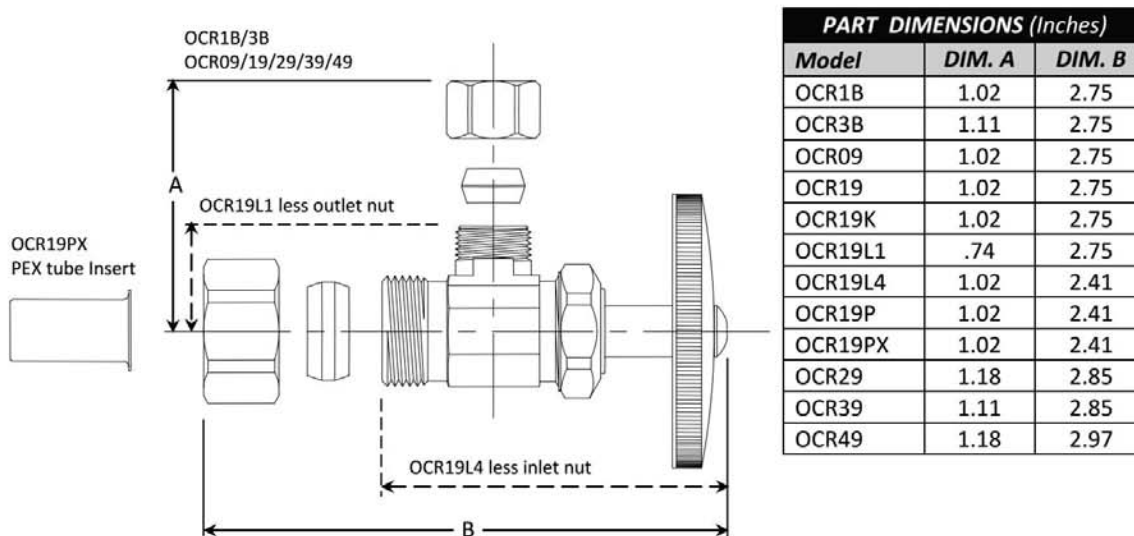
© 2011 Brass-Craft Mfg.



## OCR1B/ OCR3B & OCR09/ OCR19/ OCR39/ OCR49 Multi-Turn Angle Stop – Compression x Compression

### Compliant Part Listing (con't):

<input type="checkbox"/>	OCR09X R	1/2" Nom. Compression x 1/4" OD Compression, rough brass
<input checked="" type="checkbox"/>	OCR19X C	1/2" Nom. Compression x 3/8" OD Compression, chrome plated
<input type="checkbox"/>	OCR19X C1	1/2" Nom. Compression x 3/8" OD Compression, chrome plated, window box
<input type="checkbox"/>	OCR19X R	1/2" Nom. Compression x 3/8" OD Compression, rough brass
<input type="checkbox"/>	OCR19X R1	1/2" Nom. Compression x 3/8" OD Compression, rough brass, window box
<input type="checkbox"/>	OCR19L1X CB	1/2" Nom. Compression x 3/8" OD Compression, less outlet nut, chrome plated, bulk
<input type="checkbox"/>	OCR19L1X RB	1/2" Nom. Compression x 3/8" OD Compression, less outlet nut, rough brass, bulk
<input type="checkbox"/>	OCR19L4X C100T	1/2" Nom. Compression x 3/8" OD Compression, less inlet nut, chrome plated, 100 per case
<input type="checkbox"/>	OCR19PXX C	1/2" Nom. Compression x 3/8" OD Compression, PEX insert, chrome plated
<input type="checkbox"/>	OCR19ZX C	1/2" Nom. Compression x 3/8" OD Compression, brass stem, chrome plated
<input type="checkbox"/>	OCR29X C	1/2" Nom. Compression x 7/16" OD Compression, chrome plated
<input type="checkbox"/>	OCR29X C1	1/2" Nom. Compression x 7/16" OD Compression, chrome plated, window box
<input type="checkbox"/>	OCR29X R	1/2" Nom. Compression x 7/16" OD Compression, rough brass
<input type="checkbox"/>	OCR39X C	1/2" Nom. Compression x 1/2" OD Compression, chrome plated
<input type="checkbox"/>	OCR39X CBT	1/2" Nom. Compression x 1/2" OD Compression, chrome plated, bulk
<input type="checkbox"/>	OCR39X C1	1/2" Nom. Compression x 1/2" OD Compression, chrome plated, window box
<input type="checkbox"/>	OCR39X R	1/2" Nom. Compression x 1/2" OD Compression, rough brass



### Listings & Certifications:

- IAPMO listed to ASME A112.18.1-05 / CSA B125.1-05 (File # 0645)
- CSA listed to ASME A112.18.1-05 / CSA B125.1-05 (File # 204593)
- Compliant product CSA approved to California Health & Safety Code 116875 and Vermont Bill S.152 (Project # 2174785)




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400.28 OCR09/19/39 Multi-Turn Angle Stop - Compr x Compr REV 01/11

**BrassCraft®**

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**PASCO Specialty & Mfg., Inc.**

11156 Wright Road  
Lynwood, CA 90262  
Phone (310) 537-7782  
Fax (800) 737-2726  
www.pascospecialty.com

7529 Perryman Court  
Curtis Bay, MD 21226  
Phone (410) 360-5010  
Fax (877) 377-6466

**TECHNICAL SPECIFICATION SUBMITTAL**

Chrome plated steel or stainless steel escutcheon or flange for steel, copper, plastic pipe used in plumbing.

Job Name \_\_\_\_\_ Date \_\_\_\_\_

Model Specified \_\_\_\_\_ Quantity \_\_\_\_\_

Customer/Wholesaler \_\_\_\_\_


Contractor \_\_\_\_\_

Architect/Engineer \_\_\_\_\_

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**Engineering Specification: A chrome plated steel or stainless steel escutcheon or flange to cover the connection between a sink drain wall bend and the trap adapter at the sanitary tee or other connections where pipe wall penetrations occur.**

- Sure grip style for snug fit
- Domestic or foreign manufacture



**Chrome Plated Steel**

PART NUMBER	IPS	CWT	OUTSIDE DIAMETER
1224	1-1/2" Tubular		3"
1225	3/8"	--	2-1/2"
1226	1/2"	--	2-1/2"
1227	3/4"	--	2-1/2"
1228	1-1/2"	--	3"
1229	2"	--	3-1/4"
1230	--	1/2"	2-1/2"
1231	--	3/4"	2-1/2"
1232	1-1/4"	1-1/2"	3"
1233	1"	--	2-3/4"
1240	--	2"	3-1/2"
1241	--	1"	2-3/4"
1244	1-1/4" Tubular		3"

**Stainless Steel - Grade 304**

1226-SS	1/2"	--	2-1/2"
1227-SS	3/4"	--	2-1/2"
1228-SS	1-1/2"	--	3-1/2"
1229-SS	2"	--	3-1/2"
1230-SS	--	1/2"	2-1/2"
1231-SS	--	3/4"	2-1/2"
37244	1-1/4" Tubular		3"
37224	1-1/2" Tubular		3"

11/16/10

**Flanges - Escutcheons for Steel, Copper, Plastic Pipe**

tss012



# WATER SUPPLY CONNECTORS



Meeting the demands of the Pro, Fluidmaster® has added new professional-grade faucet and toilet connectors to the Fluidmaster PRO Series™ line. This new line features 18 of the most popular braided stainless steel connectors with No-Burst® technology. Backed by a 10-year warranty, for professional installation only.

## TOILET



- No-Burst® braided stainless steel
- Lengths range from 9" to 20"
- Ample inside diameter for high flow capacity
- Won't kink or crease, even in the tightest of spaces
- Exceeds all requirements for flexible water connectors as defined by ASME A112.18.6 and CSA B125
- 10-year warranty

## FAUCET



- No-Burst® braided stainless steel
- Lengths range from 12" to 30"
- Ample inside diameter for high flow capacity
- Won't kink or crease, even in the tightest of spaces
- Exceeds all requirements for flexible water connectors as defined by ASME A112.18.6 and CSA B125
- 10-year warranty

TOILET

MODEL NUMBER	UPC 0 39961	CONNECTOR CONFIGURATION	PACK QTY	CASE DIMENSIONS W/D/H INCHES	CUBIC FEET	CASE WEIGHT	SCC 1 2 OF 5 100 39961
PR01T09	10011 5		25	6.75 x 9.75 x 5.00	0.20	5.00	10011 2
PR01T12	10013 9	3/8" Female Compression Thread X 7/8" Female Ballcock Thread	25	6.75 x 13.75 x 5.00	0.27	6.00	10013 6
PR01T20	10014 6		25	8.25 x 16.75 x 5.00	0.40	8.00	10014 3
PR04T09	10021 4		25	6.75 x 9.75 x 5.00	0.20	5.00	10021 1
PR04T12	10022 1	1/2" I.P. Female Straight Thread X 7/8" Female Ballcock Thread	25	6.75 x 13.75 x 5.00	0.27	6.00	10022 8
PR04T20	10023 8		25	8.25 x 16.75 x 5.00	0.40	8.00	10023 5

FAUCET

PR01F12	10012 2		25	6.75 x 13.75 x 5.00	0.27	6.00	10012 9
PR01F16	10016 0	3/8" Female Compression Thread	25	8.25 x 16.75 x 5.00	0.40	7.00	10016 7
PR01F20	10020 7	X 1/2" I.P. Female Straight Thread	25	8.25 x 16.75 x 5.00	0.40	8.00	10020 4
PR01F30	10030 6		25	8.25 x 16.75 x 5.00	0.40	10.00	10030 3
PR04F12	10015 3		25	6.75 x 13.75 x 5.00	0.27	7.00	10015 0
PR04F16	10017 7	1/2" I.P. Female Straight Thread	25	8.25 x 16.75 x 5.00	0.40	8.00	10017 4
PR04F20	10018 4	X 1/2" I.P. Female Straight Thread	25	8.25 x 16.75 x 5.00	0.40	8.00	10018 1
PR04F30	10019 1		25	8.25 x 16.75 x 5.00	0.40	11.00	10019 8
PR06F12	10024 5	3/8" Female Compression	25	6.75 x 13.75 x 5.00	0.27	6.00	10024 2
PR06F20	10025 2	X 3/8" Female Compression	25	8.25 x 16.75 x 5.00	0.40	7.00	10025 9
PR08F12	10026 9	3/8" Female Compression Thread	25	6.75 x 13.75 x 5.00	0.27	6.00	10026 6
PR08F20	10027 6	X 3/8" O.D. Copper Tubing Coupling	25	8.25 x 16.75 x 5.00	0.40	8.00	10027 3

# ASIAN HEALTH

SH-1

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~~\*\*CDX SUBMITTAL NOT AVAILABLE AT THIS TIME. FIBER FAB SUBMITTAL DATA IS ACCURATE TO SPECIFICATIONS\*\*~~

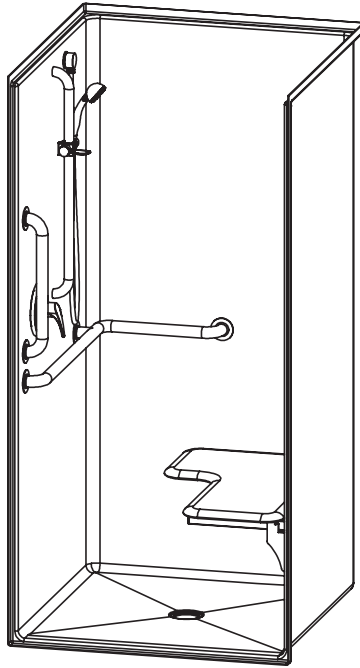
# 1363BFSC – ACCESSIBLE SHOWERS

inches

Interior: 36 x 36 x 75

Exterior: 38 x 38 1/4 x 77

The 1363BFSC transfer shower features innovative installation design, including an engineered leveled base and improved front threshold. A true time and money saver, **our pre-leveled base lets you install directly on a level floor.** And its front threshold is engineered to keep a constant level without the use of brackets during installation.



## FEATURES

- Pre-leveled base
- AcrylX™ applied acrylic surface
- 3/4" skirt
- No threshold
- Barrier free when properly installed
- Smooth wall
- Center drain
- Lifetime limited warranty

## OPTIONS

- RH or LH fixture wall
- Grab bars
- Fold-up seat
- Hand-held shower assembly with slide bar
- Pressure balancing mixing valve
- Soap dish
- Curtain rod and/ or shower curtain

## AQUATIC ADVANTAGE

- National distribution
- 6 manufacturing facilities
- Private fleet
- Centralized customer service
- Field support

## COLOR & TRIM OPTIONS

Stock	Upgraded
Almond	Biscuit
White	Bone

\*\*Additional custom colors available.  
(Contact Customer Service)

## CODE COMPLIANCE

- ADA
- TAS
- FHA
- ICC/ANSI A117.1
- HUD UM73a
- IAPMO Z124-2011
- CAN/CSA-B651-04
- CSA-B45-11

\*\*Code compliant when fully equipped and installed according to guidelines.



Aquatic products may be specified as Lasco Bathware.



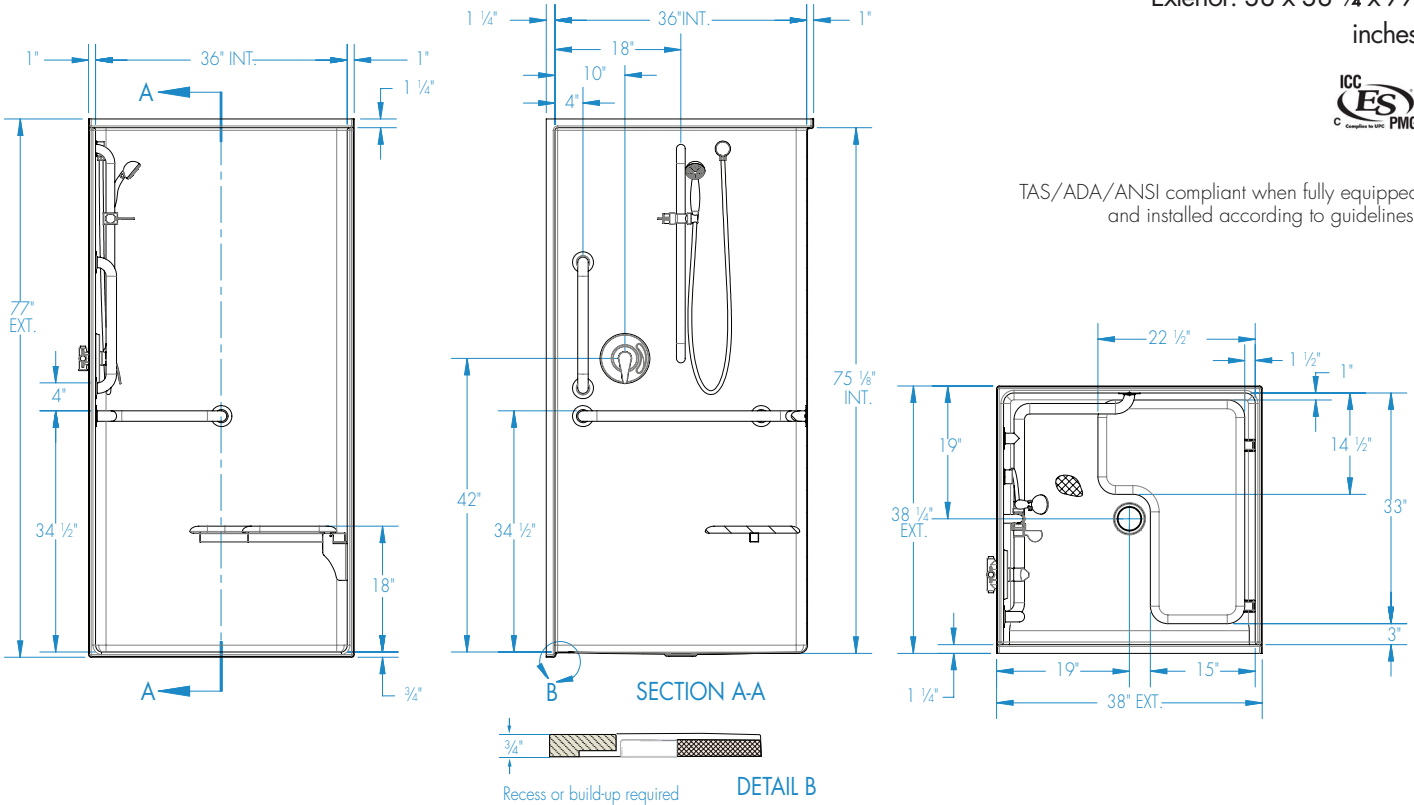
Aquatic products may be specified as Lasco Bathware.

# 1363BFSC

Interior: 36 x 36 x 75  
Exterior: 38 x 38 1/4 x 77  
inches



TAS/ADA/ANSI compliant when fully equipped and installed according to guidelines.



## FEATURES

Dimensional Tolerance  $\pm \frac{3}{8}$ ". Dimensions needed for site preparation should be measured from the unit. Aquatic assumes no responsibility for preparatory work.

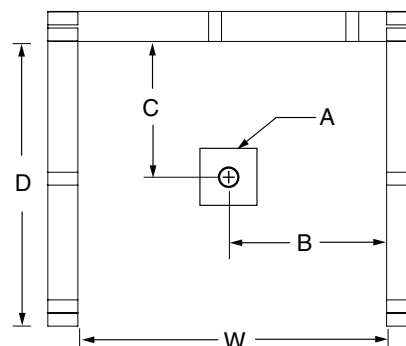
Type and Model #	Material	Wall Finish	Pieces	Drain	Dam/Skirt Height	Net Wt. lbs	Pkg. Wt. lbs
Shower #1363BFSC	AcrylX™	Smooth	1	Center	3/4" skirt, NO threshold	140	150

## DIMENSIONS





Specifications	inches
Width: Overall / Net	38 / 36
Depth: Overall / Net	38 1/4 / 36
Height: Overall / Net	77 / 75
Enclosure Opening:	36
Skirt Height:	3/4
Drain Rough-In (from Back Wall)	19
Drain Rough-In (from Side Wall)	19

## FRAMING DIMENSIONS inches

Type	D Depth	W Width	H Height	A	B	C
Alcove	38 1/4	38 1/8	-	Box Out	19	19





 <p>4700 W. 160th St. Cleveland, OH 44135 PH:800-321-9532 FX:800-321-9535 www.oatey.com</p> <p>TECHNICAL SPECIFICATION</p>	<p><b>140 SERIES / 101 PNC SERIES BRASS AND PLASTIC NO-CALK SHOWER DRAIN</b></p>																																																										
<p><b>TECHNICAL SPECIFICATION:</b> Oatey Brass and Plastic No-Calk Shower Drains are designed for use with preformed shower stall bases. The drain body is sealed to the shower base with a fiber and rubber washer. 2" Schedule 40 DWV pipe is secured with a mechanically compressed gasket that does not require caulking. Drain top accommodates 4-1/4" Universal Snap-Tite Strainers available in a variety of designer finishes.</p>																																																											
																																																											
<p><b>PHYSICAL/CHEMICAL PROPERTIES</b></p>																																																											
<p>Drain Body Material</p>	<p>Cast Brass Metal ABS Plastic = Black PVC Plastic = White</p>	<ul style="list-style-type: none"> <li>• Made of Cast Brass or Plastic</li> <li>• Ideal for Slab Construction</li> <li>• Available with 4.25" Stainless Steel or UltraShine PVD Polished Brass Snap-Tite Strainer</li> <li>• Compression gasket tightens around 2" Schedule 40 DWV pipe with caulking nut and wrench</li> <li>• Can be used with 1-1/2" Schedule 40 DWV pipe and 1-1/2" or 2" Copper DWV pipe when caulking gasket is replaced</li> </ul>																																																									
<p><b>COMMON APPLICATIONS</b></p>																																																											
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42239	NO-CALK shower drain wrench- carded	4	5lbs.																																																								



## FloWise® COMMERCIAL SHOWER SYSTEMS

### 1.5 GPM SHOWER SYSTEM KIT WITH HAND SHOWER



#### MODEL NUMBER:

#### 1662.211 Commercial Shower System Kit

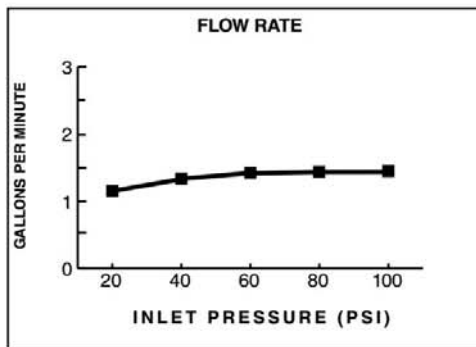
Includes:

• Shower Valve with SS	R120SS
• Colony Soft Valve Only Trim	T675.500.002
• 3-Function Hand Shower with Pause Feature	1660.766.002
• In-Line Vacuum Breaker	1660.400.002
• Metal Hose	8888.035.002
• Wall Supply	8888.037.002
• 36" Slide Bar	1660.236.002

#### GENERAL DESCRIPTION:

Complete commercial shower system includes: an R120SS pressure balance valve and trim, a wall supply with 1/2" NPT female inlet and 1/2" NPSM male outlet, a 59" (1500 mm) metal shower hose, vacuum breaker, a 3-function hand shower with pause feature, and a 36" slide bar.

Valve features a cast brass body, washerless 47mm ceramic disc valve cartridge with volume and temperature control, back-to-back capability, integrated check valves and hot limit safety stop. Pressure balancing cartridge maintains constant output temperature in response to changes in relative hot and cold supply pressure. One-half inch direct sweat inlets and outlets. With screwdriver stops. Rough-in plaster guard designed for use as thin-wall mounting adapter. Durable metal handle. 3-function water saving hand shower with pause feature and 1.5 gpm/5.7 L/min. flow restrictor. Slide bar features an adjustable hand shower holder which can be set at any height or position along the bar and angle up to 45°.



#### PRODUCT FEATURES:

##### VALVE:

**Cast Brass Valve Body:** Durable.

**Ceramic Disc Valve Cartridge:** Assures a lifetime of drip-free performance. Allows control over water temperature and volume.

**Pressure Balancing Valve Cartridge:** Maintains constant output temperature in response to changes in hot and cold supply pressure. Diaphragm system with integrated check valves engineered to eliminate cross flow.

**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.

##### Integral Plaster Guard and Mounting Plate:

Protects valve during installation and serves as a mounting plate for thin-wall installations.

##### HAND SHOWER WITH PAUSE FEATURE:

**Water Saving:** Saves 40% of water usage

**ADA-Compliant:** Non-positive shut-off button on handle reduces flow to a trickle.

##### 36" SLIDE BAR:

**Simple Height Adjustment:** Allows positioning of the hand shower anywhere along the bar.

**NOT DESIGNED TO BE A GRAB BAR.**

#### SUGGESTED SPECIFICATION:

Shower system shall feature a wall supply with 1/2" NPT female inlets and 1/2" NPSM male outlet, 59" metal hose, vacuum breaker, 1.5 gpm/5.7L/min. 3-function water saving hand shower with pause feature and a 36" slide bar. Pressure Balance valve shall feature a cast brass body. Shall feature ceramic disc valve cartridge which controls water temperature and volume. Shall also feature hot limit safety stop. Fitting shall be American Standard Model # 1662.211.002.



**FloWise® COMMERCIAL SHOWER SYSTEMS**  
**1.5 GPM SHOWER SYSTEM KIT**  
**WITH HAND SHOWER**

**CODES AND STANDARDS**

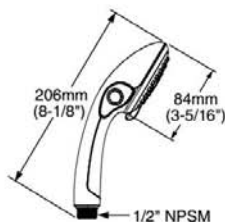
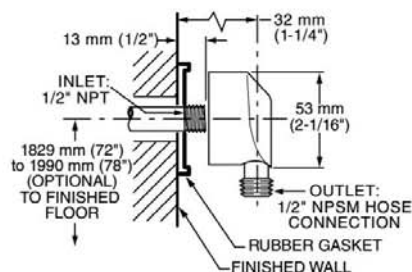
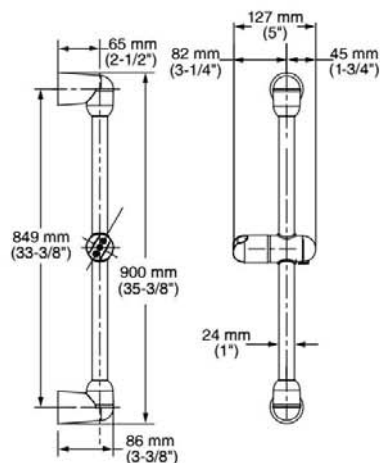
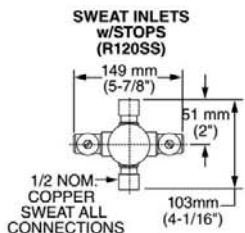
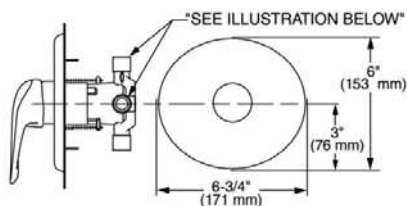
Install as required to comply with local code requirements.

- ASME A112.18.1
- ASSE 1016
- CSA B 125
- ANSI A117.1

Product Number	Description	Finish
		Polished Chrome
		002

1662.211	FloWise® Commercial Shower System Kit. Contains pressure balance valve with volume and temperature control, trim kit, 3-function water saving hand shower with pause feature, metal hose, vacuum breaker, wall supply and 36" slide bar. 1.5 gpm/5.7 L/min.	
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PART OF LIXIL

# ASIAN HEALTH

RD-1

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## MAIN ROOF DRAIN

### » 868 SERIES

#### SPECIFICATION

Sioux Chief 868 Series cast iron main roof drains shall be used where necessary in drainage systems. Roof Drain shall have a low-profile enamel coated cast iron dome strainer, and cast iron gravel guard. Strainer shall turn-to-lock into gravel guard. Cast iron drain body shall have no-hub connection. Designed in accordance with ASME A112.6.4-2003

#### MATERIALS

**Dome strainer:** enamel-coated cast iron

**Gravel guard:** enamel-coated cast iron

**Drain body:** enamel-coated cast iron

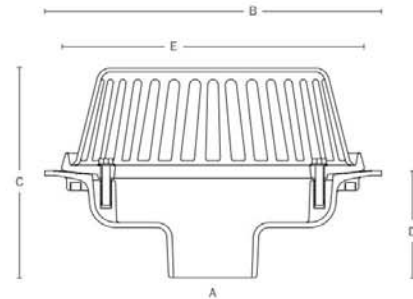
#### STRAINER FREE AREA

75.75 in<sup>2</sup>

#### DIMENSIONS

A: Connection	3", 4", 6" or 8" No-hub
B: Flange diameter	15"
C: Overall height	9½"
D: Body height	5"
E: Gravel guard diameter	13⅝"

ITEM # SUBMITTED _____
JOB NAME _____
LOCATION _____
ENGINEER _____
CONTRACTOR _____
PO# _____ TAG _____



### Create Item Number

#### 868-A

e.g. **868-1504HSW**: Cast iron main roof drain with 4" no-hub connection, undermount hardware kit, sump receiver, and 2" external water dam for overflow

#### CONNECTION A

- 1503 = 3" No-hub
- 1504 = 4" No-hub
- 1506 = 6" No-hub
- 1508 = 8" No-hub

#### OPTIONS B

- H = Undermount hardware kit
- U = Underdeck clamp kit
- S = Sump receiver
- E = Adjustable extension kit
- W = 2" high, external water dam
- P = 2" high internal water dam

#### ACCESSORIES

- 868-15CD = Cast iron dome strainer
- 868-15S = Sump receiver:  
24" x 24" x 15-gauge galvanized steel
- 868-15SH = Undermount hardware kit:  
4 pieces angle bracket, thread rod, nuts, washers
- 868-15U = Underdeck clamp kit:  
two-piece cast iron clamping plate with hardware
- 868-15WD = External water dam:  
2" high, cast iron external water dam
- 868-15EXT = Adjustable extension assembly kit

# ASIAN HEALTH

OD-1

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## MAIN ROOF DRAIN

### » 868 SERIES

#### SPECIFICATION

Sioux Chief 868 Series cast iron main roof drains shall be used where necessary in drainage systems. Roof Drain shall have a low-profile enamel coated cast iron dome strainer, and cast iron gravel guard. Strainer shall turn-to-lock into gravel guard. Cast iron drain body shall have no-hub connection. Designed in accordance with ASME A112.6.4-2003

#### MATERIALS

**Dome strainer:** enamel-coated cast iron

**Gravel guard:** enamel-coated cast iron

**Drain body:** enamel-coated cast iron

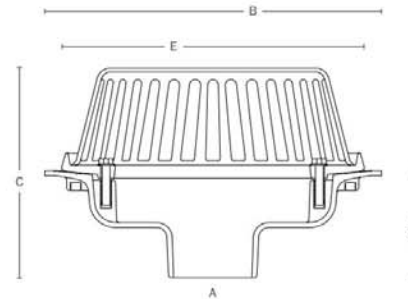
#### STRAINER FREE AREA

75.75 in<sup>2</sup>

#### DIMENSIONS

A: Connection	3", 4", 6" or 8" No-hub
B: Flange diameter	15"
C: Overall height	9½"
D: Body height	5"
E: Gravel guard diameter	13⅝"

ITEM # SUBMITTED _____
JOB NAME _____
LOCATION _____
ENGINEER _____
CONTRACTOR _____
PO# _____ TAG _____



### Create Item Number

#### 868-A

e.g. **868-1504HSW**: Cast iron main roof drain with 4" no-hub connection, undermount hardware kit, sump receiver, and 2" external water dam for overflow

#### CONNECTION A

- 1503 = 3" No-hub
- 1504 = 4" No-hub
- 1506 = 6" No-hub
- 1508 = 8" No-hub

#### OPTIONS B

- H = Undermount hardware kit
- U = Underdeck clamp kit
- S = Sump receiver
- E = Adjustable extension kit
- W = 2" high, external water dam
- P = 2" high internal water dam

#### ACCESSORIES

- 868-15CD = Cast iron dome strainer
- 868-15S = Sump receiver:  
24" x 24" x 15-gauge galvanized steel
- 868-15SH = Undermount hardware kit:  
4 pieces angle bracket, thread rod, nuts, washers
- 868-15U = Underdeck clamp kit:  
two-piece cast iron clamping plate with hardware
- 868-15WD = External water dam:  
2" high, cast iron external water dam
- 868-15EXT = Adjustable extension assembly kit

# ASIAN HEALTH

DF-1

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# ELKAY®

## SPECIFICATIONS

### No Lead Two-Level Soft Sides® Filtered Wall Mount, Barrier-Free Drinking Fountain with EZH2O® Bottle Filling Station Model LZWS-EDFP217K

#### PRODUCT SPECIFICATION

Architectural fountains with integral bottle filling station. LZWS-EDFP217K shall deliver non-chilled drinking water unless connected to a remote water chiller. Units shall be stainless steel construction with plastic ABS alcove. Sensor-activation with an auto 20-second shut-off timer. Shall include Green Ticker™ displaying count of plastic bottles saved from waste. Bottle filler shall provide 1.5 gpm flow rate with laminar flow to minimize splashing and 1.1 gpm flow rate when connected to a remote water chiller. Shall include the WaterSentry® Plus 3000-gallon capacity filter, certified to NSF/ANSI 42 and 53, with visual monitor to indicate when replacement is necessary. Shall include integrated silver ion anti-microbial protection in key areas. Unit shall meet ADA guidelines. Unit shall be lead-free design which is certified to NSF/ANSI 61 and 372 and meets Federal and State low-lead requirements. Unit shall be certified to UL399 and CAN/CSA 22.2 No. 120.

#### FOUNTAINS GENERAL

Fully exposed two-level fountain basins are #18 gauge, 300 series stainless steel polished to a lustrous satin finish with high shine outer edge. One fountain positioned lower on the right for wheel-chair use. The other positioned on the left at standing height.

Fountains have contoured basin that minimizes splashing. Flexi-Guard® Safety bubblers are keyed in location to prevent rotation. Fully functional, vandal-resistant front push button. Flow regulator provides constant stream from 20 to 105 psi water pressure.

#### BOTTLE FILLER FEATURES

- No-touch, sensor-activated bottle filler.
- Auto 20-second shut-off.
- WaterSentry® Plus 3000-gallon capacity Filtration System, certified to NSF/ANSI 42 & 53 (Lead, Class 1 Particulate, Chlorine, Taste & odor).
- Integrated Silver Ion Anti-microbial Protection in key areas.
- Quick Fill Rate: 1.5 gpm.
- Laminar Flow provides minimal splash.
- Real Drain System eliminates standing water.
- Visual User Interface display includes:
  - Innovative Green Ticker™ counts bottles saved from waste.
  - LED Visual Filter Monitor shows when replacement is necessary.

#### OPTIONAL FEATURES (Additional Cost)

- For front access to bottle filler electricals or drain, use access panel (Item #ACCESS12X38-5)



Shown with two optional access panels installed

**Warranty:** Electrical components and water system are warranted for 12 months from date of installation or 18 months from factory shipment, whichever date falls first.

*In Keeping with our policy of continuing product improvement, Elkay reserves the right to change specification without notice. Please visit [elkayusa.com](http://elkayusa.com)*

\*Rated for Indoor Use Only

Model  
LZWS-EDFP217K



#### CONSTRUCTION

**LZWS-EDFP217K** two-level fountain furnished complete with Flexi-Guard® fully assembled with front push button, flow regulator (120 to 105 psi), stainless steel back panel. No traps are furnished.

- Stainless Steel bottle filler construction with ABS plastic alcove.
- Furnished with wall mounting frame constructed of galvanized steel.
- Mounting can be ordered separately for pre-install.

**Replacement Filters:** Available as Singles and Multi-packs. Order part numbers:

- 51300C (single)
- 51300C\_3PK (three)
- 51300C\_12PK (twelve)
- 51300C\_24PK (twenty-four)
- 51300C\_48PK (forty-eight)

#### CERTIFICATIONS / STANDARDS

- ADA Compliant
- UL399 and CAN/CSA 22.2 No. 120 Certified
- ANSI/NSF 42 and 53 Certified (Filter Only)
- ANSI/NSF 61 and 372 Certified
- GreenSpec Listed



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

2222 Camden Court  
OakBrook, IL 60523  
630-572-3192  
[elkayusa.com](http://elkayusa.com)

2013 Elkay  
SPEC00044 (Rev 08/2013)

**No Lead Two-Level Soft Sides®**  
**Filtered Wall Mount, Barrier-Free**  
**Drinking Fountain with EZH2O® Bottle Filling Station**  
**Model LZWS-EDFP217K**

**ELKAY®**  
**ROUGH-IN DIMENSIONS**

**INSTALLER NOTE:**

THIS DRINKING FOUNTAIN IS FURNISHED WITH A BUBBLER AND VALVE INCLUDING ALL CONNECTING FITTINGS WHICH ARE MANUFACTURED OF COMPLETELY LEAD FREE MATERIAL. SHUTOFF VALVE (NOT FURNISHED) TO ACCEPT 3/8" O.D. UNPLATED COPPER TUBE.

**WALL OPENING**

**IMPORTANT:** It is necessary to create a wall opening 37 1/2" W x 31 1/2" H and 25" above the floor line.

**ELECTRICAL DATA**

Electrical outlet, three (3) conductor grounded. Locate within safe reach of power cord.

**MOUNTING INSTRUCTIONS**

Refer to rough-in for location of plumbing and electrical sources. The support frame is to be installed first. Hang upper panel to hanger on frame. Fountains are to be attached to panel and wall frame. Water service lines, waste lines and electrical are assembled as required. Perform a final check for leaks and correct functions of fountains and chiller. (For details see the installation instructions.)

**Installation requires trap to be installed in wall. Trap and service stop not included.**

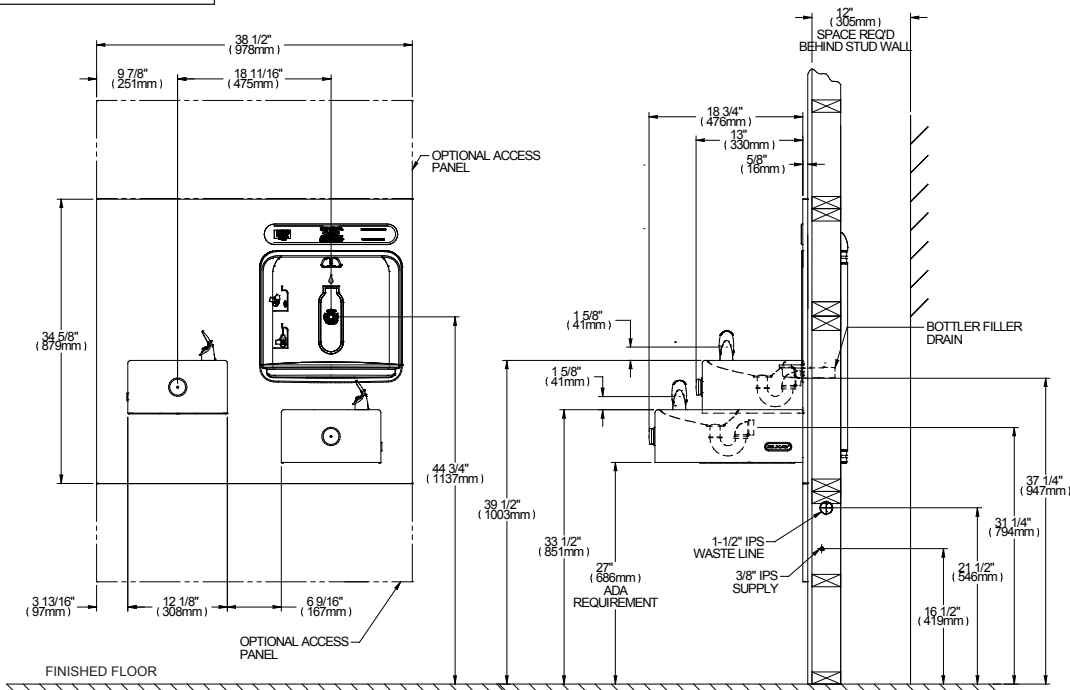
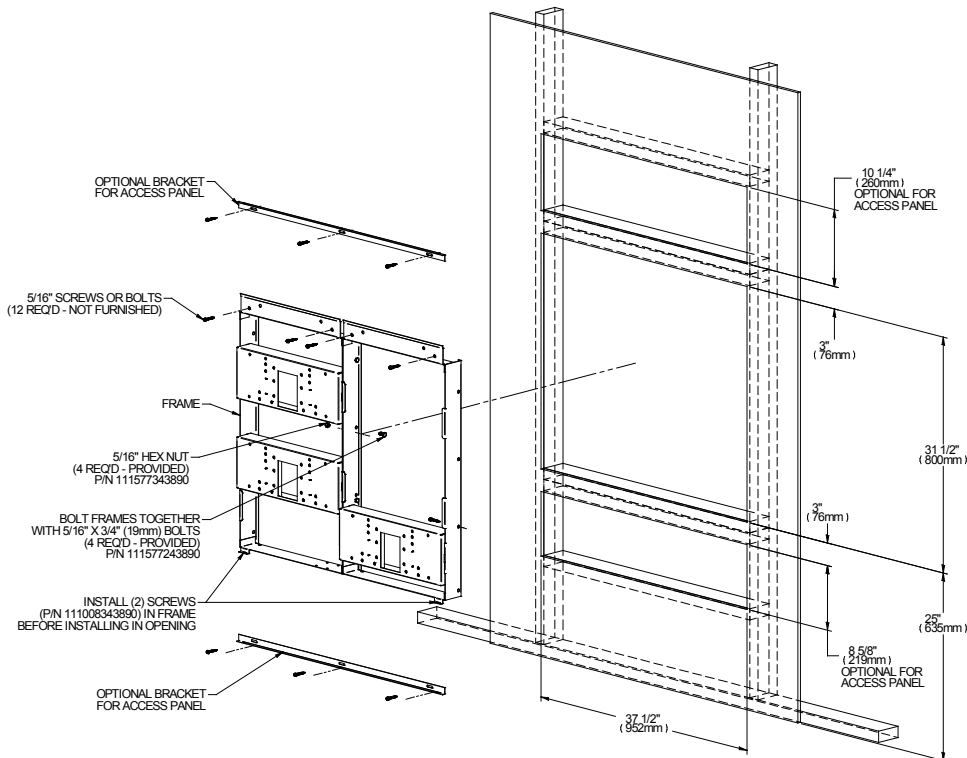
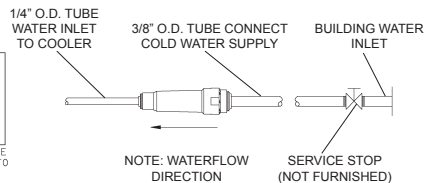
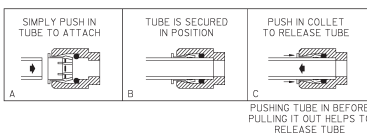
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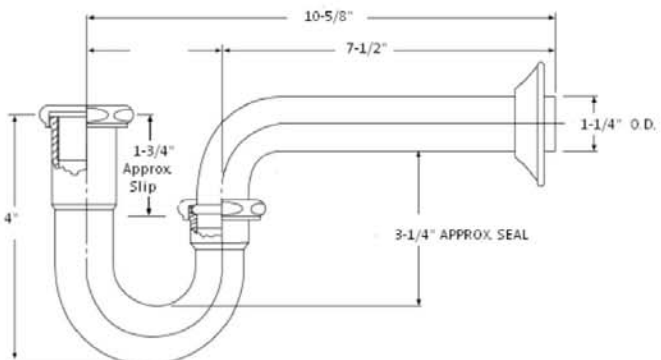
Date: \_\_\_\_\_ Qty. \_\_\_\_\_

Contact Info (Name, Phone, Email): \_\_\_\_\_

Approval: \_\_\_\_\_

**OPERATION OF QUICK CONNECT FITTINGS**



 <p>4675 W. 160th St. Cleveland, Ohio 44135 Ph: (800) 321-9532 Fax: (800) 321-9535 www.dearbornbrass.com</p> <p><b>SUBMITTAL SPECIFICATION</b></p>	<p><b>BRASS TUBULAR 1-1/4" P-TRAP WITHOUT CLEANOUT</b></p>																																																																																	
<p><b>Engineering Specification:</b> Dearborn Brass 1-1/4" Brass Tubular P-Trap without Cleanout are designed for use in tubular drain applications. Available in 17, 20 or Budget Gauge Brass. Options include Brass Nuts, Deep Flange, Longer Wall Tube and Ground Joint.</p>		<p><b>Job Reference</b></p>																																																																																
<div style="display: flex; justify-content: space-between;"> <div style="width: 60%;"> <p><b>DESCRIPTION</b></p> <ul style="list-style-type: none"> <li>• Chrome Finished</li> <li>• 1-1/4" P-Trap Without Cleanout                             <ul style="list-style-type: none"> <li>○ (1) Metal Flange</li> <li>○ (1) Quarter Bend</li> <li>○ (1) J-Bend</li> <li>○ (2) Rubber Washers</li> <li>○ (2) Nuts</li> </ul> </li> </ul> </div> <div style="width: 35%; text-align: center;">  </div> </div> <div style="margin-top: 20px; text-align: center;">  </div> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 20px;"> <thead> <tr> <th style="width: 5%;"></th> <th style="width: 15%;">Product No.</th> <th style="width: 45%;">Description</th> <th style="width: 15%;">Carton Quantity</th> <th style="width: 20%;">Carton Weight (lbs)</th> </tr> </thead> <tbody> <tr><td>✓</td><td>2700-1</td><td>1-1/4" P-Trap – Budget Ga.</td><td>25</td><td>18</td></tr> <tr><td></td><td>2700A-1</td><td>1-1/4" P-Trap – Budget Ga. w/ 9.50" Wall Tube</td><td>25</td><td>21</td></tr> <tr><td></td><td>2700DF-1</td><td>1-1/4" P-Trap – Budget Ga. w/ Deep Flange</td><td>25</td><td>19</td></tr> <tr><td></td><td>700-1</td><td>1-1/4" P-Trap – 20 Ga.</td><td>25</td><td>24</td></tr> <tr><td></td><td>700A-1</td><td>1-1/4" P-Trap – 20 Ga. w/ 10" Wall Tube</td><td>25</td><td>31</td></tr> <tr><td></td><td>700BN-1</td><td>1-1/4" P-Trap – 20 Ga. w/Brass Nuts</td><td>25</td><td>25</td></tr> <tr><td></td><td>700DF-1</td><td>1-1/4" P-Trap – 20 Ga. w/ Deep Flange</td><td>25</td><td>24</td></tr> <tr><td></td><td>700DFBN-1</td><td>1-1/4" P-Trap – 20 Ga. w/ Deep Flange and Brass Nuts</td><td>25</td><td>25</td></tr> <tr><td>✓</td><td>701-1</td><td>1-1/4" P-Trap – 17 Ga.</td><td>25</td><td>29</td></tr> <tr><td></td><td>701BN-1</td><td>1-1/4" P-Trap – 17 Ga. w/ Brass Nuts</td><td>25</td><td>31</td></tr> <tr><td></td><td>701DF-1</td><td>1-1/4" P-Trap – 17 Ga. w/ Deep Flange</td><td>25</td><td>29</td></tr> <tr><td></td><td>701DFBN-1</td><td>1-1/4" P-Trap – 17 Ga. w/ Deep Flange and Brass Nuts</td><td>25</td><td>31</td></tr> <tr><td></td><td>701A-1</td><td>1-1/4" P-Trap – 17 Ga. w/ 10" Wall Tube</td><td>25</td><td>38</td></tr> <tr><td></td><td>701ADF-1</td><td>1-1/4" P-Trap – 17 Ga. w/ Deep Flange - 10" Wall Tube</td><td>25</td><td>38</td></tr> <tr><td></td><td>701G-1</td><td>1-1/4" P-Trap – 17 Ga. w/ Ground Joint</td><td>25</td><td>32</td></tr> </tbody> </table> <p style="font-size: small; margin-top: 10px;">Data is subject to manufacturing tolerances.</p>				Product No.	Description	Carton Quantity	Carton Weight (lbs)	✓	2700-1	1-1/4" P-Trap – Budget Ga.	25	18		2700A-1	1-1/4" P-Trap – Budget Ga. w/ 9.50" Wall Tube	25	21		2700DF-1	1-1/4" P-Trap – Budget Ga. w/ Deep Flange	25	19		700-1	1-1/4" P-Trap – 20 Ga.	25	24		700A-1	1-1/4" P-Trap – 20 Ga. w/ 10" Wall Tube	25	31		700BN-1	1-1/4" P-Trap – 20 Ga. w/Brass Nuts	25	25		700DF-1	1-1/4" P-Trap – 20 Ga. w/ Deep Flange	25	24		700DFBN-1	1-1/4" P-Trap – 20 Ga. w/ Deep Flange and Brass Nuts	25	25	✓	701-1	1-1/4" P-Trap – 17 Ga.	25	29		701BN-1	1-1/4" P-Trap – 17 Ga. w/ Brass Nuts	25	31		701DF-1	1-1/4" P-Trap – 17 Ga. w/ Deep Flange	25	29		701DFBN-1	1-1/4" P-Trap – 17 Ga. w/ Deep Flange and Brass Nuts	25	31		701A-1	1-1/4" P-Trap – 17 Ga. w/ 10" Wall Tube	25	38		701ADF-1	1-1/4" P-Trap – 17 Ga. w/ Deep Flange - 10" Wall Tube	25	38		701G-1	1-1/4" P-Trap – 17 Ga. w/ Ground Joint	25	32
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Visit [www.dearbornbrass.com](http://www.dearbornbrass.com) for updates

03/2009

*For Residential and Commercial Applications*

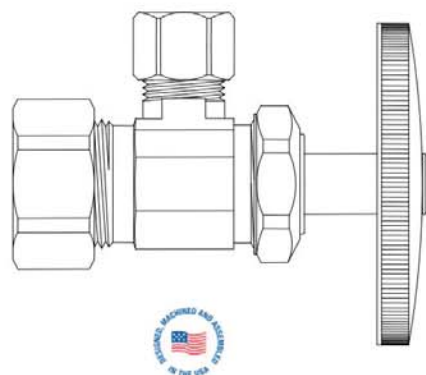
Job Name		Engineer / Architect	
Job Location		Wholesaler	
Submittal Date		Contractor	

## OCR1B/ OCR3B & OCR09/ OCR19/ OCR39/ OCR49 Multi-Turn Angle Stop – Compression x Compression

**Use:** For use in potable water distribution systems. Not intended for recirculating water systems that produce continuous use temperatures above 115° F. For those applications, use BrassCraft KT series ball stops

**Design Features:**

- **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 protects accidental stop operation during rough-ins
- **Compliant Stops** available for California and Vermont “low-lead” requirements



**Operating Specifications:**

**Temperature:** 40°- 140° F  
**Pressure:** 125 psi maximum



**Standard**

MATERIAL SPECIFICATIONS	
<b>Valve Body</b>	C36000 brass
<b>Stem</b>	POM or C36000 brass*
<b>Bib &amp; Packing Washers</b>	Nitrile or EPDM rubber
<b>Packing Nut</b>	C36000 brass
<b>Handle</b>	Plated metal, chrome-plated ABS or Lexan
<b>Handle Screw</b>	Zinc-plated steel
<b>Compression Sleeve</b>	C36000 brass
<b>Compression Nut</b>	C36000 brass, chrome plated

\*Where specified

**Compliant**

MATERIAL SPECIFICATIONS	
<b>Valve Body</b>	Compliant brass
<b>Stem</b>	POM or Compliant brass*
<b>Bib &amp; Packing Washers</b>	Nitrile or EPDM rubber
<b>Packing Nut</b>	Compliant brass
<b>Handle</b>	ABS, chrome plated
<b>Handle Screw</b>	Zinc-plated steel
<b>Compression Sleeve</b>	Compliant brass
<b>Compression Nut</b>	C36000 brass, chrome plated

**Standard Part Listing:**

- OCR1B C 3/8" Nom. Compression x 3/8" OD Compression, chrome plated
- OCR1B C1 3/8" Nom. Compression x 3/8" OD Compression, chrome plated, window box
- OCR1BZ C 3/8" Nom. Compression x 3/8" OD Compression, brass stem, chrome plated
- OCR3B C 3/8" Nom. Compression x 1/2" OD Compression, chrome plated
- OCR09 C 1/2" Nom. Compression x 1/4" OD Compression, chrome plated
- OCR09 C1 1/2" Nom. Compression x 1/4" OD Compression, chrome plated, window box
- OCR09 CBT 1/2" Nom. Compression x 1/4" OD Compression, chrome plated, bulk

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400.28 OCR09/19/39 Multi-Turn Angle Stop - Compr x Compr REV 01/11

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## OCR1B/ OCR3B & OCR09/ OCR19/ OCR39/ OCR49 Multi-Turn Angle Stop – Compression x Compression

### Standard Part Listing (con't):

<input type="checkbox"/>	OCR09 R	1/2" Nom. Compression x 1/4" OD Compression, rough brass
<input type="checkbox"/>	OCR09Z C	1/2" Nom. Compression x 1/4" OD Compression, brass stem, chrome plated
<input type="checkbox"/>	OCR09Z R	1/2" Nom. Compression x 1/4" OD Compression, brass stem, rough brass
<input type="checkbox"/>	OCR19 C	1/2" Nom. Compression x 3/8" OD Compression, chrome plated
<input type="checkbox"/>	OCR19 CBT	1/2" Nom. Compression x 3/8" OD Compression, chrome plated, bulk
<input type="checkbox"/>	OCR19 C1	1/2" Nom. Compression x 3/8" OD Compression, chrome plated, window box
<input type="checkbox"/>	OCR19 BZ	1/2" Nom. Compression x 3/8" OD Compression, oil rubbed bronze
<input type="checkbox"/>	OCR19 NP	1/2" Nom. Compression x 3/8" OD Compression, polished nickel
<input type="checkbox"/>	OCR19 NS	1/2" Nom. Compression x 3/8" OD Compression, satin nickel
<input type="checkbox"/>	OCR19 P	1/2" Nom. Compression x 3/8" OD Compression, polished brass
<input type="checkbox"/>	OCR19 R	1/2" Nom. Compression x 3/8" OD Compression, rough brass
<input type="checkbox"/>	OCR19 RB	1/2" Nom. Compression x 3/8" OD Compression, rough brass, bulk
<input type="checkbox"/>	OCR19 RBT	1/2" Nom. Compression x 3/8" OD Compression, rough brass, bulk
<input type="checkbox"/>	OCR19 R1	1/2" Nom. Compression x 3/8" OD Compression, rough brass, window box
<input type="checkbox"/>	OCR19K C	1/2" Nom. Compression x 3/8" OD Compression, plastic handle, chrome plated
<input type="checkbox"/>	OCR19K CB	1/2" Nom. Compression x 3/8" OD Compression, plastic handle, chrome plated, bulk
<input type="checkbox"/>	OCR19KL1 CB	1/2" Nom. Compression x 3/8" OD Compression, less outlet nut, plastic handle, chrome plated, bulk
<input type="checkbox"/>	OCR19KL1 RB	1/2" Nom. Compression x 3/8" OD Compression, less outlet nut, plastic handle, rough brass, bulk
<input type="checkbox"/>	OCR19L1 CB	1/2" Nom. Compression x 3/8" OD Compression, less outlet nut, chrome plated, bulk
<input type="checkbox"/>	OCR19L1 RB	1/2" Nom. Compression x 3/8" OD Compression, less outlet nut, rough brass, bulk
<input type="checkbox"/>	OCR19L4 C100T	1/2" Nom. Compression x 3/8" OD Compression, less inlet nut, chrome plated, bulk
<input type="checkbox"/>	OCR19P C	1/2" Nom. Compression x 3/8" OD Compression, less handle, handle screw included, chrome plated
<input type="checkbox"/>	OCR19P R	1/2" Nom. Compression x 3/8" OD Compression, less handle, handle screw included, rough brass
<input type="checkbox"/>	OCR19PX C	1/2" Nom. Compression x 3/8" OD Compression, PEX insert, chrome plated
<input type="checkbox"/>	OCR19PX R	1/2" Nom. Compression x 3/8" OD Compression, PEX insert, rough brass
<input type="checkbox"/>	OCR19T CB	1/2" Nom. Compression x 3/8" OD Compression, chrome plated, no tray, bulk
<input type="checkbox"/>	OCR19Z C	1/2" Nom. Compression x 3/8" OD Compression, brass stem, chrome plated
<input type="checkbox"/>	OCR19Z R	1/2" Nom. Compression x 3/8" OD Compression, brass stem, rough brass
<input type="checkbox"/>	OCR29 C	1/2" Nom. Compression x 7/16" OD Compression, chrome plated
<input type="checkbox"/>	OCR29 C1	1/2" Nom. Compression x 7/16" OD Compression, chrome plated, window box
<input type="checkbox"/>	OCR29 R	1/2" Nom. Compression x 7/16" OD Compression, rough brass
<input type="checkbox"/>	OCR29Z C	1/2" Nom. Compression x 7/16" OD Compression, brass stem, chrome plated
<input type="checkbox"/>	OCR39 C	1/2" Nom. Compression x 1/2" OD Compression, chrome plated
<input type="checkbox"/>	OCR39 CBT	1/2" Nom. Compression x 1/2" OD Compression, chrome plated, bulk
<input type="checkbox"/>	OCR39 C1	1/2" Nom. Compression x 1/2" OD Compression, chrome plated, window box
<input type="checkbox"/>	OCR39 R	1/2" Nom. Compression x 1/2" OD Compression, rough brass
<input type="checkbox"/>	OCR39Z C	1/2" Nom. Compression x 1/2" OD Compression, brass stem, chrome plated
<input type="checkbox"/>	OCR49 C	1/2" Nom. Compression x 5/8" OD Compression, chrome plated
<input type="checkbox"/>	OCR49Z C	1/2" Nom. Compression x 5/8" OD Compression, brass stem, chrome plated

### Compliant Part Listing:

<input type="checkbox"/>	OCR09X C	1/2" Nom. Compression x 1/4" OD Compression, chrome plated
<input type="checkbox"/>	OCR09X C1	1/2" Nom. Compression x 1/4" OD Compression, chrome plated, window box

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**BrassCraft®**

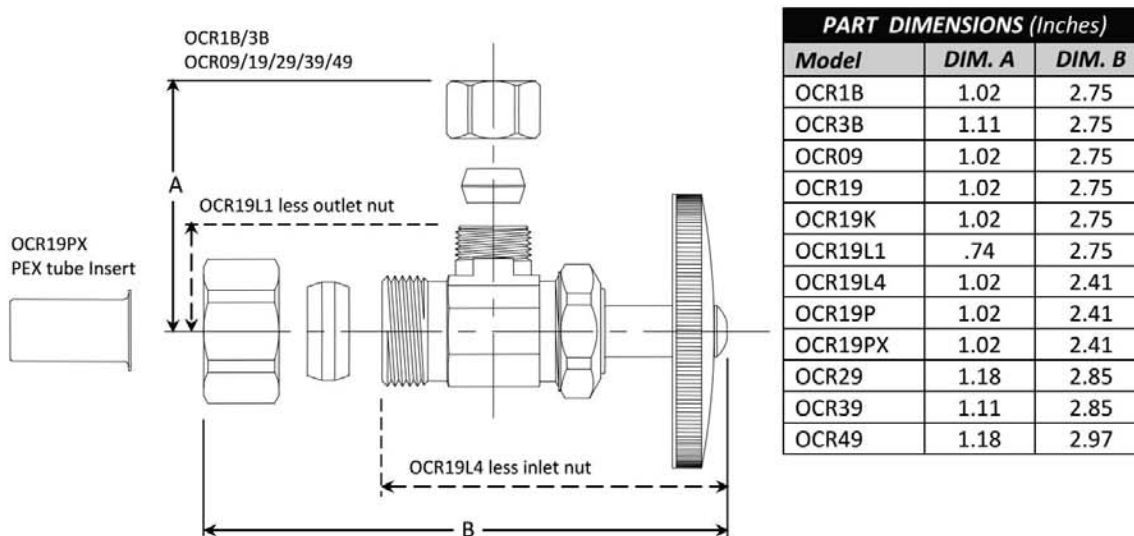
400.28 OCR09/19/39 Multi-Turn Angle Stop - Compr x Compr REV 01/11

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## OCR1B/ OCR3B & OCR09/ OCR19/ OCR39/ OCR49 Multi-Turn Angle Stop – Compression x Compression

### Compliant Part Listing (con't):

<input type="checkbox"/>	OCR09X R	1/2" Nom. Compression x 1/4" OD Compression, rough brass
<input checked="" type="checkbox"/>	OCR19X C	1/2" Nom. Compression x 3/8" OD Compression, chrome plated
<input type="checkbox"/>	OCR19X C1	1/2" Nom. Compression x 3/8" OD Compression, chrome plated, window box
<input type="checkbox"/>	OCR19X R	1/2" Nom. Compression x 3/8" OD Compression, rough brass
<input type="checkbox"/>	OCR19X R1	1/2" Nom. Compression x 3/8" OD Compression, rough brass, window box
<input type="checkbox"/>	OCR19L1X CB	1/2" Nom. Compression x 3/8" OD Compression, less outlet nut, chrome plated, bulk
<input type="checkbox"/>	OCR19L1X RB	1/2" Nom. Compression x 3/8" OD Compression, less outlet nut, rough brass, bulk
<input type="checkbox"/>	OCR19L4X C100T	1/2" Nom. Compression x 3/8" OD Compression, less inlet nut, chrome plated, 100 per case
<input type="checkbox"/>	OCR19PXX C	1/2" Nom. Compression x 3/8" OD Compression, PEX insert, chrome plated
<input type="checkbox"/>	OCR19ZX C	1/2" Nom. Compression x 3/8" OD Compression, brass stem, chrome plated
<input type="checkbox"/>	OCR29X C	1/2" Nom. Compression x 7/16" OD Compression, chrome plated
<input type="checkbox"/>	OCR29X C1	1/2" Nom. Compression x 7/16" OD Compression, chrome plated, window box
<input type="checkbox"/>	OCR29X R	1/2" Nom. Compression x 7/16" OD Compression, rough brass
<input type="checkbox"/>	OCR39X C	1/2" Nom. Compression x 1/2" OD Compression, chrome plated
<input type="checkbox"/>	OCR39X CBT	1/2" Nom. Compression x 1/2" OD Compression, chrome plated, bulk
<input type="checkbox"/>	OCR39X C1	1/2" Nom. Compression x 1/2" OD Compression, chrome plated, window box
<input type="checkbox"/>	OCR39X R	1/2" Nom. Compression x 1/2" OD Compression, rough brass



### Listings & Certifications:

- IAPMO listed to ASME A112.18.1-05 / CSA B125.1-05 (File # 0645)
- CSA listed to ASME A112.18.1-05 / CSA B125.1-05 (File # 204593)
- Compliant product CSA approved to California Health & Safety Code 116875 and Vermont Bill S.152 (Project # 2174785)



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400.28 OCR09/19/39 Multi-Turn Angle Stop - Compr x Compr REV 01/11

**BrassCraft**

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# WATER SUPPLY CONNECTORS



Meeting the demands of the Pro, Fluidmaster® has added new professional-grade faucet and toilet connectors to the Fluidmaster PRO Series™ line. This new line features 18 of the most popular braided stainless steel connectors with No-Burst® technology. Backed by a 10-year warranty, for professional installation only.

## TOILET



- No-Burst® braided stainless steel
- Lengths range from 9" to 20"
- Ample inside diameter for high flow capacity
- Won't kink or crease, even in the tightest of spaces
- Exceeds all requirements for flexible water connectors as defined by ASME A112.18.6 and CSA B125
- 10-year warranty

## FAUCET



- No-Burst® braided stainless steel
- Lengths range from 12" to 30"
- Ample inside diameter for high flow capacity
- Won't kink or crease, even in the tightest of spaces
- Exceeds all requirements for flexible water connectors as defined by ASME A112.18.6 and CSA B125
- 10-year warranty

TOILET

MODEL NUMBER	UPC 0 39961	CONNECTOR CONFIGURATION	PACK QTY	CASE DIMENSIONS W/D/H INCHES	CUBIC FEET	CASE WEIGHT	SCC 1 2 OF 5 100 39961
PR01T09	10011 5		25	6.75 x 9.75 x 5.00	0.20	5.00	10011 2
PR01T12	10013 9	3/8" Female Compression Thread X 7/8" Female Ballcock Thread	25	6.75 x 13.75 x 5.00	0.27	6.00	10013 6
PR01T20	10014 6		25	8.25 x 16.75 x 5.00	0.40	8.00	10014 3
PR04T09	10021 4		25	6.75 x 9.75 x 5.00	0.20	5.00	10021 1
PR04T12	10022 1	1/2" I.P. Female Straight Thread X 7/8" Female Ballcock Thread	25	6.75 x 13.75 x 5.00	0.27	6.00	10022 8
PR04T20	10023 8		25	8.25 x 16.75 x 5.00	0.40	8.00	10023 5

FAUCET

PR01F12	10012 2		25	6.75 x 13.75 x 5.00	0.27	6.00	10012 9
PR01F16	10016 0	3/8" Female Compression Thread	25	8.25 x 16.75 x 5.00	0.40	7.00	10016 7
PR01F20	10020 7	X 1/2" I.P. Female Straight Thread	25	8.25 x 16.75 x 5.00	0.40	8.00	10020 4
PR01F30	10030 6		25	8.25 x 16.75 x 5.00	0.40	10.00	10030 3
PR04F12	10015 3		25	6.75 x 13.75 x 5.00	0.27	7.00	10015 0
PR04F16	10017 7	1/2" I.P. Female Straight Thread	25	8.25 x 16.75 x 5.00	0.40	8.00	10017 4
PR04F20	10018 4	X 1/2" I.P. Female Straight Thread	25	8.25 x 16.75 x 5.00	0.40	8.00	10018 1
PR04F30	10019 1		25	8.25 x 16.75 x 5.00	0.40	11.00	10019 8
PR06F12	10024 5	3/8" Female Compression	25	6.75 x 13.75 x 5.00	0.27	6.00	10024 2
PR06F20	10025 2	X 3/8" Female Compression	25	8.25 x 16.75 x 5.00	0.40	7.00	10025 9
PR08F12	10026 9	3/8" Female Compression Thread	25	6.75 x 13.75 x 5.00	0.27	6.00	10026 6
PR08F20	10027 6	X 3/8" O.D. Copper Tubing Coupling	25	8.25 x 16.75 x 5.00	0.40	8.00	10027 3

# ASIAN HEALTH

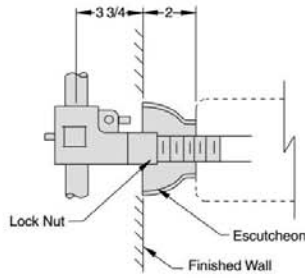
DF-1 CARRIER

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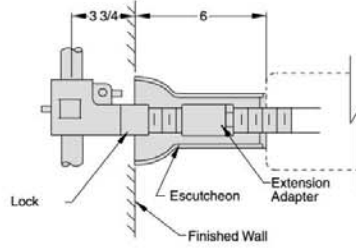


F	<b>JAY R. SMITH MFG. CO.®</b> <small>MEMBER OF MORRIS GROUP INTERNATIONAL™          POST OFFICE BOX 3237          MONTGOMERY, ALABAMA 36109-0237 (USA)          TEL: 334-277-8520 FAX: 334-272-7396 www.jrsmith.com</small>	 <small>MEMBER OF:</small>	 <small>MEMBER OF:</small>	 <small>MEMBER OF:</small>	<b>LOCATION</b> <div style="border: 1px solid black; height: 40px; width: 100%;"></div>
ELECTRIC WATER COOLER SUPPORTS					
DRAWING NUMBER	<b>FLOOR MOUNTED WITH "PRO-SET" UPRIGHTS</b>				
SIZE					
SCALE:	<b>NONE</b>				
DATE:	<b>9-28-63</b>				
APPROVED BY:					
CHECKED BY:	<b>RP</b>				
DRAWN BY:	<b>SL</b>				
FIGURE NUMBER	<b>0830</b>				
DIMENSIONS ARE SUBJECT TO MANUFACTURERS TOLERANCE AND CHANGE WITHOUT NOTICE					
<p><b>Fig. 0830 . . . FOR WALL MOUNTED ELECTRIC WATER COOLERS</b></p> <p>*This dimension can be increased when fixture support is to be installed behind the wall (specify when required and wall thickness).</p> <p><b>NOTE:</b> Dimensions shown in parentheses are in millimeters.</p>					
			<p><b>BASE DETAIL</b></p>		
<b>ROUGHING-IN TABLE</b>					
FIXTURE NAME		NUMBER		SIZE	
A	B	C	D	E	F
<p><b>NOTE:</b> 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.</p>					
REV.	DATE	DESCRIPTION	BY	CKD. BY	FIGURE NUMBER
F	9-23-10	Replace Base Detail / added ®	RN	CL	<b>0830</b>
E	01/19/00	Revised Base Plate	JJ	BS	
D	6-12-95	Added Millimeters	EMB	BS	
C	8-17-93	Submittal Update	EMB	BS	
WEIGHT POUNDS		VOLUME CUBIC FEET			

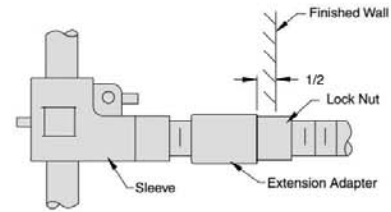
## VARIATIONS AND INSTALLATION



**SUFFIX -E Threaded Escutcheon.** When using lavatories of the flat slab type, the manufacturer requires a 2" dimension from the face of the wall to the rear of the lavatory. The 2" dimension prevents water from accumulating at the wall and causing deterioration. The escutcheon is chrome plated and is available on all concealed arm type supports. Add Suffix -E to figure number required.

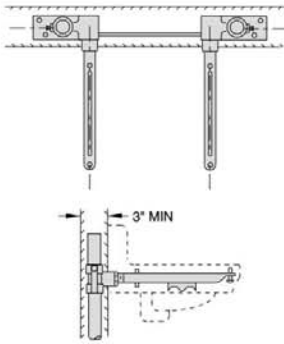


**SUFFIX -E6 6" Long Threaded Escutcheon.** When lavatories of the flat slab type are to be set away from the wall beyond the normal 2" setting, a 6" long escutcheon is provided with the same threaded arrangement as the regular 2" escutcheon. This escutcheon is chrome plated and is available on all concealed arm type supports. Add Suffix -E6 to figure number required.

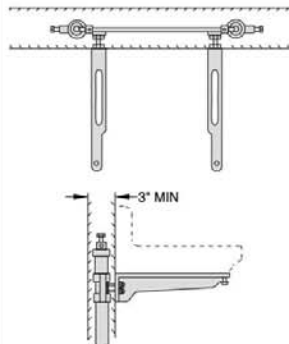


**SUFFIX -M24 Extension Adaptor for Concealed Arm Support.** When the standard (3 3/4") dimension from the face of the wall to the centerline of support upright, as shown in the illustration, is exceeded, use Suffix -M24 extension adaptor. The face of the extension adaptor should be set 1/2" in back of finished wall so the standard concealed arm and locking arrangement can be used for the lavatory regardless of the wall thickness. Add Suffix -M24 to Fig. No. required.

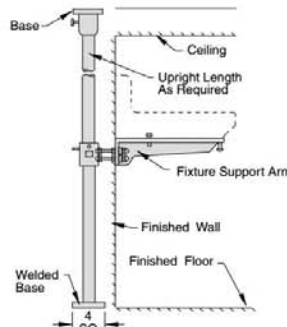
**NOTE:** Always specify overall wall thickness and center line of support location.



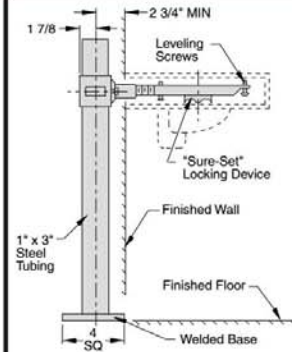
**SUFFIX -Z Special Narrow Sleeve and Base for Concealed Arm Support.** When a concealed arm lavatory support is to be installed in a narrow wall, a special narrow concealed arm sleeve and base are available for this type of installation. Add Suffix -Z to figure number required.



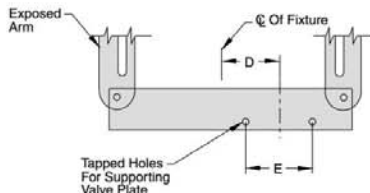
**SUFFIX -Z Special Narrow Sleeve and Base for Exposed Arm Support.** When an exposed arm lavatory or sink support is to be installed in a narrow wall, a special narrow sleeve and base are available for this type of installation. Add Suffix -Z to figure number required.



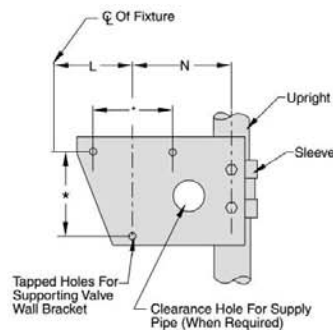
**SUFFIX -M11 Floor-to-Ceiling Uprights**  
When required, floor mounted fixture supports can be supplied with floor-to-ceiling uprights for securing to the floor and to the ceiling above. Add Suffix -M11 to figure number required.



**SUFFIX -M31 Rectangular Steel Uprights with Welded Bases.** For use with metal stud and sheet rock wall construction. The rectangular shape upright offers greater structural strength and does not rely on the wall construction for support of the fixture. The rectangular upright keeps deflection to a minimum. For use with all floor mounted fixture supports. Add Suffix -M31 to figure number required.

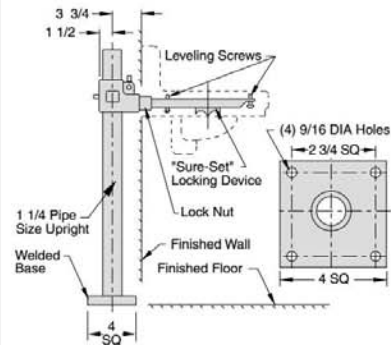


**SUFFIX -KF Supporting Bar for Fixture Mounted Knee-Action Valve.** Can be furnished on any exposed arm, wall or floor mounted sink support. Add Suffix -KF to figure number required.



\*Dimension based on valve used.

**SUFFIX -KW Supporting Plate for Wall Mounted Knee-Action Valve.** Can be furnished on any floor mounted lavatory or sink support. Add Suffix -KW to figure number required.



**WELDED BASE Regularly Furnished.** Round steel upright with welded base. Used with floor mounted fixture supports. The base should be securely anchored to the floor construction w/(4) 1/2" bolts. (By others)

# ASIAN HEALTH

SP-1

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# Liberty Pumps®

## 280-Series



Available with  
Vertical Float

### Cast Iron Submersible Effluent/Sump Pumps

1/2 hp  
1-1/2" Discharge  
3/4" Solids Handling

#### Features:

- Liberty's unique, one-piece "Uni-Body" casting
- Quick-disconnect 10' standard power cord allows replacement of cord in seconds without breaking seals to motor (other lengths available)
- Permanently lubricated upper and lower bearings
- Oil-filled, hermetically sealed motors with thermal overload protection
- Stainless steel, removable bottom screen
  - Stainless steel rotor shaft
  - Stainless steel fasteners

#### 115 V. Models:

- 280 Manual
- 281 Wide-Angle Float with Quick Disconnect
- 283 Wide-Angle Float, Series Plug
- 287 VMF, vertical magnetic float for heavy-duty sump pump applications

#### 208-230 V. Models:

- 280HV Manual
- 281HV Wide-Angle Float with Quick Disconnect
- 283HV Wide-Angle Float, Series Plug
- 287HV Vertical Magnetic Float (VMF) Switch

Wide-Angle Floats are mercury-free,  
mechanically activated.

innovate. evolve.



# 280-SERIES

## 1/2 hp Submersible Effluent/Sump Pumps

The Liberty 280-Series provides a cost effective "mid-range" pump for on-site waste water systems, liquid waste transfer and commercial heavy-duty sump pump applications that require higher head or more flow. Designed around Liberty's unique "Uni-Body" casting, the 280-Series will provide years of reliable performance.

### All Models Feature:

- Vortex style impeller permitting passage of solids up to 3/4"
- 416 stainless steel rotor shaft
- Permanently lubricated upper and lower ball bearing
- Epoxy powder coat finish
- All fasteners – corrosion-resistant stainless steel
- 1 1/2" Discharge
- Stainless steel bottom screen – easily removable
- Maximum fluid temperature: 140° F.
- **280-Series Cord Lengths**

Model	10'	25'(-2)	35'(-3)	50'(-5)
280	Standard	Optional	Optional	Optional
281	Standard	Optional	Optional	Optional
283	Standard	Optional	Optional	N/A
287	Standard	Optional	N/A	N/A

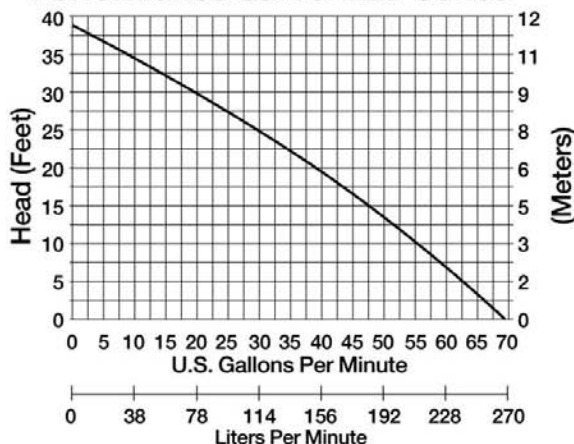
10' cord length standard on all models. For optional lengths, add "-2, -3 or -5" suffix to model number.  
Example: for model 280 with 35' cord, order 280-3

### Motor Specifications

1/2 hp 60 Hz 3450 RPM  
Oil filled, thermally protected

115 V. Models 8.5 amps  
208/230 V. Models 4.6 amps

### Performance Curve: 280-Series



### Dimensional Data:

Weight: 29 lbs.  
Height: 13"  
Major Width: 10" (model 287)

### Minimum Sump Diameters:

Model 281, 283...14"  
Model 287 VMF...10"

Factory switch settings	Model 281, 283	Model 287 VMF
Turn on level	13"	9.5"
Turn off level	7"	4.0"

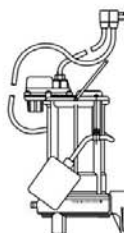
The Model 283 features a fully adjustable wide-angle float. Differential adjustments can be made easily by tethering the float to the discharge pipe or other mounting point. Vertical float model 287 is not adjustable.



**Model 280**  
Manual,  
no switch



**Model 281**  
Wide angle  
float switch  
with quick-  
disconnect



**Model 283**  
Wide angle  
float switch  
with series  
(piggy-back)  
plug



**Model 287 VMF-Series**  
Vertical mag-  
netic float for  
smaller pits –  
will operate in  
a 10" diameter  
sump



Specifications are subject to change without notice.

Liberty Pumps • 7000 Apple Tree Avenue • Bergen, New York 14416 • Phone 800-543-2550 Fax (585) 494-1839  
www.libertypumps.com

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# ASIAN HEALTH

ODN-1

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## GLUE - ON - NOZZLE

- Set Nozzles When You Set Trim
- Anti-Theft Escutcheon & Bird Screen
- Saves Labor - Almost pays for itself
- Saves Material - No male adapters or bands
- Reduces Liability - No sharp PVC / ABS edges
- No Coordinating with Masonry or Stucco Crew



## Installation



Seal wall opening with 100% silicone caulk.



Install anti-theft escutcheon & secure with appropriate anchor.



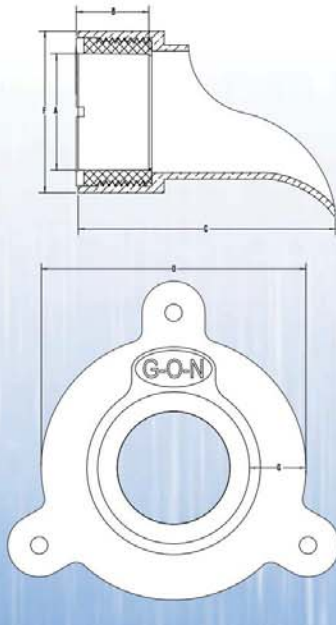
Measure hub depth of G-O-N & cut stub-out to proper length.



Using solvent cement, place nozzle over pipe and into escutcheon.



# Specifications



G-O-N	Approx. weight in lbs.	A Inside diameter	B Hub depth	C Nozzle depth	D Escutcheon width	E Escutcheon depth	F Overall dimension	G Escutcheon width
2"	3	2.39"	1.5"	5.25"	5.75"	.50"	3.25"	1.25"
3"	5	3.52"	1.5"	5.37"	7.00"	.57"	4.50"	1.25"
4"	7	4.52"	1.5"	5.37"	8.00"	.57"	5.50"	1.25"
6"	10	6.65"	1.5"	5.62"	10.25"	.57"	7.50"	1.25"
8"	13	8.65"	1.5"	5.62"	12.37"	.57"	10.00"	1.25"
10"	21	10.78"	2.5"	6.50"	14.50"	.57"	12.00"	1.25"
12"	26	12.78"	2.5"	7.50"	16.50"	.50"	14.00"	1.25"

# Ordering Information

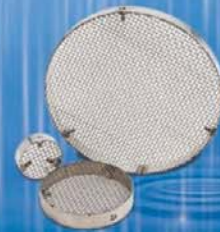
*Glue-On-Nozzle Kit*



*Replacement Escutcheon*



*Bird Screen*



Code	Description	Qty.
82700	2" Glue-On-Nozzle w/ Escutcheon	1
82703	3" Glue-On-Nozzle w/ Escutcheon	1
82706	4" Glue-On-Nozzle w/ Escutcheon	1
82708	6" Glue-On-Nozzle w/ Escutcheon	1
82710	8" Glue-On-Nozzle w/ Escutcheon	1
82713	10" Glue-On-Nozzle w/ Escutcheon	1
82715	12" Glue-On-Nozzle w/ Escutcheon	1

Code	Description	Qty.
82740	2" Escutcheon	1
82743	3" Escutcheon	1
82745	4" Escutcheon	1
82748	6" Escutcheon	1
82751	8" Escutcheon	1
82755	10" Escutcheon	1
82758	12" Escutcheon	1

Code	Description	Qty.
82720	2" Bird screen	1
82723	3" Bird screen	1
82725	4" Bird screen	1
82727	6" Bird screen	1
82730	8" Bird screen	1
82733	10" Bird screen	1
82735	12" Bird screen	1

[www.rectorseal.com](http://www.rectorseal.com)

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P-A-13



# ASIAN HEALTH

FD-1

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## ON-GRADE ADJUSTABLE FLOOR DRAIN

### 832 series

### Finish Line™

#### SPECIFICATION

Sioux Chief 832 series Finish Line adjustable floor drain shall be used where necessary in drainage systems. Floor drain shall allow adjustment of 1" before the concrete pour and 1" after the concrete pour. Drain shall have an enamel-coated ductile iron body with no-hub connection. Strainer shall be heel-proof and meet applicable load requirements for intended use. Trap primer port shall be threaded 1/2" FIP and plugged for optional connection. Designed in accordance with ASME A112.6.3-2001

#### MATERIALS

ring/strainer: nickel-bronze, 304 stainless steel  
 head adapter, coring sleeve: ductile iron  
 coring plug: high-impact polymer  
 base adapter: ductile iron

#### STRAINER LOAD RATING

nickel-bronze: 1,000 lbs. (light duty, pedestrian traffic)  
 stainless steel: 2,000 lbs. (light duty, pedestrian traffic)

#### STRAINER FREE AREA

round: 7.5 in<sup>2</sup>  
 square: 12.75 in<sup>2</sup>

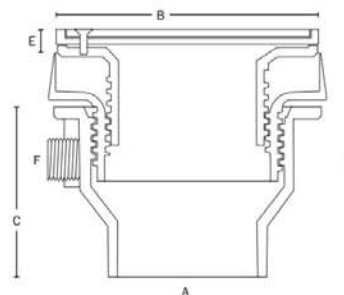
#### DIMENSIONS

A: connection size	2" or 3" no-hub
B: ring/strainer diameter	
round / square	5 1/2" / 5 7/8"
C: body height	3 3/4"
D: pre-pour adjustable height	4 5/8" - 5 3/4"
E: adjustable finish height	
round / square	0" - 1" / 5/16" - 1"
F: trap primer port	1/2" FIP thread - plugged

Item # Submitted	_____
Job Name	_____
Location	_____
Engineer	_____
Contractor	_____
PO#	_____ TAG _____



832-35DSQ



Create Item Number

**832-ABCD**

e.g. 832-35DSQ = Finish Line drain with 3" no-hub connection, and square 304 stainless steel ring and strainer

- A CONNECTION SIZE**
- 25D 2" no-hub
  - 35D 3" no-hub

- B RING & STRAINER**
- NR round cast nickel-bronze
  - NQ square cast nickel-bronze
  - SR round cast stainless steel
  - SQ square cast stainless steel

- D Options**
- V Vandal-resistant strainer screws
  - B Complies with Buy American Act<sup>1</sup>
- 1 Available only on round nickel-bronze ring & strainer

#### ACCESSORIES

- 822-EX3 Extension nipple<sup>2</sup>
- 863-FN 4" nickel-bronze funnel
- 863-FA 4" aluminum funnel
- 832-S3 shim kit
- 832-W locating bristle kit

2 Fits between body and sleeve - extends sleeve 2-7/8" (min) to 4-5/8" (max) above body



Sioux Chief Manufacturing Company • tel: 1-800-821-3944 • www.siouxchief.com • fax: 1-800-758-5950

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COMMERCIAL CATALOG

# ON-GRADE ADJUSTABLE FLOOR DRAIN

832 series

Finish Line™

**SPECIFICATION**

Sioux Chief 832 series Finish Line adjustable on-grade floor drain shall be used where necessary in drainage systems. Floor drain shall allow adjustment of 1.25" before the concrete pour, and 1.25" after the concrete pour. Floor drain shall have a Sch. 40 hub connection, which conforms to ASTM D2665 (PVC) or D2661 (ABS). Connection to drainage system shall be made with a solvent weld joint to ABS/PVC pipe. Strainer of floor drain shall fasten into female threaded brass inserts. Strainer shall be heel-proof and meet applicable load requirements for intended use. Trap primer port shall be threaded 1/2" FIP for knockout connection.

**MATERIALS**

- ring/strainer: nickel-bronze, 304 stainless steel
- head adapter: ABS with threaded brass inserts
- coring sleeve: ABS
- coring plug: high-impact polymer
- base adapter: ABS or PVC

**STRAINER LOAD RATING**

- nickel-bronze: 1,000 lbs. (light duty, pedestrian traffic)
- stainless steel: 2,000 lbs. (light duty, pedestrian traffic)

**STRAINER FREE-AREA**

- round: 11.75 in<sup>2</sup>
- square: 16.4 in<sup>2</sup>

**DIMENSIONS**

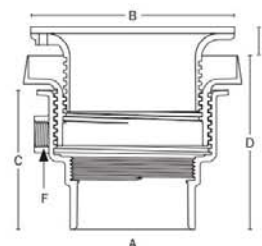
- A: connection size 2", 3", or 4" Sch. 40 hub
- B: ring/strainer diameter
  - round 6 1/2"
  - square 7"
- C: adapter height
  - 2" hub 4 5/8"
  - 3" hub 4 3/8"
  - 4" hub 4 5/8"
- D: pre-pour adjustable height
  - 2" hub 5 1/2" - 6 3/4"
  - 3" hub 5 1/4" - 6 1/2"
  - 4" hub 5 1/2" - 6 3/4"
- E: post-pour adjustable height
  - round 0" - 1 1/4"
  - square 5/16" - 1 1/4"
- F: trap primer port 1/2" FIP thread for knockout connection


\*2" hub connection is factory installed 2" x 3" bushing in 3" hub model.

Item # Submitted	_____
Job Name	_____
Location	_____
Engineer	_____
Contractor	_____
PO#	_____ TAG _____



832-4PNQ



 Models 832-2ANR, 832-2PNR, 832-2ANQ, 832-2PNQ, 832-36ANR, 832-36PNR, 832-36ANQ, and 832-36PNQ are UPC listed

Create Item Number

**832- A B C D**

e.g. 832-36PNR = Finish Line drain with 3" Sch. 40 hub connection with round nickel-bronze ring and strainer

- A CONNECTION SIZE**
- 2 2" Sch. 40 hub
  - 36 3" Sch. 40 hub
  - 4 4" Sch. 40 hub

- B CONNECTION TYPE**
- A ABS base adapter
  - P PVC base adapter

- C RING & STRAINER**
- NR round nickel-bronze
  - NQ square nickel-bronze
  - SR round stainless steel
  - SQ square stainless steel

- D OPTIONS (FACTORY INSTALLED)**
- V vandal-resistant strainer screws
  - E 1 3/8" extended strainer rim <sup>1</sup>
  - H hinged strainer
  - B complies with Buy American Act <sup>1</sup>

<sup>1</sup> Available only on round nickel-bronze ring & strainer.

- ACCESSORIES**
- 832-UM stainless steel debris bucket
  - 832-S4 shim kit
  - 863-FA aluminum condensate funnel
  - 863-FN nickel-bronze condensate funnel
  - 863-FNO oval nickel-bronze condensate funnel
  - 832-EX4 ductile iron extension nipple
  - 832-W locating bristle kit



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1-10

# ASIAN HEALTH

MS-1

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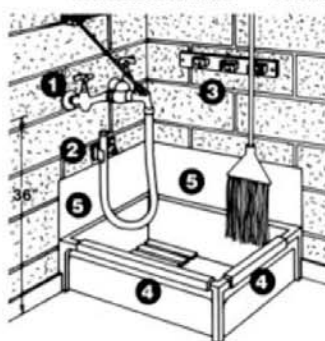
E. L. Mustee & Sons, Inc.  
 5431 West 164th Street  
 Brookpark, OH 44142  
 Phone: 216.267.3100  
 Fax: 216.267.9997  
 Email: info@mustee.com  
 Web: www.mustee.com

**63M Mop Service Basin**  
 24"x24"x10"



- 1-Piece, Molded Construction — made with white DURASTONE®
- 24"x24"x10"
- Integrally Molded Center Drain with a seal
- Connects to 3" Iron Steel Pipe
- Easy to Install

**Accessories — order separately...**



Part No.	Description
63.600A	1 Service Sink Faucet
65.700	2 Hose and Hose Holder
65.600	3 Mop Hanger
63.401	4 Bumper Guards
67.2424	5 DURAGUARD™ Wall Guards
65.308	Drain Seal
65.311	Drain Seal

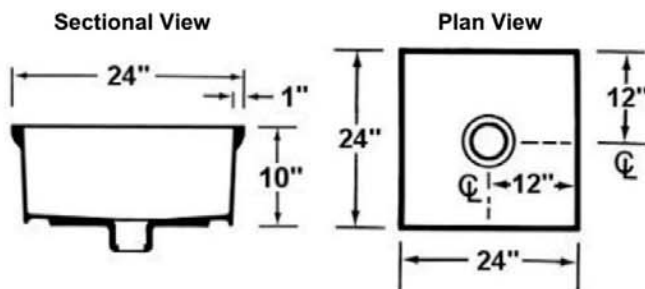
**Code Accepted**

DURASTONE® Mop Basins meet or exceed performance requirements:

- IAPMO® Listed — file numbers: Shower Floor — #1453; Drain — #1251 and #1635
- American National Standards Institute (ANSI) — Specification 124.6
- Warnock Hersey Listed — CSA test standards: Mop Basin — #B45.0 and #B45.5

**SPECIFICATIONS**

Model No.	Size	UPC
63M	24"x24"x10"	6 71031 00189 4



General: Furnish and install as shown on plans, Mop Service Basin model 63M, as manufactured by E.L. Mustee & Sons, Inc. Unit to be one-piece molded fiberglass made with matched metal molds using extreme heat and pressure. Height shall be 10" with not less than 1" wide shoulder. Size 24"x24". Drain shall be integrally molded, complete with drain seal for installation of 3" ABS, PVC (Sch. #80) and iron pipe. Removable stainless steel strainer. Performance tested to meet or exceed ANSI Specifications Z 124.2, Z 124.6. Weight 45 lbs., cubic feet 4.2. Install in compliance with local codes.

## MECHANICAL FAUCETS

### 897-MPRCF

## Manual Faucets



### Product Type

Wall Mounted 8" Body, Adjustable Arms 7-5/8" - 8-3/8" Hot and Cold Water Sink Faucet - Master Pack of 8

### Features & Specifications

- 8" Body, Adjustable Arms 7-5/8" - 8-3/8"
- 2-3/8" Vandal Proof Lever Handle
- Quatum Compression Operating Cartridge
- 1/2" NPT Adjustable Female Union Nut Supply Arms
- 3/4" Male Hose Thread Outlet
- Integral Stop Valves for Servicing the product
- Atmospheric Vacuum Breaker, Not Intended for Continuous Pressure Applications
- Vacuum Breaker Spout with Pail Hook and Wall Brace
- Atmospheric Vacuum Breaker, Not Intended for Continuous Pressure Applications
- CFNow! Item Ships in 3 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
- ADA ANSI/ICC A117.1

Job Name \_\_\_\_\_

Item Number \_\_\_\_\_

Section/Tag \_\_\_\_\_

Model Specified \_\_\_\_\_

Architect \_\_\_\_\_

Engineer \_\_\_\_\_

Contractor \_\_\_\_\_

Submitted as Shown       Submitted with Variations

Date \_\_\_\_\_



Last Revision: 04/30/2015 • Date Printed: 08/14/2015 • Product specifications subject to change without notice

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

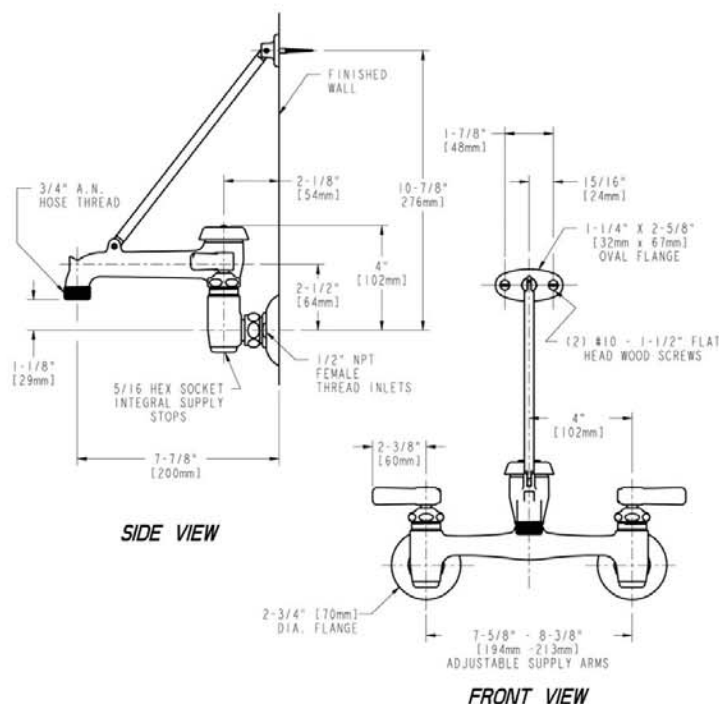
## 897-MPRCF

### Manual Faucets



#### Architect/Engineer Specification

Chicago Faucets No. 897-MPRCF, Sink Faucet for hot and cold water, wall-mounted with 7-5/8" - 8-3/8" adjustable centers. Rough chrome plated. Vacuum breaker spout with pail hook and wall brace. 2-3/8" metal, vandal-proof, lever handles with sixteen-point, tapered broach and secured blue and red index buttons. Quatum™ rebuildable compression cartridge, opens and closes 90°, closes with water pressure, features square, tapered stem. Adjustable supply arms include 1/2" NPT female union nut. 3/4" male hose thread outlet. Integral stop valves for servicing the faucet. Master pack quantity of 8. NOTE: Atmospheric vacuum breaker is 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..



#### 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 [www.chicagofaucets.com](http://www.chicagofaucets.com).

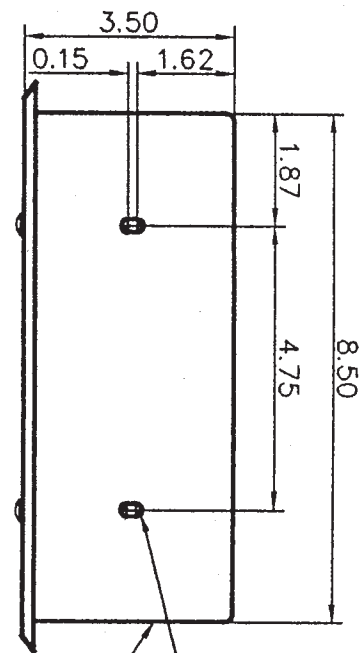
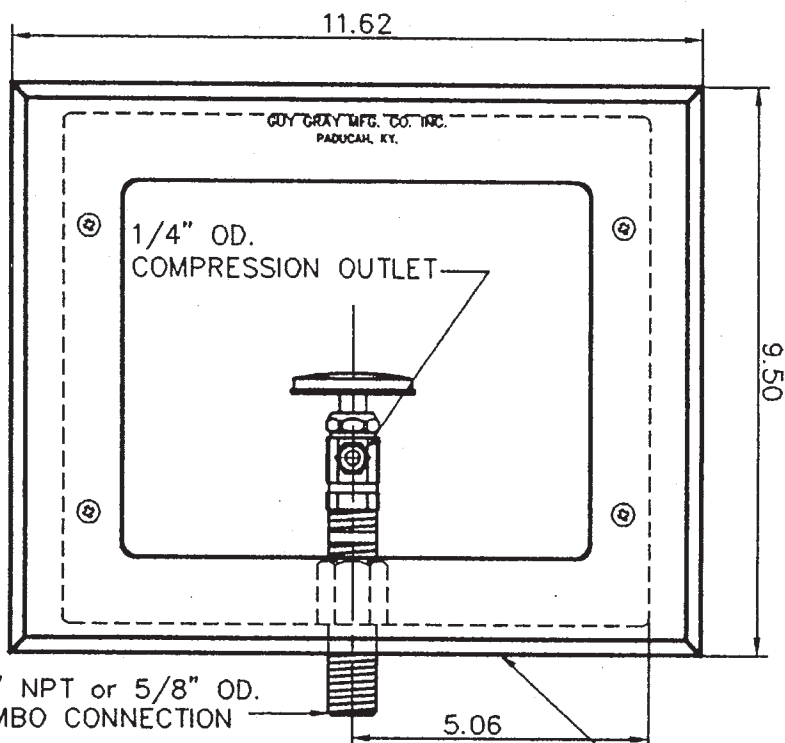
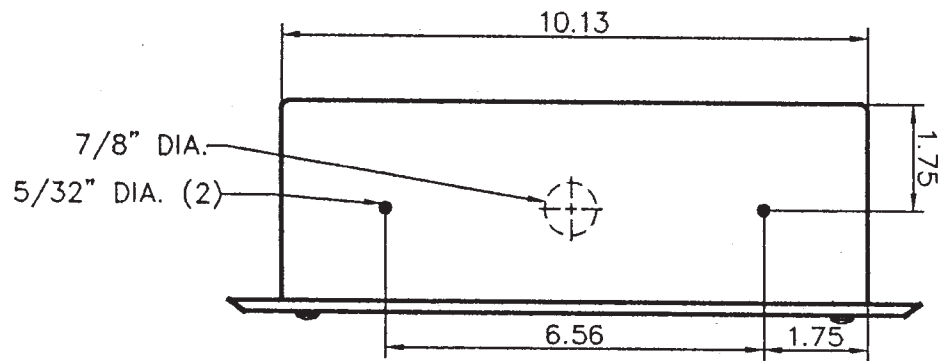
Chicago Faucets, member of the Geberit Group, is the leading brand of commercial faucets and fittings in the United States, offering a complete range of products for schools, laboratories, hospitals, office buildings, food service, airports and sport facilities. Call 1.800.TECTRUE or 1.847.803.5000 Option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



Last Revision: 04/30/2015 • Date Printed: 08/14/2015 • Product specifications subject to change without notice

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

GUY GRAY MFG. CO. INC.  
MODEL NO. BIM875



18 ga. STEEL BOX φ7/32"x.15 LG. (4)

18 ga. STEEL COVER





## BIM Series Guy Gray Ice Maker Boxes

### **Specification:**

Furnish and install recessed galvanized metal BIM Series Guy Gray Ice Maker Outlet Box. Unit shall be Guy Gray product number checked below as manufactured by IPS Corporation in Collierville, TN.

### **Valve Options:**

1/2" Quarter Turn Ball Valve or 1/2" Domestic Boiler Drain Valve with Solder, CPVC or Pex connection

### **Box Material:**

20 gauge Box and 18 gauge faceplate  
G90 Hot Dipped Galvanized Steel (unpainted)



Item #	Description	Model #	Case Qty
88039	Quarter Turn Valve w 1/2" Sweat Connection	BIM875QTS	6
88054	Domestic Valve w/ 1/2" MIP/Sweat Conx. Valve	BIM875	6
88055	Quarter Turn Valve w/ 1/2" CPVC Conx. Valve	BIM876QTC	6
88103	Domestic Valve w/ 1/2" CPVC Connection	BIM876	6
88066	Quarter Turn Valve w/ 1/2" PEX Connection	BIM877QTP	6
88125	Domestic Valve w/ 1/2" Pex Connection	BIM877	6