

## SHOP DRAWING TRANSMITTAL

To: Daniel Cusimano Architect Inc.  
185 Bridgeland Ave.  
Suite 107  
Toronto, ON M6A 1Y7

Att: Stacey Melville

Project: **Shopper's Drug Mart #5872**  
Fanshawe & Highbury  
London, Ontario

From: Kyle McCallum  
Date: June 25, 2025  
File: 7035.pt

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We have reviewed the attached contractor's equipment shop drawings for general conformity with the design documents and are forwarding them to you for your use in association with the above noted project.

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The documents are sent by: Courier • Hand • Pick-up • Facsimile • **E-Mail**

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<u>Qty</u>	<u>Shop Drawings</u>	<u>Notes</u>
1	Water Heaters <b><u>WH-1</u></b> & <b><u>WH-2</u></b>	Reviewed: No comment.
1	Handicapped Water Closet <b><u>HWC</u></b> & Water Closet <b><u>WC</u></b>	Reviewed: Ensure flush valve sensor is located 3-1/2" above toilet's seat cover open position.
1	Handicapped Lavatory <b><u>HL</u></b> & Lavatory <b><u>L</u></b>	Reviewed: Ensure supplies are being provided.
1	Double Sink <b><u>DS-1</u></b>	Reviewed: Ensure supplies are being provided.
1	Double Sink <b><u>DS-2</u></b>	Reviewed: Ensure supplies are being provided.
1	Hand Sink <b><u>HS</u></b>	Reviewed: Ensure supplies are being provided.
1	Mop Sink <b><u>MS</u></b>	Reviewed: No comment.
1	Expansion Tank <b><u>ET-1</u></b> & <b><u>ET-2</u></b>	Reviewed: No comment.
1	Recirculating Pumps <b><u>P-1</u></b> & <b><u>P-2</u></b>	Reviewed: No comment.
1	Hose Reel <b><u>HR-1</u></b>	Reviewed: Ensure 25 feet long hose reel is being provided.  Ensure a hose bumper and pre-rinse standard lever-operated spray valve with a stay open clip & a rubber bumper spray head is being provided.



54 Audia Court, Unit 2  
Concord, ON L4K 3N5  
(905)-738-1400

PROJECT NAME PROJECT ADDRESS DATE SUBMITTED  
SDM 5872 LONDON 25-029 1540 ROB PANZER ROAD, UNIT #1-B LONDON,  
ONTARIO

TO FROM  
COMPANY COMPANY

EMAIL EMAIL

ADDRESS ADDRESS  
2800 JOHN ST #23 MARKHAM, ON L3R 0E2 54 Audia Court, Unit 2  
Concord, ON L4K 3N5

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### Title

Plumbing Fixtures

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### Description

Tag#	Count
DS-1	1
DS-2	1
HL	1
HR-1	1
HS	3
HWC	1
L	2
MS	1
UH-1	1
WC	2
WH-1	1
WH-2	1
ET-1	1
ET-2	1
P-1	1
P-2	1

INTEGRATED ENGINEERING		
REVIEW OF THIS DRAWING IS FOR GENERAL CONFORMITY WITH THE DESIGN ONLY. THE CONTRACTOR IS RESPONSIBLE FOR ALL REQUIREMENTS OF THE INSTALLATION.		
PROJ No.	7035	REVIEWED 
DATE	25.06.25	REVISED
BY	KJM	RESUBMIT

SEE NOTES & COMMENTS

## **SHOP DRAWING PACKAGE**

Prepared for  
**CONSULT MECHANICAL**

**SHOPPERS  
DRUG MART**

REVISED ON JUNE 20TH 2025

**JUNE 12, 2025**



# Commercial Electric Water Heaters

## DURA-POWER™

Designed for use as a recovery heater having its own storage tank. Available in upright standard models (DEN) and lowboy models (DEL).

### GLASSLINED TANK

- Thirteen sizes; 6 thru 119 gallon capacity. Tank interior is coated with glass specially designed by A. O. Smith for water heater use.

### ELEMENTS

- Zinc plated copper sheaths for longer life. Medium watt density means lower surface temperature to minimize scale build-up and more surface to heat water. Element sizes from 1.5 to 6 KW. Maximum input 12 KW (see chart).

### STANDARD VOLTAGES

- 120, 277 single phase and 208, 240 and 480V unbalanced three-phase delta; easily converted to single-phase at terminal block (except 208V with 5500 watt elements). Single element heaters, single-phase only.

### TERMINAL BLOCK

- Factory-installed. Just bring the service to heater and connect to block. Terminal block not supplied on 120V & 277V models. (No junction box on DEL6-20)

### CONTROLS

- Temperature control (adjustable through a range of 110° to 170°F on single element and 120° to 181°F on dual element) and manual reset high temperature cutoff per element.

### CSA CERTIFIED AND ASME RATED T&P RELIEF VALVE

### SIMPLIFIED CIRCUITRY, COLOUR CODED FOR EASE OF SERVICE

### ANODE ROD FOR MAXIMUM CORROSION PROTECTION

### CABINET HAS BONDERIZED UNDERCOAT WITH BAKED ENAMEL FINISH

### DRAIN VALVE (EXCLUDES DEL 6-20)

### UL APPROVED FIELD CONVERSION PROGRAM

### COMPLIANCE

- Meets the standby loss requirements of NRCan and current edition of ASHRAE/IES 90.1.

### LIMITED WARRANTY OUTLINE

- If the tank should leak any time during

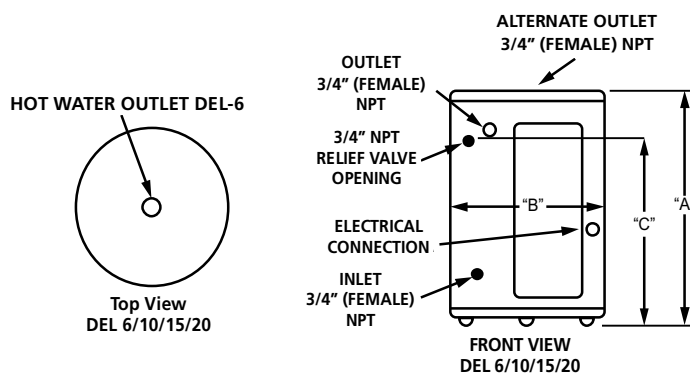
the warranty, A. O. Smith will furnish a replacement heater; installation, labour, handling and local delivery extra. THIS OUTLINE IS NOT A WARRANTY. For complete information consult the written warranty or A. O. Smith.







# Commercial Electric Water Heaters

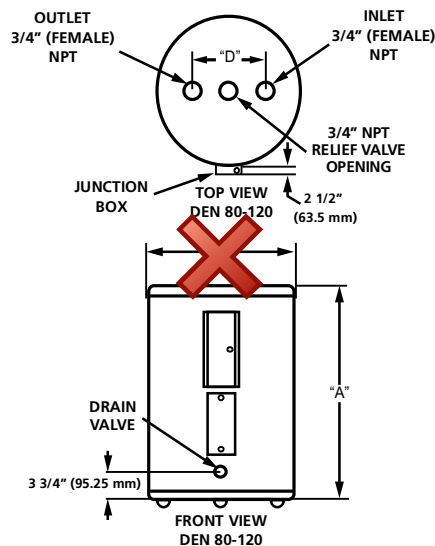
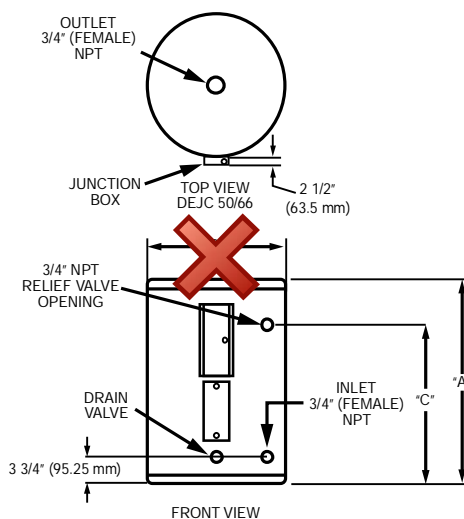
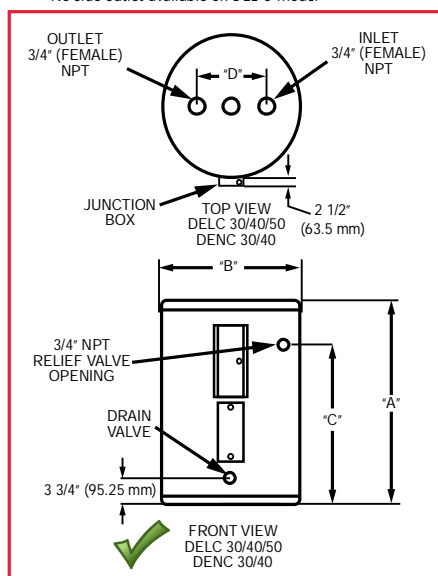


## ROUGH-IN DIMENSIONS

\*(NO SIDE OUTLET AVAILABLE FOR DEL-6 MODELS)

MODEL NUMBER	NO. OF ELEMENTS	TANK CAPACITY		STANDBY LOSS WATTS	A		B		C		D		SHIPPING WEIGHT	
		USG	L		IN	MM	IN	MM	IN	MM	IN	MM	LB	KG
DEL-6	1	6	23	N/A	15-1/2	394	14-1/4	362	11	279	N/A	N/A	35	16
DEL-10	1	10	37	N/A	18-1/4	464	18	457	12-1/2	318	N/A	N/A	54	25
DEL-15	1	13	49	49	26	660	18	457	20-1/2	521	N/A	N/A	58	26
DEL-20	1	19	74	54	22-1/4	565	21-3/4	552	15-3/8	391	N/A	N/A	73	33

\* No side outlet available on DEL-6 Model



## ROUGH-IN DIMENSIONS

MODEL NUMBER	NO. OF ELEMENTS	TANK CAPACITY		STANDBY LOSS WATTS	A		B		C		D		SHIPPING WEIGHT	
		USG	L		IN	MM	IN	MM	IN	MM	IN	MM	LB	KG
DELC-30	2	27	103	46	31-5/8	803	24	610	21-15/16	557	8	203	120	54
DELC-40	2	36	138	53	33-7/8	860	26	660	23-7/8	606	8	203	115	52
DELC-50	2	50	190	63	36	914	26-1/2	673	26-1/8	664	8	203	175	79
DENC-30	2	29	109	47	39-7/8	1013	22	559	30-7/16	773	8	203	100	45
DENC-40	2	38	145	54	49-7/8	1267	20-1/2	521	40-3/4	1035	8	203	103	47
DEJC-50	2	49	184	77	48-1/4	1226	22	559	40-5/16	1024	Side Inlets	-	127	58
DEJC-66	2	63	237	87	60-1/2	1537	22	559	52-3/4	1340	Side Inlets	-	150	68
DEN-80	2	75	284	86	59-3/8	1508	24	610	N/A	N/A	8	203	211	96
DEN-120	2	113	428	146	62-7/16	1586	29-3/8	746	N/A	N/A	8	203	326	148



# Commercial Electric Water Heaters

## ELEMENT AVAILABILITY CHART (LIGHT-DUTY COMMERCIAL ELECTRIC)

MODELS & ELEMENTS	VOLTAGE	WIRING	KW INPUT AVAILABLE									
6-GALLON MODELS SINGLE-ELEMENT	120V	-	1.5	2	2.5	3						
	208V	-	1.5	2	2.5	3						
	240V	-	1.5	2	2.5	3						
	277V	-	1.5	2	2.5	3						
	480V	-		2	2.5	3						
10-GALLON THROUGH 20-GALLON MODELS SINGLE-ELEMENT	120V	-	1.5	2	2.5	3						
	208V	-	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6
	240V	-	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6
	277V	-	1.5	2	2.5	3		4	4.5	5		6
	480V	-		2	2.5	3		4	4.5	5	5.5	6
30-GALLON THROUGH 120-GALLON MODELS DOUBLE-ELEMENT	120V	Interlock	1.5	2	2.5	3						
		Simultaneous	3	4	5	†						
	208V	Interlock	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6
		Simultaneous	3	4	5	6	7	8	9	10**	11**	†
	240V	Interlock	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6
		Simultaneous	3	4	5	6	7	8	9	10	11	12**
	277V	Interlock	1.5	2	2.5	3		4	4.5	5		6
		Simultaneous	3	4	5	6		8	9	10		12
	480V	Interlock		2	2.5	3		4	4.5	5	5.5	6
		Simultaneous		4	5	6		8	9	10	11	12

6 gallon model not available above 3kW

6/10/15/20 gallon models all A6 circuit (2 wire) only

† Exceeds maximum amp draw.

\*\* Simultaneous only in 3ph

## ELECTRIC CHARACTERISTICS

ELECTRIC CHARACTERISTICS													
NON SIMULTANEOUS AND SINGLE ELEMENT OPERATION 6 - 120 GALLON					SIMULTANEOUS DUAL ELEMENT OPERATION (SINGLE PHASE CONNECTION) 30 - 120 GALLON					SIMULTANEOUS DUAL ELEMENT OPERATION (UNBALANCED THREE PHASE CONNECTION) 30 - 120 GALLON			
ELEMENT WATTAGE	FULL LOAD CURRENT IN AMPERES (TERMINALS - L1, L2)				ELEMENT WATTAGE	FULL LOAD CURRENT IN AMPERES (TERMINALS - L1, L2)				ELEMENT WATTAGE	FULL LOAD CURRENT IN AMPERES (TERMINALS - L2 / TERMINAL L1 & L3)		
Upper/Lower	120V	208V	240V	480V	Upper/Lower	120V	208V	240V	480V	Upper/Lower	208V	240V	480V
1500	12.5	7.2	6.3	3.2	1500/1500	25.0	14.4	12.5	6.3	1500/1500	12.4/7.2	10.8/6.3	5.4/3.2
2000	16.7	9.6	8.3	4.2	2000/2000	33.4	19.2	16.6	8.3	2000/2000	16.6/9.6	14.4/8.3	7.2/4.2
2500	20.8	12.0	10.4	5.2	2500/2500	41.6	24	20.8	10.4	2500/2500	20.8/12.0	18.0/10.4	9.0/5.2
3000/3000	25.0	14.4	12.5	6.3	3000/3000	N/A	28.8	25	12.5	3000/3000	25.0/14.4	21.6/12.5	10.8/6.3
4000/4000	N/A	19.2	16.7	8.3	4000/4000	N/A	38.4	33.3	16.6	4000/4000	33.3/19.2	28.8/16.7	14.4/8.3
4500/4500	N/A	21.6	18.8	9.4	4500/4500	N/A	43.2	37.5	18.75	4500/4500	37.4/21.6	32.4/18.8	16.2/9.4
5000/5000	N/A	24.0	20.8	10.4	5000/5000	N/A	N/A	41.6	20.8	5000/5000	41.6/24.0	36.0/20.8	18.0/10.4
6000/6000	N/A	28.8	25.0	12.5	6000/6000	N/A	N/A	N/A	25	6000/6000	N/A	43.3/25.0	21.6/12.5



# Commercial Electric Water Heaters

## RECOVERY CAPACITIES

ELEMENT WATTAGE (UPPER/ LOWER)	INPUT	U. S. GALLONS/HR AND LITRES/HR AT TEMPERATURE RISE INDICATED											
		F°	36	40	54	60	72	80	90	100	108	120	126
	KW	C°	20	22.2	30	33.3	40	44.4	50	55.5	60	66.6	70
NON-SIMULTANEOUS OPERATION													
/1500	1.5	GPH	17	15	11	10	8	8	7	6	6	5	5
		LPH	64	58	43	38	32	29	26	23	21	19	18
/2000	2	GPH	23	20	15	14	11	10	9	8	8	7	6
		LPH	85	77	57	51	43	38	34	31	28	26	24
/2500	2.5	GPH	28	25	19	17	14	13	11	10	9	8	8
		LPH	107	96	71	64	53	48	43	38	36	32	30
3000/3000	3	GPH	34	30	23	20	17	15	14	12	11	10	10
		LPH	128	115	85	77	64	58	51	46	43	38	37
3500/3500	3.5	GPH	40	36	26	24	2	18	16	14	13	12	11
		LPH	151	136	98	90	75	68	60	52	49	45	41
4000/4000	4	GPH	45	41	30	27	23	20	18	16	15	14	13
		LPH	170	153	114	102	85	77	68	61	57	51	49
4500/4500	4.5	GPH	51	46	34	30	25	23	20	18	17	15	14
		LPH	192	173	128	115	96	86	77	69	64	58	55
5000/5000	5	GPH	56	51	38	34	28	25	23	20	19	17	16
		LPH	213	192	142	128	107	96	85	77	71	64	61
5500/5500	5.5	GPH	63	56	42	37	31	28	25	22	21	18	18
		LPH	238	211	158	140	117	105	94	83	79	68	68
6000/6000	6	GPH	68	61	45	41	34	30	27	24	23	20	19
		LPH	256	230	170	153	128	115	102	92	85	77	73
SIMULTANEOUS OPERATION													
3000/3000	6	GPH	68	61	45	41	34	30	27	24	23	20	19
		LPH	256	230	170	153	128	115	102	92	85	77	73
3500/3500	7	GPH	80	72	53	48	40	36	32	28	26	24	22
		LPH	302	272	200	181	151	136	121	105	98	90	83
4000/4000	8	GPH	90	81	60	54	45	41	36	32	30	27	26
		LPH	341	307	227	205	170	153	136	123	114	102	97
4500/4500	9	GPH	101	91	68	61	51	46	41	36	34	30	29
		LPH	384	345	256	230	192	173	153	138	128	115	110
5000/5000	10	GPH	113	101	75	68	56	51	45	41	38	34	32
		LPH	426	384	284	256	213	192	170	153	142	128	122
5500/5500	11	GPH	126	113	84	75	63	56	50	45	42	37	36
		LPH	476	427	317	283	238	211	189	170	158	140	136
6000/6000	12	GPH	135	122	90	81	68	61	54	49	45	41	39
		LPH	511	460	341	307	256	230	205	184	170	153	146

Recovery capacities at 100° F rise equal: for non-simultaneous element operation = 4.1 gal. x kW of one element; for simultaneous element operation = 4.1 gal. x 2/3 kW of both elements.  
For other rises multiply element kW as previously explained by 410 and divide by temperature rise. Full load current for single phase = total watts/voltage.

## SPECIFICATION

The water heaters(s) shall be Dura-Power™ Model(s) No. \_\_\_\_\_ as manufactured by A. O. SMITH or an approved equal. Heater(s) shall be rated at \_\_\_\_\_ kW, \_\_\_\_\_ volts, \_\_\_\_\_-phase, 60 cycle AC, and listed by Underwriters' Laboratories. Models shall meet the standby loss requirements of NRCan and current edition of ASHRAE/IES 90.1. Tank(s) shall be \_\_\_\_\_ gallon capacity. Heater(s) shall have 150 psi working pressure and be equipped with extruded high density anode rod. All internal surfaces of the heater(s) exposed to water shall be glasslined with an alkaline borosilicate composition that has been fused-to-steel by firing at a temperature range of 1400°F to 1600°F. Electric heating elements shall be medium watt density with zinc plated copper sheath. Each element shall be controlled by an individually mounted thermostat and high temperature cutoff switch. The outer jacket shall be of backed enamel finish and shall enclose the tank with foam insulation. Electrical junction box with heavy duty terminal block shall be provided (except on 120V & 277V (no junction box on DEL-6 thru 20)). The drain valve shall be located in the front for ease of servicing. Heater tank shall have a three year limited warranty as outlined in the written warranty. Fully illustrated instruction manual to be included.

For Technical Information call 888-599-2837. A. O. Smith Enterprises Ltd. reserves the right to make product changes or improvements without prior notice.



# Commercial Electric Water Heaters

TM

**Designed for use as a recovery heater having its own storage tank. Available in upright standard models (DEN) and lowboy models (DEL).**

**GLASS-LINED TANK** - Thirteen sizes; 6 thru 119 gallon capacity. Tank interior is coated with glass specially designed by A. O. Smith for water heater use.

**ELEMENTS** - Zinc plated copper sheaths for longer life. Medium watt density means lower surface temperature to minimize scale build-up and more surface to heat water. Element sizes from 1.5 to 6 KW. Maximum input 12 KW (see chart on back).

**STANDARD VOLTAGES** - 120, 277 single phase and 208, 240 and 480V unbalanced three-phase delta; easily converted to single-phase at terminal block (except 208V with 6000 watt elements). Single element heater, single-phase only.

**TERMINAL BLOCK** - Factory-installed. Just bring the service to heater and connect to block. Terminal block not supplied on 120V & 277 volt models.

**CONTROLS** - Temperature control (adjustable through range of 110° to 170°F on single element and 120° to 180°F on dual element) and manual reset high temperature cutoff per element (dual element models). Factory-wired for non-simultaneous operation; easily converted to simultaneous element operation (three phase models only).

**CSA CERTIFIED AND ASME RATED T&P RELIEF VALVE**

**SIMPLIFIED CIRCUITRY, COLOR CODED FOR EASE OF SERVICE**

**ANODE ROD FOR MAXIMUM CORROSION PROTECTION**

**CABINET HAS BONDORIZED UNDERCOAT WITH BAKED ENAMEL FINISH**

**TOP INLET AND OUTLET OPENINGS**

**DRAIN VALVE**

**UL APPROVED FIELD CONVERSION PROGRAM** - The 6 through 20 models are UL listed to UL 174 and the 30 through 120 models are listed to UL 1453.

**COMPLIANCE** - Meets or exceeds the standby loss Requirements of the U.S. Department of Energy and current edition of ASHRAE/IESNA 90.1.

**LIMITED WARRANTY OUTLINE** - If the tank should leak any time during the first three years, under the terms of the warranty, A. O. Smith will furnish a replacement heater; installation, labor, handling and local delivery extra. THIS OUTLINE IS NOT A WARRANTY. For complete information consult the written warranty or A. O. Smith Water Products Company.

**ELEMENT AVAILABILITY CHART**

Input	120V	208V	240V	277V	480V
1,500	YES	YES	YES	YES	—
2,000	YES	YES	YES	YES	YES
2,500	YES	YES	YES	YES	YES
3,000	YES	YES	YES	YES	YES
3,500	—	—	YES	—	—
4,000	—	YES	YES	YES	YES
4,500	—	YES	YES	YES	YES
5,000	—	YES*	YES*	YES*	YES*
5,500	—	—	YES*	—	—
6,000	—	YES**	YES	YES	YES

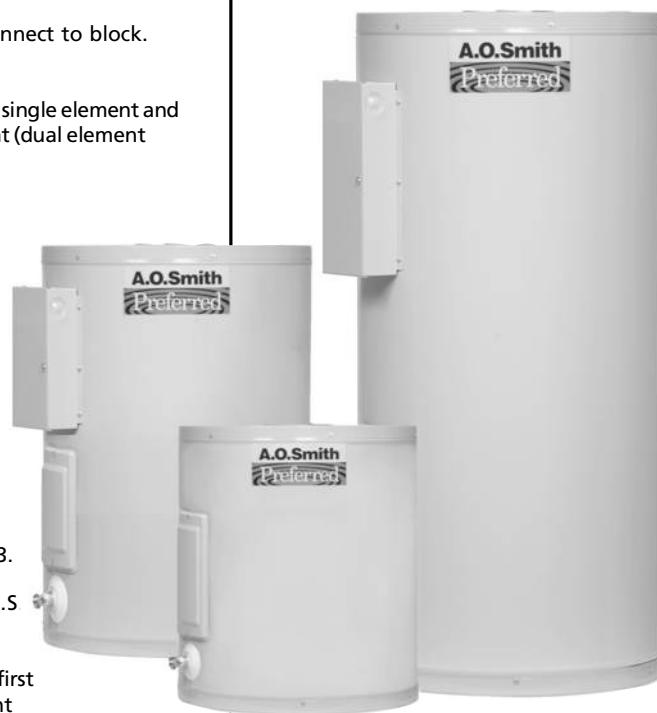
NOTE: DEL-6 not available in above 2.5 KW.

DEL-6 not available in 480V.

\* Not available in DEL-10, DEL-15 and DEN-30.

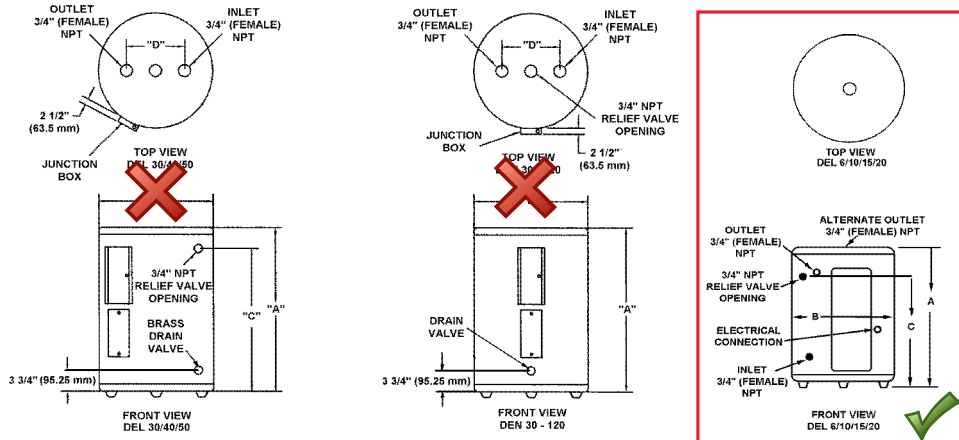
\*\* A6 non-simultaneous circuit only.

## DEN/DEL MODELS



TM

## PRODUCT SPECIFICATIONS



### ROUGH-IN DIMENSIONS

Models	No. of Elements	Tank Capacity	inches	mm	inches	mm	inches	mm	inches	mm	Shipping Weight
Dimensions		US Gals.	Litres								Lbs. Kg.
DEL-6	1	6	23	15 1/2	394	14 1/4	362	11	279	-	35 15.9
DEL-10	1	10	38	18 1/4	464	18	457	12 1/2	318	-	54 24.5
DEL-15	1	15	57	26	660	18	457	20 1/2	521	-	58 26.3
DEL-20	1	20	76	22 1/4	565	21 3/4	552	15 3/8	391	-	73 33.1
DEL-30	2	30	114	30 7/8	784	21 3/4	552	24 1/8	613	8	100 45.4
DEL-40	2	40	151	32 1/4	819	24	610	25 9/16	649	8	125 56.7
DEL-50	2	50	189	32 1/4	819	26 1/2	673	25 1/8	638	8	166 75.3
DEN-30	2	30	114	34 1/2	876	20 1/2	521	-	-	8	98 44.5
DEN-40	2	40	151	45 1/8	1146	20 1/2	521	-	-	8	113 51.3
DEN-52	2	50	189	54 7/8	1394	20 1/2	521	-	-	8	203 91.4
DEN-66	2	66	250	60 3/4	1543	21 3/4	552	-	-	8	203 91.4
DEN-80	2	80	303	59 3/8	1508	24	610	-	-	8	203 91.4
DEN-120	2	119	450	62 7/16	1586	29 3/8	746	-	-	8	203 91.4

### RECOVERY CAPACITIES

Element Wattage (Upper/Lower)	INPUT KW	F° C°	36F° 20C°	40F° 22.2C°	54F° 30C°	60F° 33.3C°	72F° 40C°	80F° 44.4C°	90F° 50C°	100F° 55.5C°	108F° 60C°	120F° 66.6C°	126F° 70C°
NON-SIMULTANEOUS OPERATION													
/1500	1.5	GPH	17	15	11	10	8	8	7	6	6	5	5
		LPH	64	58	43	38	32	29	26	23	21	19	18
/2000	2.0	GPH	23	20	15	14	11	10	9	8	8	7	6
		LPH	85	77	57	51	43	38	34	31	28	26	24
/2500	2.5	GPH	28	25	19	17	14	13	11	10	9	8	8
		LPH	107	96	71	64	53	48	43	38	36	32	30
3000/3000	3.0	GPH	34	30	23	20	17	15	14	12	11	10	10
		LPH	128	115	85	77	64	58	51	46	43	38	37
4000/4000	4.0	GPH	45	41	30	27	23	20	18	16	15	14	13
		LPH	170	153	114	102	85	77	68	61	57	51	49
4500/4500	4.5	GPH	51	46	34	30	25	23	20	18	17	15	14
		LPH	192	173	128	115	96	86	77	69	64	58	55
5000/5000	5.0	GPH	56	51	38	34	28	25	23	20	19	17	16
		LPH	213	192	142	128	107	96	85	77	71	64	61
6000/6000	6.0	GPH	68	61	45	41	34	30	27	24	23	20	19
		LPH	256	230	170	153	128	115	102	92	85	77	73
SIMULTANEOUS OPERATION													
3000/3000	6	GPH	68	61	45	41	34	30	27	24	23	20	19
		LPH	256	230	170	153	128	115	102	92	85	77	73
4000/4000	8	GPH	90	81	60	54	45	41	36	32	30	27	26
		LPH	341	307	227	205	170	153	136	123	114	102	97
4500/4500	9	GPH	101	91	68	61	51	46	41	36	34	30	29
		LPH	384	345	256	230	192	173	153	138	128	115	110
5000/5000	10	GPH	113	101	75	68	56	51	45	41	38	34	32
		LPH	426	384	284	256	213	192	170	153	142	128	122
6000/6000	12	GPH	135	122	90	81	68	61	54	49	45	41	39
		LPH	511	460	341	307	256	230	205	184	170	153	146

Recovery capacities at 100° F rise equal: for non-simultaneous element operation = 4.1 gal. x KW of one element; for simultaneous element operation = 4.1 gal. x 2/3 KW of both elements. For other rises multiply element KW as previously explained by 410 and divide by temperature rise. Full load current for single phase = total watts ÷ voltage.

## SUGGESTED SPECS

The water heater(s) shall be Dura-Power Model(s) No. \_\_\_\_\_ as manufactured by A. O. SMITH or an approved equal. Heater(s) shall be rated at \_\_\_\_\_ KW, \_\_\_\_\_ volts, \_\_\_\_\_ phase, 60 cycle AC, and listed by Underwriters' Laboratories. Models shall meet or exceed the standby loss requirements of the U.S. Department of energy and current edition of ASHRAE/IESNA 90.1. Tank(s) shall be \_\_\_\_\_ gallon capacity. Heater(s) shall have 150 psi working pressure and be equipped with extruded high density anode rod. All steel by firing at a temperature range of 1600°F. Electric heating elements shall be medium watt density with zinc plated copper sheath. Each element shall be controlled by an individually mounted thermostat and high temperature cutoff switch. The outer jacket shall be of backed enamel finish and shall be provided with full size control compartment for performance of service and maintenance through hinged front panels and shall enclose the tank with foam insulation. Electrical junction box with heavy duty terminal block shall be provided (except on 120V & 277V (no junction box on DEL-6 thru 20)). The drain valve shall be located in the front for ease of servicing. Heater tank shall have a three year limited warranty as outlined in the written warranty. Fully illustrated instruction manual to be included.



BARRIER FREE

# MADERA™ FloWise® 16-1/2" HEIGHT ELONGATED FLUSHOMETER TOILET

VITREOUS CHINA with EVERCLEAN®

## MADERA™ FloWise® 16-1/2" 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
- 16-1/2" rim height for accessible application
- 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

- ☒ **3461.001** Elongated bowl only, top spud
- ☐ **3462.001** Elongated bowl only, top spud with slotted rim for bedpan holding (White only)
- ☐ **3465.001** Elongated bowl only, top spud with 4 bolts (White Only)
- ☐ **3466.001** Elongated bowl only, top spud with slotted rim for bedpan holding with 4 bolts (White only)
- ☐ **3463.001** Elongated bowl only, back spud
- ☐ **3464.001** 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 419mm  
(28-1/4" x 14" x 16-1/2")

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



SEE REVERSE FOR ROUGHING-IN DIMENSIONS

### 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)



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

EVERCLEAN®  
Surface

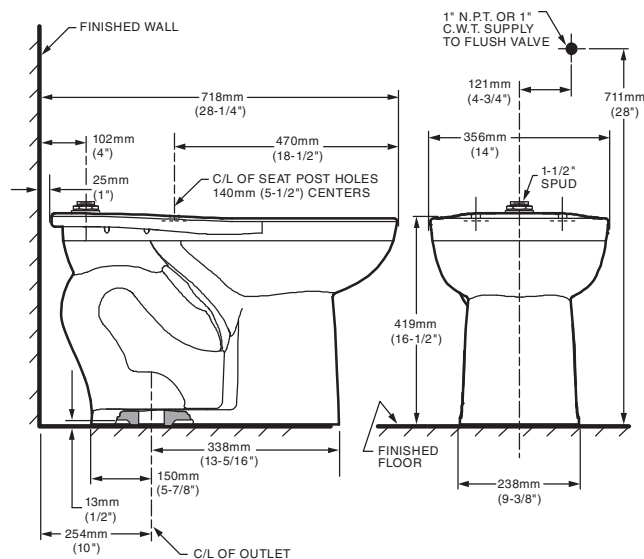




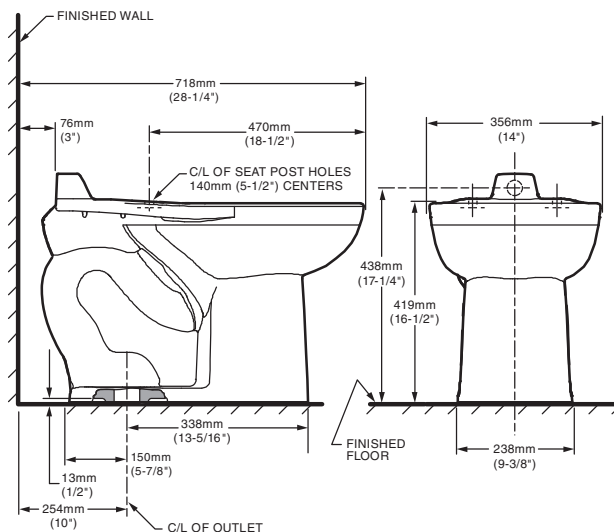
# MADERA™ FloWise® 16-1/2" HEIGHT ELONGATED FLUSHOMETER TOILET

VITREOUS CHINA with EVERCLEAN®

✓ 3461.001/3462.001/3465.001/3466.001



✗ 3463.001/3464.001



## NOTES:

PRODUCT 3461 AND 3463 SHOWN, 3462 AND 3464 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.

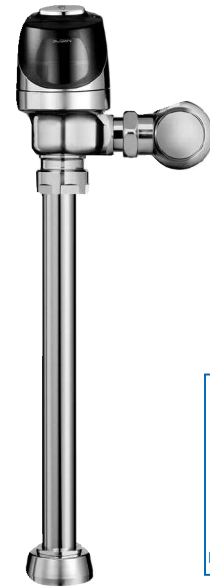
**IMPORTANT:** Dimensions of fixtures are nominal and may vary within the range of tolerances established by ANSI Standard A112.19.2. These measurements are subject to change or cancellation. No responsibility is assumed for use of superseded or voided pages.



# 8115-1.28

# HET

HIGH-EFFICIENCY TOILET



### ► Description

Exposed, Battery Powered, Sensor Operated G2® Model Water Closet Flushometer for floor mounted or wall hung top spud bowls.

### ► Flush Cycle

Model 8115-1.28 High Efficiency (1.28 gpf/4.8 Lpf)

**Note:** Valve may not function with all bowls. Be sure to verify flow requirements with bowl manufacturer or call Sloan Valve Company.

### ► Specifications

Quiet, Exposed, Diaphragm Type, Chrome Plated Closet Flushometer for either left or right hand supply with the following features:

- PERMEX® Synthetic Rubber Diaphragm with Dual Filtered Fixed Bypass
- Flex Tube Diaphragm designed for improved life and reduced maintenance
- ADA Compliant OPTIMA *Plus*® Battery Powered Infrared Sensor for automatic "No Hands" operation
- Infrared Sensor with Multiple-focused, Lobular Sensing Fields for high and low target detection
- 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
- Infrared Sensor Range Adjustment Screw
- 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 Set Screw Wall Flange
- 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
- 100% of the energy used in manufacturing is offset with Renewable Energy Sources – Wind Energy

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 and ANSI/ASME A112.19.2. Installation conforms to ADA requirements.

### ► Special Finishes

- ☐ **PB** Polished Brass (PVD Finish)
- ☐ **BN** Brushed Nickel (PVD Finish)
- ☐ **SF** Satin Chrome



### ► ADA Compliant

### ► Automatic

Sloan G2 Optima *Plus*® Flushometers activate via multi-lobular sensor detection to provide the ultimate in sanitary protection and automatic operation. A battery powered infrared sensor sets the flushing mechanism after the user is detected and completes the flush when the user steps away.

### ► Functional & Hygienic

Touchless, sensor operation eliminates the need for user contact to help control the spread of infectious diseases. The G2 Optima *Plus* Flushometer is provided with an Override Button to allow a "courtesy flush" for individual user comfort.

### ► Economical

Sloan installed batteries speed installation and provide years of metered flushing to control the use of water and energy. Batteries can be changed without turning off the water.

### ► Warranty

3 year (limited)



Listed by I.A.P.M.O.

This space for Architect/Engineer approval

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

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

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

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

Contractor \_\_\_\_\_

Architect \_\_\_\_\_

## Model

8115-1.28



## ► Description

Exposed, Battery Powered, Sensor Operated G2® Model Water Closet  
Flushometer for floor mounted or wall hung top spud bowls.

## ► Flush Cycle

Model 8115-1.28 High Efficiency (1.28 gpf/4.8 Lpf)

Note: Valve may not function with all bowls. Be sure to verify flow requirements with bowl manufacturer or call Sloan Valve Company.

## ELECTRICAL SPECIFICATIONS

## ► Control Circuit

Solid State  
6 VDC Input  
8 Second Arming Delay  
3 Second Flush Delay

## ► OPTIMA Sensor Type

Active Infrared

## ► OPTIMA Sensor Range

Nominal 22" - 42" (559 mm - 1067 mm),  
Adjustable  $\pm 8"$  (203 mm)

## ► Battery Type

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

## ► Battery Life

3 Years @ 4,000 Flushes/Month

## ► Indicator Lights

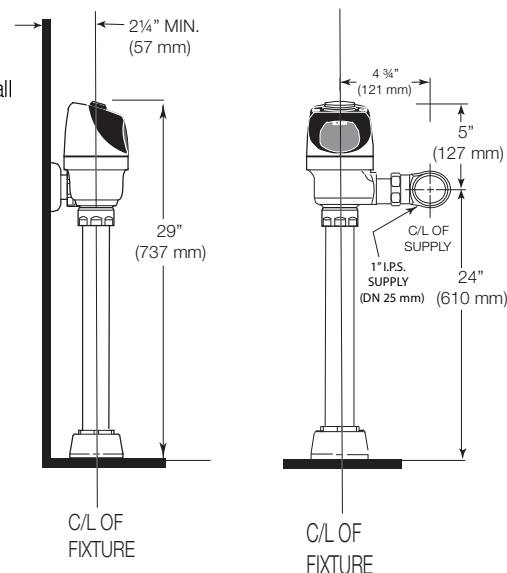
Range Adjustment/Low Battery

## ► Operating Pressure

15 - 100 psi (104 - 689 kPa)

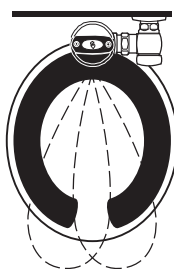
## ► Sentinel Flush

Once Every 24 Hours After the Last Flush

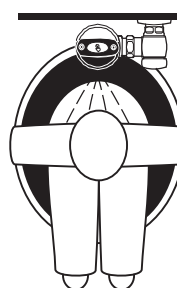


## OPERATION

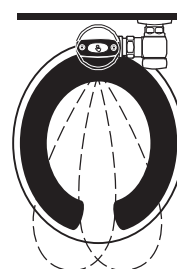
1. A continuous, invisible light beam is emitted from the OPTIMA Plus Sensor.



2. As the user enters the beam's effective range (22" to 42") the beam is reflected into the OPTIMA Plus Scanner Window and transformed into a low voltage electrical 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.

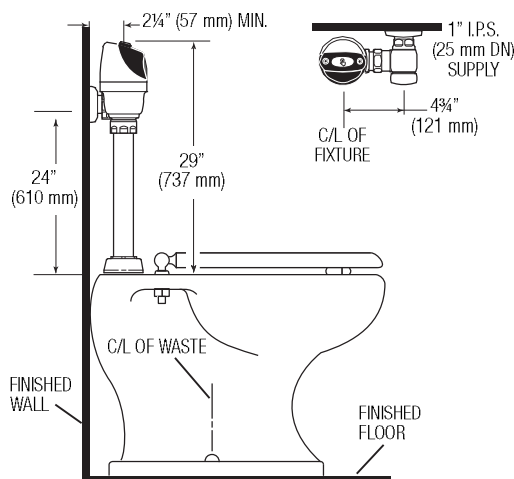


3. When the user steps away from the OPTIMA Plus Sensor, the circuit waits 3 seconds (to prevent false flushing) then initiates an electrical signal that operates the Solenoid. This initiates the flushing cycle to flush the fixture. The Circuit then automatically resets and is ready for the next user.



## VALVE ROUGH-IN

Model 8115-1.28



The Model 8115 valve is designed for installations where the water supply is roughed-in 24" (610 mm) above the top of the water closet.

For new installations, Sloan strongly recommends the use of our Model 8111 which has a shorter installation height.

When installing the G2 Optima Plus 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: 1-800-982-5839 or 1-847-671-4300 • Fax: 1-800-447-8329 or 1-847-671-4380 • www.sloanvalve.com



# Solid Plastic Seats Elongated

Institutional • Commercial • Hotel/Motel • Residential

## 800 SERIES



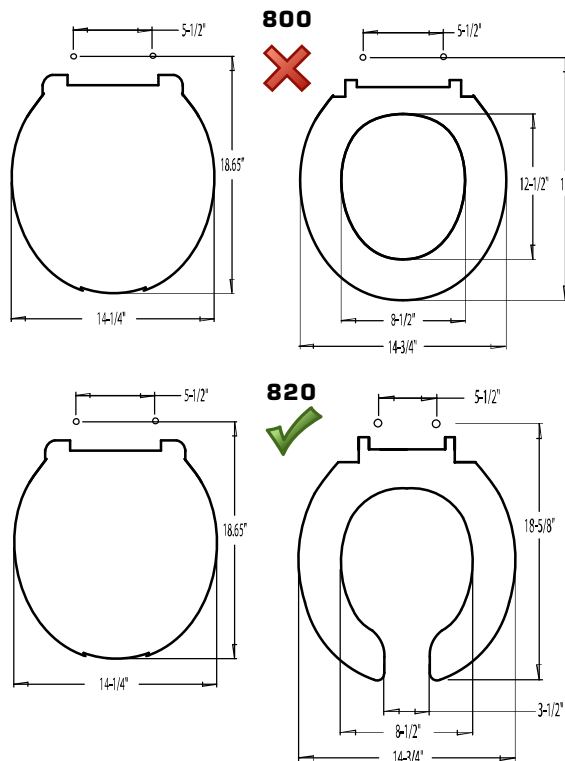
Available in Antimicrobial.  
Available in Fire-Retardant.



## 820 SERIES



Available in Antimicrobial.  
Available in Fire-Retardant.



## DETAILS

### 800TM

Luxury closed front with cover for elongated bowl. Top-mount hinge. For residential and light-duty commercial use.

### 800STS

Extra heavy-duty, closed front with cover for elongated bowl. Stainless steel hinge.

### 800STSS

Extra heavy-duty, closed front with cover for elongated bowl. Stainless steel self-sustaining ring.

### 820TM

Light-duty commercial, open front with cover for elongated bowl. Top-mount hinge. For light-duty commercial use.

### 820STS

Extra heavy-duty, open front with cover for elongated bowl. Stainless steel hinge.

### 820STSS

Extra heavy-duty, open front with cover for elongated bowl. Self-sustaining, stainless steel hinge.

### Standard Features:

- Impact-absorbing hinges
- Extended back with concealed hinge
- Integrally-molded, permanent and sanitary color-keyed bumpers
- Corrosion-free hardware
- Withstands cleansers, strong chemicals

Color	Code #	800 TM	800 STS	800 STSS	820 TM	820 STS	820 STSS
White	001	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Cotton/ Crane White	301	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Linen/ Biscuit	416	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Black	407	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Bone/ Almond	106-A	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Canada ☒ U.S. ☐



## 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

- ☒ **3451001** Elongated bowl only, top spud
- ☐ **3452001** Elongated bowl only, top spud with slotted rim for bedpan holding
- ☐ **3453001** Elongated bowl only, back spud
- ☐ **3455001** Elongated bowl only, back spud with slotted rim for bedpan holding

#### 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 / CSA B45.1 for Vitreous China Fixtures



SEE REVERSE FOR ROUGHING-IN DIMENSIONS

#### To Be Specified:

- ☒ Color: ☒ White
- ☐ 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)



ENVIRONMENTAL  
PRODUCT  
DECLARATION



When used with  
1.1 or 1.28 gpf  
toilet flush valves



EVERCLEAN

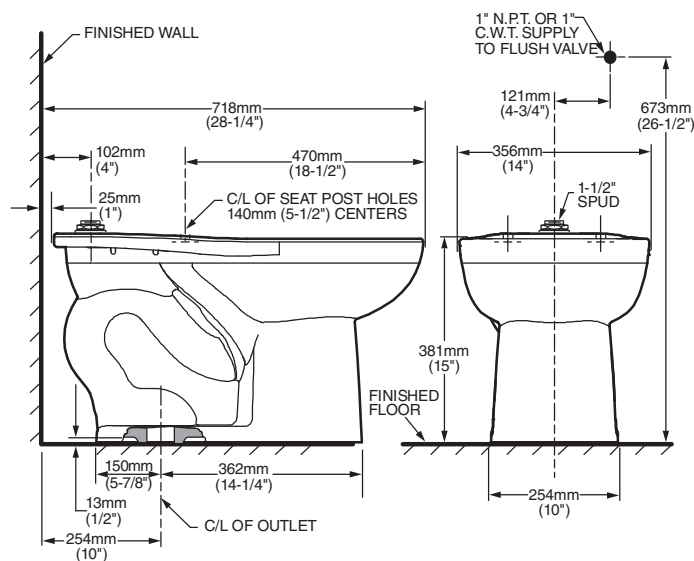


WATER  
EFFICIENT

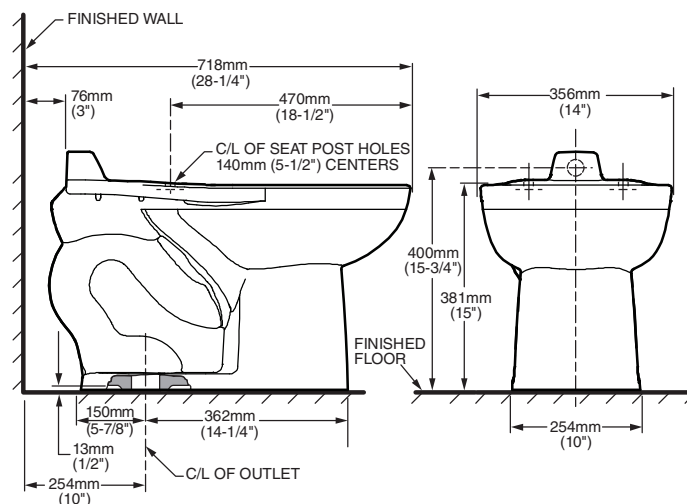
# Madera™ FloWise® 15" Height Elongated Flushometer Toilet

VITREOUS CHINA with EVERCLEAN®

## 3451001 / 3452001



## 3453001 / 3455001



### NOTES:

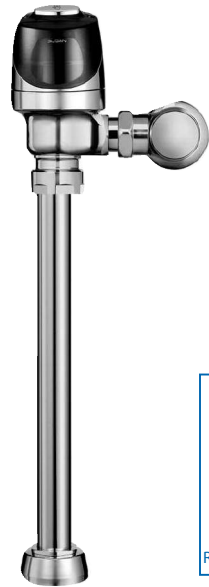
PRODUCT 3451 AND 3453 SHOWN, 3452 AND 3455 SAME EXCEPT WITH SLOTTED RIM FOR BED PAN HOLDING.  
TO COMPLY WITH AREA CODE GOVERNING THE HEIGHT OF VACUUM BREAKER ON THE FLUSHOMETER VALVE, THE PLUMBER MUST VERIFY DIMENSIONS SHOWN FOR SUPPLY ROUGHING.  
THIS TOILET DESIGNED TO ROUGH-IN AT A MINIMUM DIMENSION 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.

# 8115-1.28

# HET

HIGH-EFFICIENCY TOILET



#### ► Description

Exposed, Battery Powered, Sensor Operated G2® Model Water Closet Flushometer for floor mounted or wall hung top spud bowls.

#### ► Flush Cycle

Model 8115-1.28 High Efficiency (1.28 gpf/4.8 Lpf)

Note: Valve may not function with all bowls. Be sure to verify flow requirements with bowl manufacturer or call Sloan Valve Company.

#### ► Specifications

Quiet, Exposed, Diaphragm Type, Chrome Plated Closet Flushometer for either left or right hand supply with the following features:

- PERMEX® Synthetic Rubber Diaphragm with Dual Filtered Fixed Bypass
- Flex Tube Diaphragm designed for improved life and reduced maintenance
- ADA Compliant OPTIMA *Plus*® Battery Powered Infrared Sensor for automatic "No Hands" operation
- Infrared Sensor with Multiple-focused, Lobular Sensing Fields for high and low target detection
- 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
- Infrared Sensor Range Adjustment Screw
- 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 Set Screw Wall Flange
- 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
- 100% of the energy used in manufacturing is offset with Renewable Energy Sources – Wind Energy

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 and ANSI/ASME A112.19.2. Installation conforms to ADA requirements.

#### ► Special Finishes

- ☐ **PB** Polished Brass (PVD Finish)
- ☐ **BN** Brushed Nickel (PVD Finish)
- ☐ **SF** Satin Chrome



#### ► ADA Compliant

#### ► Automatic

Sloan G2 Optima *Plus*® Flushometers activate via multi-lobular sensor detection to provide the ultimate in sanitary protection and automatic operation. A battery powered infrared sensor sets the flushing mechanism after the user is detected and completes the flush when the user steps away.

#### ► Functional & Hygienic

Touchless, sensor operation eliminates the need for user contact to help control the spread of infectious diseases. The G2 Optima *Plus* Flushometer is provided with an Override Button to allow a "courtesy flush" for individual user comfort.

#### ► Economical

Sloan installed batteries speed installation and provide years of metered flushing to control the use of water and energy. Batteries can be changed without turning off the water.

#### ► Warranty

3 year (limited)



Listed by I.A.P.M.O.

This space for Architect/Engineer approval

Job Name _____	Date _____
Model Specified _____	Quantity _____
Variations Specified _____	
Customer/Wholesaler _____	
Contractor _____	
Architect _____	



## Model

8115-1.28



## ► Description

Exposed, Battery Powered, Sensor Operated G2® Model Water Closet  
Flushometer for floor mounted or wall hung top spud bowls.

## ► Flush Cycle

Model 8115-1.28 High Efficiency (1.28 gpf/4.8 Lpf)

Note: Valve may not function with all bowls. Be sure to verify flow requirements with bowl manufacturer or call Sloan Valve Company.

## ELECTRICAL SPECIFICATIONS

## ► Control Circuit

Solid State  
6 VDC Input  
8 Second Arming Delay  
3 Second Flush Delay

## ► OPTIMA Sensor Type

Active Infrared

## ► OPTIMA Sensor Range

Nominal 22" - 42" (559 mm - 1067 mm),  
Adjustable  $\pm 8"$  (203 mm)

## ► Battery Type

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

## ► Battery Life

3 Years @ 4,000 Flushes/Month

## ► Indicator Lights

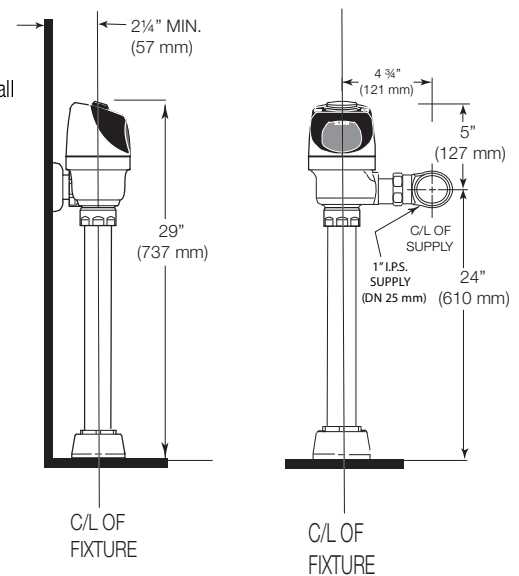
Range Adjustment/Low Battery

## ► Operating Pressure

15 - 100 psi (104 - 689 kPa)

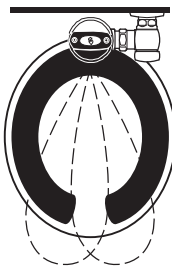
## ► Sentinel Flush

Once Every 24 Hours After the Last Flush

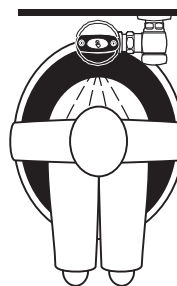


## OPERATION

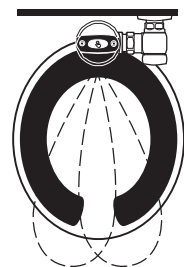
1. A continuous, invisible light beam is emitted from the OPTIMA Plus Sensor.



2. As the user enters the beam's effective range (22" to 42") the beam is reflected into the OPTIMA Plus Scanner Window and transformed into a low voltage electrical 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.

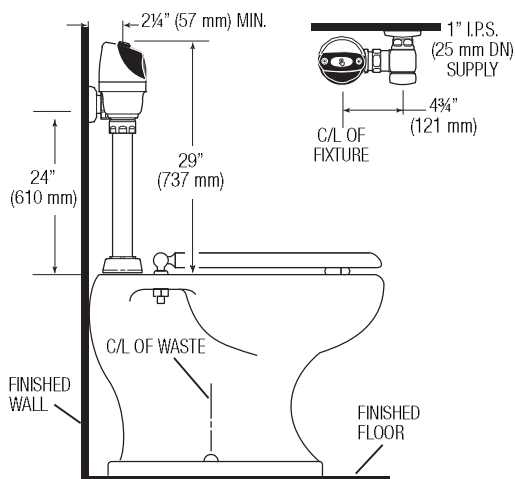


3. When the user steps away from the OPTIMA Plus Sensor, the circuit waits 3 seconds (to prevent false flushing) then initiates an electrical signal that operates the Solenoid. This initiates the flushing cycle to flush the fixture. The Circuit then automatically resets and is ready for the next user.



## VALVE ROUGH-IN

Model 8115-1.28



The Model 8115 valve is designed for installations where the water supply is roughed-in 24" (610 mm) above the top of the water closet.

For new installations, Sloan strongly recommends the use of our Model 8111 which has a shorter installation height.

When installing the G2 Optima Plus 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: 1-800-982-5839 or 1-847-671-4300 • Fax: 1-800-447-8329 or 1-847-671-4380 • www.sloanvalve.com





# Solid Plastic Seats Elongated

Institutional • Commercial • Hotel/Motel • Residential

## 800 SERIES



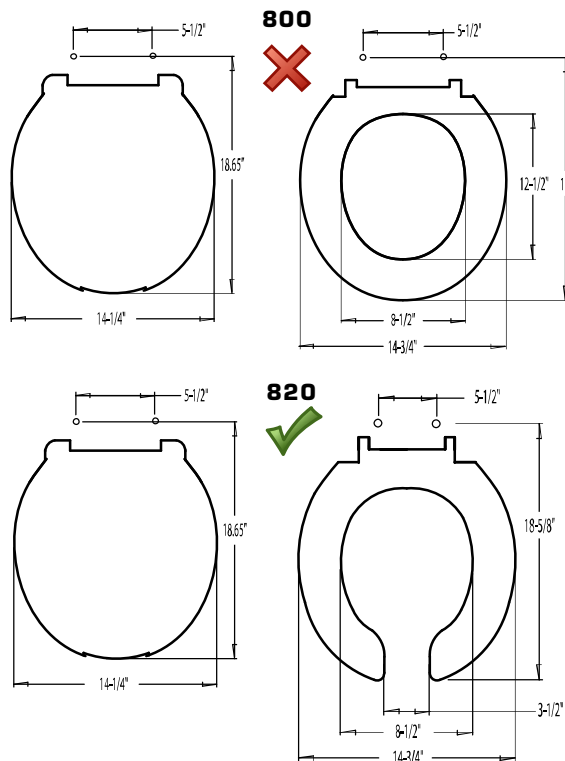
Available in Antimicrobial.  
Available in Fire-Retardant.



## 820 SERIES



Available in Antimicrobial.  
Available in Fire-Retardant.



## DETAILS

### 800TM

Luxury closed front with cover for elongated bowl. Top-mount hinge. For residential and light-duty commercial use.

### 800STS

Extra heavy-duty, closed front with cover for elongated bowl. Stainless steel hinge.

### 800STSS

Extra heavy-duty, closed front with cover for elongated bowl. Stainless steel self-sustaining ring.

### 820TM

Light-duty commercial, open front with cover for elongated bowl. Top-mount hinge. For light-duty commercial use.

### 820STS

Extra heavy-duty, open front with cover for elongated bowl. Stainless steel hinge.

### 820STSS

Extra heavy-duty, open front with cover for elongated bowl. Self-sustaining, stainless steel hinge.



### Standard Features:

- Impact-absorbing hinges
- Extended back with concealed hinge
- Integrally-molded, permanent and sanitary color-keyed bumpers
- Corrosion-free hardware
- Withstands cleansers, strong chemicals

Color	Code #	800 TM	800 STS	800 STSS	820 TM	820 STS	820 STSS
White	001	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Cotton/							
Crane White	301	<input type="checkbox"/>	<input type="checkbox"/>			<input checked="" type="checkbox"/>	
Linen/							
Biscuit	416	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	
Black	407	<input type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	
Bone/							
Almond	106-A	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Canada ● U.S. □



# WHEELCHAIR USERS LAVATORY

VITREOUS CHINA

## WHEELCHAIR USERS LAVATORY

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

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

- ☐ **9141.011** Faucet holes on 102mm (4") centers (Illustrated)
- ☐ **9141.911** (Modification SKU) Faucet holes on 102mm (4") centers
  - Less overflow

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

- ☐ **9140.013** Faucet holes on 267mm (10-1/2") centers
- ☐ **9140.021** (Modification SKU) Faucet holes on 267mm (10-1/2") centers
  - Extra right-hand hole

### Faucet Holes center hole only

- ☒ **9140.047** Center hole only

### Nominal Dimensions:

508 x 686mm  
(20" x 27")

### Bowl Sizes:

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

### Compliance Certifications -

#### Meets or Exceeds the Following Specifications:

- ASME A112.19.2 for Vitreous China Fixtures



SEE REVERSE FOR ROUGHING-IN DIMENSIONS

#### To Be Specified:

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

\* See faucet section for additional models available

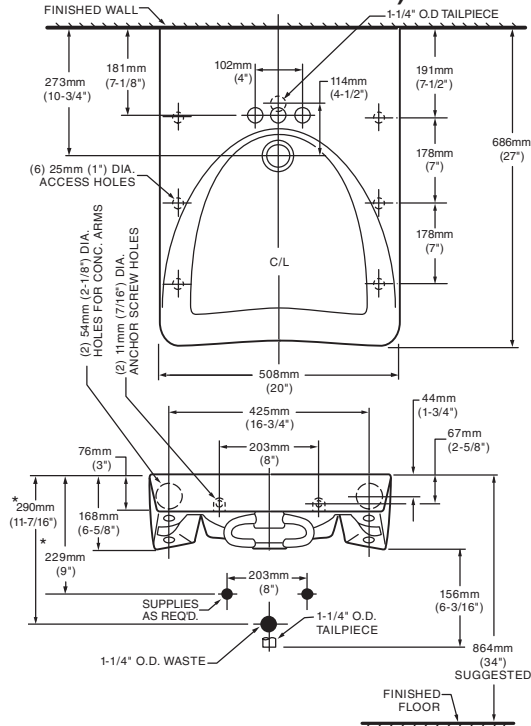


MEETS THE AMERICANS WITH DISABILITIES ACT GUIDE-  
LINES AND ANSI A117.1 ACCESSIBLE AND USABLE  
BUILDINGS AND FACILITIES - CHECK LOCAL CODES.  
Top of front rim mounted 864mm (34") from finished floor.

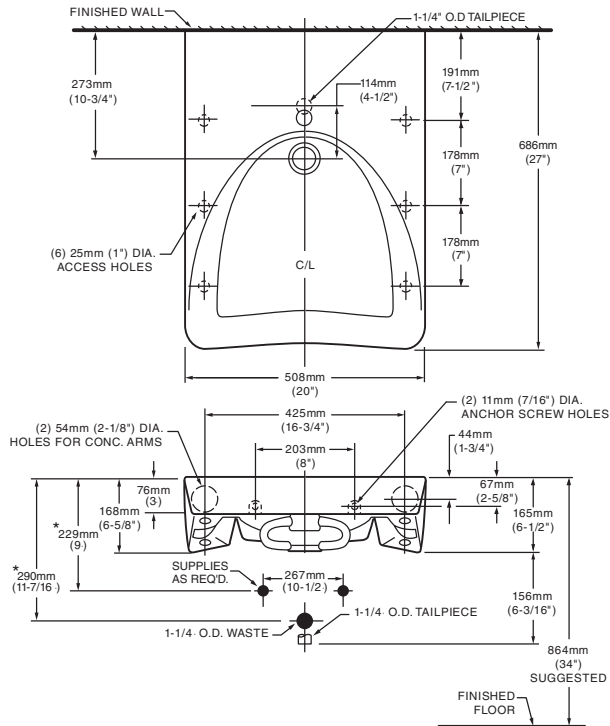


# WHEELCHAIR USERS LAVATORY VITREOUS CHINA

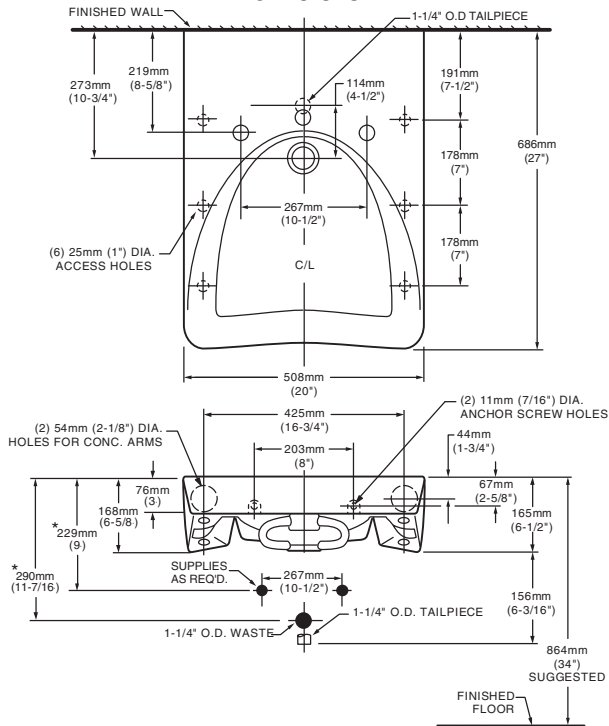
## 9141.011 AND 9141.911 (MODIFICATION LESS OVERFLOW)



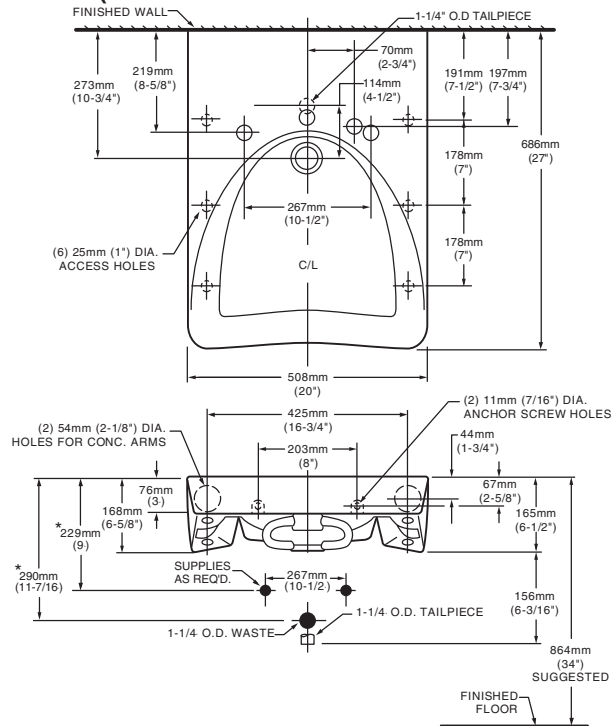
## 9140.047



## 9140.013



## 9140.021 (MODIFICATION EXTRA RIGHT HAND HOLE)



### NOTES:

\* DIMENSIONS SHOWN FOR LOCATION OF SUPPLIES AND "P" TRAP ARE SUGGESTED. CONCEALED ARM SUPPORT AS REQUIRED TO BE FURNISHED BY OTHERS. FITTINGS NOT INCLUDED AND MUST BE ORDERED SEPARATELY. PROVIDE SUITABLE REINFORCEMENT FOR ALL WALL SUPPORTS.

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



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.



**SLOAN® SENSOR FAUCET**  
**SF-2450-4-BAT-TEE-CP-0.5GPM-MLM-FCT**  
 (General Model Name: SF2450-4 CP FCT PEDESTAL 4" BATTERY)

### CODE NUMBER

3362124

### DESCRIPTION

4" Trim Plate, Battery Power Supply, Back-Check Tee, Polished Chrome Finish, 0.5 gpm, Multi-Laminar Spray, Infrared Sensor, Sloan® Battery-Powered Deck-Mounted Mid Body Faucet.

### DETAILS

- Flow Rate: 0.5 gpm (1.9 Lpm) (0.5GPM)
- Spray Type: Multi-Laminar (MLM)
- Spout Type: Pedestal
- Sensor Type: Infrared
- Mounting Type: Single Hole
- Trim Plate: 4" (102mm) (4)
- Power Supply: Battery (BAT)
- Temperature Mixer: Back-Check Tee (TEE)
- Finish: Polished Chrome (CP)
- Factory Default Timeout: 30 seconds
- Factory Default Gallons per Cycle: 0.25

### FEATURES

Commercial Grade, ADA Compliant, Electronic, Sensor-Activated, Brass Pedestal Hand Washing Faucet with the following features:

- Adjustable Infrared Sensor Range
- 36" (914 mm) Long Sensor Cable
- 24" (610 mm) Long Flex Hose
- Filtered Solenoid Valve with serviceable Strainer Filter
- Includes Four (4) AA-size Batteries
- Includes appropriate Mounting Hardware

### ELECTRICAL SPECIFICATIONS

- Battery Life: 2 years 8,000 cycles/month
- Timeout Adjustment Settings: 30s

### VIDEOS

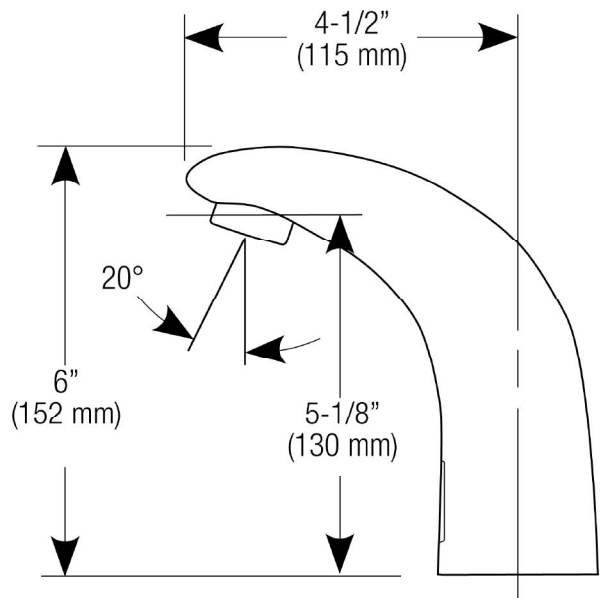
- ▶ SF-2100/2150/SF-2200/2250/SF-2300/2350/SF-2400/2450 Parts Breakdown
- ▶ SF-2100/2150/SF-2200/2250/SF-2300/2350/SF-2400/2450 Module Replacement
- ▶ SF-2100/2150/SF-2200/2250/SF-2300/2350/SF-2400/2450 Battery Replacement- Sensor Range Adjustment

### DOWNLOADS

- SF Series Installation Instructions
- SF Series (FR) Installation Instructions
- SF Series (SP) Installation Instructions
- SFP 35-A Installation Instructions
- Trim Plate Guide
- SF-2400/2450 Repair and Maintenance Guide
- Faucet Spray Heads Repair and Maintenance Guide
- Additional Downloads



Variation not shown: 4" Trim Plate



### COMPLIANCES & CERTIFICATIONS



(ADA Compliant, ASME A112.18.1 Compliant, CalGreen Compliant, CEC Compliant, cUPC Certified, cUPC Low Lead Compliant, GPC 0.25 or less, IAPMO, NSF-61, NYC604.4, Proposition 65, TAS, UPC Certified, UPC Low Lead Compliant, WaterSense Listed, WELL Building Standard)

### NOTES

All information contained within this document subject to

Sloan 10500 Seymour Ave, Franklin Park, IL 60131  
 Phone: 800.982.5839 • Fax: 800.447.8329 • sloan.com



**SLOAN® SENSOR FAUCET**  
**SF-2450-4-BAT-TEE-CP-0.5GPM-MLM-FCT**  
(General Model Name: SF2450-4 CP FCT PEDESTAL 4" BATTERY)

change without notice.

Looking for other variations of the SF-2450 product? View the general spec sheet with all options.

Find a matching soap dispenser for this faucet.

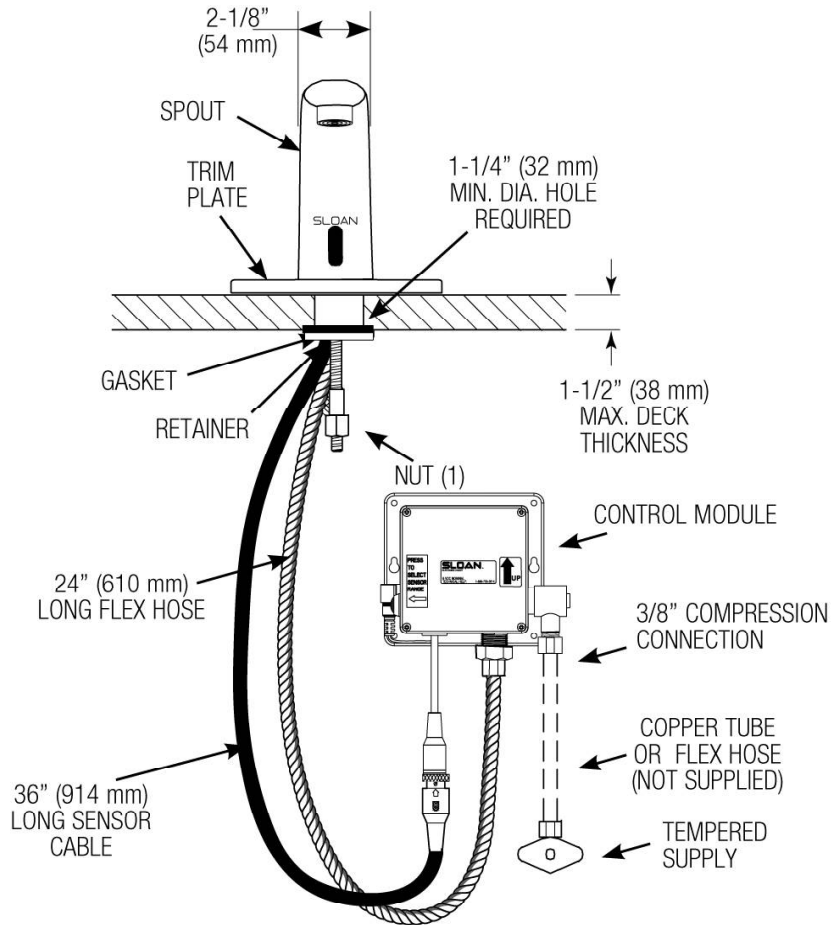
Find a compatible sink for this faucet.

**WARRANTY**

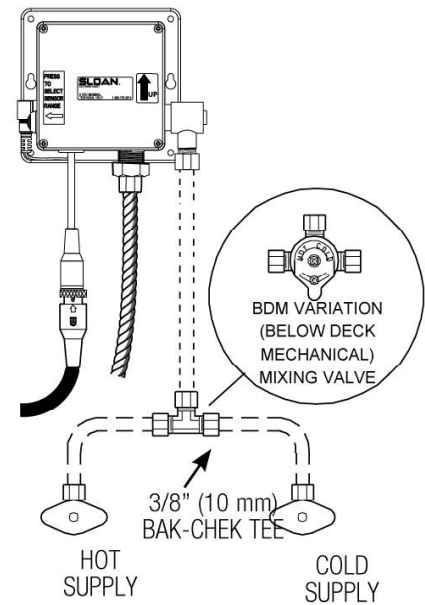
[View Warranty Information](#)

**Sloan 10500 Seymour Ave, Franklin Park, IL 60131**  
Phone: 800.982.5839 • Fax: 800.447.8329 • [sloan.com](http://sloan.com)

## ROUGH-IN



## HOT AND COLD WATER SUPPLY APPLICATIONS (SPECIFY IN MODEL VARIATION)





## Model 570 Thermostatic Mixing Valve for Point of Use Controlled Fixtures Unit No. 86820

### CAPACITIES – MODEL 570-3/8"

Pressure Drop PSI	5	10	20	40
Valve Number	Capacity			
570-GPM	3	4	5	6.5
570-LPM	11	15	19	25

The mixing valve for point of use mixing fixtures shall be a lead free brass thermostatic mixing valve. The mixing valve shall be 3/8" Compression Fit. The mixing valve shall have a spindle to adjust outlet temperature. The mixing valve shall have internal checks. The mixing valve shall be Lawler model 570.

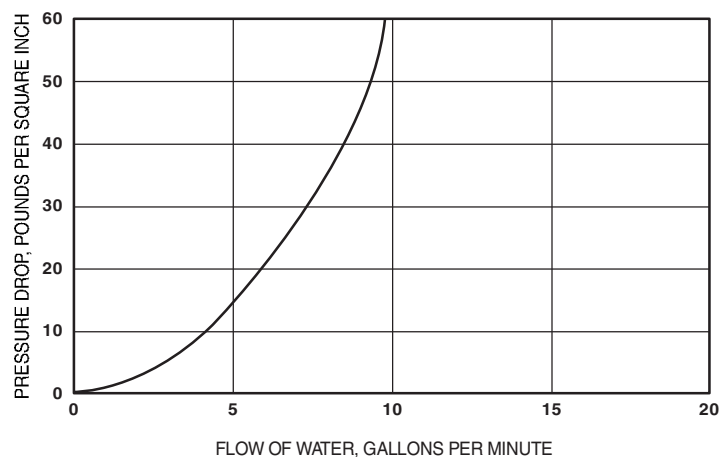
### Specifications

- Outlet temperature range: 95-115°F (35-46°C).
- Temperature, hot supply: 180°F max. (91°C).
- Temperature, cold supply: 40-80°F (4-27°C).
- Temperature stability (nominal): ±5°F (±3°C).
- Temperature differential (between hot supply and outlet temperature): 10°F (11°C).
- Hydrostatic pressure: 125 psi max. (1000 kPa).
- Permitted supply pressure variation: ±20%.
- Flow rate @ 45psi pressure loss: 7 gpm (26L/min).
- Flow rate, minimum: .25 gpm (4L/min).
- Flow rate, maximum: 8 gpm (30L/min).

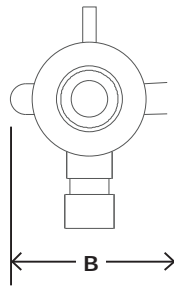
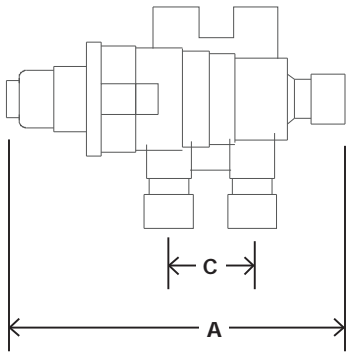
### Benefits

- Protects against scalding and chilling.
- Offers choice of temperature settings from 95° through 115°F.
- Easy installation.
- Backed by Lawler's One Year Warranty.

FLOW CAPACITIES - MODEL 570







## Model 570 Unit No. 86820

### Temperature Adjustment

To adjust the mixed outlet temperature of the valve, remove the cap to gain access to the adjusting spindle. The spindle should be rotated-clockwise to reduce the temperature, counter-clockwise to increase the temperature until the desired set point is reached.

### DIMENSIONS

Valve Number	A	B	C
570	4-7/8"	1-3/4"	1-1/8"

Dimensions are for reference purposes only. For rough-in dimensions please refer to Lawler's Revit/BIM models found at [temperedwater.com](http://temperedwater.com).

Inlets & outlet are 3/8" compression fittings.

### Fitting the Valve

The mixed water outlet from the valve should be used to supply outlets used primarily for personal hygiene purposes.

It is recommended that the valve is installed as close as possible to the point of use; however, it may be fitted anywhere on the hot water supply pipe.



# 3700WC P.O. OFFSET LAV DRAIN SERIES

## PRODUCT Specifications

3700WC 1-1/4" 17 GA  
CAST BRASS OFFSET  
P.O. LAV DRAIN

### DIAM & GAUGE (a):

3700: 1-1/4"

- cast brass strainer

- cast brass elbow

- 1-1/4" 17 GA tailpiece

### LENGTH (b):

Default = 9"

### GRID:

- 19 hole

- min. grid hole size =

### FINISHES AVAILABLE (x):

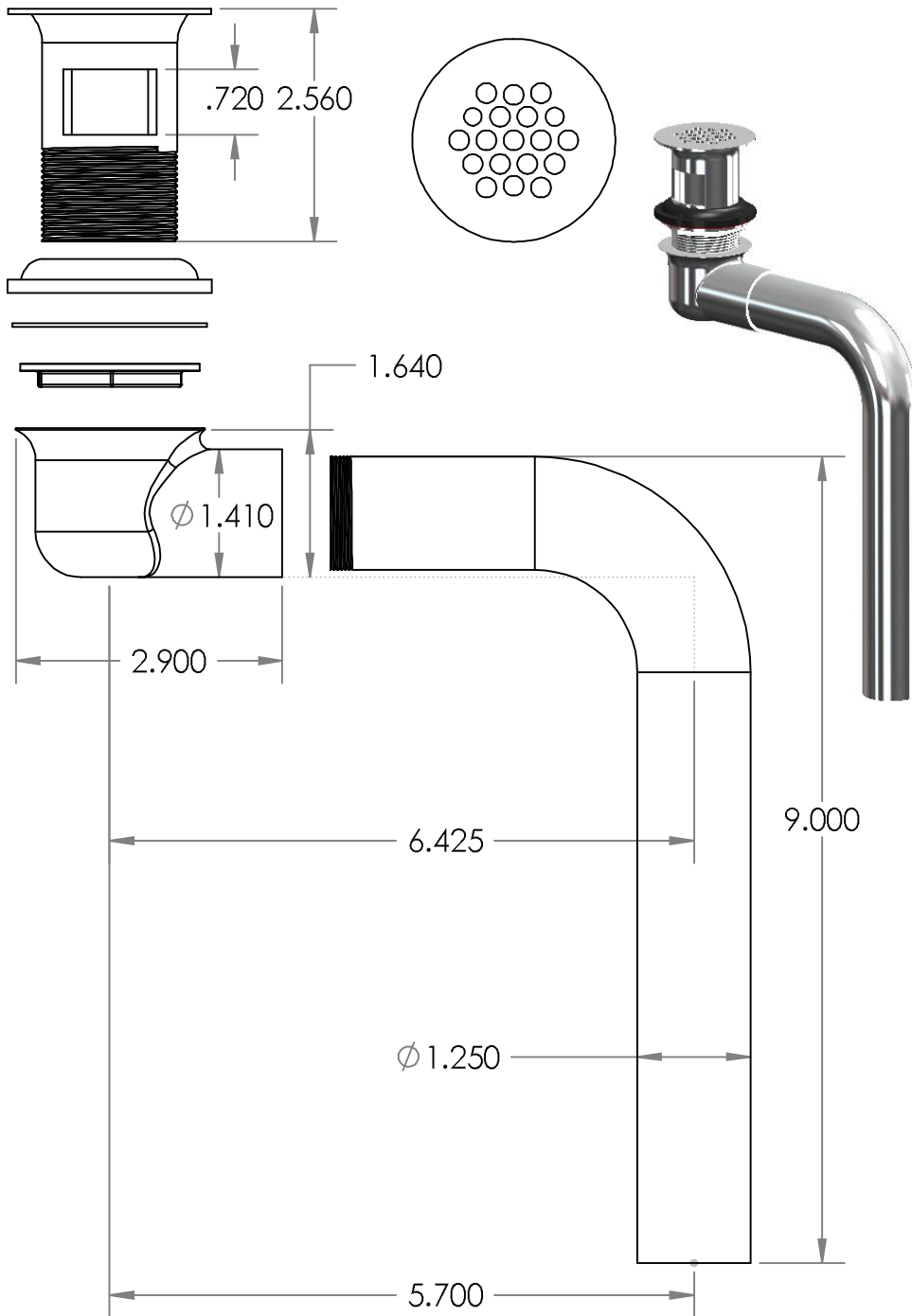
(Default = Chrome Plated)

PB = POLISHED BRASS

### CERTIFICATIONS:



Drawn by: Chris McLeod  
Date: 2010JUN28  
Checked by: Mike Pinet  
Oakville Stamping & Bending Ltd.  
Units: Inches  
Scale: 1:2 (line drawing)





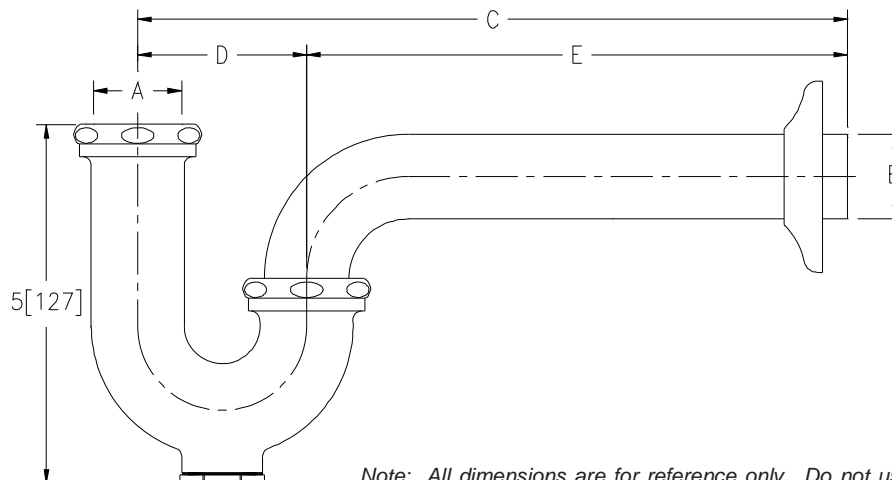
# SEMI-CAST P-TRAPS WITH WALL BEND

## Z8700-PC TO Z8708-PC

### TAG



**Engineering Specification:** Zurn Z8700-PC to Z8708-PC. – Chrome-plated cast brass (copper alloy) body P-trap with cleanout, tubular brass wall bend as specified, die-cast nuts, and shallow escutcheon with compression inlet.



Note: All dimensions are for reference only. Do not use for pre-plumbing.

PRODUCT NUMBER	A INLET in[mm]	B OUTLET in[mm]	GAUGE	DIMENSIONS			MASTER CARTON	WEIGHT CARTON [lbs]
				C in[mm]	D in[mm]	E in[mm]		
✓ Z8700-PC	1 1/4[32]	1 1/4[32]	17	10[254]	2 1/2[64]	7 1/2[191]	12	24
Z8700-8-PC	1 1/4[32]	1 1/4[32]	17	11[279]	2 1/2[64]	8 1/2[216]	12	24
Z8700-15-PC	1 1/4[32]	1 1/4[32]	17	15[381]	2 1/2[64]	12 1/2[318]	18	40
Z8701-PC	1 1/4[32]	1 1/2[38]	17	10 1/2[267]	3[76]	7 1/2[191]	12	24
Z8701-9-PC	1 1/4[32]	1 1/2[38]	17	12[305]	3[76]	9[229]	12	24
Z8701-15-PC	1 1/4[32]	1 1/2[38]	17	15[381]	3[76]	12[305]	18	42
Z8702-PC*	1 1/2[38]	1 1/2[38]	17	10 1/2[267]	3[76]	7 1/2[191]	12	24
Z8702-9-PC*	1 1/2[38]	1 1/2[38]	17	12[305]	3[76]	9[229]	12	24
Z8702-15-PC*	1 1/2[38]	1 1/2[38]	17	15[381]	3[76]	12[305]	18	42
Z8703B-PC**	1 1/2[38]	2[51]	17	12 1/2[318]	3 1/2[89]	9[229]	6	18
Z8704B-PC**	2[51]	2[51]	17	12 1/2[318]	3 1/2[89]	9[229]	6	18
Z8706-PC	1 1/4[32]	1 1/4[32]	20	10[254]	2 1/2[64]	7 1/2[191]	12	24
Z8707-PC	1 1/4[32]	1 1/2[38]	20	10 1/2[267]	3[76]	7 1/2[191]	12	24
Z8708-PC*	1 1/2[38]	1 1/2[38]	20	10 1/2[267]	3[76]	7 1/2[191]	12	24

#### OPTIONAL ACCESSORIES

Suffix	Description
✓ -B	Brass Nuts
___ -BX	Box Escutcheon
___ -CE	Cast Brass Escutcheon with Setscrew
✓ -D	Deep Escutcheon (Note = not available for Z8703B-PC and Z8704B-PC)
___ -J	Metal to Metal Ground Joint Connection
___ -WC	Waste Connections - Compression
___ -15	15[381] C Dim. 1 1/4[32] and 1 1/2[38] Only
___ -18	18[457] C Dim. 1 1/4[32] and 1 1/2[38] Only

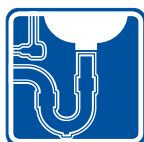
\* COMES WITH OPTIONAL 1-1/2" x 1-1/4" REDUCTION POLY-WASHER FOR INLET

\*\* SHIPPED WITH BRASS NUTS UNLESS OTHERWISE SPECIFIED

ZURN INDUSTRIES, LLC ♦ COMMERCIAL BRASS OPERATION ♦ 2640 SOUTH WORK STREET ♦ FALCONER NY 14733

Phone: 1-800-997-3876 ♦ Fax: 1-919-775-3541 ♦ www.zurn.com

In Canada: ZURN INDUSTRIES LIMITED ♦ 3544 Nashua Drive ♦ Mississauga, Ontario L4V1L2 ♦ Phone: 905/405-8272 Fax: 905/405-1292



**LAV GUARD<sup>2</sup>**  
FAST FIT UNDERSINK PIPING COVERS

All New  
E-Z Series

ADA-compliant undersink protection



# Submittal Sheet

## General Description:

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

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

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

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

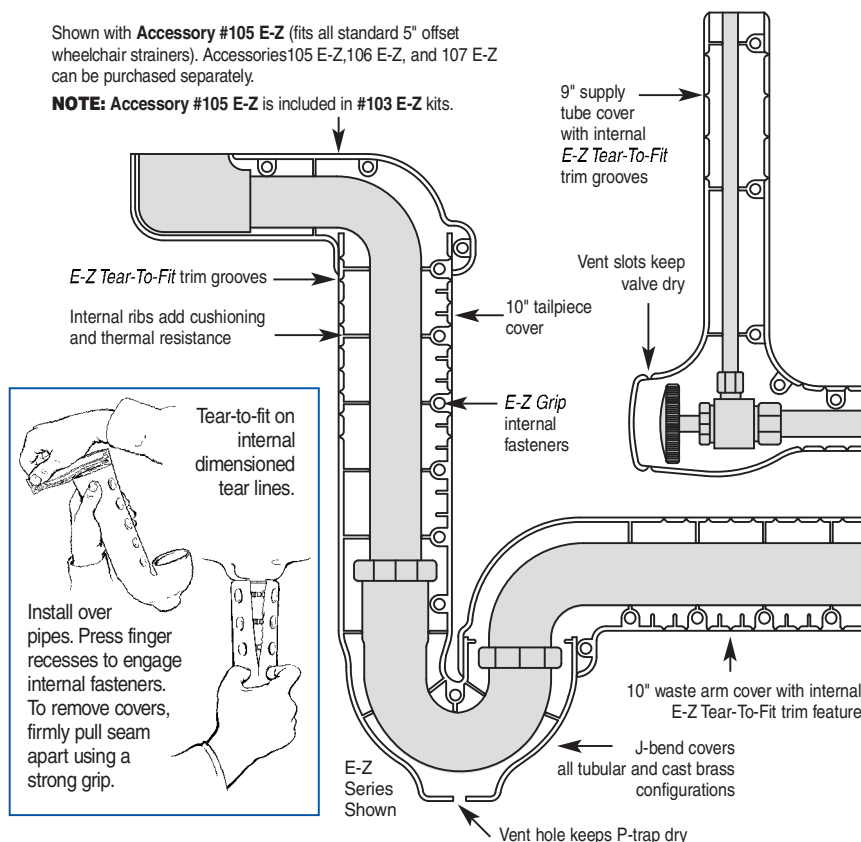


IPS Corporation, 202 Industrial Park Lane, Collierville, TN 38017  
(901) 853-5001 (800) 340-5969 FAX: (901) 853-5008  
e-mail: info@truebro.com Internet: http://www.truebro.com



Shown with **Accessory #105 E-Z** (fits all standard 5" offset wheelchair strainers). Accessories 105 E-Z, 106 E-Z, and 107 E-Z can be purchased separately.

**NOTE:** **Accessory #105 E-Z** is included in **#103 E-Z** kits.



**#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.

☐ **Model #99 E-Z**  
One angle valve and supply cover

☐ **Model #100 E-Z**  
One P-trap cover

☐ **Model #400W\***  
One P-trap cover

☐ **Model #101 E-Z**  
One P-trap cover, one angle valve cover

☐ **Model #401W\***  
One P-trap cover, one angle valve cover

☐ **Model #102 E-Z**  
One P-trap cover, two angle valves and covers

☐ **Model #402W\***  
One P-trap cover, two angle valves and covers

☒ **Model #103 E-Z**  
One P-trap cover, two angle valves and supply covers, one 5" offset tailpiece wheelchair strainer cover

☐ **Accessory #105 E-Z**  
One 5" offset tailpiece wheelchair strainer assembly

☐ **Accessory #105-K**  
Kohler 6" offset

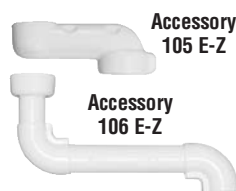
☐ **Accessory #106 E-Z**  
One basket strainer cover and offset waste cover (adjustable to 18")

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

☐ **Accessory #Ex99 E-Z**  
One 16" extension for water supply

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

\*All #400W series items are the "original" LAV GUARD<sup>2</sup> 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



# Z1231

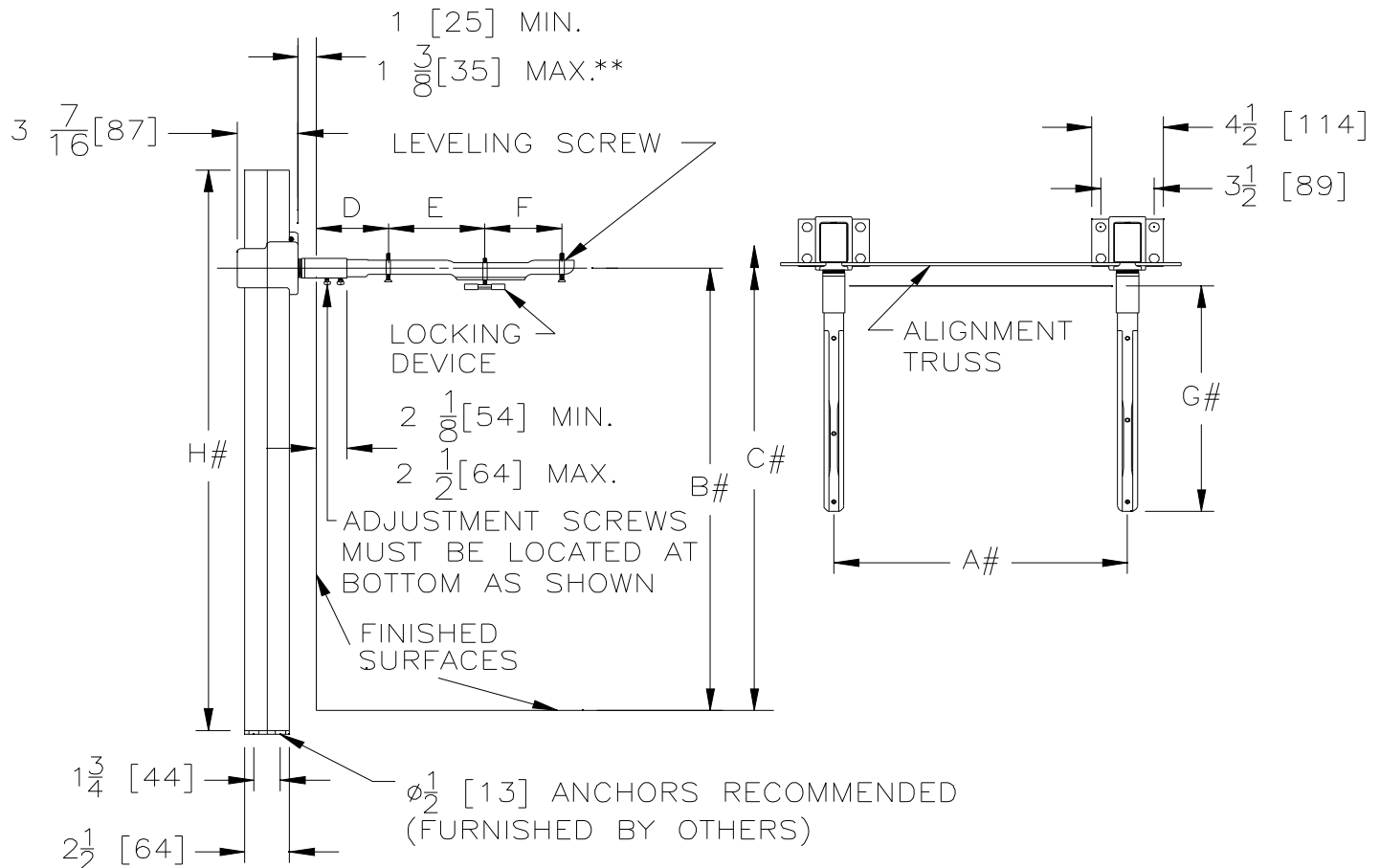
## CONCEALED ARM SYSTEM

### WALL LAVATORIES

SPECIFICATION SHEET

TAG \_\_\_\_\_

Dimensional Data (inches and [ mm ]) are Subject to Manufacturing Tolerances and Change Without Notice



## NOTES:

# REFER TO ROUGH-IN GUIDE OF SPECIFIC FIXTURE FOR DIMENSION

\*\* WITH STANDARD SLEEVE LENGTH OF 4 [102]

Product No.	Approx. Wt. Lbs. [kg]
Z1231	45 [20]

**ENGINEERING SPECIFICATION: ZURN Z1231**

Lavatory support system with concealed arms. Complete with Dura-Coated rectangular steel uprights with welded feet, cast iron adjustable headers, concealed arms, steel sleeves, alignment truss, and mounting fasteners.

**OPTIONS** (Check/specify appropriate options)**PREFIXES**☒ Z Dura-Coated System with Concealed Arms\***SUFFIXES**

- ☐ -AL Adapter Lug
- ☐ -CB Carrier Bank
- ☐ -D Back to Back System
- ☐ -E2 Concealed Arm Escutcheons 2 [51] Long
- ☐ -SL Sleeve Length Over 4 [102] (Specify Length)
- ☒ -WS Wall Support Valve Plate (Specify Knee or Foot action, Valve Name, and Number)
- ☒ -79 ADA Rough-in

\* Regularly furnished unless otherwise specified.

**LUCERNE™ WALL-HUNG LAVATORY**

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

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

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

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

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

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

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

**Nominal Dimensions:**

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

**Bowl sizes:**

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

**Compliance Certifications -**

**Meets or Exceeds the Following Specifications:**

- ASME A112.19.2 for Vitreous China Fixtures



**0356.028**



**0356.041**

SEE REVERSE FOR ROUGHING-IN DIMENSIONS

**To Be Specified:**

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

\* See faucet section for additional models available



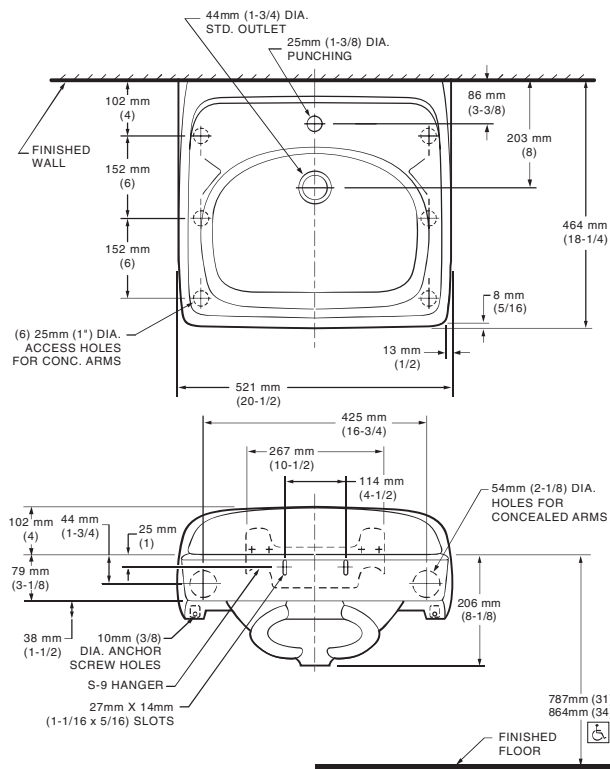
MEETS THE AMERICANS WITH DISABILITIES ACT GUIDELINES AND ANSI A117.1 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES - CHECK LOCAL CODES.  
Top of front rim mounted 864mm (34") from finished floor.

# American Standard

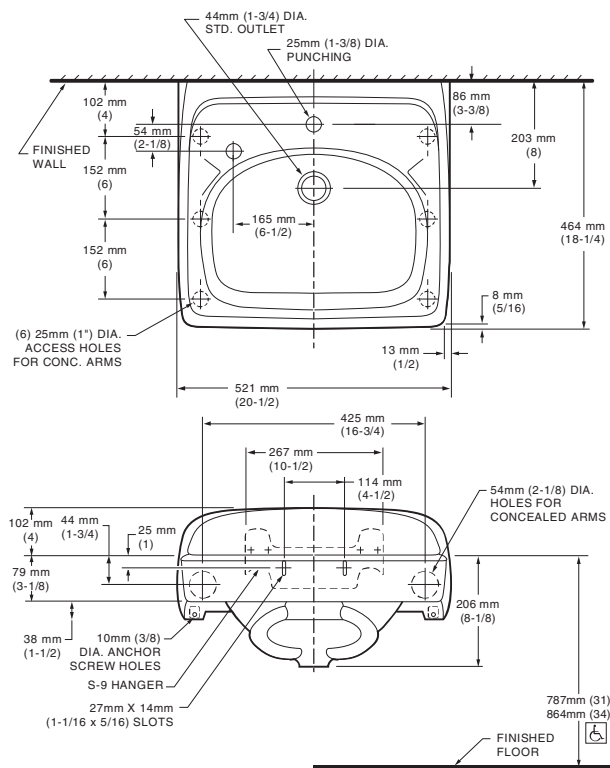
Style That Works Better

 BARRIER FREE

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



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

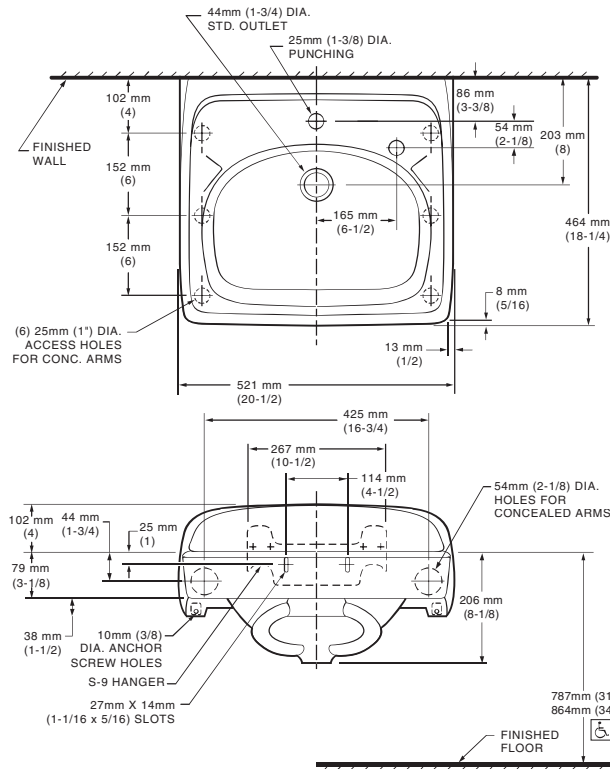


# LUCERNE™

## WALL-HUNG LAVATORY

VITREOUS CHINA

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



### NOTES:

\* DIMENSIONS SHOWN FOR LOCATION OF SUPPLIES AND "P" TRAP ARE SUGGESTED. PROVIDE SUITABLE REINFORCEMENT FOR ALL WALL SUPPORTS. FITTINGS NOT INCLUDED AND MUST BE ORDERED SEPARATELY. CONCEALED ARM SUPPORT AS REQUIRED TO BE FURNISHED BY OTHERS.

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



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



## CODE NUMBER

3362124

## DESCRIPTION

4" Trim Plate, Battery Power Supply, Back-Check Tee, Polished Chrome Finish, 0.5 gpm, Multi-Laminar Spray, Infrared Sensor, Sloan® Battery-Powered Deck-Mounted Mid Body Faucet.

## DETAILS

- Flow Rate: 0.5 gpm (1.9 Lpm) (0.5GPM)
- Spray Type: Multi-Laminar (MLM)
- Spout Type: Pedestal
- Sensor Type: Infrared
- Mounting Type: Single Hole
- Trim Plate: 4" (102mm) (4)
- Power Supply: Battery (BAT)
- Temperature Mixer: Back-Check Tee (TEE)
- Finish: Polished Chrome (CP)
- Factory Default Timeout: 30 seconds
- Factory Default Gallons per Cycle: 0.25

## FEATURES

Commercial Grade, ADA Compliant, Electronic, Sensor-Activated, Brass Pedestal Hand Washing Faucet with the following features:

- Adjustable Infrared Sensor Range
- 36" (914 mm) Long Sensor Cable
- 24" (610 mm) Long Flex Hose
- Filtered Solenoid Valve with serviceable Strainer Filter
- Includes Four (4) AA-size Batteries
- Includes appropriate Mounting Hardware

## ELECTRICAL SPECIFICATIONS

- Battery Life: 2 years 8,000 cycles/month
- Timeout Adjustment Settings: 30s

## VIDEOS

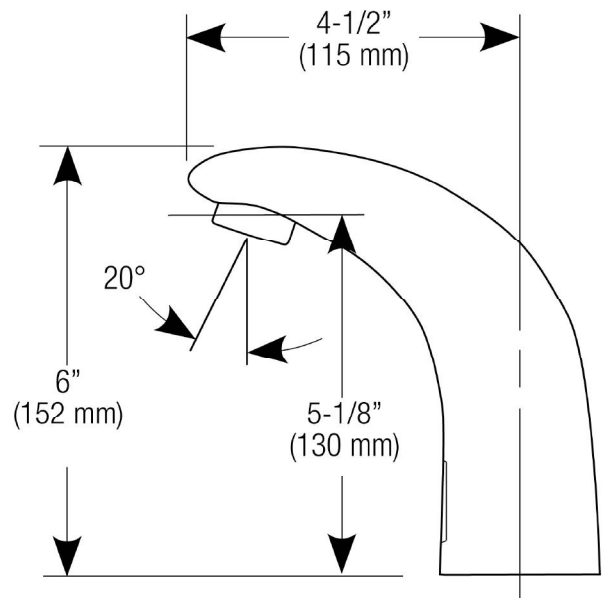
- ▶ SF-2100/2150/SF-2200/2250/SF-2300/2350/SF-2400/2450 Parts Breakdown
- ▶ SF-2100/2150/SF-2200/2250/SF-2300/2350/SF-2400/2450 Module Replacement
- ▶ SF-2100/2150/SF-2200/2250/SF-2300/2350/SF-2400/2450 Battery Replacement- Sensor Range Adjustment

## DOWNLOADS

- SF Series Installation Instructions
- SF Series (FR) Installation Instructions
- SF Series (SP) Installation Instructions
- SFP 35-A Installation Instructions
- Trim Plate Guide
- SF-2400/2450 Repair and Maintenance Guide
- Faucet Spray Heads Repair and Maintenance Guide
- Additional Downloads



Variation not shown: 4" Trim Plate



## COMPLIANCES & CERTIFICATIONS



(ADA Compliant, ASME A112.18.1 Compliant, CalGreen Compliant, CEC Compliant, cUPC Certified, cUPC Low Lead Compliant, GPC 0.25 or less, IAPMO, NSF-61, NYC604.4, Proposition 65, TAS, UPC Certified, UPC Low Lead Compliant, WaterSense Listed, WELL Building Standard)

## NOTES

All information contained within this document subject to

**Sloan 10500 Seymour Ave, Franklin Park, IL 60131**  
 Phone: 800.982.5839 • Fax: 800.447.8329 • [sloan.com](http://sloan.com)



L

**SLOAN® SENSOR FAUCET**  
**SF-2450-4-BAT-TEE-CP-0.5GPM-MLM-FCT**  
(General Model Name: SF2450-4 CP FCT PEDESTAL 4" BATTERY)

---

change without notice.

Looking for other variations of the SF-2450 product? View the general spec sheet with all options.

Find a matching soap dispenser for this faucet.

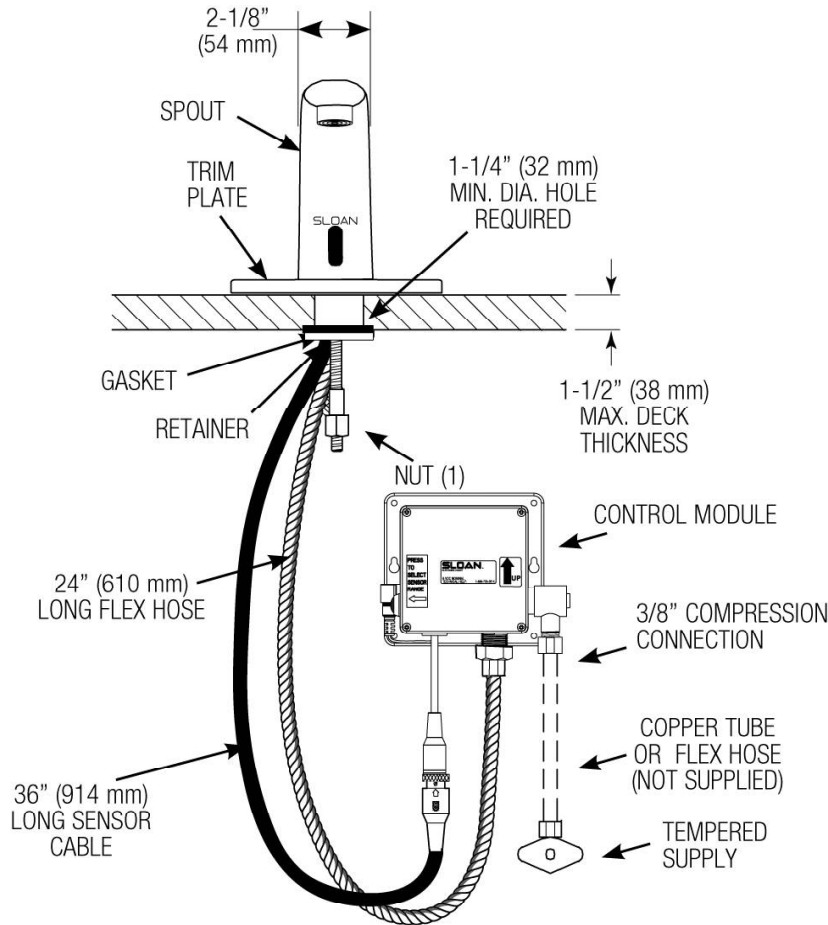
Find a compatible sink for this faucet.

**WARRANTY**

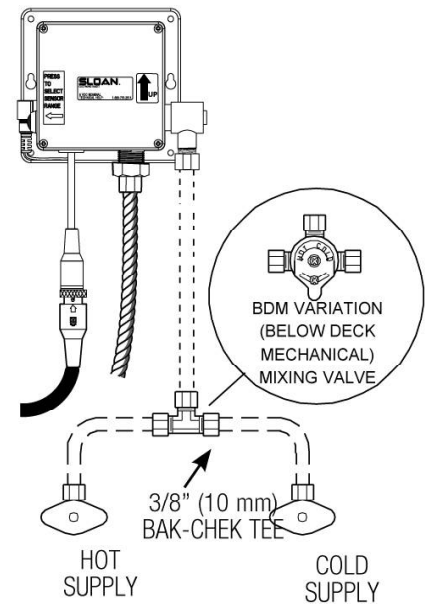
[View Warranty Information](#)

**Sloan 10500 Seymour Ave, Franklin Park, IL 60131**  
Phone: 800.982.5839 • Fax: 800.447.8329 • [sloan.com](http://sloan.com)

**ROUGH-IN**



**HOT AND COLD WATER  
 SUPPLY APPLICATIONS**  
 (SPECIFY IN MODEL VARIATION)



## Model 570 Thermostatic Mixing Valve for Point of Use Controlled Fixtures Unit No. 86820



### CAPACITIES – MODEL 570-3/8"

Pressure Drop PSI	5	10	20	40
Valve Number	Capacity			
570-GPM	3	4	5	6.5
570-LPM	11	15	19	25

The mixing valve for point of use mixing fixtures shall be a lead free brass thermostatic mixing valve. The mixing valve shall be 3/8" Compression Fit. The mixing valve shall have a spindle to adjust outlet temperature. The mixing valve shall have internal checks. The mixing valve shall be Lawler model 570.

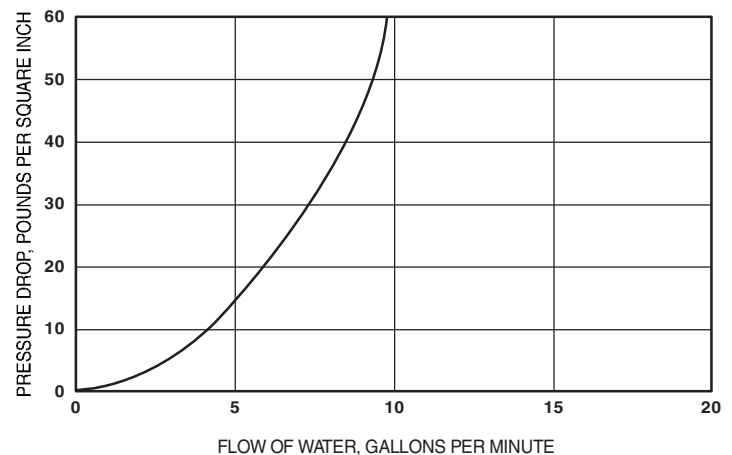
### Specifications

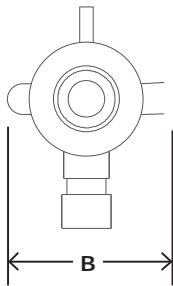
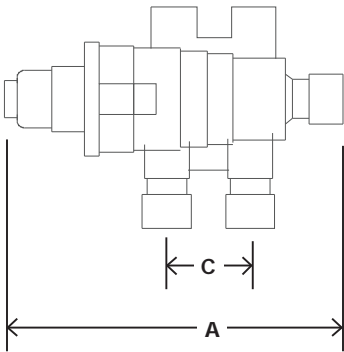
- Outlet temperature range: 95-115°F (35-46°C).
- Temperature, hot supply: 180°F max. (91°C).
- Temperature, cold supply: 40-80°F (4-27°C).
- Temperature stability (nominal): ±5°F (±3°C).
- Temperature differential (between hot supply and outlet temperature): 10°F (11°C).
- Hydrostatic pressure: 125 psi max. (1000 kPa).
- Permitted supply pressure variation: ±20%.
- Flow rate @ 45psi pressure loss: 7 gpm (26L/min).
- Flow rate, minimum: .25 gpm (4L/min).
- Flow rate, maximum: 8 gpm (30L/min).

### Benefits

- Protects against scalding and chilling.
- Offers choice of temperature settings from 95° through 115°F.
- Easy installation.
- Backed by Lawler's One Year Warranty.

FLOW CAPACITIES - MODEL 570





## Model 570 Unit No. 86820

### Temperature Adjustment

To adjust the mixed outlet temperature of the valve, remove the cap to gain access to the adjusting spindle. The spindle should be rotated-clockwise to reduce the temperature, counter-clockwise to increase the temperature until the desired set point is reached.

### DIMENSIONS

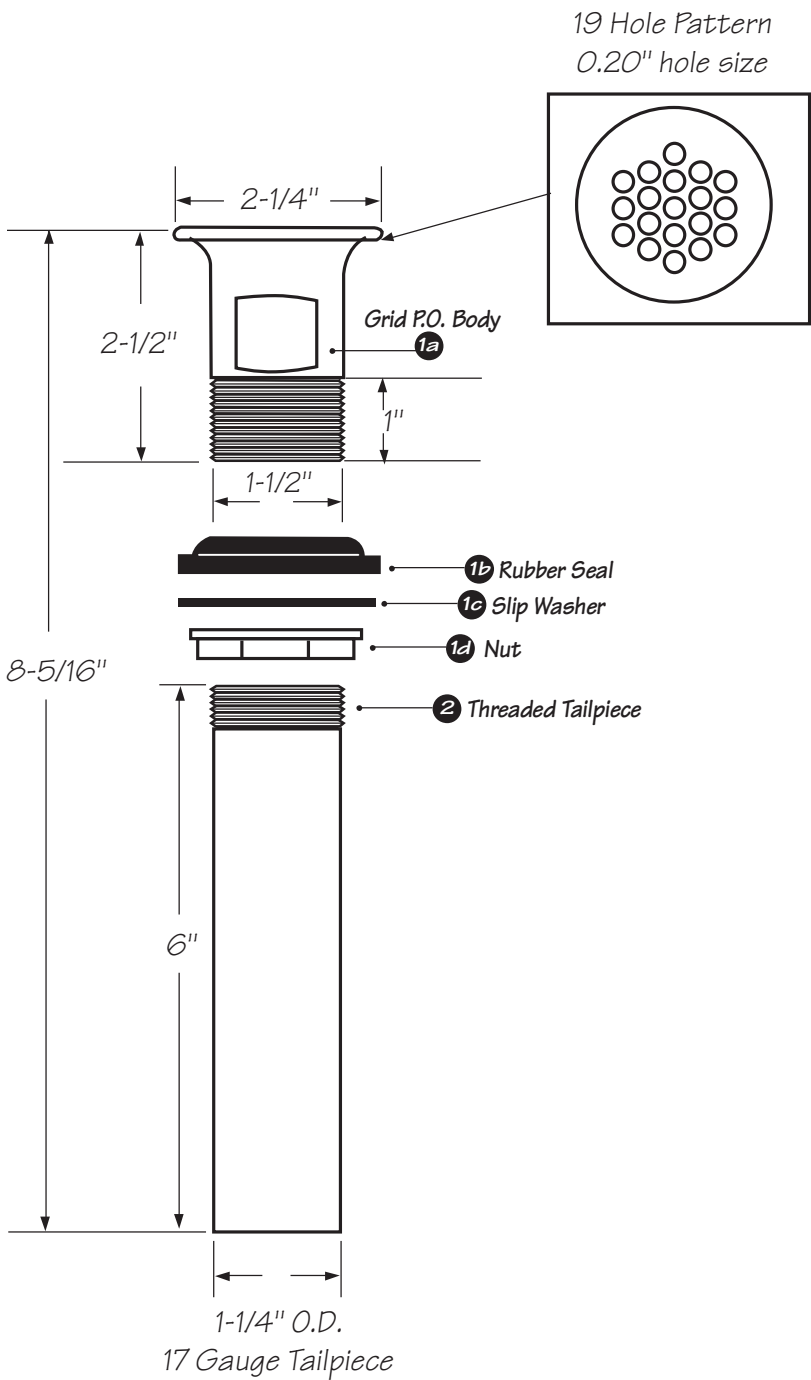
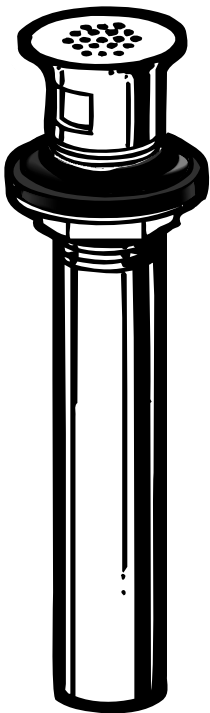
Valve Number	A	B	C
570	4-7/8"	1-3/4"	1-1/8"

Dimensions are for reference purposes only. For rough-in dimensions please refer to Lawler's Revit/BIM models found at [temperedwater.com](http://temperedwater.com).  
Inlets & outlet are 3/8" compression fittings.

### Fitting the Valve

The mixed water outlet from the valve should be used to supply outlets used primarily for personal hygiene purposes.

It is recommended that the valve is installed as close as possible to the point of use; however, it may be fitted anywhere on the hot water supply pipe.



1	370	Grid P.O. Body Assembly	<div>OS&amp;B</div> <div>OAKVILLE STAMPING &amp; BENDING</div>		
			Date: March 31/00	Approved by:	Drawn by: S.Black
2	4831-6	17 Gauge Tailpiece	Scale: not to scale		Revision: 01
			Product: P.O. Plug		Number: 3700



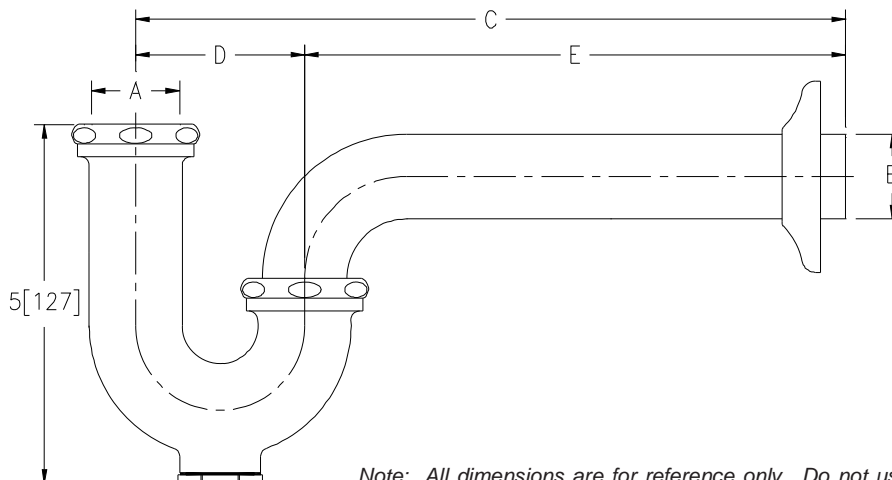
# SEMI-CAST P-TRAPS WITH WALL BEND

## Z8700-PC TO Z8708-PC

### TAG



**Engineering Specification:** Zurn Z8700-PC to Z8708-PC. – Chrome-plated cast brass (copper alloy) body P-trap with cleanout, tubular brass wall bend as specified, die-cast nuts, and shallow escutcheon with compression inlet.



Note: All dimensions are for reference only. Do not use for pre-plumbing.

PRODUCT NUMBER	A INLET in[mm]	B OUTLET in[mm]	GAUGE	DIMENSIONS			MASTER CARTON	WEIGHT CARTON [lbs]
				C in[mm]	D in[mm]	E in[mm]		
✓ Z8700-PC	1 1/4[32]	1 1/4[32]	17	10[254]	2 1/2[64]	7 1/2[191]	12	24
Z8700-8-PC	1 1/4[32]	1 1/4[32]	17	11[279]	2 1/2[64]	8 1/2[216]	12	24
Z8700-15-PC	1 1/4[32]	1 1/4[32]	17	15[381]	2 1/2[64]	12 1/2[318]	18	40
Z8701-PC	1 1/4[32]	1 1/2[38]	17	10 1/2[267]	3[76]	7 1/2[191]	12	24
Z8701-9-PC	1 1/4[32]	1 1/2[38]	17	12[305]	3[76]	9[229]	12	24
Z8701-15-PC	1 1/4[32]	1 1/2[38]	17	15[381]	3[76]	12[305]	18	42
Z8702-PC*	1 1/2[38]	1 1/2[38]	17	10 1/2[267]	3[76]	7 1/2[191]	12	24
Z8702-9-PC*	1 1/2[38]	1 1/2[38]	17	12[305]	3[76]	9[229]	12	24
Z8702-15-PC*	1 1/2[38]	1 1/2[38]	17	15[381]	3[76]	12[305]	18	42
Z8703B-PC**	1 1/2[38]	2[51]	17	12 1/2[318]	3 1/2[89]	9[229]	6	18
Z8704B-PC**	2[51]	2[51]	17	12 1/2[318]	3 1/2[89]	9[229]	6	18
Z8706-PC	1 1/4[32]	1 1/4[32]	20	10[254]	2 1/2[64]	7 1/2[191]	12	24
Z8707-PC	1 1/4[32]	1 1/2[38]	20	10 1/2[267]	3[76]	7 1/2[191]	12	24
Z8708-PC*	1 1/2[38]	1 1/2[38]	20	10 1/2[267]	3[76]	7 1/2[191]	12	24

#### OPTIONAL ACCESSORIES

Suffix	Description
✓ -B	Brass Nuts
___ -BX	Box Escutcheon
___ -CE	Cast Brass Escutcheon with Setscrew
✓ -D	Deep Escutcheon (Note = not available for Z8703B-PC and Z8704B-PC)
___ -J	Metal to Metal Ground Joint Connection
___ -WC	Waste Connections - Compression
___ -15	15[381] C Dim. 1 1/4[32] and 1 1/2[38] Only
___ -18	18[457] C Dim. 1 1/4[32] and 1 1/2[38] Only

\* COMES WITH OPTIONAL 1-1/2" x 1-1/4" REDUCTION POLY-WASHER FOR INLET

\*\* SHIPPED WITH BRASS NUTS UNLESS OTHERWISE SPECIFIED

ZURN INDUSTRIES, LLC ♦ COMMERCIAL BRASS OPERATION ♦ 2640 SOUTH WORK STREET ♦ FALCONER NY 14733

Phone: 1-800-997-3876 ♦ Fax: 1-919-775-3541 ♦ www.zurn.com

In Canada: ZURN INDUSTRIES LIMITED ♦ 3544 Nashua Drive ♦ Mississauga, Ontario L4V1L2 ♦ Phone: 905/405-8272 Fax: 905/405-1292





# Z1231

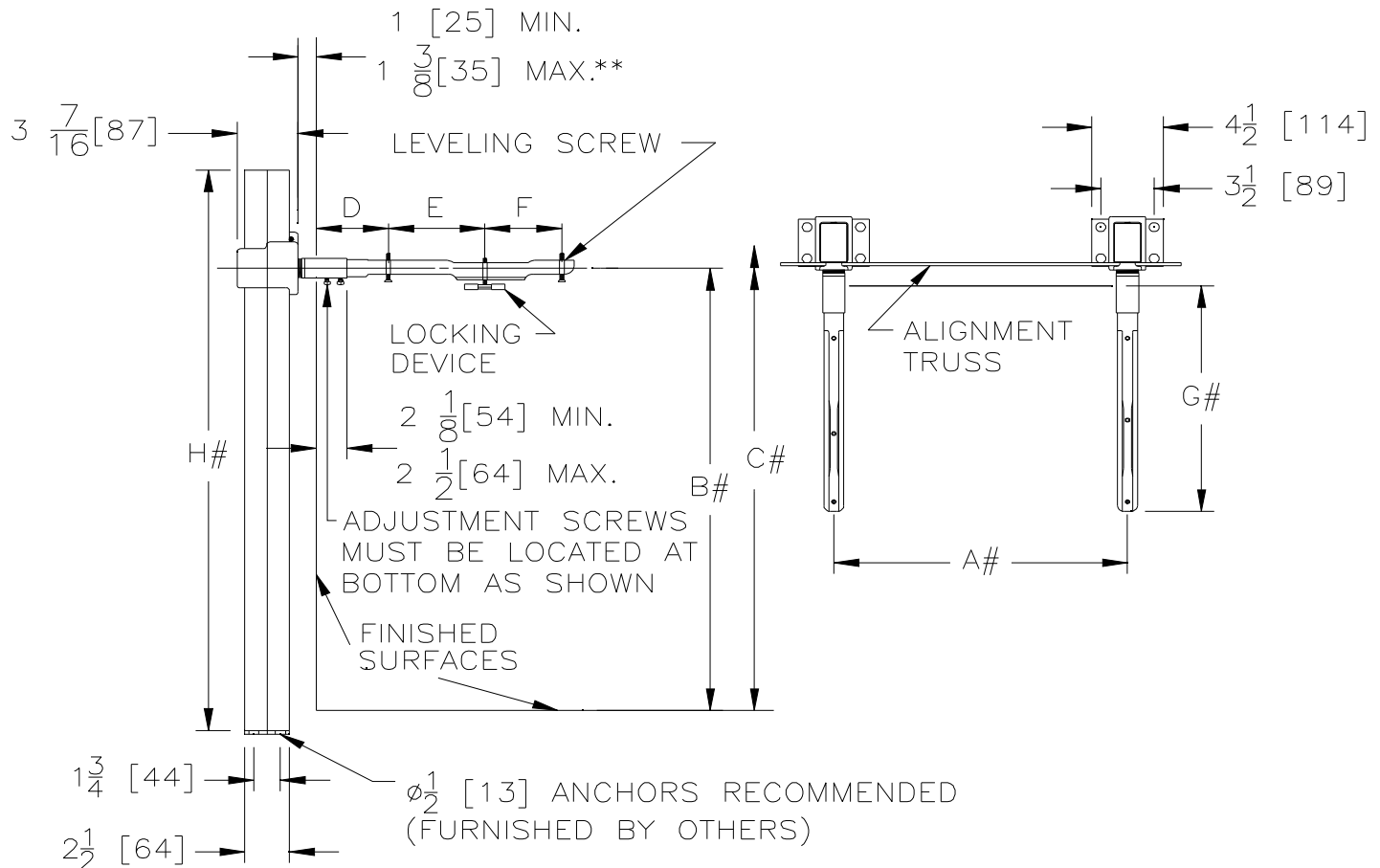
## CONCEALED ARM SYSTEM

### WALL LAVATORIES

SPECIFICATION SHEET

TAG \_\_\_\_\_

Dimensional Data (inches and [ mm ]) are Subject to Manufacturing Tolerances and Change Without Notice



## NOTES:

# REFER TO ROUGH-IN GUIDE OF SPECIFIC FIXTURE FOR DIMENSION

\*\* WITH STANDARD SLEEVE LENGTH OF 4 [102]

Product No.	Approx. Wt. Lbs. [kg]
Z1231	45 [20]

**ENGINEERING SPECIFICATION: ZURN Z1231**

Lavatory support system with concealed arms. Complete with Dura-Coated rectangular steel uprights with welded feet, cast iron adjustable headers, concealed arms, steel sleeves, alignment truss, and mounting fasteners.

**OPTIONS** (Check/specify appropriate options)**PREFIXES**

Z

Dura-Coated System with Concealed Arms\*

**SUFFIXES**

- \_\_\_ -AL Adapter Lug
- \_\_\_ -CB Carrier Bank
- \_\_\_ -D Back to Back System
- \_\_\_ -E2 Concealed Arm Escutcheons 2 [51] Long
- \_\_\_ -SL Sleeve Length Over 4 [102] (Specify Length)
- \_\_\_ -WS Wall Support Valve Plate (Specify Knee or Foot action, Valve Name, and Number)
- \_\_\_ -79 ADA Rough-in

\* Regularly furnished unless otherwise specified.



QCLA2027L/8 SHOWN



## Included Accessories



CA1W

## Optional Accessories



DBR10S



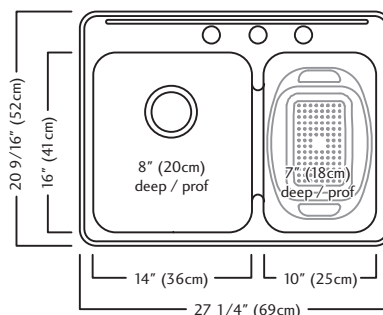
MB1610



BC10S



BG13S



## QCLA2027L/8 AND QCLA2027R/8 SPECIFICATION

Model QCLA2027L/8 (small bowl left) QCLA2027R/8 (small bowl right) is a large bowl/small bowl sink with Spillway and faucet ledge manufactured by Franke Kindred Canada Limited from 20 gauge, 18-8 stainless steel. Product has a bright mirror finished rim and satin finished bowls. Sink is fully undercoated. Basket strainer waste fittings (3 1/2", 89 mm) and installation kit are included. Sink is backed with a limited buyer lifetime warranty.

- O.D. 20 9/16" x 27 1/4" x 8" (small bowl is 7" deep) 52 x 69 x 20 cm (small bowl is 18 cm deep)
- **Recommended for minimum 30" cabinet**

QCLA2027R/8/3	3 hole, 1 1/2" diameter, 4" center-to-center	<b>FUN#101.0202.031</b>
QCLA2027R/8/1	1 hole on centre	<b>FUN#101.0202.029</b>
QCLA2027L/8/3	3 hole, 1 1/2" diameter, 4" center-to-center	<b>FUN#101.0202.172</b>
QCLA2027L/8/1	1 hole on center	<b>FUN#101.0202.160</b>

# Manual Sink Faucets 1100-GN8AE35-317AB

## Product Type

## Features & Specifications

- 
- 8" fixed centers
- 8" rigid/swing gooseneck spout
- Pressure compensating Softflo aerator 1.5 GPM
- Vandal Proof 4" wristblade handle
- Quaturn™ compression operating cartridge, right-hand
- Quaturn™ compression operating cartridge, left-hand
- ECAST® design provides durable cast brass construction with total lead content equal to or less than 0.25% by weighted average
- Complies with the requirements of the Buy American Act of 1933.
- 





## Performance Specification

- 
- 

## Warranty

- 
- Lifetime Limited Faucet Warranty
- 

## Codes & Standards

-  ASME A112.18.1/CSA B125.1
- Complies with CALGreen requirements
-  NSF/ANSI/CAN 372 Low Lead Content
-  NSF/ANSI/CAN 61: Q ≤ 1
-  Certified to WaterSense by ICC-ES

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

Item Number \_\_\_\_\_

Section/Tag \_\_\_\_\_

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

Architect \_\_\_\_\_

Engineer \_\_\_\_\_

Contractor \_\_\_\_\_

☐ Submitted as Shown      ☐ Submitted with Variations

Date \_\_\_\_\_

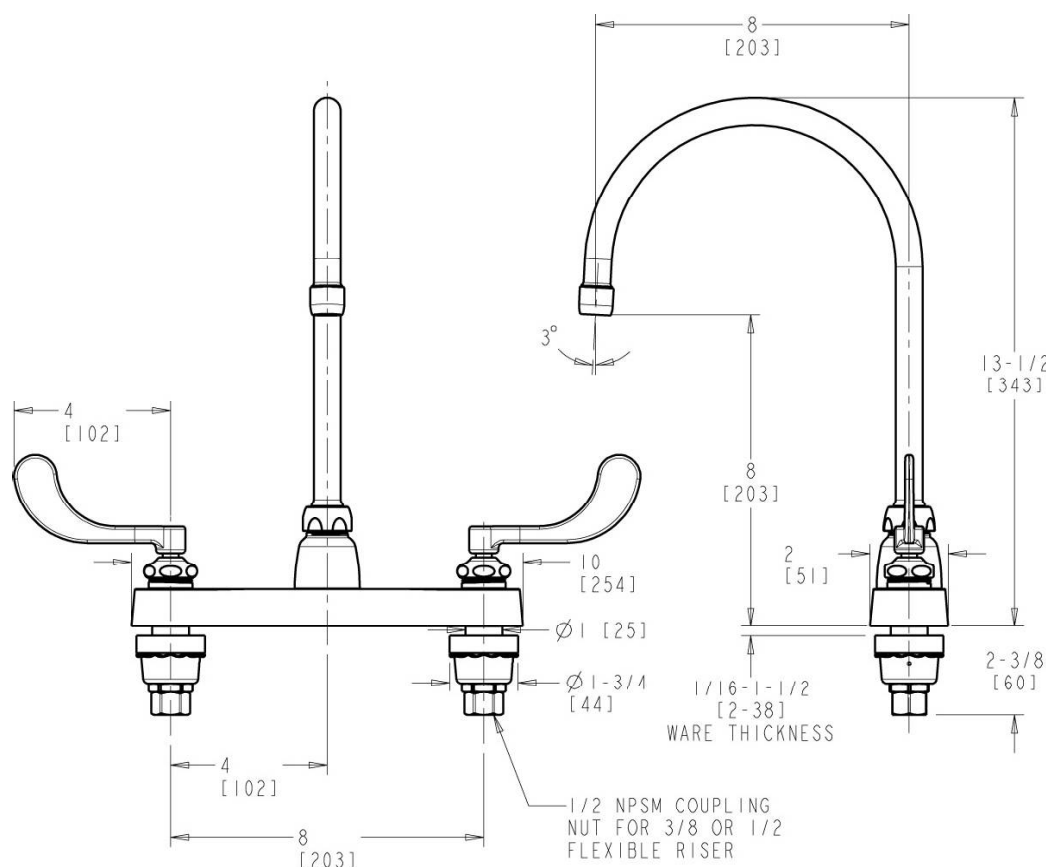


### ECAST

ECAST products are intended for installation where state laws and local codes mandate lead content levels or in any location where lead content is a concern.

**1100-GN8AE35-317AB****Architect/Engineer Specification**

Chicago Faucets No. 1100-GN8AE35-317AB, Sink Faucet for hot and cold water, deck-mounted with 8" fixed centers, chrome plated. Rigid/swing gooseneck spout, 8" center-to-center. 1.5 GPM (5.7 L/min) pressure compensating Softflo aerator. 4" metal, vandal-proof, wristblade handles with sixteen-point, tapered broach and secured blue and red index buttons. Quatern™ rebuildable compression cartridge, opens and closes 90°, closes with water pressure, features square, tapered stem. 1/2" NPSM supply inlets and coupling nut for 3/8" or 1/2" flexible riser. Mounting hardware included. ECAST® construction with less than 0.25% lead content by weighted average. CALGreen compliant. This product meets ADA ANSI/ICC A117.1 requirements and is tested and certified to industry standards: ASME A112.18.1/CSA B125.1, Certified to NSF/ANSI 61, Section 9, California Health and Safety Code 116875 (AB1953-2006), Vermont Bill S.152,

**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 [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.





# model 7620

Faucet Mounted Eyewash AXION® eyePOD®

## FEATURES & BENEFITS

### ACTIVATION

Easy one motion rotation (in either direction) to activate/deactivate the use of the unit.

### THERMOSTATIC PROTECTION

Thermostatic protection that will protect the user from water over 100° F (37.8° C) by shutting off the eyewash.

### INSTALLATION

Easy to install on a wide variety of sink faucets (not included) using a standard 55/64-27 thread stainless steel faucet connection, along with four additional adaptors provided (15/16-27 male, 13/16-27 male, 3/8-18 male and 13/16-24 female).

### FINISH

The stainless steel construction is rugged enough for any industrial application, and the polished surface is cosmetically suited for any professional office setting.

### EYEWASH

AXION® eyePOD® eyewash head (patent pending) uses an inverted directional laminar flow to sweep contaminants away from the vulnerable nasal cavity.



## OPTIONS

To see all options for this model, visit [www.hawscos.com](http://www.hawscos.com)

## SPECIFICATIONS

Model 7620 AXION® eyePOD® faucet mounted eyewash (patent pending). Constructed of stainless steel with a polished finish, the unit shall feature inverted directional laminar flow which achieves zero vertical velocity supplied by an integral .9 gpm (3.4 L) flow control. The faucet outlet flows at .5 gpm (1.9 L). The standard faucet connection is 55/64-27 stainless steel female thread, along with four additional aerators adapting this size to; 15/16-27 male, 13/16-27 male, 3/8-18 male and 13/16-24 female. An optional 1 gpm (3.8 L) laminar flow faucet outlet is also supplied. A thermostatic shutoff is used for water temperatures over 100°F (37.8°C). Operating pressure; 30-90 psi (2.1 - 6.2 bar).

## APPLICATIONS

Where safety is of the utmost importance and the eyes of any person may be exposed to injurious or corrosive materials, suitable facilities for quick flushing and cleansing of the eyes be provided within the work area for immediate emergency use. Model is Certified by CSA to meet the ANSI Z358.1 (provided input water is within tepid temperature range) and ASME A112.18.1/CSA B125.1 standards for Emergency Eyewash and Shower Equipment. Product is compliant to NSF 61 and California Health and Safety Code 116875 (AB 1953), along with all current Federal Regulations for the disabled including those in the Americans with Disabilities Act.



## Model 570 Thermostatic Mixing Valve for Point of Use Controlled Fixtures Unit No. 86820



### CAPACITIES – MODEL 570-3/8"

Pressure Drop PSI	5	10	20	40
Valve Number	Capacity			
570-GPM	3	4	5	6.5
570-LPM	11	15	19	25

The mixing valve for point of use mixing fixtures shall be a lead free brass thermostatic mixing valve. The mixing valve shall be 3/8" Compression Fit. The mixing valve shall have a spindle to adjust outlet temperature. The mixing valve shall have internal checks. The mixing valve shall be Lawler model 570.

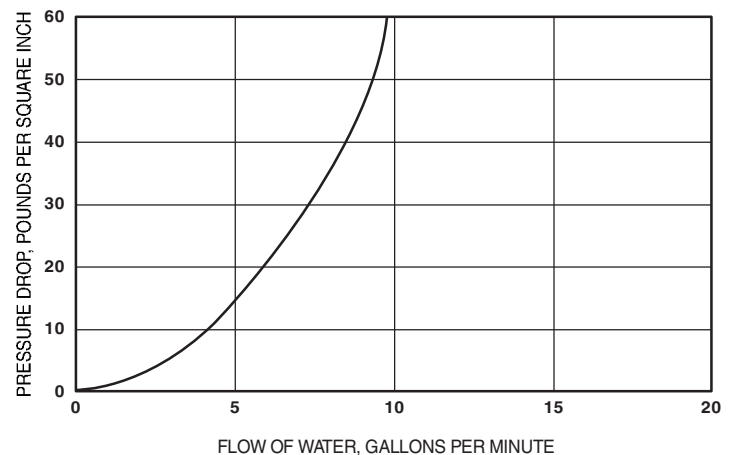
### Specifications

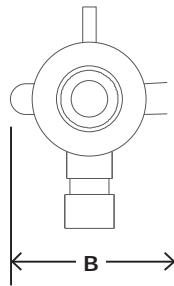
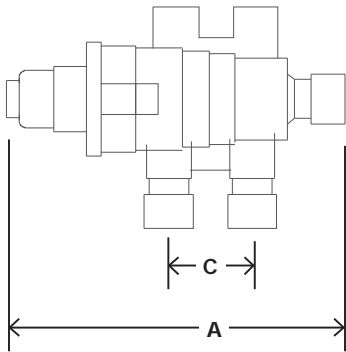
- Outlet temperature range: 95-115°F (35-46°C).
- Temperature, hot supply: 180°F max. (91°C).
- Temperature, cold supply: 40-80°F (4-27°C).
- Temperature stability (nominal): ±5°F (±3°C).
- Temperature differential (between hot supply and outlet temperature): 10°F (11°C).
- Hydrostatic pressure: 125 psi max. (1000 kPa).
- Permitted supply pressure variation: ±20%.
- Flow rate @ 45psi pressure loss: 7 gpm (26L/min).
- Flow rate, minimum: .25 gpm (4L/min).
- Flow rate, maximum: 8 gpm (30L/min).

### Benefits

- Protects against scalding and chilling.
- Offers choice of temperature settings from 95° through 115°F.
- Easy installation.
- Backed by Lawler's One Year Warranty.

FLOW CAPACITIES - MODEL 570





## Model 570 Unit No. 86820

### Temperature Adjustment

To adjust the mixed outlet temperature of the valve, remove the cap to gain access to the adjusting spindle. The spindle should be rotated-clockwise to reduce the temperature, counter-clockwise to increase the temperature until the desired set point is reached.

### DIMENSIONS

Valve Number	A	B	C
570	4-7/8"	1-3/4"	1-1/8"

Dimensions are for reference purposes only. For rough-in dimensions please refer to Lawler's Revit/BIM models found at [temperedwater.com](http://temperedwater.com).

Inlets & outlet are 3/8" compression fittings.

### Fitting the Valve

The mixed water outlet from the valve should be used to supply outlets used primarily for personal hygiene purposes.

It is recommended that the valve is installed as close as possible to the point of use; however, it may be fitted anywhere on the hot water supply pipe.





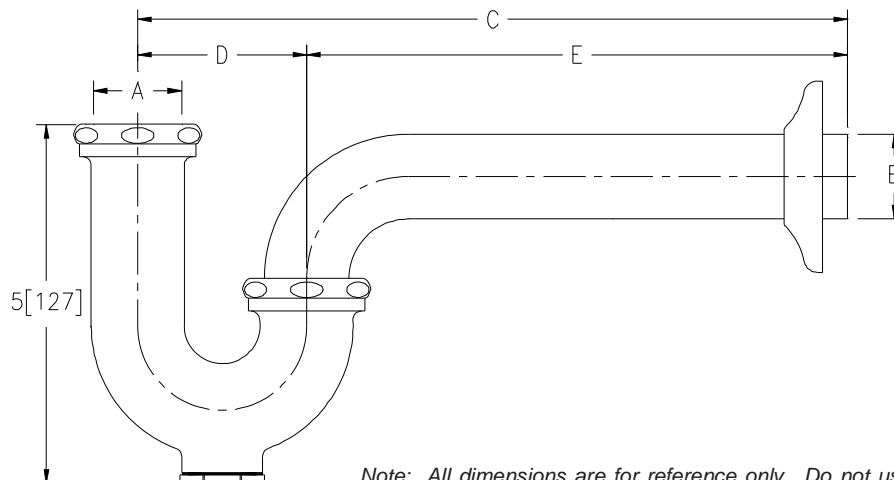
# SEMI-CAST P-TRAPS WITH WALL BEND

## Z8700-PC TO Z8708-PC

### TAG



**Engineering Specification:** Zurn Z8700-PC to Z8708-PC. – Chrome-plated cast brass (copper alloy) body P-trap with cleanout, tubular brass wall bend as specified, die-cast nuts, and shallow escutcheon with compression inlet.



Note: All dimensions are for reference only. Do not use for pre-plumbing.

PRODUCT NUMBER	A INLET in[mm]	B OUTLET in[mm]	GAUGE	DIMENSIONS			MASTER CARTON	WEIGHT CARTON [lbs]
				C in[mm]	D in[mm]	E in[mm]		
Z8700-PC	1 1/4[32]	1 1/4[32]	17	10[254]	2 1/2[64]	7 1/2[191]	12	24
Z8700-8-PC	1 1/4[32]	1 1/4[32]	17	11[279]	2 1/2[64]	8 1/2[216]	12	24
Z8700-15-PC	1 1/4[32]	1 1/4[32]	17	15[381]	2 1/2[64]	12 1/2[318]	18	40
Z8701-PC	1 1/4[32]	1 1/2[38]	17	10 1/2[267]	3[76]	7 1/2[191]	12	24
Z8701-9-PC	1 1/4[32]	1 1/2[38]	17	12[305]	3[76]	9[229]	12	24
Z8701-15-PC	1 1/4[32]	1 1/2[38]	17	15[381]	3[76]	12[305]	18	42
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Z8702-15-PC*	1 1/2[38]	1 1/2[38]	17	15[381]	3[76]	12[305]	18	42
Z8703B-PC**	1 1/2[38]	2[51]	17	12 1/2[318]	3 1/2[89]	9[229]	6	18
Z8704B-PC**	2[51]	2[51]	17	12 1/2[318]	3 1/2[89]	9[229]	6	18
Z8706-PC	1 1/4[32]	1 1/4[32]	20	10[254]	2 1/2[64]	7 1/2[191]	12	24
Z8707-PC	1 1/4[32]	1 1/2[38]	20	10 1/2[267]	3[76]	7 1/2[191]	12	24
Z8708-PC*	1 1/2[38]	1 1/2[38]	20	10 1/2[267]	3[76]	7 1/2[191]	12	24

#### OPTIONAL ACCESSORIES

Suffix	Description
✓ -B	Brass Nuts
-BX	Box Escutcheon
-CE	Cast Brass Escutcheon with Setscrew
✓ -D	Deep Escutcheon (Note = not available for Z8703B-PC and Z8704B-PC)
-J	Metal to Metal Ground Joint Connection
-WC	Waste Connections - Compression
-15	15[381] C Dim. 1 1/4[32] and 1 1/2[38] Only
-18	18[457] C Dim. 1 1/4[32] and 1 1/2[38] Only

\* COMES WITH OPTIONAL 1-1/2" x 1-1/4" REDUCTION POLY-WASHER FOR INLET

\*\* SHIPPED WITH BRASS NUTS UNLESS OTHERWISE SPECIFIED

ZURN INDUSTRIES, LLC ♦ COMMERCIAL BRASS OPERATION ♦ 2640 SOUTH WORK STREET ♦ FALCONER NY 14733

Phone: 1-800-997-3876 ♦ Fax: 1-919-775-3541 ♦ www.zurn.com

In Canada: ZURN INDUSTRIES LIMITED ♦ 3544 Nashua Drive ♦ Mississauga, Ontario L4V1L2 ♦ Phone: 905/405-8272 Fax: 905/405-1292

## LBD6407-1 Double Sink



### Specification:

Double compartment sink with faucet ledge. 20 gauge, type 302, 18-8 stainless steel. Self rimming. Exposed surfaces are satin finished. Spillway® between bowls. Undercoated to reduce condensation and resonance. Complete with factory applied rim seal, Universal Installation System hardware, cutout template and 3 1/2" crumb cup waste assembly, location center back.

**Compartment Size:** 16" x 14" x 7" (41 cm x 36 cm x 18 cm)

**Overall Size:** 20 1/2" x 31 1/4" (52 cm x 79 cm)

### Faucet hole drilling options:

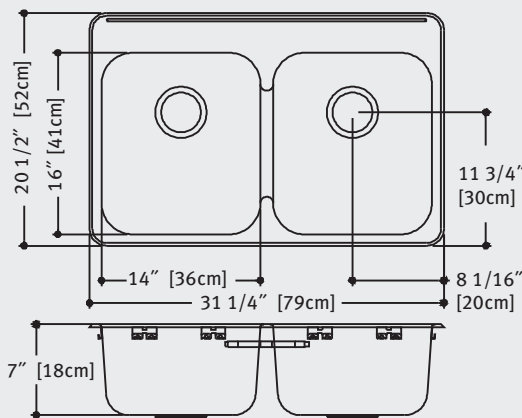
- ☐ LBD6407-1/1 1 hole, 1 1/2" diameter
- ☒ LBD6407-1/3 3 hole, 1 1/2" diameter, 4" centers, 8" centerset
- ☐ LBD6407-1/4 4 hole, as 3 hole above, plus 1 hole 4" to the right
- ☐ LBD6407-1 Custom (non-returnable)

\*For custom please specify drilling requirements.

### Notes:

- Electronic specifications, reference [www.kindred-sinkware.com](http://www.kindred-sinkware.com)

NOTE: Comes with 1130 waste assembly w/ tailpiece



cUPC®

### PROJECT INFORMATION

Project Name: \_\_\_\_\_

Item Reference: \_\_\_\_\_

Location: \_\_\_\_\_

Quote #: \_\_\_\_\_

Faucet Model #: \_\_\_\_\_

Drillings Required: \_\_\_\_\_

Notes: \_\_\_\_\_

# MECHANICAL FAUCETS

## 1100-L9VPAXKABCP

### Manual Faucets

#### Product Type

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

#### Features & Specifications

- 8" Fixed Centers
- 9-1/2" L Type Swing Spout
- 2.2 GPM (8.3 L/min) Vandal Proof Aerator
- 2" Vandal Proof Canopy Single Wing Handle
- Ceramic 1/4 Turn Operating Cartridge
- 1/2" NPSM Supply Inlets and Coupling Nut for 3/8" or 1/2" Flexible Riser
- ECAST® design provides durable construction with total lead content equal to or less than 0.25% by weighted average
- 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
- Certified to NSF/ANSI 61, Section 9 by CSA
- ADA ANSI/ICC A117.1

**NOTE:** This fitting is not intended to be sold in California after January 1, 2016

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

Item Number \_\_\_\_\_

Section/Tag \_\_\_\_\_

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

Architect \_\_\_\_\_

Engineer \_\_\_\_\_

Contractor \_\_\_\_\_

☐ Submitted as Shown      ☐ Submitted with Variations

Date \_\_\_\_\_


**ECAST**

ECAST products are intended for installation where state laws and local codes mandate lead content levels or in any location where lead content is a concern.

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



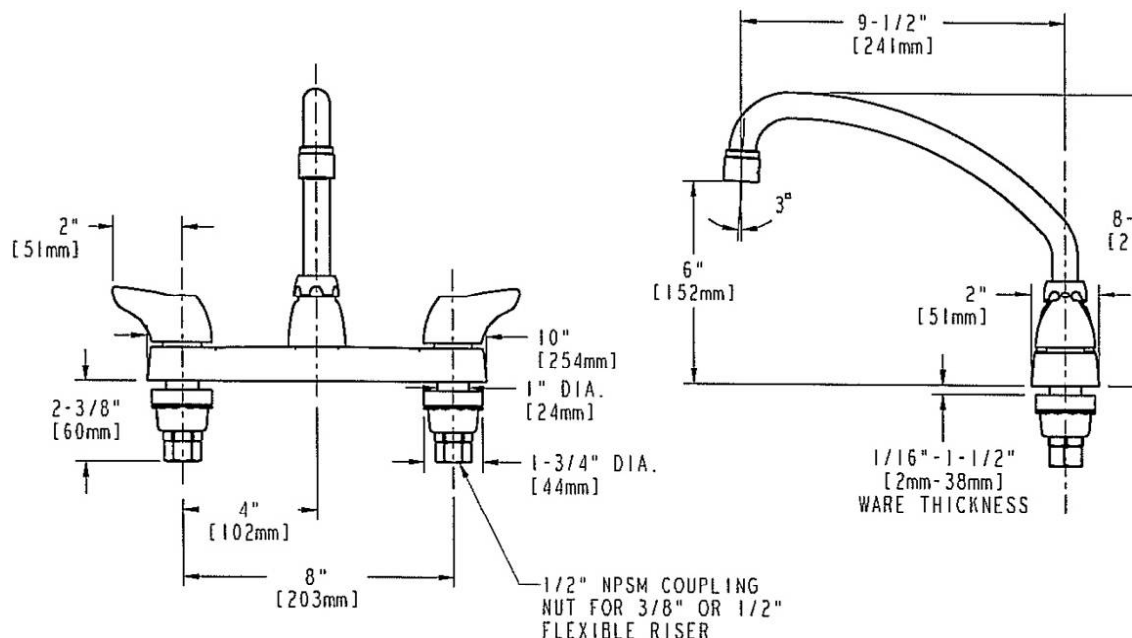
# 1100-L9VPAXKABCP

## Manual Faucets



### Architect/Engineer Specification

Chicago Faucets No. 1100-L9VPAXKABCP, Sink Faucet for hot and cold water, deck-mounted with 8" fixed centers, chrome plated. L-Type swing spout, 9-1/2" center-to-center. 2.2 GPM (8.3 L/min) pressure compensating vandal-proof Softflo aerator. 2" metal, vandal-proof, canopy, single-wing handles with secured blue and red index buttons. Ceramic quarter-turn cartridge, features square, tapered stem. 1/2" NPSM supply inlets and coupling nut for 3/8" or 1/2" flexible riser. ECAST® construction with less than 0.25% lead content by weighted average. This product meets ADA ANSI/ICC A117.1 requirements and is tested and certified to industry standards: ASME A112.18.1/CSA B125.1, and Certified to NSF/ANSI 61, Section 9 by CSA. This product meets ADA ANSI/ICC A117.1 requirements and is tested and certified to industry standards: ASME A112.18.1/CSA B125.1, and Certified to NSF/ANSI 61, Section 9 by CSA.



### Operation and Maintenance

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



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)



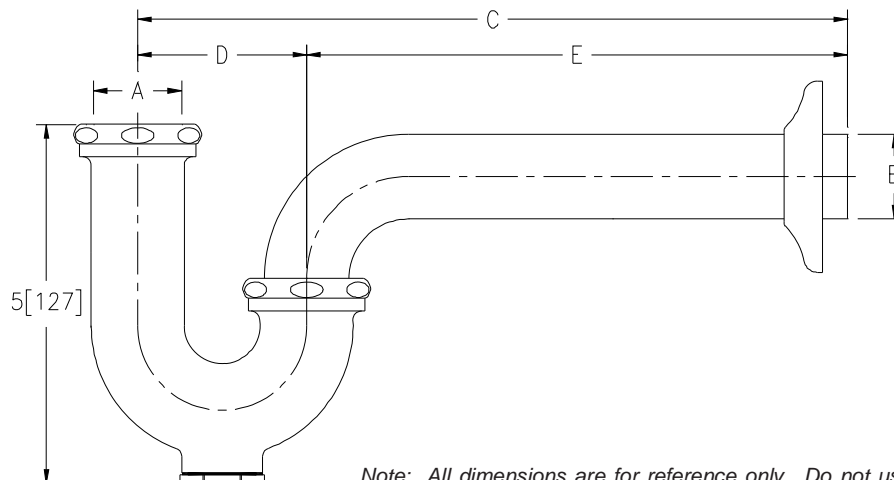
# SEMI-CAST P-TRAPS WITH WALL BEND

## Z8700-PC TO Z8708-PC

### TAG



**Engineering Specification:** Zurn Z8700-PC to Z8708-PC. – Chrome-plated cast brass (copper alloy) body P-trap with cleanout, tubular brass wall bend as specified, die-cast nuts, and shallow escutcheon with compression inlet.



Note: All dimensions are for reference only. Do not use for pre-plumbing.

PRODUCT NUMBER	A INLET in[mm]	B OUTLET in[mm]	GAUGE	DIMENSIONS			MASTER CARTON	WEIGHT CARTON [lbs]
				C in[mm]	D in[mm]	E in[mm]		
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Z8708-PC*	1 1/2[38]	1 1/2[38]	20	10 1/2[267]	3[76]	7 1/2[191]	12	24

#### OPTIONAL ACCESSORIES

Suffix	Description
✓ -B	Brass Nuts
-BX	Box Escutcheon
-CE	Cast Brass Escutcheon with Setscrew
✓ -D	Deep Escutcheon (Note = not available for Z8703B-PC and Z8704B-PC)
-J	Metal to Metal Ground Joint Connection
-WC	Waste Connections - Compression
-15	15[381] C Dim. 1 1/4[32] and 1 1/2[38] Only
-18	18[457] C Dim. 1 1/4[32] and 1 1/2[38] Only

\* COMES WITH OPTIONAL 1-1/2" x 1-1/4" REDUCTION POLY-WASHER FOR INLET

\*\* SHIPPED WITH BRASS NUTS UNLESS OTHERWISE SPECIFIED

ZURN INDUSTRIES, LLC ♦ COMMERCIAL BRASS OPERATION ♦ 2640 SOUTH WORK STREET ♦ FALCONER NY 14733

Phone: 1-800-997-3876 ♦ Fax: 1-919-775-3541 ♦ www.zurn.com

In Canada: ZURN INDUSTRIES LIMITED ♦ 3544 Nashua Drive ♦ Mississauga, Ontario L4V1L2 ♦ Phone: 905/405-8272 Fax: 905/405-1292

**Specification:**

ADA compliant. Single compartment sink with faucet ledge. 20 gauge, type 302, 18-8 stainless steel. Self rimming. Exposed surfaces are satin finished. Undercoated to reduce condensation and resonance. Includes factory applied rim seal, cutout template, Universal Installation System hardware and waste assembly, location center.

**Compartment Size:** 9 1/4" x 11 5/8" x 6" (23cm x 30cm x 15cm)

**Overall Size:** 13 3/4" x 13 5/8" (35cm x 35cm)

**Waste Options:**

-1 = 3 1/2" (89mm) crumb cup waste assembly.

-3 = 1 1/2" (38mm) duplex waste assembly, with rubber stopper.

**3 1/2" waste**

☐ LBS9106-1/1

☐ LBS9106-1/2

☐ LBS9106-1

**1 1/2" waste**

☐ LBS9106-3/1

☐ LBS9106-3/2

☐ LBS9106-3

**Faucet hole drilling options**

**1 hole, 1 1/2" diameter**

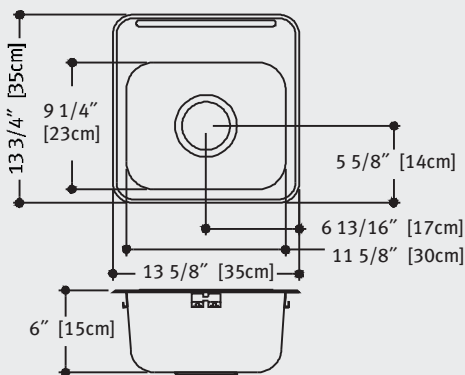
2 hole, 1 1/2" diameter, 4" centers

Custom (non-returnable)

**\*For custom please specify drilling requirements.**

**Notes:**

- Electronic specifications, reference [www.kindred-sinkware.com](http://www.kindred-sinkware.com)
- The model as constructed is subject to the interpretation of local building codes. Check ADA, local wheelchair accessibility guidelines and local building codes to ensure the unobstructed knee space is achieved after installation.



cUPC®

**PROJECT INFORMATION**

Project Name: \_\_\_\_\_

Item Reference: \_\_\_\_\_

Location: \_\_\_\_\_

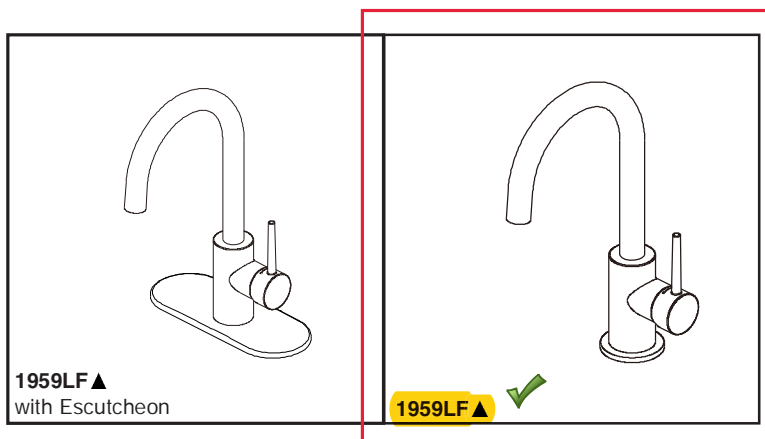
Quote #: \_\_\_\_\_

Faucet Model #: \_\_\_\_\_

Drillings Required: \_\_\_\_\_

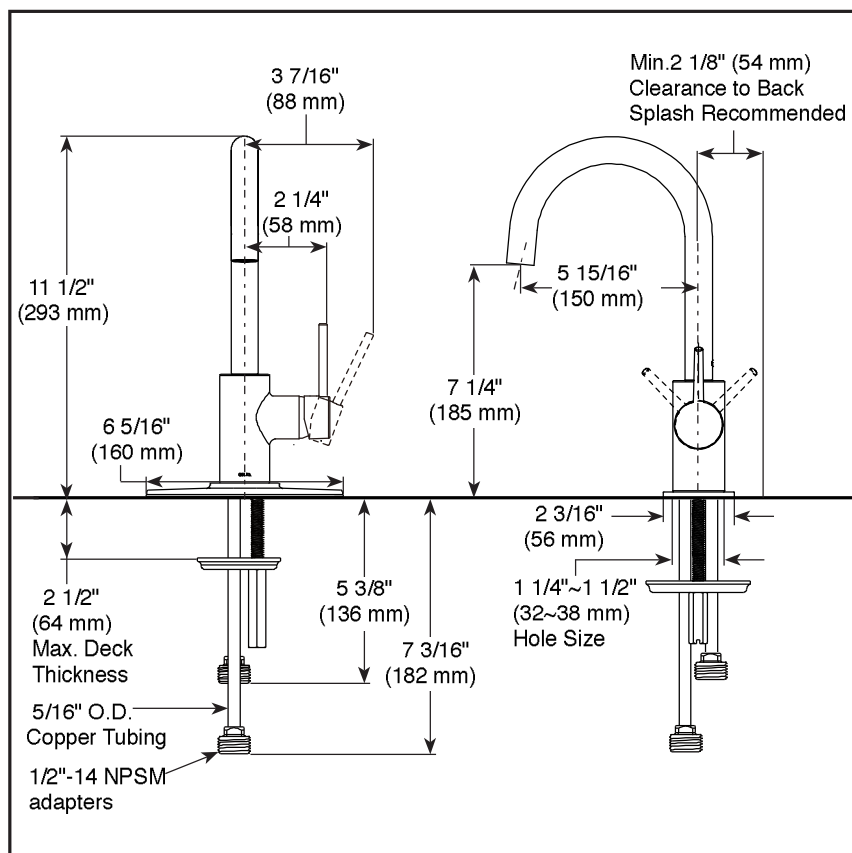
Notes: \_\_\_\_\_

Franke Kindred Canada Limited  
1000 Franke Kindred Road, Midland, Ontario, Canada L4R 4K9  
web [www.kindred-sinkware.com](http://www.kindred-sinkware.com) email [info@kindred-sinkware.com](mailto:info@kindred-sinkware.com)  
Telephone 1-866-687-7465 Fax 1-800-361-8408



Submitted Model No.: \_\_\_\_\_

Specific Features: \_\_\_\_\_



▲ Designate proper finish suffix



see what Delta can do™

## BAR & PREP SINK FAUCETS

- Contemporary
- Single Handle Deck Mount

### STANDARD SPECIFICATIONS

- One or three hole mount (escutcheon optional, not included)
- Max flow rate 1.5 gpm @ 60 psi, 5.7 L/min @ 414 kPa
- Solid brass fabricated body
- Spout rotates 120°
- Hot/Cold logo on handle to indicate temperature
- Ceramic disc cartridge
- 5/16" staggered copper supply lines with 1/2" adapters
- ADA compliant lever handle
- Order RP77702 for optional escutcheon
- Order RP1001 for coordinating soap dispenser

### WARRANTY

- Parts and Finish - Lifetime limited warranty; or for commercial purchasers, 10 years for multi-family residential (apartments and condominiums) and 5 years for all other commercial uses, in each case from the date of purchase.
- Electronic Parts and Batteries (if applicable) - 5 years from the date of purchase; or for commercial purchasers, 1 year from the date of purchase. No warranty is provided on batteries.

### COMPLIES WITH:

- ASME A112.18.1 / CSA B125.1
- Indicates compliance to ICC/ANSI A117.1

Delta reserves the right (1) to make changes in specifications and materials, and (2) to change or discontinue models, both without notice or obligation. Dimensions are for reference only. See current full-line price book or [www.deltafaucet.com](http://www.deltafaucet.com) for finish options and product availability.

### Delta Faucet Company

55 E. 111th Street, Indianapolis, IN 46280  
350 South Edgeware Road, St. Thomas, ON N5P 4L1  
© 2019 Delta Faucet Company





## Model 570 Thermostatic Mixing Valve for Point of Use Controlled Fixtures Unit No. 86820

### CAPACITIES – MODEL 570-3/8"

Pressure Drop PSI	5	10	20	40
Valve Number	Capacity			
570-GPM	3	4	5	6.5
570-LPM	11	15	19	25

The mixing valve for point of use mixing fixtures shall be a lead free brass thermostatic mixing valve. The mixing valve shall be 3/8" Compression Fit. The mixing valve shall have a spindle to adjust outlet temperature. The mixing valve shall have internal checks. The mixing valve shall be Lawler model 570.

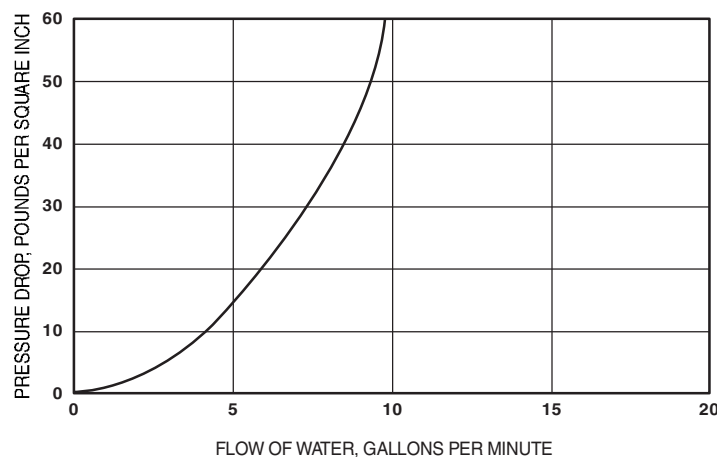
### Specifications

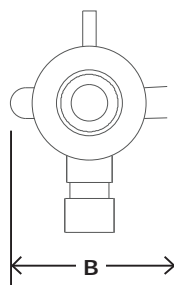
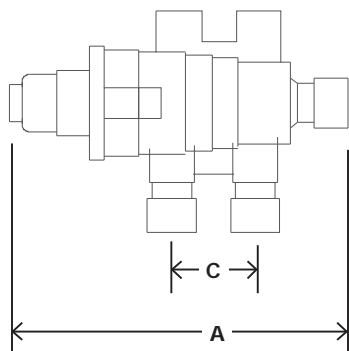
- Outlet temperature range: 95-115°F (35-46°C).
- Temperature, hot supply: 180°F max. (91°C).
- Temperature, cold supply: 40-80°F (4-27°C).
- Temperature stability (nominal): ±5°F (±3°C).
- Temperature differential (between hot supply and outlet temperature): 10°F (11°C).
- Hydrostatic pressure: 125 psi max. (1000 kPa).
- Permitted supply pressure variation: ±20%.
- Flow rate @ 45psi pressure loss: 7 gpm (26L/min).
- Flow rate, minimum: .25 gpm (4L/min).
- Flow rate, maximum: 8 gpm (30L/min).

### Benefits

- Protects against scalding and chilling.
- Offers choice of temperature settings from 95° through 115°F.
- Easy installation.
- Backed by Lawler's One Year Warranty.

FLOW CAPACITIES - MODEL 570





## Model 570 Unit No. 86820

### Temperature Adjustment

To adjust the mixed outlet temperature of the valve, remove the cap to gain access to the adjusting spindle. The spindle should be rotated-clockwise to reduce the temperature, counter-clockwise to increase the temperature until the desired set point is reached.

### DIMENSIONS

Valve Number	A	B	C
570	4-7/8"	1-3/4"	1-1/8"

Dimensions are for reference purposes only. For rough-in dimensions please refer to Lawler's Revit/BIM models found at [temperedwater.com](http://temperedwater.com).

Inlets & outlet are 3/8" compression fittings.

### Fitting the Valve

The mixed water outlet from the valve should be used to supply outlets used primarily for personal hygiene purposes.

It is recommended that the valve is installed as close as possible to the point of use; however, it may be fitted anywhere on the hot water supply pipe.



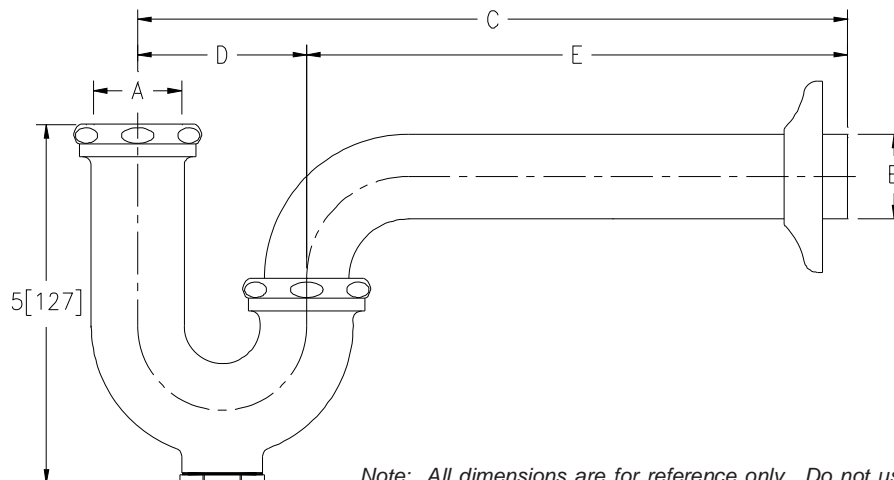
# SEMI-CAST P-TRAPS WITH WALL BEND

## Z8700-PC TO Z8708-PC

### TAG



**Engineering Specification:** Zurn Z8700-PC to Z8708-PC. – Chrome-plated cast brass (copper alloy) body P-trap with cleanout, tubular brass wall bend as specified, die-cast nuts, and shallow escutcheon with compression inlet.



Note: All dimensions are for reference only. Do not use for pre-plumbing.

PRODUCT NUMBER	A INLET in[mm]	B OUTLET in[mm]	GAUGE	DIMENSIONS			MASTER CARTON	WEIGHT CARTON [lbs]
				C in[mm]	D in[mm]	E in[mm]		
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Z8703B-PC**	1 1/2[38]	2[51]	17	12 1/2[318]	3 1/2[89]	9[229]	6	18
Z8704B-PC**	2[51]	2[51]	17	12 1/2[318]	3 1/2[89]	9[229]	6	18
Z8706-PC	1 1/4[32]	1 1/4[32]	20	10[254]	2 1/2[64]	7 1/2[191]	12	24
Z8707-PC	1 1/4[32]	1 1/2[38]	20	10 1/2[267]	3[76]	7 1/2[191]	12	24
Z8708-PC*	1 1/2[38]	1 1/2[38]	20	10 1/2[267]	3[76]	7 1/2[191]	12	24

#### OPTIONAL ACCESSORIES

Suffix	Description
✓ -B	Brass Nuts
-BX	Box Escutcheon
-CE	Cast Brass Escutcheon with Setscrew
✓ -D	Deep Escutcheon (Note = not available for Z8703B-PC and Z8704B-PC)
-J	Metal to Metal Ground Joint Connection
-WC	Waste Connections - Compression
-15	15[381] C Dim. 1 1/4[32] and 1 1/2[38] Only
-18	18[457] C Dim. 1 1/4[32] and 1 1/2[38] Only

\* COMES WITH OPTIONAL 1-1/2" x 1-1/4" REDUCTION POLY-WASHER FOR INLET

\*\* SHIPPED WITH BRASS NUTS UNLESS OTHERWISE SPECIFIED

ZURN INDUSTRIES, LLC ♦ COMMERCIAL BRASS OPERATION ♦ 2640 SOUTH WORK STREET ♦ FALCONER NY 14733

Phone: 1-800-997-3876 ♦ Fax: 1-919-775-3541 ♦ www.zurn.com

In Canada: ZURN INDUSTRIES LIMITED ♦ 3544 Nashua Drive ♦ Mississauga, Ontario L4V1L2 ♦ Phone: 905/405-8272 Fax: 905/405-1292

# MOLDED-STONE® MOP SERVICE BASIN



**MSB 2424** ✓  
**MSB 3624**

## Molded-Stone® Mop Service Basin

### FEATURES



#### MSB 2424

The MSB 2424 shall have overall outside dimensions of 24" x 24" x 10". The molding shall be done in matched metal dies under heat and pressure resulting in a one-piece homogeneous product. The unit shall have 10" high walls with not less than 1" wide.

The stainless steel drain body is designed to provide for a caulk connection or QDC-3 joint to a 3" drain pipe. A combination dome strainer and lint basket made from stainless steel shall be included with factory installed stainless steel drain body for caulked joint to accept a 3" pipe.



#### MSB 3624

The MSB 3624 shall have overall outside dimensions of 36" x 24" x 10". The molding shall be done in matched metal dies under heat and pressure resulting in a one-piece homogeneous product. The unit shall have 10" high walls with not less than 1" wide shoulders and an integrally molded shelf 10 5/16" wide where indicated.

The stainless steel drain body is designed to provide for a caulk connection or QDC-3 joint to a 3" drain pipe. A combination dome strainer and lint basket made from stainless steel shall be included with factory installed stainless steel drain body for caulked joint to accept a 3" pipe.

### NOTES

### OPTIONS

- ✓ Service Faucet (830-AA): Chrome plated with vacuum breaker, integral stops, adjustable wall brace, pail hook and 3/4" hose thread on spout.
- ✓ Hose and Hose Bracket (832-AA)
  - Mop Hanger (889-CC)
  - Alternate Strainer (1453-BB) - For residential use (EFS-3624 and EFS-2424)
  - 3" Quick Drain Connector (QDC-3XH): Neoprene connecting gasket suitable for attaching extra heavy cast iron soil pipe and Schedule 40 steel pipe to the drain body. Neoprene connecting gasket (QDC-3SN) suitable for attaching hubless cast iron pipe (no hub, nominal O.D. of 3.31") and service weight cast iron soil pipe (nominal O.D. of 3.38") to the drain body.
  - Silicone Sealant (833-AA)
  - Vinyl Bumperguard (E-77-AA)
  - Stainless Steel Bumperguard (E-88-AA)
  - Stainless Steel Wall Guard (MSG2424, MSG2828, MG3232, MSG3636, and MSG3624) ✓

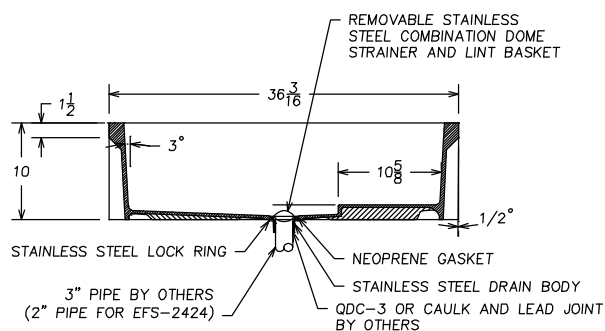
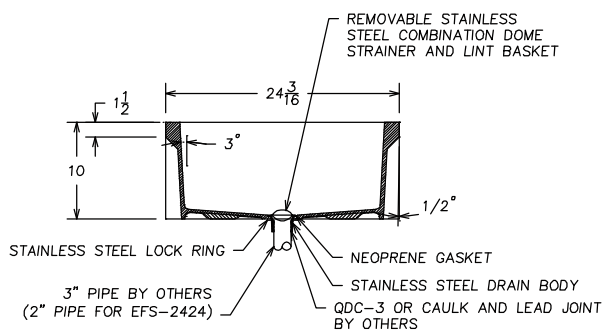
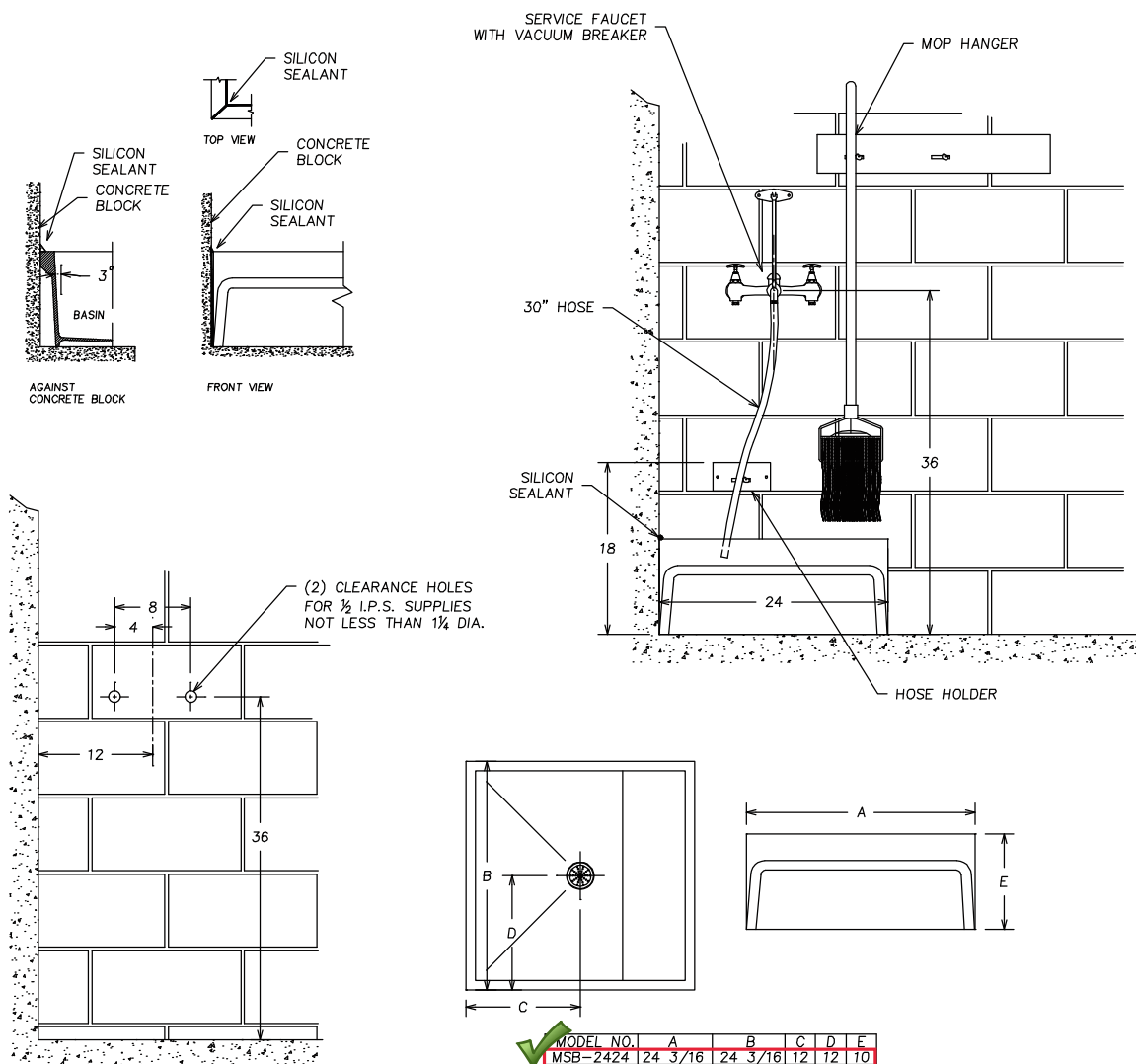


**FIAT PRODUCTS®**  
ACRANE PLUMBING COMPANY

# MOLDED-STONE® MOP SERVICE BASIN

## MSB 2424 ✓ MSB 3624

Molded-Stone® Mop Service Basin

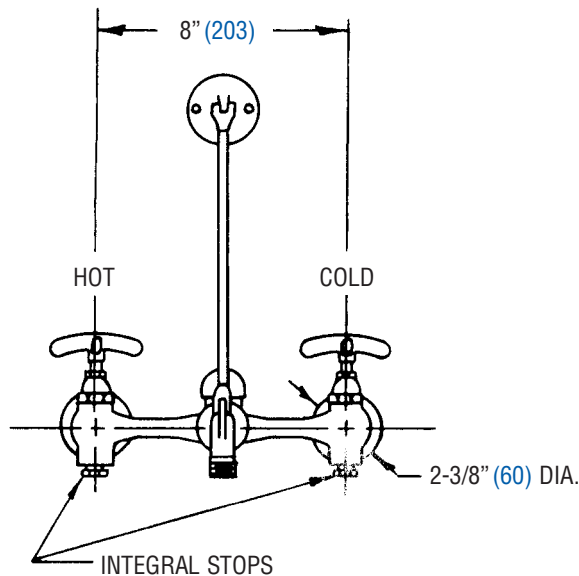
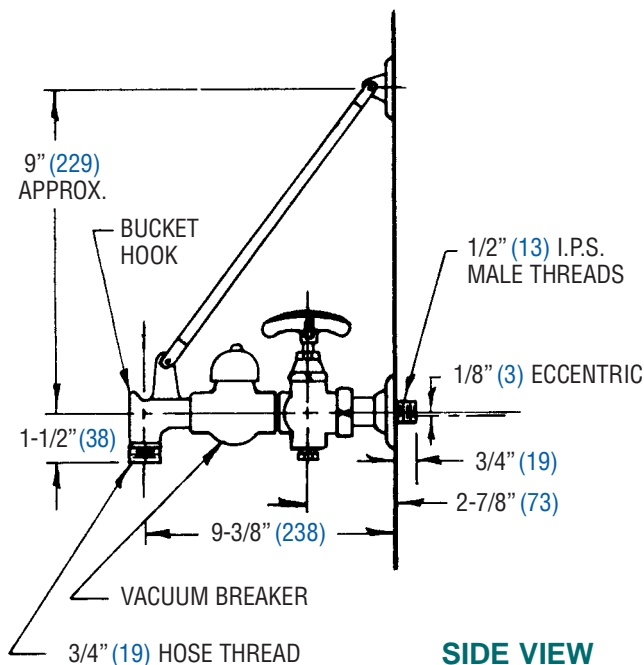


**FIAT PRODUCTS**  
A CRANE PLUMBING COMPANY

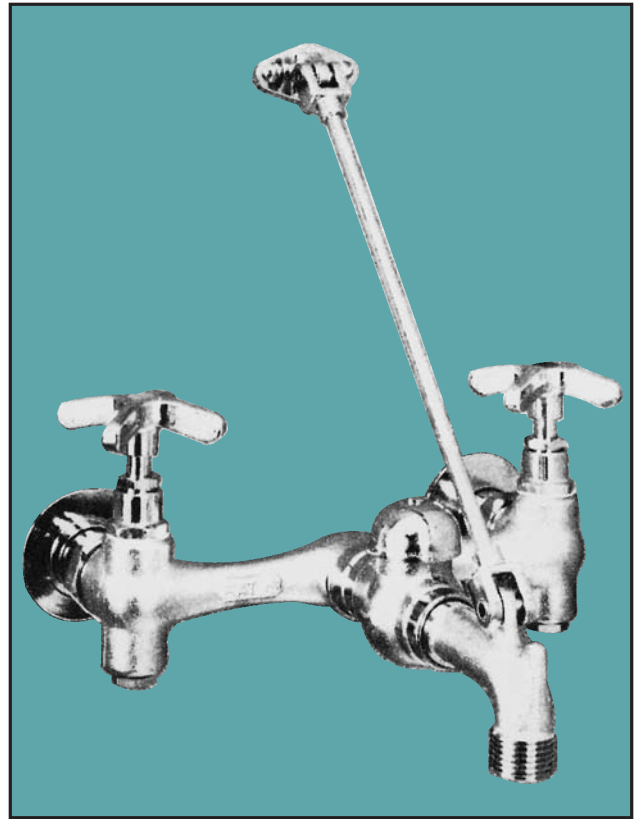
**IMPORTANT:** Roughing-in dimensions may vary 1/2" and are subject to change or cancellation without prior notice.

CR/PL© 04/03 Printed in U.S.A

# Service-Sink Faucet Model: 830-AA

**FIAT**®

**FRONT VIEW**

**SIDE VIEW**

**NOTE:** These roughing measurements may vary 1/4" (plus or minus).


**General:**

830-AA Service Faucet - Chrome plated with vacuum breaker, integral stops, adjustable wall brace, pail hook and 3/4" hose thread on spout. Body inlets 8" center to center, four arm handles. Valves contain renewable hub, renewable seats, swivel discs, encased washers and brass washer screws.

**Material:  
Finish:**

Commercial red brass alloy casting-rough finish.

Chrome plating exceeding requirements of ANSI/ASTM B-456-71. Indicators cold (blue) and hot (red) are included.

**Specifications  
and  
Codes:**

In the U.S.A., meets or exceeds requirements of ANSI-A112.18.1M-1979 for "Finished and Rough Brass Plumbing Fixture Fittings." In Canada, meets or exceeds the requirements of CSA standards B125 - "Plumbing Fittings," B64.1.1 - "Vacuum Breakers - Atmosphere Type" and B64.0 - "General Requirements for Backflow Preventers and Vacuum Breakers," and is approved under Product Class No. 6811 01 under Report #LM57412-1. Conforms to ASSE 1001.

 **FIAT PRODUCTS**®  
A CRANE PLUMBING COMPANY

255 Hutchings St. • Winnipeg, MB • R2X 2R4 • Ph. 800-665-7531 • 204-633-6122 • Fx. 204-632-4854  
e-mail: [info@fiat.ca](mailto:info@fiat.ca) • website: [www.fiat.ca](http://www.fiat.ca)

A subsidiary of CR/PL, L.L.C. Company - Evanston, IL



# H OSE AND HOSE BRACKET

832-AA



## FEATURES

- GENERAL:** Long flexible, heavy duty  $\frac{5}{8}$ " rubber hose (30"). Cloth reinforced with  $\frac{3}{4}$ " brass coupling at one end. Bracket is 5" long x 3" wide, stainless steel with rubber grip. Hose and Hose Bracket are used with the 36" x 24" x 10" Molded-Stone Mop Service Basin with Shelf (MSB-3624) and the 24" x 24" x 10" Molded-Stone Mop Services Basin less Shelf (MSB-2424).

## NOTES

## OPTIONS



**FIAT PRODUCTS**  
ACRANE PLUMBING COMPANY





## FEATURES

- GENERAL:**  
 Model No. 889-CC is 24" long x 3" wide, stainless steel with three (3) rubber tool grips. This is used with the 36" x 24" x 10" Molded-Stone Mop Service Basin with Shelf (MSB-3624) and the 24" x 24" x 10" Molded-Stone Mop Services Basin less Shelf (MSB-2424).

## NOTES

## OPTIONS



**FIAT PRODUCTS**  
 A CRANE PLUMBING COMPANY

# S TAINLESS STEEL WALL GUARDS

✓ MSG2424 , MSG2828  
MSG3232 , MSG3636  
MSG3624



## FEATURES

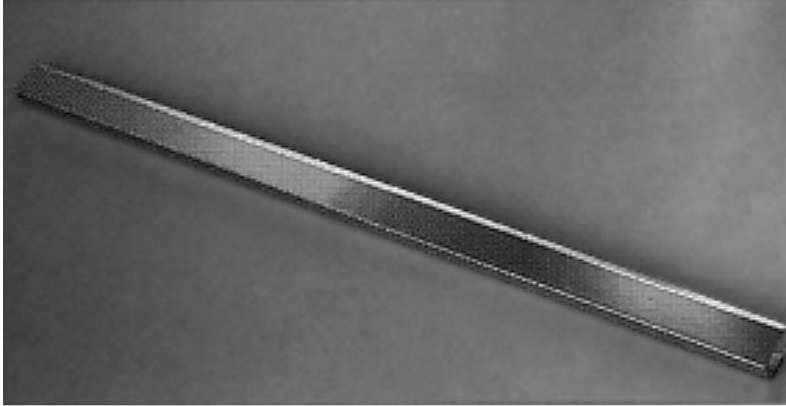
- **GENERAL:** Model No.s MSG2424, MSG2828, MSG3232, MSG3636 and MSG3624 are used with the 36" x 24" x 10" Molded-Stone Mop Service Basin with Shelf (MSB-3624) and the 24" x 24" x 10" Molded-Stone Mop Services Basin less Shelf (MSB-2424). ✓

## NOTES

## OPTIONS



**FIAT PRODUCTS**  
ACRANE PLUMBING COMP ANY



### FEATURES

- **GENERAL:** Model No. E-88-AA lengths are 24" or 36". These bumperguards are used with the 36" x 24" x 10" Molded-Stone Mop Service Basin with Shelf (MSB-3624) and the 24" x 24" x 10" Molded-Stone Mop Services Basin less Shelf (MSB-2424).

### NOTES

### OPTIONS



**FIAT PRODUCTS**  
ACRANE PLUMBING COMPANY

## For Water Heater and Hot Water Storage Tank Applications

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

Contractor \_\_\_\_\_

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

Approval \_\_\_\_\_

Engineer \_\_\_\_\_

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

Approval \_\_\_\_\_

Representative \_\_\_\_\_

# LEAD FREE\*

## Series PLT

### Potable Water Expansion Tanks

Series PLT Potable Water Expansion Tanks are designed to absorb the increased volume of water created by thermal expansion and to maintain balanced pressure throughout the potable water supply system.

Heated water expands, and in a domestic hot water system, the system may be closed when the potable water system is isolated from the public water supply by a one-way valve such as pressure reducing valve, backflow preventer or check valve. Provisions must be made for this expansion.

Series PLT expansion tanks absorb the increased volume of water created when the hot water storage tank is heated and keeps the system pressure below the relief setting of the T&P relief valve.

It is a pre-pressurized steel tank with an expansion membrane that prevents contact of the water with the air in the tank. This prevents loss of air to the water and insures long and trouble-free life for the system. These tanks may be used with all types of Direct Fired Hot Water Heaters (gas, oil or electric) and hot water storage tanks.

### Features

- Rugged flexible butyl diaphragm
- Field adjustable pre-charge
- In-line and free standing models
- Can be used with most standard hot water heaters and storage tanks

### Models

✓ T-5-M1 has 3/4" male connection, tank volume 2.1 gal.  
 ✓ PLT-12-M1 has 3/4" male connection, tank volume 4.5 gal.  
 PLT-20-M1 has 3/4" male connection, tank volume 8.5 gal.  
 PLT-35-M1 has 1" female connection, tank volume 14.00 gal.

### Specifications

The potable water expansion tank shall be of drawn steel construction. It shall have a Butyl diaphragm separating the air chamber from the water containing chamber. Inlet connector shall be Stainless Steel. Materials of manufacture for the diaphragm shall be FDA approved.

The potable water expansion tank shall be a Watts Model PLT.

**\*The wetted surface of this product contacted by consumable water contains less than one quarter of one percent (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.



### Standards

Models PLT-5, PLT-12 and PLT-20

are Listed by IAPMO.

Certified to ANSI/NSF 61

**Model PLT-35**

Certified to ANSI/NSF 61



(73°F/23°C)

**Note:** The potable water expansion tank shall be installed in the cold water service pipe line on the supply side of the water heater (or water storage tank). A pressure relief valve sized and installed in accordance with local codes must be incorporated in the system.

In those systems requiring a combined temperature and pressure safety relief valve, the temperature and pressure relief valve should be sized and installed in accordance with local codes. Adequate drainage provisions should be provided where water flow will cause damage.

See chart on back

# WATTS®

## Selection

This Quick Reference Selection Guide may be used as an alternative to using a formula to determine the correct expansion tank for the system. This table is based upon a relief valve setting of 150psi (10.3 bar), and a maximum of 50°F temperature rise.

To select the correct model PLT series tank, simply go the supply pressure equal to the system supply pressure (for pressures between those shown use next highest supply pressure shown), read across the chart to the correct tank as indicated by the water heater capacity (for capacities between those shown, use next highest capacity).

To accommodate the thermal expansion required for higher temperature and/or higher pressure systems, multiple tanks may be used. Please contact the factory for sizing information.

SUPPLY PRESSURE (PSIG)	WATER HEATER (GALLONS)						
	20	30	40	50	80	100	120
40							
50							
55							
60							
70							
80							
90							
100							
110							
120							

PLT-5

PLT-20

PLT-12

PLT-35

Multiple tanks required - consult factory

## Materials

Diaphragm: Butyl rubber

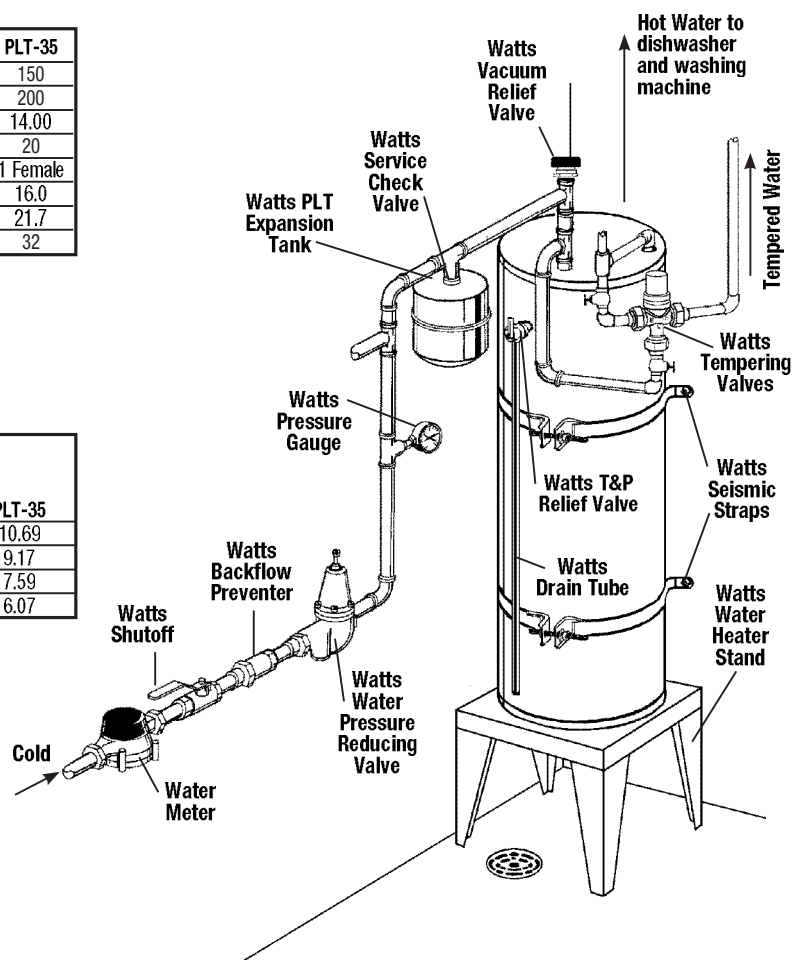
Inlet Connection: Stainless Steel

## Technical Information

Description	PLT-5	PLT-12	PLT-20	PLT-35
Max. Pressure - PSI	150	150	150	150
Max. Temp. - °F	200	200	200	200
Tank Volume - Gal.	2.1	4.5	8.5	14.00
Air Pre-charge - PSI	20	20	20	20
Connections Size - Inches	¾ Male	¾ Male	¾ Male	1 Female
Diameter - Inches	8	10.5	12.5	16.0
Length - Inches	11	13.5	19.2	21.7
Weight - Lbs.	5.5	10	15	32

## Acceptance Volume

Air Side Pre-pressure (psi)	Water Side Volume at 150psi (gallons)			
	PLT-5	PLT-12	PLT-20	PLT-35
20	1.48	3.42	7.102	10.69
40	1.26	2.88	5.882	9.17
60	1.0	2.49	4.705	7.59
80	.8	1.85	4.009	6.07



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A Watts Water Technologies Company



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CERTIFIED

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## For Water Heater and Hot Water Storage Tank Applications

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

Contractor \_\_\_\_\_

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

Approval \_\_\_\_\_

Engineer \_\_\_\_\_

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

Approval \_\_\_\_\_

Representative \_\_\_\_\_

# LEAD FREE\*

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Heated water expands, and in a domestic hot water system, the system may be closed when the potable water system is isolated from the public water supply by a one-way valve such as pressure reducing valve, backflow preventer or check valve. Provisions must be made for this expansion.

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It is a pre-pressurized steel tank with an expansion membrane that prevents contact of the water with the air in the tank. This prevents loss of air to the water and insures long and trouble-free life for the system. These tanks may be used with all types of Direct Fired Hot Water Heaters (gas, oil or electric) and hot water storage tanks.

### Features

- Rugged flexible butyl diaphragm
- Field adjustable pre-charge
- In-line and free standing models
- Can be used with most standard hot water heaters and storage tanks

### Models

- ✓ PLT-5-M1 has 3/4" male connection, tank volume 2.1 gal.
- PLT-12-M1 has 3/4" male connection, tank volume 4.5 gal.
- PLT-20-M1 has 3/4" male connection, tank volume 8.5 gal.
- PLT-35-M1 has 1" female connection, tank volume 14.00 gal.

### Specifications

The potable water expansion tank shall be of drawn steel construction. It shall have a Butyl diaphragm separating the air chamber from the water containing chamber. Inlet connector shall be Stainless Steel. Materials of manufacture for the diaphragm shall be FDA approved.

The potable water expansion tank shall be a Watts Model PLT.

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

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### Standards

Models **PLT-5, PLT-12 and PLT-20** are Listed by IAPMO.

Certified to ANSI/NSF 61

**Model PLT-35**

Certified to ANSI/NSF 61



(73°F/23°C)

**Note:** The potable water expansion tank shall be installed in the cold water service pipe line on the supply side of the water heater (or water storage tank). A pressure relief valve sized and installed in accordance with local codes must be incorporated in the system.

In those systems requiring a combined temperature and pressure safety relief valve, the temperature and pressure relief valve should be sized and installed in accordance with local codes. Adequate drainage provisions should be provided where water flow will cause damage.

See chart on back

# WATTS®

## Selection

This Quick Reference Selection Guide may be used as an alternative to using a formula to determine the correct expansion tank for the system. This table is based upon a relief valve setting of 150psi (10.3 bar), and a maximum of 50°F temperature rise.

To select the correct model PLT series tank, simply go the supply pressure equal to the system supply pressure (for pressures between those shown use next highest supply pressure shown), read across the chart to the correct tank as indicated by the water heater capacity (for capacities between those shown, use next highest capacity).

To accommodate the thermal expansion required for higher temperature and/or higher pressure systems, multiple tanks may be used. Please contact the factory for sizing information.

## Materials

Diaphragm: Butyl rubber

Inlet Connection: Stainless Steel

SUPPLY PRESSURE (PSIG)	WATER HEATER (GALLONS)						
	20	30	40	50	80	100	120
40							
50							
55							
60							
70							
80							
90							
100							
110							
120							

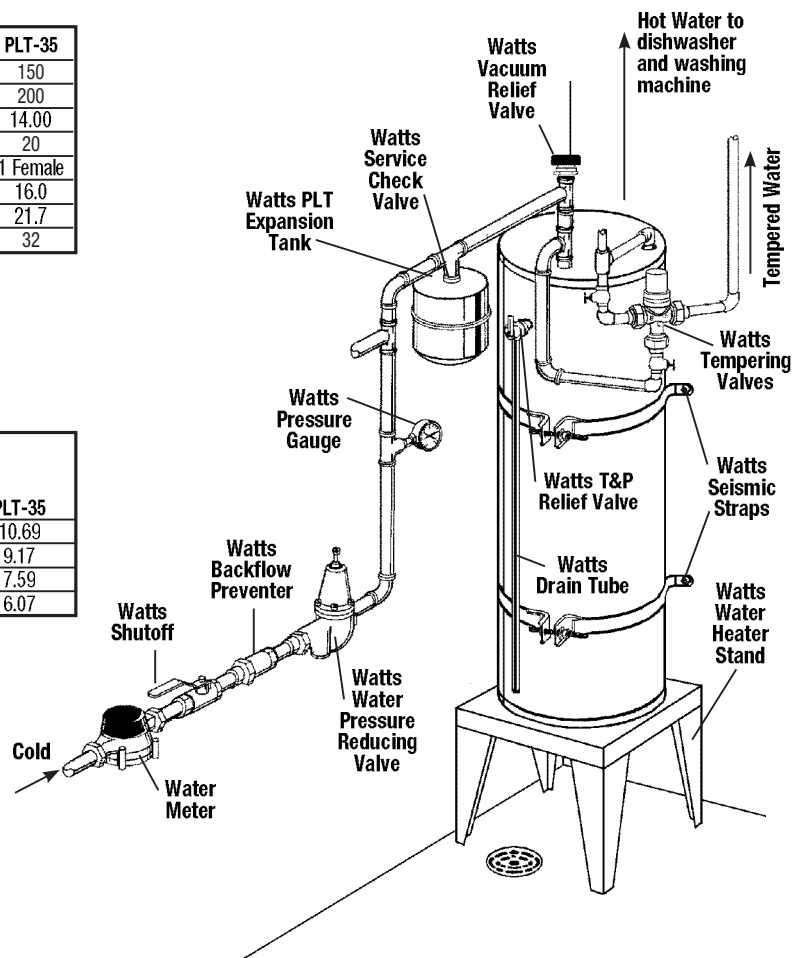
	PLT-5		PLT-20
	PLT-12		PLT-35
	Multiple tanks required - consult factory		

## Technical Information

Description	PLT-5	PLT-12	PLT-20	PLT-35
Max. Pressure - PSI	150	150	150	150
Max. Temp. - °F	200	200	200	200
Tank Volume - Gal.	2.1	4.5	8.5	14.00
Air Pre-charge - PSI	20	20	20	20
Connections Size - Inches	¾ Male	¾ Male	¾ Male	1 Female
Diameter - Inches	8	10.5	12.5	16.0
Length - Inches	11	13.5	19.2	21.7
Weight - Lbs.	5.5	10	15	32

## Acceptance Volume

Air Side Pre-pressure (psi)	PLT-5	PLT-12	PLT-20	PLT-35
20	1.48	3.42	7.102	10.69
40	1.26	2.88	5.882	9.17
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80	.8	1.85	4.009	6.07



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Canada: Burlington, ONT. (905) 332-4090 • Fax: (905) 332-7068 • [www.wattscanada.ca](http://www.wattscanada.ca)



# ASTRO 2 HOT WATER RE-CIRCULATION SYSTEM | SUBMITTAL

File No: 10.585  
 Date: MARCH 30, 2022  
 Supersedes: 10.585  
 Date: JULY 14, 2015

Job: \_\_\_\_\_ Representative: \_\_\_\_\_  
 \_\_\_\_\_ Ordered by: \_\_\_\_\_ Date: \_\_\_\_\_  
 Engineer: \_\_\_\_\_ Submitted by: \_\_\_\_\_ Date: \_\_\_\_\_  
 Contractor: \_\_\_\_\_ Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

QUANTITY	TAG NO.	MODEL NO.	FLOW (USgpm)	HEAD (feet)	COMMENTS

## TECHNICAL DATA

**Power connection:** 6.0 ft (1.8 m) power cord, molded duplex plug with ground

**Environment:** Indoor use only

**Max. working pressure:** 150 PSI (1034 kpa)

**Ambient temperature:** 39°F (4°C) to 104°F (40°C)

**Max. water temperature:** 230°F (110°C)

**Low temperature switchpoint**®: 85°F (29°C) ± 10%

**High temperature switchpoint**®: 105°F (40°C) ± 10%

**Clock/timer:** 12 hour analog clock with AM/PM indication

**Timer settings:** Individual mechanical toggles for each 15 minute interval over 24 hours

**Manual override:** 3 position slide switch, ON/OFF/AUTO

Approvals:  listed

NSF-372 certified

### NOTE:

- ① High/low temperature switchpoints are as measured on pipe surface with the Aquastat (TA models only).

## HOT WATER RE-CIRCULATION SYSTEM APPLICATIONS

Armstrong Astro 2 hot water re-circulation systems automatically circulate water through domestic hot water distribution pipes. This helps to ensure that everyone in the household has 'instant' hot water at the tap when they need it, while also helping to conserve water and save water heating energy costs. All systems are assembled, wired, tested and then shipped from the factory, ready for installation.

## MATERIALS OF CONSTRUCTION (Wetted parts)

**Pump casing:** Stainless steel\* (ss models)

**Pump shaft:** Ceramic

**Impeller:** Noryl

**Bearings:** Ceramic

### NOTE:

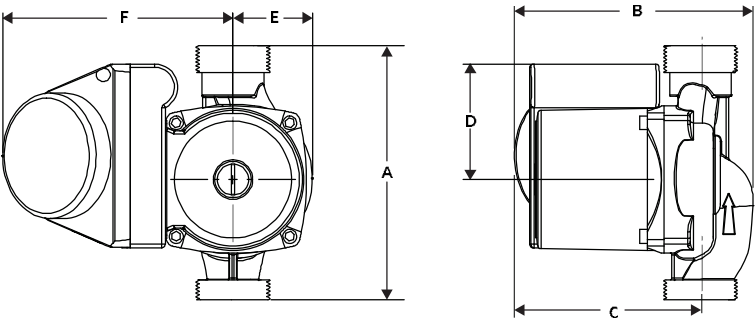
- \* Complies with section 116875 at the California Health and Safety/Code and Vermont Act 193 (Lead content of wetted surface is 0.25% or less)

DIMENSIONS

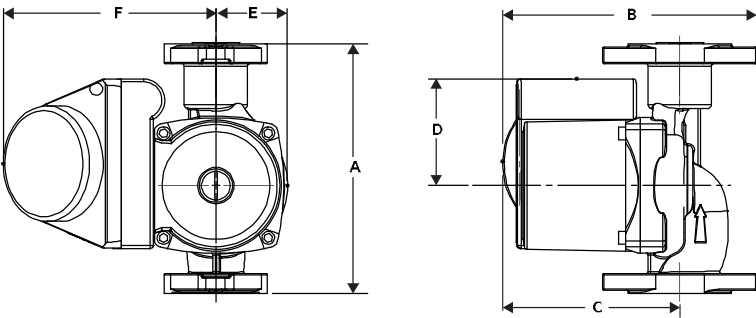
MODEL	A	B	C	D	E	F
ASTRO 220/225SSU	5.98 (152)	5.62 (143)	4.38 (111)	2.72 (69)	1.87 (48)	5.43 (138)
ASTRO 230/250SS	6.38 (162)	6.49 (165)	4.52 (115)	2.72 (69)	1.82 (46)	5.43 (138)

NOTE: All dimensions are in inches (mm)

ASTRO 220/225SSU



ASTRO 230/250SS

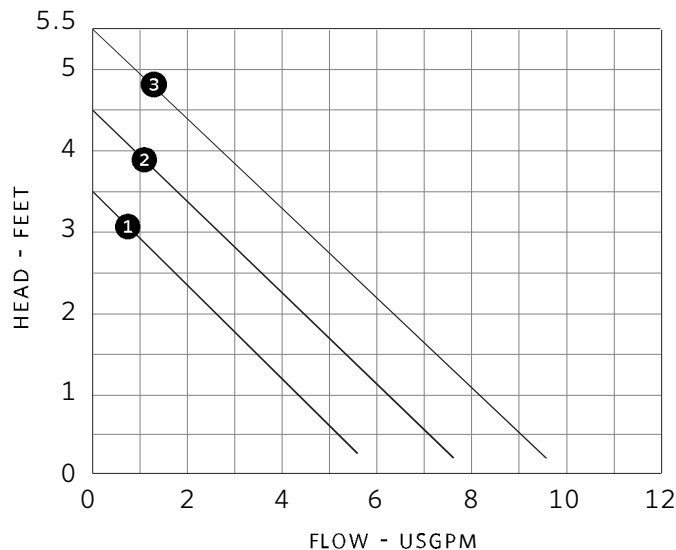


ITEM	MODEL	CONNECTION	SIZE	CORD	TIMER	AQUASTAT	ELECTRICAL DATA	WEIGHT
110223B-140	ASTRO 220SSU050S-TA*	Sweat	½"	✓	✓	✓	115 Vac, 60 Hz, 0.29 A, 33W	7.50 (3.40)
110223B-141	ASTRO 220SSU075S-TA*	Sweat	¾"	✓	✓	✓	115 Vac, 60 Hz, 0.29 A, 33W	7.50 (3.40)
110223B-144	ASTRO 220SSU-TA	NPSM union	1¼"	✓	✓	✓	115 Vac, 60 Hz, 0.29 A, 33W	7.50 (3.40)
110223B-145	ASTRO 225SSU-TA	NPSM union	1¼"	✓	✓	✓	115 Vac, 60 Hz, 0.69 A, 83W	7.50 (3.40)
110223B-148	ASTRO 230SS-TA	2 bolt flange	2 bolt flange	✓	✓	✓	115 Vac, 60 Hz, 0.81 A, 97W	10.00 (4.54)
110223B-149	ASTRO 250SS-TA	2 bolt flange	2 bolt flange	✓	✓	✓	115 Vac, 60 Hz, 0.98 A, 117W	10.00 (4.54)
110223B-240	ASTRO 220SSU050S-T*	Sweat	½"	✓	✓	—	115 Vac, 60 Hz, 0.29 A, 33W	7.50 (3.40)
110223B-241	ASTRO 220SSU075S-T*	Sweat	¾"	✓	✓	—	115 Vac, 60 Hz, 0.29 A, 33W	7.50 (3.40)
110223B-244	ASTRO 220SSU-T	NPSM union	1¼"	✓	✓	—	115 Vac, 60 Hz, 0.29 A, 33W	7.50 (3.40)
110223B-245	ASTRO 225SSU-T	NPSM union	1¼"	✓	✓	—	115 Vac, 60 Hz, 0.69 A, 83W	7.50 (3.40)
110223B-248	ASTRO 230SS-T	2 bolt flange	2 bolt flange	✓	✓	—	115 Vac, 60 Hz, 0.81 A, 97W	10.00 (4.54)
110223B-249	ASTRO 250SS-T	2 bolt flange	2 bolt flange	✓	✓	—	115 Vac, 60 Hz, 0.98 A, 117W	10.00 (4.54)
110223-340	ASTRO 220SSU050S-LC*	Sweat	½"	✓	—	—	115 Vac, 60 Hz, 0.29 A, 33W	7.00 (3.18)
110223-341	ASTRO 220SSU075S-LC*	Sweat	¾"	✓	—	—	115 Vac, 60 Hz, 0.29 A, 33W	7.00 (3.18)
110223-344	ASTRO 220SSU-LC	NPSM union	1¼"	✓	—	—	115 Vac, 60 Hz, 0.29 A, 33W	7.00 (3.18)
110223-345	ASTRO 225SSU-LC	NPSM union	1¼"	✓	—	—	115 Vac, 60 Hz, 0.69 A, 83W	7.00 (3.18)
110223-348	ASTRO 230SS-LC	2 bolt flange	2 bolt flange	✓	—	—	115 Vac, 60 Hz, 0.81 A, 97W	9.00 (4.08)
110223-349	ASTRO 250SS-LC	2 bolt flange	2 bolt flange	✓	—	—	115 Vac, 60 Hz, 0.98 A, 117W	9.00 (4.08)

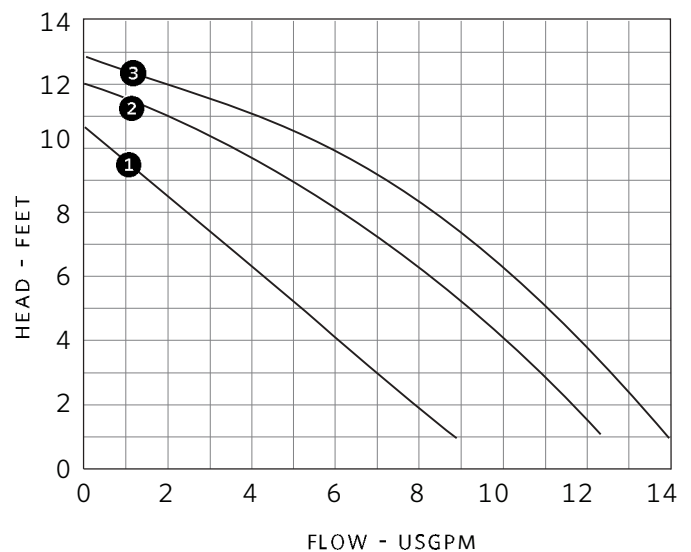
**NOTE:** All weights are in lbs. (kg) \*Union model with sweat hardware kit.

## PERFORMANCE CURVE

**ASTRO 220SS**



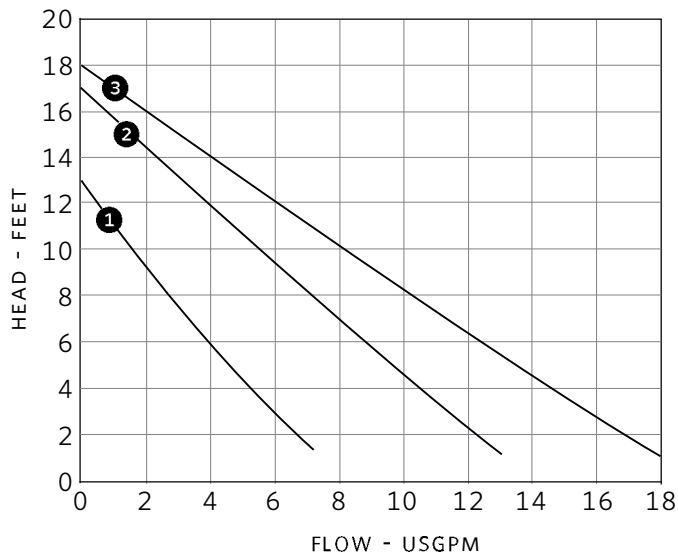
**ASTRO 225SS**



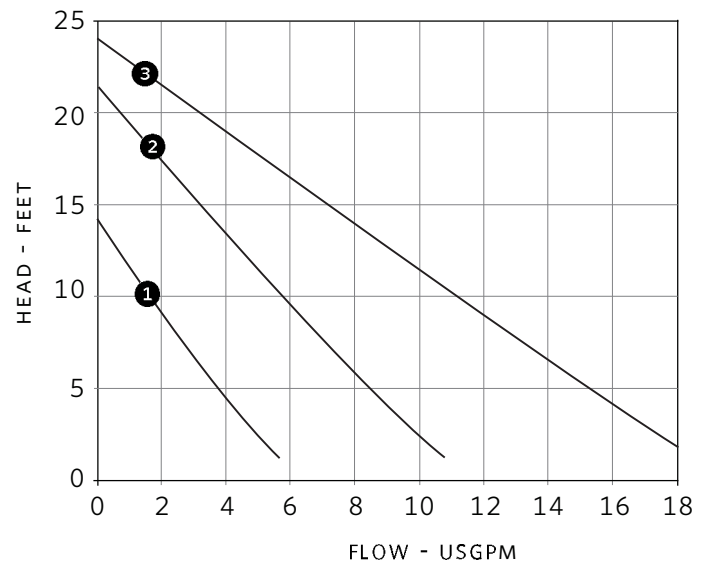
ASTRO 2 Hot water  
re-circulation systems

4

#### ASTRO 230SS



#### ASTRO 250SS



#### TORONTO

+1 416 755 2291

#### BUFFALO

+1 716 693 8813

#### DROITWICH SPA

+44 8444 145 145

#### MANCHESTER

+44 8444 145 145

#### BANGALORE

+91 80 4906 3555

#### SHANGHAI

+86 21 5237 0909

#### SÃO PAULO

+55 11 4785 1330

#### LYON

+33 4 26 83 78 74

#### DUBAI

+971 4 887 6775

#### MANNHEIM

+49 621 3999 9858

#### JIMBOLIA

+40 256 360 030

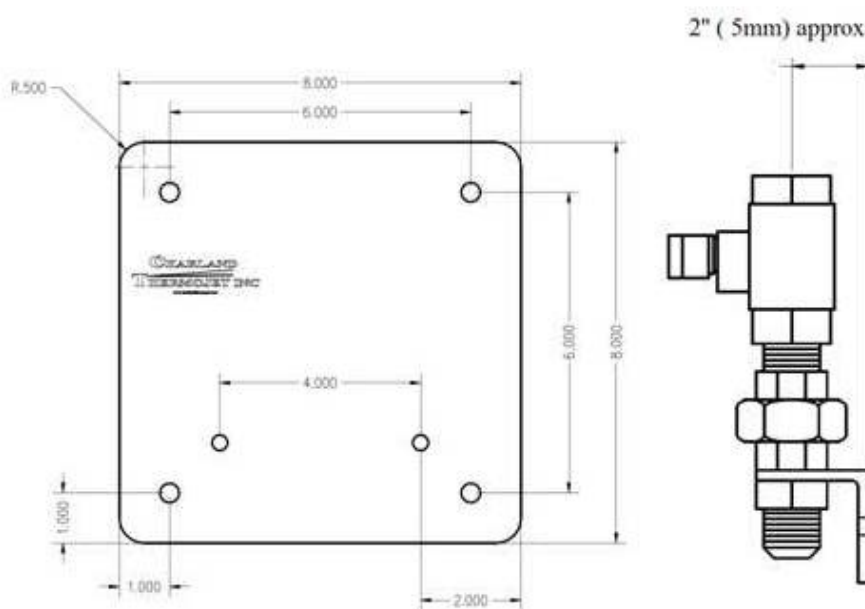
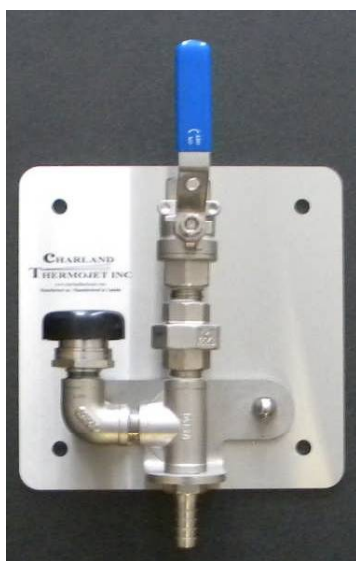
ARMSTRONG FLUID TECHNOLOGY  
ESTABLISHED 1934

ARMSTRONGFLUIDTECHNOLOGY.COM

P2249-1

**MODEL NL-553-BV-VB-050-P8X8****P/N: NL-553-012**

**Simple washing station 1/2'' (12.7mm) for hot or cold water with ball valve and vacuum breaker.**

**FEATURES**

- Maximum operating pressure: 150 PSI (1034 kPa).
- Maximum operating temperature: 200°F (93°C).
- Required water pressure: 0 à 150 PSI (0 à 1034 kPa).
- High quality ball valve made of stainless steel.
- **Inlet 1/2'' (12.7mm) female NPT, Outlet 1/2'' (12.7mm) female NPT.**
- Rigid stainless steel bracket.
- Vacuum breaker brass chrome.

Stainless steel plate 8''(20.32mm) x 8''(20.32mm) x 1/8''(0.04mm) finished # 4

For more information or any question please contact us.

# CHARLAND THERMOJET INC

Mixing units, wash down and hoses station

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## GARDEN HOSE COUPLINGS & ADAPTERS

### 'Y' COUPLINGS



GHT-1001



GHT-1002



GHT-1003



GHT-1004



GHT-1005



GHT-1006

PART NO.	DESCRIPTION	PRICE EACH
GHT-1001	FORGED BRASS	10.90 \$
GHT-1002	CAST ZINC	6.50 \$
GHT-1003	FORGED BRASS WITH VALVES	17.70 \$
GHT-1004	GREY PLASTIC WITH VALVES	4.10 \$
GHT-1005	GREY PLASTIC WITH VALVES, HEAVIER PATTERN	5.45 \$
GHT-1006	CAST ZINC WITH VALVES	10.90 \$

### GARDEN HOSE WASHERS



GHT-101



GHT-102



GHT-103

PART NO.	DESCRIPTION	PRICE EACH
GHT-101	RUBBER	0.20 \$
GHT-102	STAINLESS SCREEN	0.55 \$
GHT-103	VINYL	0.21 \$

### SWIVEL FEMALE COUPLING



PART NO.	DESCRIPTION	PRICE EACH
GHT-1007B	BRASS GHT	6.60 \$
GHT-1007BC	BRASS CHROME GHT	8.60 \$

### LONG SHANK MALE GARDEN INSERT



**BRASS  
BRASS CHROME  
AND  
STAINLESS STEEL**

PART NO.	DESCRIPTION	PRICE EACH
GHT-2001B	1/2" BRASS	7.70 \$
GHT-2001BC	1/2" BRASS CHROME	9.70 \$
<b>GHT-2001SS</b>	<b>1/2" STAINLESS STEEL</b>	<b>14.70 \$</b>
GHT-2002B	5/8" BRASS	7.70 \$
GHT-2002BC	5/8" BRASS CHROME	9.70 \$
<b>GHT-2002SS</b>	<b>5/8" STAINLESS STEEL</b>	<b>14.70 \$</b>
GHT-2003B	3/4" BRASS	7.70 \$
GHT-2003BC	3/4" BRASS CHROME	9.70 \$
<b>GHT-2003SS</b>	<b>3/4" STAINLESS STEEL</b>	<b>14.70 \$</b>

### LONG SHANK FEMALE GARDEN HOSE INSERT



**BRASS  
BRASS CHROME  
AND  
STAINLESS STEEL**

PART NO.	DESCRIPTION	PRICE EACH
GHT-3001B	1/2" BRASS	8.40 \$
GHT-3001BC	1/2" BRASS CHROME	10.40 \$
<b>GHT-3001SS</b>	<b>1/2" STAINLESS STEEL</b>	<b>26.40 \$</b>
GHT-3002B	5/8" BRASS	8.40 \$
GHT-3002BC	5/8" BRASS CHROME	10.40 \$
<b>GHT-3002SS</b>	<b>5/8" STAINLESS STEEL</b>	<b>26.40 \$</b>
GHT-3003B	3/4" BRASS	8.40 \$
GHT-3003BC	3/4" BRASS CHROME	10.40 \$
<b>GHT-3003SS</b>	<b>3/4" STAINLESS STEEL</b>	<b>26.40 \$</b>

### MALE COUPLING



PART NO.	DESCRIPTION	PRICE EACH
GHT-1008B	BRASS GHT	4.20 \$
GHT-1008BC	BRASS CHROME GHT	6.20 \$

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P2249-1

## GARDEN HOSE COUPLINGS & ADAPTERS

### MALE GHT TO MALE PIPE



PART NO.	DESCRIPTION	PRICE EACH
GHT-1708B	BRASS GHT X 1/4" NPT	6.80 \$
GHT-1708BC	BRASS CHROME GHT X 1/4" NPT	9.00 \$
GHT-1709B	BRASS GHT X 3/8" NPT	7.00 \$
GHT-1709BC	BRASS CHROME GHT X 3/8" NPT	9.20 \$
GHT-1710B	BRASS GHT X 1/2" NPT	6.30 \$
GHT-1710BC	BRASS CHROME GHT X 1/2" NPT	8.50 \$
<b>GHT-1710SS</b>	<b>STAINLESS STEEL GHT X 1/2"</b>	<b>19.80 \$</b>
GHT-1720BC	BRASS CHROME GHT X 3/4"	8.80 \$
<b>GHT-1720SS</b>	<b>STAINLESS STEEL GHT X 3/4"</b>	<b>26.40 \$</b>

### BRASS NOZZLE FEMALE GHT

### NOZZLES WITHOUT SHUT-OFFS

GHT-3000-B



GHT-3001-B



PART NO.	DESCRIPTION	PRICE EACH
GHT-3000B	MINIATURE BRASS TAPERED NOZZLE WITH 1/8" ORIFICE	4.20 \$
GHT-3001B	LONG BRASS TAPERED NOZZLE WITH 1/4" ORIFICE	11.40 \$

### TWIST SHUT-OFF NOZZLES

GHT-3020-B



GHT-3021-B



GHT-3022-B



PART NO.	DESCRIPTION	PRICE EACH
GHT-3020B	MINIATURE BRASS TWIST NOZZLE	9.50 \$
GHT-3021B	4" LONG BRASS TWIST NOZZLE	5.40 \$
GHT-2022B	ILMOUR HEAVY-DUTY TWIST NOZZLE WITH RUBBER GRIP	16.50 \$

### GREEN PLASTIC FOG NOZZLE

GHT-4020-GP



PART NO.	DESCRIPTION	PRICE EACH
GHT-4020-GP	MINIATURE BRASS TWIST NOZZLE	18.40 \$

### PISTOL GRIP NOZZLES

GHT-4030



GHT-4031



GHT-4032



PART NO.	DESCRIPTION	PRICE EACH
GHT-4030	STANDARD NOZZLE, TEAL COLOR	12.10 \$
GHT-4031	THREADED FRONT & RUBBER CAP	12.90 \$
GHT-4032	BRASS NOZZLE INSERT & RED FOR HOT WATER	15.40 \$

### TRIGGER GUARD NOZZLE

GHT-4052



PART NO.	DESCRIPTION	PRICE EACH
GHT-4052	INSULATED NOZZLE	22.90 \$



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Mélangeurs et Stations à Boyaux

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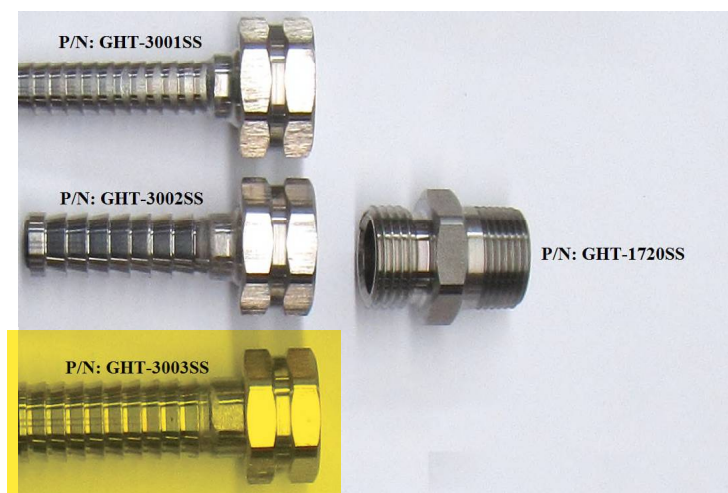
Sans frais Tel : 1-800-624-4709 (514)624-4772 Fax : 624-4776

Courriel : [info@charlandthermojet.com](mailto:info@charlandthermojet.com) Web: [www.charlandthermojet.com](http://www.charlandthermojet.com)

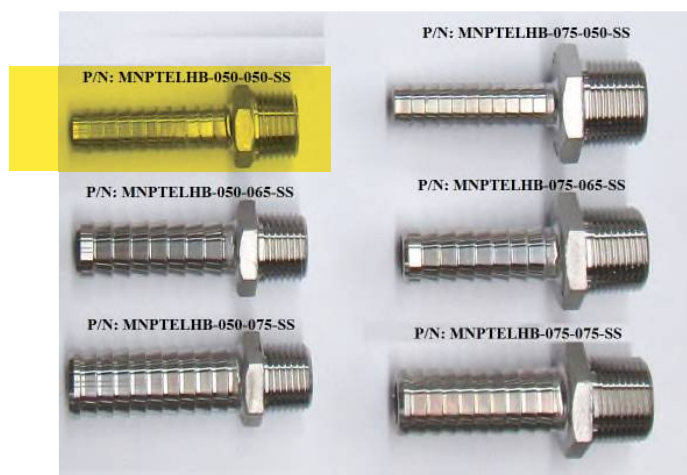
P2249-1

## ADAPTATEURS CHARLAND THERMOJET EN ACIER INOXYDABLE CHARLAND THERMOJET STAINLESS STEEL ADAPTERS

P/N :	DESCRIPTION
GHT-3001SS	1/2" (13mm) BARBILLON 2" (50.8mm) X TYPE JARDINS FEMELLE TOURNANT 3/4" (19mm) 1/2" (13mm) BARB 2" (50.8mm) X GARDEN HOSE TYPE FEMALE SWIVEL 3/4" (19mm)
GHT-3002SS	5/8" (16mm) BARBILLON 2" (50.8mm) X TYPE JARDINS FEMELLE TOURNANT 3/4" (19mm) 5/8" (16mm) BARB 2" (50.8mm) X GARDEN HOSE TYPE FEMALE SWIVEL 3/4" (19mm)
GHT-3003SS	3/4" (19mm) BARBILLON 2" (50.8mm) X TYPE JARDINS FEMELLE TOURNANT 3/4" (19mm) 3/4" (19mm) BARB 2" (50.8mm) X GARDEN HOSE TYPE FEMALE SWIVEL 3/4" (19mm)
GHT-1720SS	3/4" (19mm) MALE NPT X TYPE JARDINS MALE 3/4" (19mm) 3/4" (19mm) MALE NPT X GARDEN HOSE TYPE MALE 3/4" (19mm)



P/N :	DESCRIPTION
MNPTELHB-050-050-SS	1/2" (13mm) MALE NPT X 1/2" (13mm) BARBILLON 2" (BARB) (50.8mm)
MNPTELHB-050-065-SS	1/2" (13mm) MALE NPT X 5/8" (16mm) BARBILLON 2" (BARB) (50.8mm)
MNPTELHB-050-075-SS	1/2" (13mm) MALE NPT X 3/4" (19mm) BARBILLON 2" (BARB) (50.8mm)
MNPTELHB-075-050-SS	3/4" (19mm) MALE NPT X 1/2" (13mm) BARBILLON 2" (BARB) (50.8mm)
MNPTELHB-075-065-SS	3/4" (19mm) MALE NPT X 5/8" (16mm) BARBILLON 2" (BARB) (50.8mm)
MNPTELHB-075-075-SS	3/4" (19mm) MALE NPT X 3/4" (19mm) BARBILLON 2" (BARB) (50.8mm)



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P2249-1

## INDUSTRIAL HOSES FOR GENERAL PURPOSE

High quality industrial hoses for general applications. Perfect for transporting air or liquids depending on the needs. Available in several size.



<b>Applications :</b>	General purpose for air or water line inside or outside.				
<b>Cover :</b>	Red smooth weather and abrasion resistant PVC.				
<b>Reinforcement :</b>	Multiple layers of synthetic yarns.				
<b>Tube :</b>	Black oil resistant PVC blend.				
<b>Temperature :</b>	- 30 °C to 70 °C (-22 °F to 160 °F).				
<b>Nominal I. D.</b>	<b>Nominal O. D.</b>	<b>PSI</b>	<b>WT. (pound)</b>	<b>Standard pkg</b>	<b>Part number</b>
1/4"	0.55"	250	0.13	300'	GP-025-250
3/8"	0.71"	250	0.19	300'	GP-038-250
1/2"	0.87"	250	0.27	300'	GP-050-250
3/4"	1.16"	250	0.42	300'	GP-075-250
1"	1.42"	200	0.54	300'	GP-100-200
1-1/4"	1.73"	150	0.64	100'	GP-125-150
1-1/2"	2.05"	150	0.74	100'	GP-150-150
2"	2.60"	150	1.01	100'	GP-200-150
<b>Cut lengths :</b>	Plus 5%				
<b>Standard Lengths :</b>	1/4" – 1" 50' / 100' / 300'. 1-1/4" – 2" 50' / 100'.				
<b>Recommended couplings</b>	High pressure 1/2"-1" for air service if working pressure exceeds 150 PSI. High pressure, short shank, universal, or combination nipples for all other sizes, or if used in water service.				



For more information or any questions please contact us.

# CHARLAND THERMOJET INC

Mixing units, wash down and hoses stations

16350 Boul. Gouin Ouest, Ste-Geneviève, Québec H9H 1E1

Tool Free Tel : 1-800-624-4709 (514)624-4772 Fax : 624-4776

Email : [charlandthermojet@videotron.ca](mailto:charlandthermojet@videotron.ca) Web: [www.charlandthermojet.com](http://www.charlandthermojet.com)

P2249-1

## RH1300SS Industrial Reels Series

### Heavy Duty Stainless Steel Spring Rewind Reels

Potable Water / Wash down /General Industrial Applications

**To handle 1/4" through 1/2" I.D. hose.**

- *Standard RH1300SS series has marrow frame and compact mounting base.*
- Non Sparking ratchet assembly.
- Declutching arbour to prevent damage from reverse winding.
- Standard inlet 90° ball bearing swivel joint 1/2" female NPT threads.
- Standard outlet 1/2" female NPT threads.
- Standard Pressures to 3000 psi (207 bar) (available up to 10,000 (690 bar)).
- Temperatures from +20° F to +400° F (-7° C to +204° C).
- Consult factory for other pressures & temps.
- 4-way roller assembly.
- Constant Tension is available – consult factory.



Optional  
TR Position

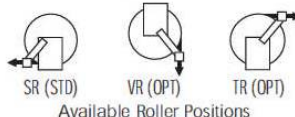
Shown with  
Optional  
Polished Finish

Model Number	Hose Capacity of Reel				Approx. Weight <div>lb kg.</div>		Standard Roller Assy	Reel Dimensions****							
	<div>Feet</div> <div>m</div>	<div>1/4"</div> <div>6</div>	<div>3/8"</div> <div>10</div>	<div>1/2"</div> <div>13</div>				<div>Inches</div> <div>mm.</div>	A	B	C	E	F	G	H
	<div>I.D.(in)</div> <div>I.D. (mm)</div>	<div>5/8"</div> <div>16</div>	<div>3/4"</div> <div>19</div>	<div>7/8"</div> <div>22</div>	NET	SHIP									
	<div>O.D. (in)</div> <div>O.D. (mm)</div>														
RH1301SS	****	***	25 8	25 8	52* 24	70 39	RH102S	10 254	4 102	8 203	17.62 448	11.25 286	16.25 413	9.12 232	8 203
RH1302SS	****	****	35 11	35 11	55* 25	71 32	RH102S	10 254	4 102	10.5 267	18.5 470	11.25 286	17 432	9.12 232	8 203
RH1303SS	****	****	50 15	50 15	64* 29	85 38	RH102S	10 254	4 102	10.5 267	20.75 527	11.25 286	20 508	10.62 270	8 203
RH1304SS	****	100 30	75 23	65 20	94* 43	129 59	RH102S	10 254	4 102	15.5 394	23.75 603	11.25 286	24 610	12.62 321	8 203
RH1305SS	****	****	65 20	65 20	79* 36	96 44	RH102S	10 254	4 102	15.5 394	23.75 603	11.25 286	24 610	12.62 321	8 203
RH1306SS	****	****	75 23	75 23	90 41	125 57	RH102S	10 254	4 102	15.5 394	25.25 641	11.25 286	26 660	13.62 346	8 203
RH1307SS	****	****	100 30	100 30	96 44	131 59	RH104S	12 305	6 152	15.5 394	25.25 641	13.25 337	26 660	13.62 346	10 254

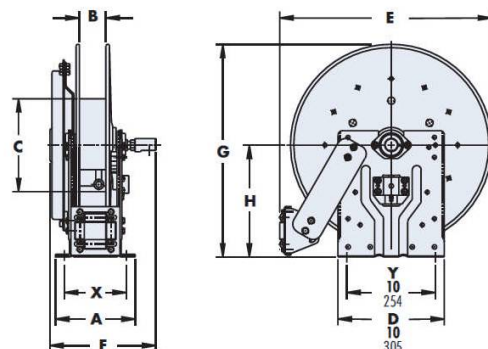
#### Notes:

**Be sure to check dimensions and weights prior to ordering.**

**NOTICE:** A Flexible Connector must be used between the inlet pipe and the inlet swivel joint.



Available Roller Positions



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<b>Reinforcement :</b>	Multiple layers of synthetic yarns.				
<b>Tube :</b>	Black oil resistant PVC blend.				
<b>Temperature :</b>	- 30 °C to 70 °C (-22 °F to 160 °F).				
Nominal I. D.	Nominal O. D.	PSI	WT. (pound)	Standard pkg	Part number
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<b>Standard Lengths :</b>	1/4" – 1" 50' / 100' / 300'. 1-1/4" – 2" 50' / 100'.				
<b>Recommended couplings</b>	High pressure 1/2"-1" for air service if working pressure exceeds 150 PSI. High pressure, short shank, universal, or combination nipples for all other sizes, or if used in water service.				



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## COLLIERS DE SERRAGE AVEC BOUCLE À POINÇON – DE LARGEUR 5/8” *CENTER PUNCH CLAMPS – 5/8” WIDE*



DIAMÈTRE INTÉRIEUR <i>INSIDE DIAMETER</i>	NO DE PIÈCE ACIER INOXYDABLE <i>PART NO STAINLESS STEEL</i>	
1	CPS-04	
1-1/4	CPS-05	
1-1/2	CPS-06	
1-3/4	CPS-07	
2	CPS-08	
2-1/4	CPS-09	
2-1/2	CPS-10	
2-3/4	CPS-11	
3	CPS-12	
3-1/2	CPS-14	
4	CPS-16	
4-1/2	CPS-18	
5	CPS-20	
6	CPS-24	
7	CPS-28	
8	CPS-32	
<b>COLLIERS DE SERRAGE AVEC BANDE DE LARGEUR 3/8” / <i>CENTER PUNCH CLAMPS - 3/8” WIDE</i></b>		
13/16	CPS-03	
1-3/8	CPS-311	
2	CPS-316	



P2249-1

**P/N : : PRE-RINSE-01**

## **Pré-Rinçage Pulvérisateur avec Poignée de Préhension Évier Haute Pression Tête de Pulvérisation pour Robinet de Cuisine Pré-Rinçage Commercial, Fini Chrome**

*Pre-rinse spayer with grip handle high pressure sink kitchen faucet spray head commercial pre-rinse, Chrome finish.*

