

Quality People. Building Solutions.

Comfort Systems USA (Arkansas), Inc. P.O. Box 16620 Little Rock, AR 72231 Phone 501-834-3320 Fax 501-834-5416

Date: 1/17/2024

Return Request: 1/27/2024

Project: Academies of Math & Science Little Rock

Supplier: Sanders Supply **Manufacturer:** Various

Submittal: Plumbing (Fixtures, Equipment, & Specialties)

Submittal Number: 22 01 00-07

Drawing # and Installation: Plumbing Drawings

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CSUSA PROJECT NO. 23-1028

jon@comfortar.com

AMS Charter School

Little Rock, AR

Comfort Systems USA
North Little Rock, AR

Plumbing Submittals

Sanders Supply



Hot Springs, AR

January 12, 2024

AMS Charter School

Plumbing Fixture Schedule Index

<u>TAB</u>	<u>Description</u>
WC-1	Water Closet
WC-2	Water Closet
WC-3	Water Closet ADA
U-1,U-2	Urinal/Urinal ADA
L-1,L-2	Lavatory ADA/Lavatory
L-3	Lavatory ADA
SS-1	Service Sink
S-1	Sink ADA
S-2	Sink ADA
S-3	Sink
FD-1	Floor Drain
FS-1	Floor Sink
FS-2	Floor Sink
FS-3	Floor Sink
HB-1	Hose Bibb Exterior
HB-2	Hose Bibb Interior
EWC-1	Electric Water Cooler/Bottle Filler
RPZ-1	Reduced Pressure Zone Backflow
RPZ-2	Reduced Pressure Zone Backflow

IM-1 Ice Maker Box

GWH-1 Tankless Gas Water Heater

EWH-1,2 Electric Water Heater

EWH-3,4 Electric Water Heater

ET-1 Expansion Tank

RD-1 Roof Drain

RH-1 Roof Hydrant

TH-1 Thermometer

WHA Water Hammer Arrestor

AAV Air Admittance Valve

PRV-1 Pressure Reducing Valve

COTG Cleanout to Grade

WCO Wall Cleanout

FCO Floor Cleanout

WB-1 Washer Box

K-08 Supplies Supplies

Supplies Supplies

WC-1



MADERA YOUTH™ FloWise® 14" HEIGHT ELONGATED FLUSHOMETER TOILET

VITREOUS CHINA

MADERA YOUTH™ FloWise® 14" HEIGHT ELONGATED FLUSHOMETER TOILET

- Floor mount flushometer valve toilet
- · Vitreous china
- High Efficiency, Low Consumption. Operates in the range of 1.28 gpf to 1.6 gpf (4.8 Lpf to 6.0 Lpf)
- Meets definition of HET (High Efficiency Toilet) when used with a high efficiency flush valve (1.28 gpf)
- Fully glazed 2-1/8" trapway
- Elongated bowl
- 10" or 12" roughing-in
- 14" rim height
- Condensation channel
- Powerful direct-fed siphon jet action
- 10" x 12" water surface area
- 1-1/2" inlet spud
- 2 bolt caps
- 100% factory flush tested
- TAS Compliant



SEE REVERSE FOR ROUGHING-IN DIMENSIONS

Component Parts:

- ☐ 047007-0070A Inlet Spud (furnished with bowl)
- → 481310-0200A Bolt caps with retainers (furnished with bowl)

2599.001 Elongated bowl only, top spud

Nominal Dimensions:

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

Fixture only, less seat and flush valve

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

Compliance Certifications -

Meets or Exceeds the Following Specifications:

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

To Be Specified:

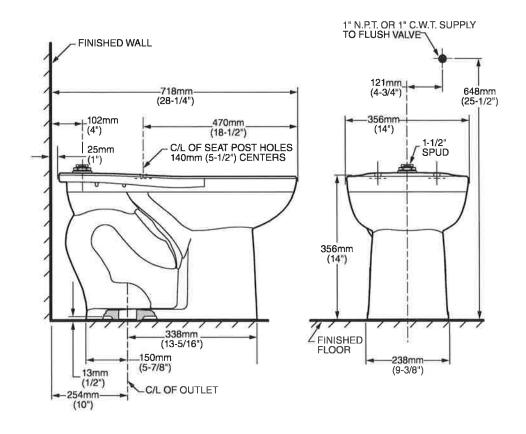
- ☐ Color: ☐ White
- ☐ Seat: TAS compliant seat recommendation
 - ☐ For ages 5 through 8: American Standard #5901.100 Heavy duty open front less cover
 - ☐ For ages 9 through 12: American Standard #5905.100
 Extra heavy duty open front less cover or
 #5910.100 Extra Heavy Duty Plus open front less cover
- ☐ Flushometer Valve:
 - ☐ 1.6 gpf:
 - ☐ Sensor-Operated: American Standard Selectronic® DC Power #6065.161.002 (Top Spud)
 - ☐ Manual: American Standard #6047.161.002 (Top Spud)☐ 1.28 gpf:
 - ☐ Sensor-Operated: American Standard Selectronic®
 DC Power #6065.121.002 (Top Spud)
 - ☐ Manual: American Standard #6047.121.002 (Top Spud)





MADERA YOUTH™ FloWise® 14" HEIGHT ELONGATED FLUSHOMETER TOILET LESS EVERCLEAN®

VITREOUS CHINA



NOTES:
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.

Architectural/Engineering Specification:

Exposed, quiet diaphragm-type, chrome plated flushometer valve with a polished exterior. Complete with a chloramine resistant, dual seal diaphragm with a clog resistant by-pass. The valve is ADA compliant with a nonhold open and no leak handle feature. Internal seals are made of chloramine resistant materials.

Product Features:

- · Control Stop has internal siphon-guard protection, sweat solder kit, wall flange with set screw.
- High back pressure vacuum breaker with one piece hex coupling nut
- · Chloramine resistant Internal seals
- Adjustable tailpiece
- · Spud coupling and flange for top spud connection

Valv	e Height Options:	
	Product No.	A
Ø	Z6000	11 1/2" [292]
	Z6000-1	16" [406]
	Z6000-2	24" [610]
	Z6000-3	27" [686]

Compliance and Certification:

ADA Compliant



*This product should be used with a WaterSense labeled counterpart with a compatible flow volume to ensure that the entire system meets the requirements for water efficiency and performance.



Flow Options:

	Flush Volume	Dual Flush	WaterSense* Labeled
ONE**	1.1 gpf		1
	1.28.gpf	-	1
☑ -WS1	1.6 gpf	1.6/1.1 gpf	
-Standard	3.5 gpt	3.5/2.4 gpf	

Suffix Ontions:

		-
	-BG	BioCare Handle
	-DF	Dual Flush Handle (See Chart Above)
	-H	Handle on Front of Flush Valve
	-L	1" [25] Metal Push Button
	-VC	Vandal Resistant Stop Cover
	-YJ	Split Ring Pipe Support
	-YK	Solid Ring Pipe Support
Upg	rade Opti	ons:

☐ -PL	Aquaflush Plus - includes Vandal Resistant
_	Stop Cover and Proprietary Dezincification
	resistant low lead brass alloy body.
☐ -TFB	Triple Filter By-pass

** Not available w/-TFB

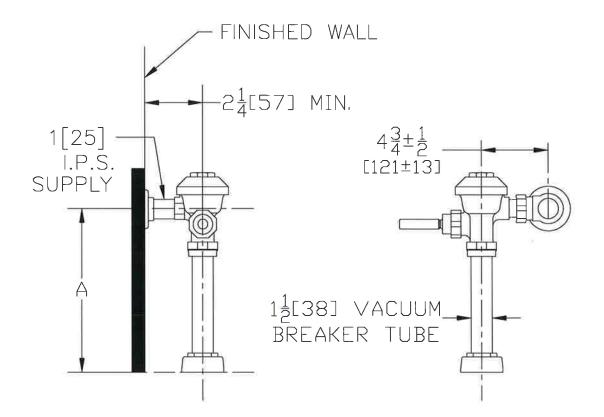
Architectural/Eng	ineering Approva
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The information contained in this document is subject to change without notice,



Exposed Flush Valve for Water Closets

Rough-in/Overview dimensions



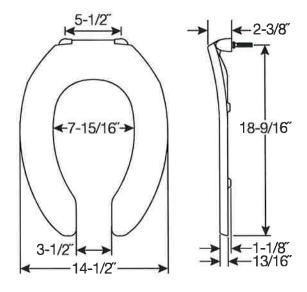






COMMERCIAL HEAVY-DUTY PLASTIC TOILET SEAT





FEATURES:

• STA-TITE® **Commercial Fastening System™** Eliminates callbacks for loosened seats

SPECIFICATIONS:

Size: Elongated

Material: Plastic

Style: Open Front less Cover

Ring Bumpers: Four

Hinges: Plastic Non Self-Sustaining Check Hinges (295CT) or Self-Sustaining Check Hinges (295SSCT) with Non-Corroding 300 Series Stainless Steel Posts and Pintles

Hardware: STA-TITE® Commercial Fastening System™

Codes & Standards:



Complies with IAPMO/ANSI Z124,5 Performance Standards Heavy-Duty Commercial





WC-2

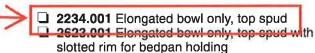


Madera™ FloWise® 15" Height Elongated Flushometer Toilet

VITREOUS CHINA LESS EVERCLEAN®

Madera™ FloWise® 15" Height Elongated LESS 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)
- 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



☐ 2624.001 Elongated bowl only, back spud

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)

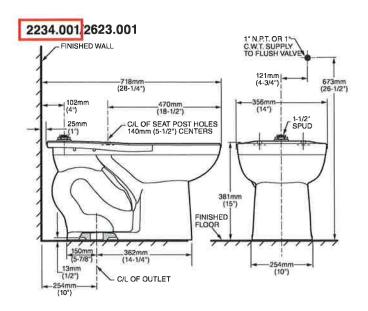




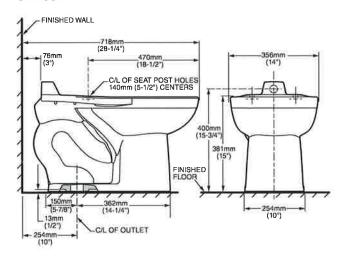


Madera™ FloWise® 15" Height **Elongated Flushometer Toilet**

VITREOUS CHINA LESS EVERCLEAN®



2624.001



NOTES:
PRODUCT 2234 SHOWN, 2623 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.

Architectural/Engineering Specification:

Exposed, quiet diaphragm-type, chrome plated flushometer valve with a polished exterior. Complete with a chloramine resistant, dual seal diaphragm with a clog resistant by-pass. The valve is ADA compliant with a non-hold open and no leak handle feature. Internal seals are made of chloramine resistant materials.

Product Features:

- Control Stop has internal siphon-guard protection, sweat solder kit, wall flange with set screw.
- High back pressure vacuum breaker with one piece hex coupling nut
- · Chloramine resistant Internal seals
- · Adjustable tailpiece
- Spud coupling and flange for top spud connection

Valve Height Options:		
į.	Product No.	Α
Ø	Z6000	11 1/2" [292]
	Z6000-1	16° [406]
	Z6000-2	24" [610]
	Z6000-3	27" [686]

Compliance and Certification:

ADA Compliant



*This product should be used with a WaterSense labeled counterpart with a compatible flow volume to ensure that the entire system meets the requirements for water efficiency and performance.



Flow Options:

	Flush Volume	Dual Flush	WaterSense* Labeled
ONE**	1.1 gpf		✓
	1.28 gpf		1
☑ -WS1	1.6 gpf	1.6/1.1 gpf	
-Standard	3.5 gpt	⁴ 3.5/2.4 gpf	

Suffix Options:

☐ -BG	BioCare Handle
DF -DF	Dual Flush Handle (See Chart Above)
<u> </u> -н	Handle on Front of Flush Valve
⊟ -L	1" [25] Metal Push Button
□ -vc	Vandal Resistant Stop Cover
☐ -YJ	Split Ring Pipe Support
☐ -YK	Solid Ring Pipe Support

Upgrade Options:

PL -PL	Aquaflush Plus - includes Vandal Resistant
_	Stop Cover and Proprietary Dezincification
	resistant low lead brass alloy body.
☐ -TFB	Triple Filter By-pass

** Not available w/-TFB

Architectural/Engineering Approval

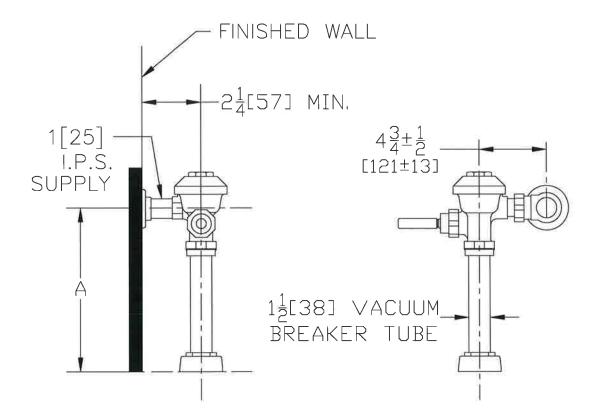
The information contained in this document is subject to change without notice. Please contact Zurn for most up to date information.



Exposed Flush Valve for Water Closets

TAG _____

Rough-in/Overview dimensions



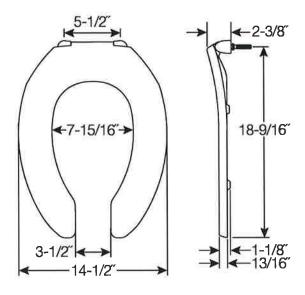






COMMERCIAL HEAVY-DUTY PLASTIC TOILET SEAT







FEATURES:

• STA-TITE® Commercial Fastening System™ Eliminates callbacks for loosened seats

SPECIFICATIONS:

Size: Elongated

Material: Plastic

Style: Open Front less Cover

Ring Bumpers: Four

Hinges: Plastic Non Self-Sustaining Check Hinges (295CT) or Self-Sustaining Check Hinges (295SSCT) with Non-Corroding 300 Series Stainless Steel Posts and Pintles

Hardware: STA-TITE® Commercial Fastening System™

Codes & Standards:



Complies with IAPMO/ANSI Z124,5 Performance Standards Heavy-Duty Commercial





WC-3



Madera™ FloWise® 16-1/2" Height **Elongated Flushometer Toilet**

VITREOUS CHINA LESS EVERCLEAN®

BARRIER FREE

Madera™ FloWise® 16-1/2" Height Elongated LESS 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 (1.1, 1.28 gpf or 1.6 / 1.1 gpf dual flush)
- 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 included
- Tested to support static weight load of 2,500 lbs. (1,134 kg)



☐ 3043.001 Elongated bowl only, top spud

2 3248.001 Elengated bowl only, top spud with slotted rim for bedpan holding

3249.001 Elongated bowl only, back spud

Component Parts:

- ☐ 047007-0070A Inlet Spud (furnished with bowl)
- ☐ 034783-0200A 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

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

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.

OPERATING PRESSURE:

25 psi (flowing) - 80 psi (static)

FLOW REQUIREMENT:

25 gpm (94.6 L/min.)

To Be Specified: ☐ Color: ☐ White

- □ Seat:
 - ☐ American Standard #5901.100 Heavy duty open front less cover
 - ☐ American Standard #5901.100SS Extra heavy duty open front less cover with EverClean®
- ☐ Flushometer Valve:













WATER



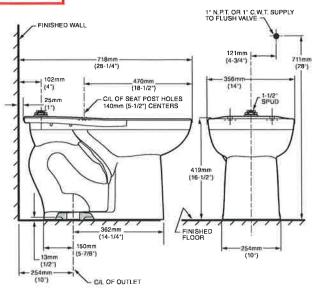
MEETS THE AMERICANS WITH DISABILITIES ACT GUIDELINES AND ANSI A117.1 REQUIREMENTS FOR ACCESSIBLE AND USABLE **BUILDING FACILITIES - CHECK LOCAL CODES.**

Madera™ FloWise® 16-1/2" Height Elongated Flushometer Toilet

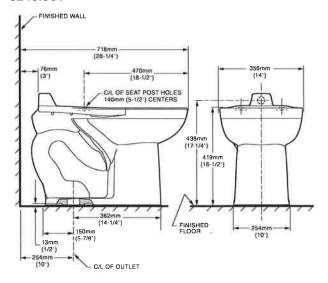
VITREOUS CHINA LESS EVERCLEAN®



3043.001/3248.001



3249.001



NOTES: PRODUCT 3043 SHOWN, 3248 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.



Architectural/Engineering Specification:

Exposed, quiet diaphragm-type, chrome plated flushometer valve with a polished exterior. Complete with a chloramine resistant, dual seal diaphragm with a clog resistant by-pass. The valve is ADA compliant with a nonhold open and no leak handle feature. Internal seals are made of chloramine resistant materials.

Product Features:

- · Control Stop has internal siphon-guard protection, sweat solder kit, wall flange with set screw.
- High back pressure vacuum breaker with one piece hex coupling nut
- · Chloramine resistant Internal seals
- Adjustable tailpiece
- · Spud coupling and flange for top spud connection

Valv	e Height Options:	
	Product No.	A
	Z6000	11 1/2" [292]
	Z6000-1	16" [406]
	Z6000-2	24" [610]
	Z6000-3	27" [686]

Compliance and Certification:

ADA Compliant



*This product should be used |
*This product should be used *This product should be used with a WaterSense to ensure that the entire system meets the requirements for water efficiency and performance.



Flow Options:

	Flush Volume	Dual Flush	WaterSense* Labeled
☐ -ONE**	1.1 gpf		1
	1 28 gpf	-	1
☑ -WS1	1.6 gpf	1.6/1.1 gpf	
-Standard	3.5 gpt	3.5/2.4 gpf	

Suffix Ontions:

- william - british	01101
BG -BG	BioCare Handle
DF -DF	Dual Flush Handle (See Chart Above)
□ -H	Handle on Front of Flush Valve
□ -L	1" [25] Metal Push Button
-VC	Vandal Resistant Stop Cover
☐ -YJ	Split Ring Pipe Support
☐ -YK	Solid Ring Pipe Support
Jpgrade O	ptions:

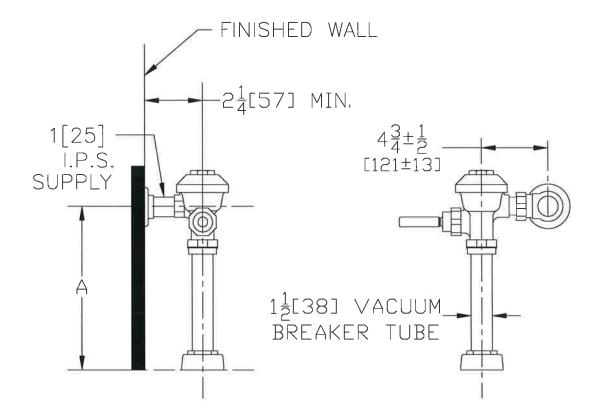
☐ -PL	Aquaflush Plus - includes Vandal Resistan
	Stop Cover and Proprietary Dezincification
	resistant low lead brass alloy body.
☐ -TFB	Triple Filter By-pass

** Not available w/-TFB

Architectura	l/Engineering	Approva
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The information contained in this document is subject to change without notice.

Rough-in/Overview dimensions



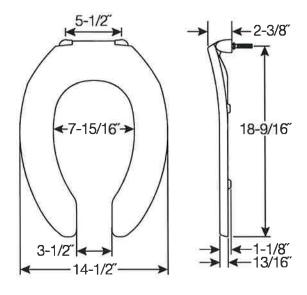




295CT / 295SSCT

COMMERCIAL HEAVY-DUTY PLASTIC TOILET SEAT





FEATURES:

• STA-TITE® Commercial Fastening System™ Eliminates callbacks for loosened seats

SPECIFICATIONS:

Size: Elongated

Material: Plastic

Style: Open Front less Cover

Ring Bumpers: Four

Hinges: Plastic Non Self-Sustaining Check Hinges (295CT) or Self-Sustaining Check Hinges (295SSCT) with Non-Corroding 300 Series Stainless Steel Posts and Pintles

Hardware: STA-TITE® Commercial Fastening System™

Codes & Standards:



Complies with IAPMO/ANSI Z124.5 Performance Standards Heavy-Duty Commercial





U-1,U-2



Washbrook® FloWise® **Universal Urinal**

VITREOUS CHINA

& BARRIER FREE

Washbrook® FloWise® Universal Urinal

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



Nominal Dimensions:

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

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

Compliance Certifications -Meets or Exceeds the Following Specifications:

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



SEE REVERSE FOR ROUGHING-IN DIMENSIONS

To Be Specified: Color: White Flush Valve.

1.0 gpf Flush Valve: Sensor-Operated:

American Standard Selectronic® #6063.101.002 DC Power (Top Spud)

☐ American Standard Selectronic® #6062.101.002 AC Power (Back Spud)

1.0 gpf Flush Valve: Manual-Operated: American Standard # 6045.101.002

0.5 gpf Flush Valve: Sensor-Operated:

American Standard Selectronic® #6063.051.002 DC Power (Top Spud)

☐ American Standard Selectronic® #6062.051.002 AC Power (Back Spud)

0.5 gpf Flush Valve: Manual-Operated: American Standard #6045.051.002

0.125 gpf Flush Valve: Sensor-Operated:

American Standard Selectronic® #6063.013.002 DC Power (Top Spud)

☐ American Standard Selectronic® #6062.013.002 AC Power (Back Spud)

0.125 gpf Flush Valve: Manual-Operated: American Standard #6045.013.002







When used with 0.125 gpf When used with 0.125 gpf urinal flush vale urinal flush vale

ADA COMPLIANT



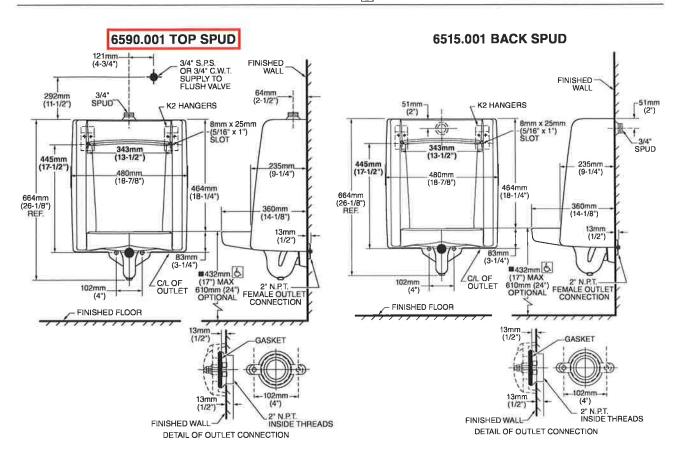
MEETS THE AMERICANS WITH DISABILITIES ACT GUIDELINES AND ANSI A117.1 ACCESSIBLE AND USABLE BUILDINGS AND **FACILITIES - CHECK LOCAL CODES.**

When installed so top of rim is 432mm (17") MAXIMUM from finished floor.



Washbrook® FloWise® **Universal Urinal VITREOUS CHINA**

BARRIER FREE





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

• When installed so top of rim is 432mm (17") MAXIMUM from finished floor.

NOTES: FLUSH VALVE NOT INCLUDED AND MUST BE ORDERED SEPARATELY. PROVIDE SUITABLE REINFORCEMENT FOR ALL WALL SUPPORTS.

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

Architectural/Engineering Specification:

Exposed, quiet diaphragm-type, chrome plated flushometer valve with a polished exterior. Complete with a chloramine resistant, dual seal diaphragm with a clog resistant by-pass. The valve is ADA compliant with a nonhold open and no leak handle feature. Internal seals are made of chloramine resistant materials.

Product Features:

- · Control Stop has internal siphon-guard protection, sweat solder kit, wall flange with set screw.
- · High back pressure vacuum breaker with one piece hex coupling nut
- Chloramine resistant Internal seals
- Adjustable tailpiece
- · Spud coupling and flange for top spud connection

I١	Valve	e Height Options:	
ſ		Product No.	Α
	Ø	Z6003	11 1/2" [292]
4		Z6003-1	16" [406]
		Z6003-2	24" [610]
		Z6003-3	27" [686]

Compliance and Certification:

ADA Compliant



*This product should be used with a WaterSense labeled counterpart with a compatible flow volume to ensure that the entire system meets the requirements for water efficiency and performance.



Flow Options:

	Flush Volume	WaterSense* Labeled
☐ -ULF**	0.125 gpf	~
EWS**	0.5 gpf	
☑ -WS1	1.0 gpf	

Suffix	\sim	nti	10	
Julia	U	νu	IUI	15.

□ -BG	BioCare Handle
<u> </u>	1" [25] Metal Push Button
-vc	Vandal Resistant Stop Cover
T -YB	Sweat Solder Kit
-YC	Cast Wall Flange
☐ -YJ	Split Ring Pipe Support
☐ -YK	Solid Ring Pipe Support
Unarada On	tione:

צץי	lauc	Options.
	-PL	Aquaflush Plus - includes Vandal Resistan
_		Stop Cover and Proprietary Dezincification
		resistant low lead brass alloy body.
	TED	Triple Filter By-pass

Architectural/Engineering Ap	proval

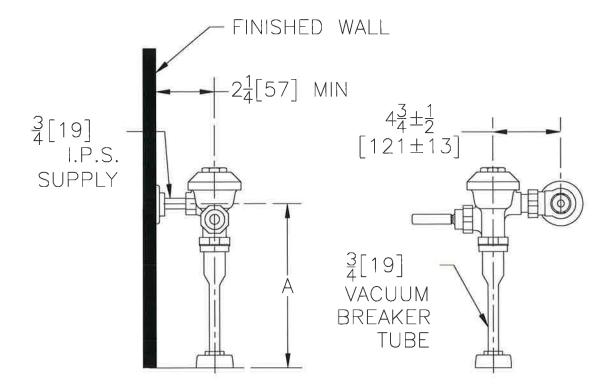
The information contained in this document is subject to change without notice. Please contact Zum for most up to date information.

^{**} Not available w/-TFB



TAG _____

Rough-in/Overview dimensions



Engineering Specification

9	John Specification
Job Name AMS Charter School	Contractor Comfort Systems USA
Job Location LR	Approval
Engineer Ragsdale	Contractor's P.O. No.
Approval	Representative Sanders Supply
U-1 U-2	

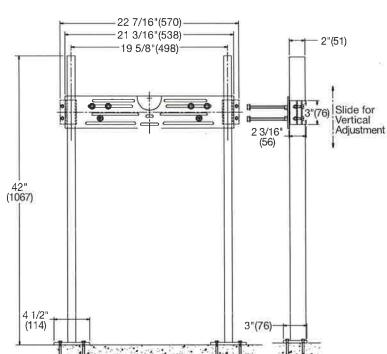
CA-311

Floor Mounted Urinal Carrier

Specification

Watts CA-311 epoxy coated floor mounted urinal carrier with heavy gauge steel offset uprights with welded feet, universal steel hangar support plate with integral mounting brackets and plated hardware.





Note: Anchor legs to concrete floor with minimum 1/2"(13) anchor bolts (by others).

Please refer to watts.com for BAA information on specific models.

NOTICE

The information contained herein is not intended to replace the full product installation and safety information available or the experience of a trained product installer. You are required to thoroughly read all installation instructions and product safety information before beginning the installation of this product.

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.

USA: T: (800) 338-2581 • F: (828) 248-3929 • Watts.com **Canada:** T: (888) 208-8927 • F: (905) 481-2316 • Watts.ca

Latin America: T: (52) 55-4122-0138 ● Watts.com ES-WD-CA-311 2139

L-1,L-2

BARRIER FREE

VITREOUS CHINA

Lucerne™ Wall-Hung Lavatory

- Wall-hung sink
- Vitreous china
- Front overflow
- D-shaped bowl
- Self-draining deck area with contoured back and side splash shields
- Faucet ledge
- Compliant with Texas Accessibility Standard (TAS) for children age group 13 and up

Faucet holes on 203 mm (8") centers:

- □ 0356.028 For exposed bracket support (by others)
- □ 0356.015 For wall hanger (included) or concealed arms support (by others)
- □ 0356.915 For wall hanger (included) or concealed arms support (by others) less overflow
- □ 0356.037 For wall hanger (included) or concealed arms support (by others) with extra 35 mm (1-3/8") hole for soap/lotion dispenser (by others) on right-hand side

Faucet holes on 102 mm (4") centers:

- 1 0355 027 For exposed bracket support (by others)
- □ 0355.012 For wall hanger (included) or concealed arms support (by others)
- ighthalphail in the second of arms support (by others) less overflow
- □ 0355.056 For wall hanger (included) or concealed arms support (by others) with extra 35 mm (1-3/8") hole for soap/lotion dispenser (by others) on left-hand side
- □ 0355.034 For wall hanger (included) or concealed arms support (by others) with extra 35 mm (1-3/8") hole for soap/lotion dispenser (by others) on right-hand side
- **355.041** With two holes spaced 343 mm (13-1/2") in back splash for 10 mm (3/8") bolts (by others)

Single center faucet hole:

- □ 0356.041 For exposed bracket support (by others)
- □ 0356.421 For wall hanger (included) or concealed arms support (by others)
- □ 0356.921 For wall hanger (included) or concealed arms support (by others) less overflow
- □ 0356.439 For wall hanger (included) or concealed arms support (by others) with single faucet hole on right
- □ 0356.066 For exposed bracket support (by others) with single faucet hole on right
- □ 0356.115 For wall hanger (included) or concealed arms support (by others) with extra 35 mm (1-3/8") hole for soap/lotion dispenser (by others) on left-hand side
- □ 0356.137 For wall hanger (included) or concealed arms support (by others) with extra 35 mm (1-3/8") hole for soap/lotion dispenser (by others) on right-hand side



0355.012



0356.041

SEE FOLLOWING PAGES FOR ROUGHING-IN DIMENSIONS

Compliance Certifications -Meets or Exceeds the Following Specifications:

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

Nominal Dimensions:

540 x 464 mm (21-1/4" x 18-1/4")

Bowl sizes:

379 mm (14-7/8") wide 254 mm (10") front to back 165 mm (6-1/2") deep

To Be Specified:

- □ Color: □ White
- □ Faucet.
- □ Faucet Finish:
- Supplies:
- ☐ 1-1/4" Trap:
- ☐ Bracket Support (by others):
- ☐ Concealed Arms Support (by others):

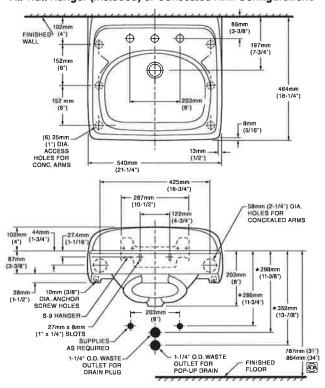


Lucerne™ Wall-Hung Lavatory

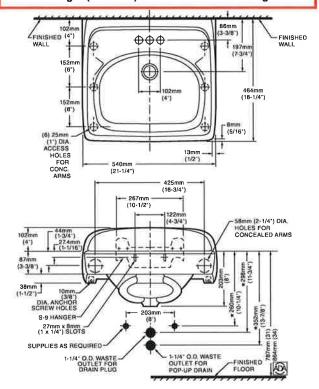
BARRIER FREE

VITREOUS CHINA

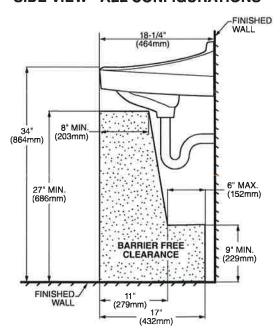
8" CENTER CONFIGURATIONS All Wall Hanger (included) or Concealed Arm Configurations



4" CENTER CONFIGURATIONS All Wall Hanger (included) or Concealed Arm Configurations



SIDE VIEW - ALL CONFIGURATIONS



NOTES:

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 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.



T&S BRASS AND BRONZE WORKS, INC. 2 Saddleback Cove / P.O. Box 1088

Travelers Rest, SC 29690

Model No.

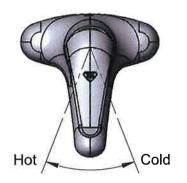
B-2711

Item No.

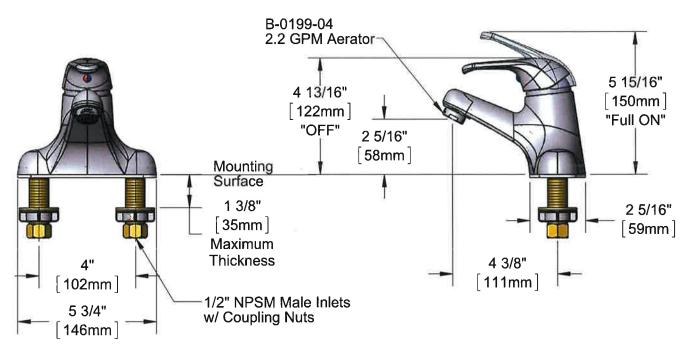
Travelers Rest, SC: 800-476-4103 • Simi Valley, CA: 800-423-0150 • Fax: 864-834-3518 • www.tsbrass.com

	Ġ	
ADA	Comp	oliant

Job Name	Date
Model Specified	Quantity
Customer/Wholesaler	
Contractor	
Architect/Engineer	







Rough-In Requirement: (2) Ø1" [25mm] Mounting Holes

Product Specifications:

4" Deck Mount Single Lever Faucet, Temperature Limit Stop, Ceramic Cartridge, 2.2 GPM Aerator & 1/2" NPSM Male Inlets

Product Compliance:

ASME A112.18.1 / CSA B125.1 NSF 61 - Section 9 NSF 372 (Low Lead Content) ANSI A117.1 (ADA)

Drawn: DMH Checked: JRM Approved: JHB Date: 07/23/16 Scale: 1:4 Sheet: 1 of 2



T&S BRASS AND BRONZE WORKS, INC.

2 Saddleback Cove / P.O. Box 1088 Travelers Rest, SC 29690 Model No.

B-2711

Item No.

Travelers Rest, SC: 800-476-4103 • Simi Valley, CA: 800-423-0150 • Fax: 864-834-3518 • www.tsbrass.com

1
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12

ITEM NO.	SALES NO.	DESCRIPTION				
1	013113-45	Single Lever Short Handle				
2	016675-45	Set Screw				
3	014173-45	Index, Temperature				
4	016661-45	Trim Ring				
5	016663-45	Locking Nut				
6	015400-45	Temperature Limit Stop				
7	013111-45	Single Lever Ceramic Cartridge				
8	B-0199-04	2.2 GPM Aerator, 15/16-27 Male				
9	014167-45	Deck Gasket				
10	000999-45	Brass Lock Washer				
11	016673-45	Shank Nut				
12	000958-20	Coupling Nut				

Product Specifications:

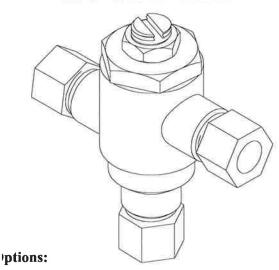
4" Deck Mount Single Lever Faucet, Temperature Limit Stop, Ceramic Cartridge, 2.2 GPM Aerator & 1/2" NPSM Male Inlets

Product Compliance:

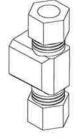
ASME A112.18.1 / CSA B125.1 NSF 61 - Section 9 NSF 372 (Low Lead Content) ANSI A117.1 (ADA)

Drawn: DMH Checked: JRM Approved: JHB Date: 07/23/16 Scale: NTS Sheet: 2 of 2

170A-LF



- __ STSTL REC- Stainless steel cabinet, #4 finish, recessed
- __ STSTL EXP- Stainless steel cabinet,
 - #4 finish, exposed
- __BWE REC- Steel cabinet, baked white, recessed
- __ BWE EXP- Steel cabinet, baked white, exposed
- BP- Cold water By-Pass (shipped loose)
- _ BRKT- mounting bracket (shipped loose)
- __ CP- Chrome plated finish





BP option

BRKT option



WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer. For more information, go to

* This product is certified to meet Low Lead requirements of wetted surface area containing less than 0.25% lead by weight

Engineer's Approval	Job#	
	Arch/Eng.	
	Contractor	

Application:

April, 2020

The Model 170A-LF is a high performance thermostatic temperature limiting device used to supply single outlets. Can be used to supply one sensor faucet or one two handle manual faucet.

Features:

- Certified to ASSE 1070 to control down to 0.25 GPM
- Eco-Mix Certified Lead-Free* construction
- Integral inlet checks and stainless steel screens
- Vandal resistant locknut to prevent accidental adjustment
- Easy 3/8" tubing or flex hose installation

Specifications:

- Minimum flow: 0.25 GPM (0.95 l/Min) Certified to ASSE
- Maximum flow: 4 GPM
- Maximum pressure: 125 PSI (8.6 BAR)
- Maximum hot water temperature: 180°F (82°C)
- Hot water inlet temperature range: 120-180°F (49-82°C)
- Cold water inlet temperature range: 33-80°F (1-27°C)
- Temperature adjustment range: 95-120°F (35-49°C)

Certifications:

ASSE 1070-2015



CSA B125.70-15



Certified to NSF61 thru the ASSE 1070 testing process

PRESSURE DROP						
5	10	15	20	30	45	PSI
.35	.70	1.05	1.4	2.1	3.1	BAR
0.75	1.25	1.6	1.88	2.63	4	GPM
2.84	4.73	6.06	7.1	10	15	L/MIN

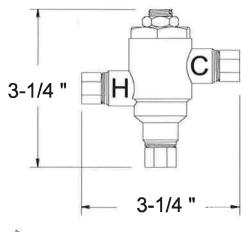
4 Flowrate, GPM 3 2 1 5 0 10 15 20 25 30 35 40 45 Pressure Drop, PSI

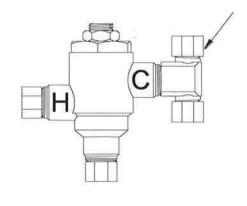


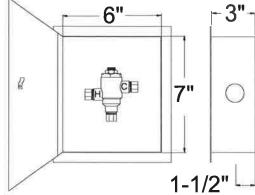
1360 Elmwood Avenue, Cranston, RI 02910 USA Phone: 401.461.1200 Fax: 401.941.5310

Email:

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



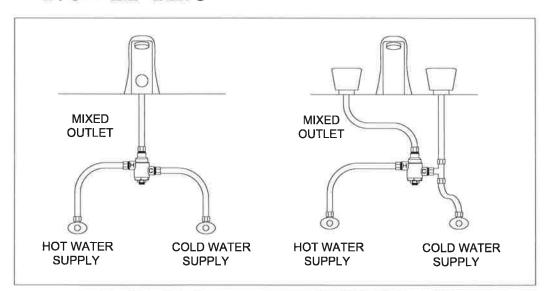




6" 1-1/2"

170A-LF-REC

170A-LF-EXP



170A-LF

170A-LF-BP



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

Email:

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

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

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QUALITY DESIGNED McGUIRE PRODUCTS

McGuire Manufacturing Co., Inc.

60 Grandview Court
P.O. Box 746 ♣ Cheshire, CT 06410
203-699-1801 ♣ Fax: 203-699-1813
www.mcguiremfg.com

PRODUCT SPECIFICATION

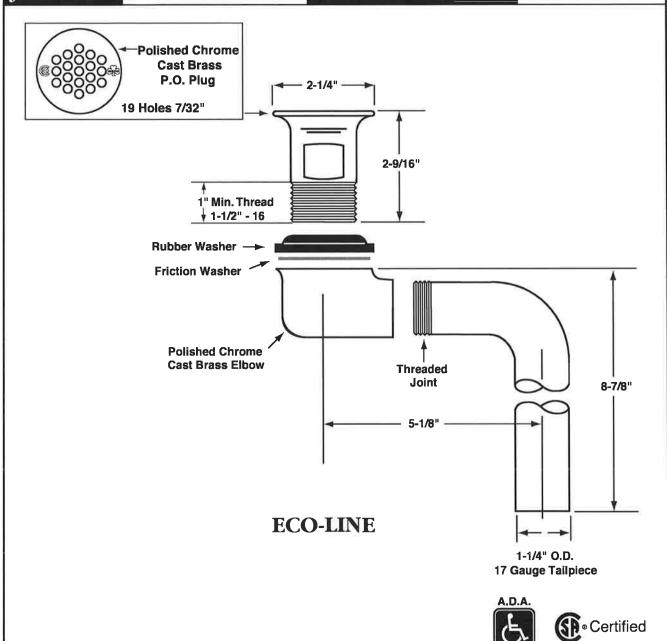
Part No.

155WCECO

Offset Lavatory
Grid Strainer

Job Name:

Submittal Number:



Specifications:

Cast Brass Chrome Plated Offset Wheelchair Strainer with polished chrome cast brass elbow, 17 gauge 1-1/4 inch seamless brass offset tailpiece, heavy rubber basin washer and fiber friction washer. Offset lavatory strainer shall be in compliance with CSA or other recognized testing authority and bear both manufacturer and testing mark.



McGuire Manufacturing Co., Inc. 60 Grandview Court

Cheshire, Connecticut 06410

(203) 699-1801 Fax (203) 699-1813 customerservice@meguiremfg.com meguiremfg.com

PRODUCT SPECIFICATION

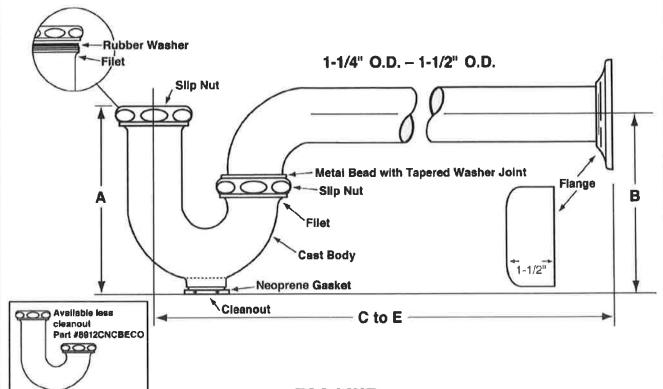
Part No.

C8872CECO

Cast Body P-Trap With or Without Cleanout

Job Name:

Submittal Number:



ECO-LINE

		ROUGHING	MEASU	REME	NTS		
****	TRAP DIMENSIONS						OL ID AULT
MODEL NO.	INLET	OUTLET	A	В	CtoE	FLANGE	SLIP NUT
C8872CECO	1-1/4"	1-1/4"	4-1/2"	4-1/2"	10"	Shallow	Zinc

FED SPEC W.W.P. 541 CAST BRASS P-TRAP MINIMUM SEAL 2"



ASME A112.18.2/CSA B125.2

Specifications:

Chrome plated P-Trap shall be cast brass body, with or without cleanout, with 17 gauge scamless tubular wall bend and flange.



This product can expose you to chemicals including lead, which is known to the State of California to cause cancer, and birth defects or other reproductive harm. For more information go to www PB5Warnings.ca.gov.



McGuire Manufacturing Co., Inc.

60 Grandview Court P.O. Box 746 • Cheshire, CT 06410 203-699-1801 • Fax: 203-699-1813 www.mcguiremfg.com

PRODUCT SPECIFICATION

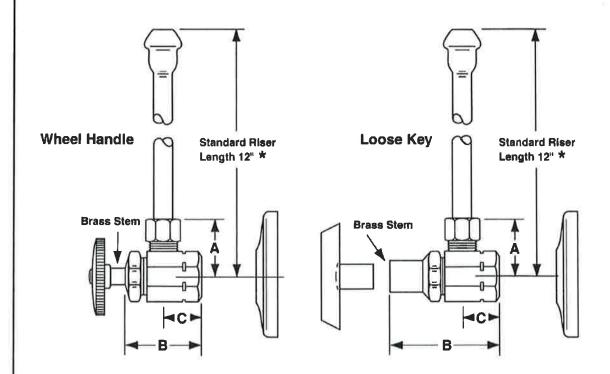
Part No.

LF2165, <mark>LF2165LK,</mark> LF2167, LF2167LK

Lavatory Supply 1/2" I.P.S. x O.D.

Job Name:

Submittal Number:



	NO.	DESCRIPTION	ROUGHING MEASUREMENTS			
	NO.	DESCRIPTION	A	В	С	
4. 1	LF2165	1/2" I.P.S. x 3/8" O.D.	1-3/16"	1-1/2"	3/4"	
\rightarrow	LF2165LK	1/2" I.P.S. x 3/8" O.D.	1-3/16"	2-1/4"	3/4"	
	LF2167	1/2" I.P.S. x 1/2" O.D.	1-3/16"	1-1/2"	3/4"	
	LF2167LK	1/2" I.P.S. x 1/2" O.D.	1-3/16"	2-1/4"	3/4"	



LK designates Loose Key

* See options and accessories section for details on product variations.

Specifications:

Supply kit shall include low lead chrome plated brass supply stop valves with full turn brass stem, no plastic, (12, 15, 20) inch chrome plated risers and (shallow, deep, bell) (steel, brass) or (forged brass with set screw) flange. Inlet shall be (3/8, 1/2) inch (IPS, compression). Outlet shall be (3/8, 1/2) inch compression. Supply kit shall be McGuire ______. Supply kit shall be low lead certified by recognized authority and bear manufacturer and testing mark.



COMBINATION KIT: ONE TRAP, TWO SUPPLY STOP PROTECTORS, AND ONE OFFSET DRAIN PROTECTOR

Z8946-3-NT

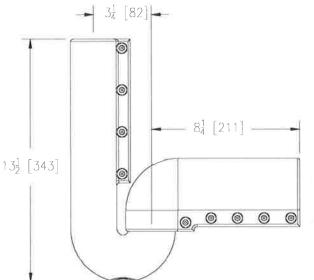
TAG L-1,L-2

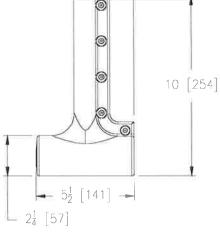
 $2\frac{3}{4}$ [70]



ENGINEERING SPECIFICATION: ZURN Z8946-3-NT Combination Kit: One trap protector, two supply stop protectors and one offset drain protector, satin white PVC resin. Antimicrobial, resists thermal transfer, and is ADA compliant. Trap protector fits both tubular and semi-cast P traps.

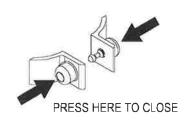
Patent Pending

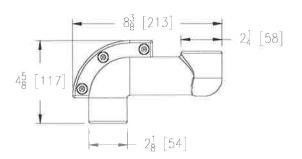




TRAP PROTECTOR

SUPPLY STOP PROTECTOR





OFFSET DRAIN PROTECTOR

ZURN INDUSTRIES, LLC. ♦ COMMERCIAL BRASS OPERATION ♦ 5900 ELWIN BUCHANAN DRIVE ♦ SANFORD NC 27330
Phone: 1-800-997-3876 ♦ Fax: 919-775-3541 ♦ World Wide Web: www.zurn.com

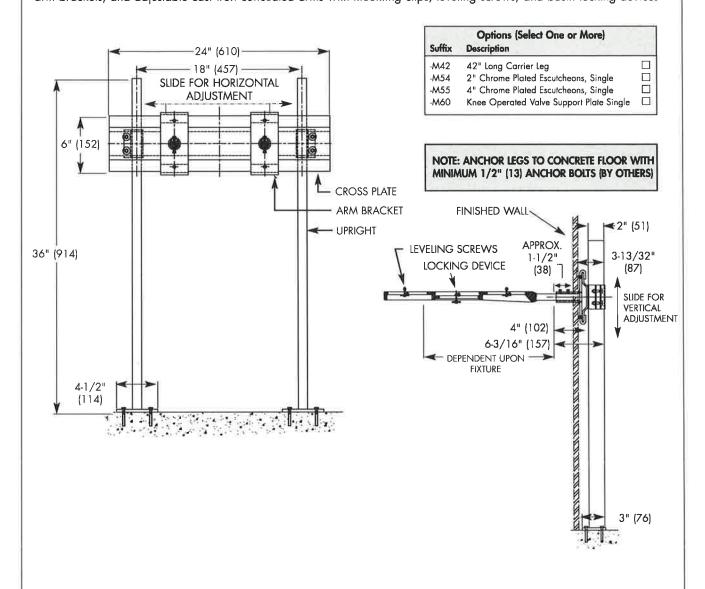
In Canada: ZURN INDUSTRIES LIMITED ♦ 3544 Nashua Drive ♦ Mississauga, Ontario L4V1L2 ♦ Phone: 905-405-8272 Fax: 905-405-1292



TCA-411

Floor Mounted Concealed Arm "Track" Lavatory Carrier

SPECIFICATION: Watts Drainage TCA-411 epoxy coated floor mounted concealed arm track lavatory carrier with heavy gauge steel offset uprights with welded feet, steel cross plate with integral mounting brackets, sliding adjustable arm brackets, and adjustable cast iron concealed arms with mounting clips, leveling screws, and basin locking device.



Job Name AMS Charter School	Comfort Systems USA	
Job Location LR	Contractor's P.O. No.	
Engineer Ragsdale	Representative Sanders Supply	

WATTS Drainage reserves the right to modify or change product design or construction without prior notice and without incurring any obligation to make similar changes and modifications to products previously or subsequently sold. See your WATTS Drainage representative for any clarification. Dimensions are subject to manufacturing tolerances.



Specification Drainage Products

USA: 100 Watts Road, Spindale, NC, 28160-2298; TEL: 828-288-2179 TOLL-FREE: 1-800-338-2581 www.walts.com

*Patent Pending

L-3

Aqualyn® Countertop Sink

- Made from vitreous china
- · Self-rimming with cutout template supplied
- · Front overflow
- Faucet ledge
- □ 0475.020 Faucet holes on 8" (203mm) centers
- ☐ 0475.920 Faucet holes on 8" (203mm) centers
 - · Loss overflow
- ☐ 0476.028 Faucet holes on 4" (102mm) centers
- 10476.037 Faucet holes on 4" (102mm) centers
 - Extra right-hand hole
- ☐ **0475.035** Faucet holes on 4" (102mm) centers
 - Extra left-hand hole
- □ 0476.928 Faucet holes on 4" (102mm) centers
 - Less overflow
- **□ 0475.047** Center hole only

Nominal Dimensions:

518 x 441mm (20-3/8" x 17-3/8")

Bowl sizes:

406mm (16") wide 254mm (10") front to back 143mm (5-5/8") deep

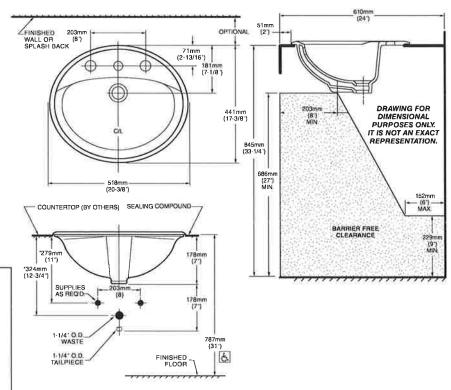
Compliance Certifications -Meets or Exceeds the Following Specifications:

 ASME A112.19.2M for Vitreous China Fixtures

To Be Specified: White Bone □ Color: ☐ Faucet*: Faucet Finish: Supplies: □ 1-1/4" Trap:



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



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

Install lavatory 864mm (34") from finished floor. Lavatory installed 51mm (2") minimum from front edge of countertop provides 686mm (27") knee clearance areas * DIMENSIONS SHOWN FOR LOCATION OF SUPPLIES AND "P" TRAP ARE SUGGESTED. FOR COUNTERTOP CUTOUT AND INSTALLATION INSTRUCTIONS USE TEMPLATE SUPPLIED WITH SINK. FITTINGS NOT INCLUDED WITH FIXTURE AND MUST BE ORDERED

SEPARATEL' SEALING COMPOUND SUPPLIED BY OTHERS.

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

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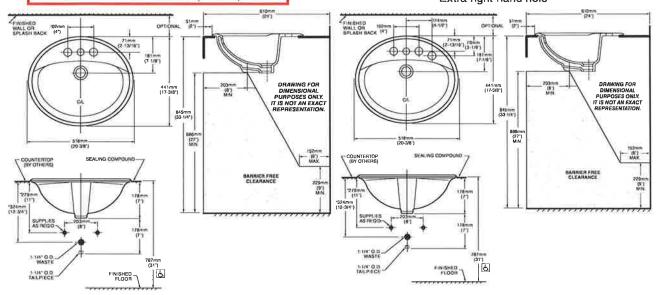
See faucet section for additional models available



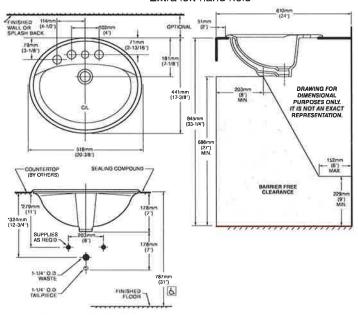
0476.028 Faucet holes on 4" (102mm) centers

& BARRIER FREE

0476.037 Faucet holes on 4" (102mm) centers • Extra right-hand hole



0475.035 Faucet holes on 4" (102mm) centers • Extra left-hand hole



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

Lavatory installed 51mm (2") minimum from front edge of countertop provides 686mm (27") knee clearance area.

NOTES:
* DIMENSIONS SHOWN FOR LOCATION OF SUPPLIES AND "P" TRAP ARE SUGGESTED.

FOR COUNTERTOP CUTOUT AND INSTALLATION INSTRUCTIONS USE TEMPLATE SUPPLIED WITH SINK.
FITTINGS NOT INCLUDED WITH FIXTURE AND MUST BE ORDERED
SEPARATELY

SEALING COMPOUND SUPPLIED BY OTHERS.

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

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T&S BRASS AND BRONZE WORKS, INC. 2 Saddleback Cove / P.O. Box 1088 Travelers Rest, SC 29690

Model No.

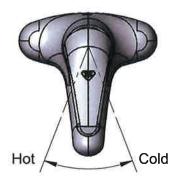
B-2711

Item No.

Travelers Rest, SC: 800-476-4103 • Simi Valley, CA: 800-423-0150 • Fax: 864-834-3518 • www.tsbrass.com

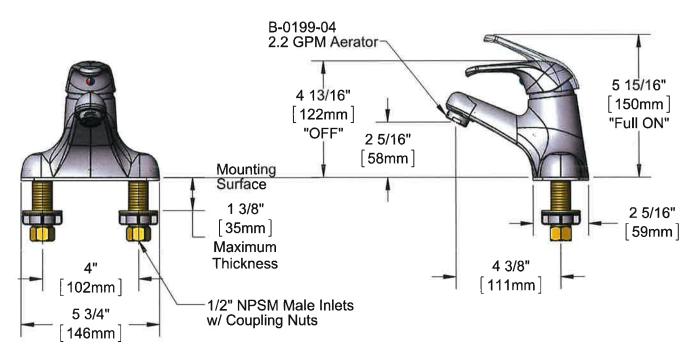
ADA Compliant

Job Name	Date
Model Specified	Quantity
Customer/Wholesaler	
Contractor	





Architect/Engineer



Rough-In Requirement: (2) \emptyset 1" [25mm] Mounting Holes

Product Specifications:

4" Deck Mount Single Lever Faucet, Temperature Limit Stop, Ceramic Cartridge, 2.2 GPM Aerator & 1/2" NPSM Male Inlets

Product Compliance:

ASME A112.18.1 / CSA B125.1 NSF 61 - Section 9 NSF 372 (Low Lead Content) ANSI A117.1 (ADA)

Checked: JRM JHB 07/23/16 Scale: 1:4 Sheet: 1 of 2 DMH Approved: Date: Drawn:



T&S BRASS AND BRONZE WORKS, INC.

2 Saddleback Cove / P.O. Box 1088 Travelers Rest, SC 29690 Model No.

B-2711

Item No.

Travelers Rest, SC: 800-476-4103 • Simi Valley, CA: 800-423-0150 • Fax: 864-834-3518 • www.tsbrass.com

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11)	
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ITEM NO.	SALES NO.	DESCRIPTION
1	013113-45	Single Lever Short Handle
2	016675-45	Set Screw
3	014173-45	Index, Temperature
4	016661-45	Trim Ring
5	016663-45	Locking Nut
6	015400-45	Temperature Limit Stop
7	013111-45	Single Lever Ceramic Cartridge
8	B-0199-04	2.2 GPM Aerator, 15/16-27 Male
9	014167-45	Deck Gasket
10	000999-45	Brass Lock Washer
11	016673-45	Shank Nut
12	000958-20	Coupling Nut

Product Specifications:

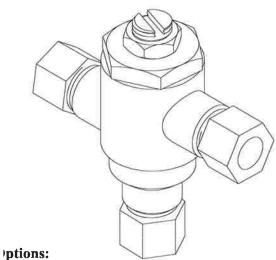
4" Deck Mount Single Lever Faucet, Temperature Limit Stop, Ceramic Cartridge, 2.2 GPM Aerator & 1/2" NPSM Male Inlets

Product Compliance:

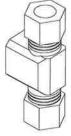
ASME A112.18.1 / CSA B125.1 NSF 61 - Section 9 NSF 372 (Low Lead Content) ANSI A117.1 (ADA)

Drawn:	DMH	Checked:	JRM	Approved:	JHB	Date:	07/23/16	Scale:	NTS	Sheet: 2 of 2

170A-LF



- puons
- _ STSTL REC- Stainless steel cabinet, #4 finish, recessed
- __ STSTL EXP- Stainless steel cabinet,
 - #4 finish, exposed
- BWE REC- Steel cabinet, baked white, recessed
- __ BWE EXP- Steel cabinet, baked white, exposed
- __ BP- Cold water By-Pass (shipped loose)
- BRKT- mounting bracket (shipped loose)
- CP- Chrome plated finish





BP option

BRKT option



WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer. For more information, go to

* This product is certified to meet Low Lead requirements of wetted surface area containing less than 0.25% lead by weight

Engineer's Approval	Job#
	Arch/Eng.
	Contractor

Application:

April, 2020

The Model 170A-LF is a high performance thermostatic temperature limiting device used to supply single outlets. Can be used to supply one sensor faucet or one two handle manual faucet.

Features:

- Certified to ASSE 1070 to control down to 0.25 GPM
- Eco-Mix Certified Lead-Free* construction
- Integral inlet checks and stainless steel screens
- Vandal resistant locknut to prevent accidental adjustment
- Easy 3/8" tubing or flex hose installation

Specifications:

- Minimum flow: 0.25 GPM (0.95 l/Min) Certified to ASSE
- Maximum flow: 4 GPM
- Maximum pressure: 125 PSI (8.6 BAR)
- Maximum hot water temperature: 180°F (82°C)
- Hot water inlet temperature range: 120-180°F (49-82°C)
- Cold water inlet temperature range: 33-80°F (1-27°C)
- Temperature adjustment range: 95-120°F (35-49°C)

Certifications:

ASSE 1070-2015



CSA B125.70-15



Certified to NSF61 thru the ASSE 1070 testing process

	PRESSURE DROP							
	5 10 15 20 30 45						PSI	
	.35	,.70	1.05	1.4	2.1	3.1	BAR	
	0.75	1.25	1.6	1.88	2.63	4	GPM	
1	2.84	4.73	6.06	7.1	10	15	L/MIN	

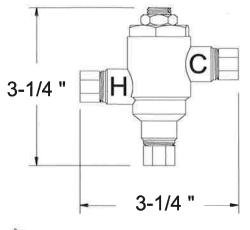
4 Flowrate, GPM 3 2 1 0 5 10 15 20 25 30 35 40 45 Pressure Drop, PSI

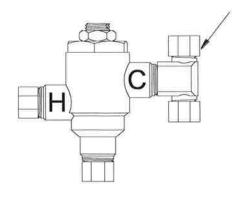


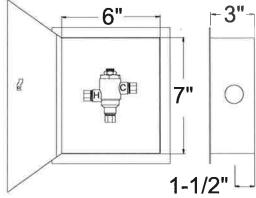
1360 Elmwood Avenue, Cranston, RI 02910 USA Phone: 401.461.1200 Fax: 401.941.5310

Email:

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



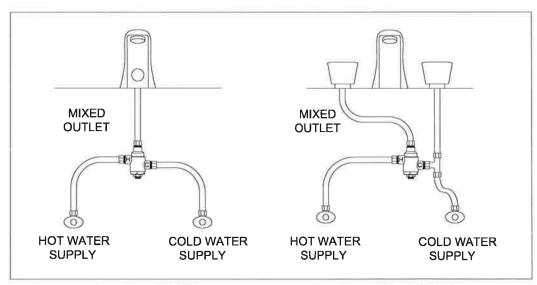




6" 7" 7" 1-1/2" -

170A-LF-REC

170A-LF-EXP



170A-LF

170A-LF-BP



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

© 2020 Leonard Valve Company Printed in USA 1360 Elmwood Avenue, Cranston, RI 02910 USA Phone: 401.461.1200 Fax: 401.941.5310

Email:

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



McGuire Manufacturing Co., Inc. 60 Grandview Court

60 Grandview Court
P.O. Box 746 ♣ Cheshire, CT 06410
203-699-1801 ♣ Fax: 203-699-1813
www.mcguiremfg.com

PRODUCT SPECIFICATION

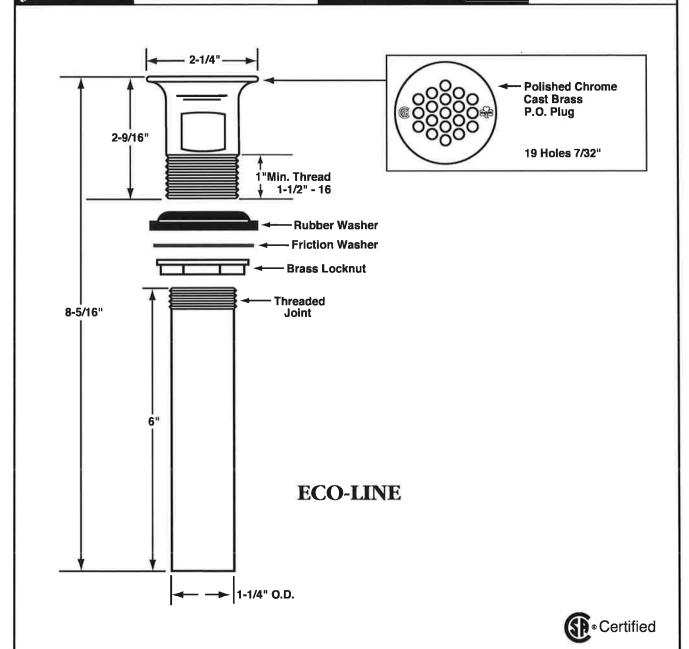
Part No.

155AECO

Open Grid P.O. Plug

Job Name:

Submittal Number:



Specifications:

Cast Brass Chrome Plated Open Grid P.O. Plug with 17 gauge 1-1/4" x 6" seamless brass tailpiece, brass locknut, heavy rubber basin washer and fiber friction washer. Drain shall be in compliance with CSA or other recognized testing authority and bear both manufacturer and testing mark.



McGuire Manufacturing Co., Inc.

60 Grandview Court

Cheshire, Connecticut 06410
(203) 699-1801 Fax (203) 699-1813
customerservice@meguiremfg.com meguiremfg.com

PRODUCT SPECIFICATION

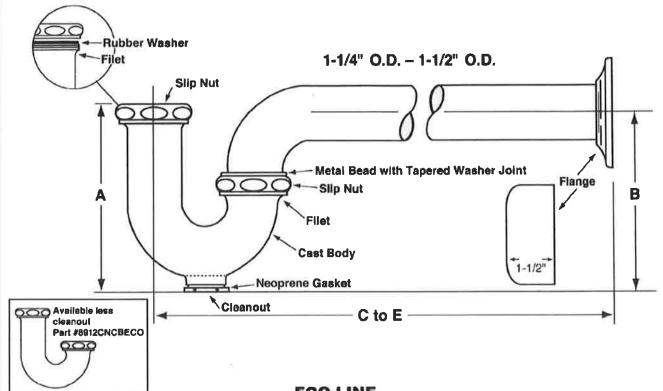
Part No.

C8872CECO

Cast Body P-Trap With or Without Cleanout

Job Name:

Submittal Number:



ECO-LINE

		ROUGHING I	MEASU	REME	NTS		
	TRAP DIMENSIONS						
MODEL NO.	INLET	OUTLET	A	В	C to E	FLANGE	SLIP NUT
C8872CECO	1-1/4"	1-1/4"	4-1/2"	4-1/2"	10"	Shallow	Zinc

FED SPEC W.W.P. 541 CAST BRASS P-TRAP MINIMUM SEAL 2"



ASME A112.18.2/CSA B125.2

Specifications:

Chrome plated P-Trap shall be cast brass body, with or without cleanout, with 17 gauge scamless tubular wall bend and flange.



This product can expose you to chemicals including lead, which is known to the State of California to cause cancer, and birth defects or other reproductive harm. For more information go to www.P85Warnings.ca.gov.



McGuire Manufacturing Co., Inc.

60 Grandview Court P.O. Box 746 • Cheshire, CT 06410 203-699-1801 • Fax: 203-699-1813 www.mcguiremfg.com

PRODUCT SPECIFICATION

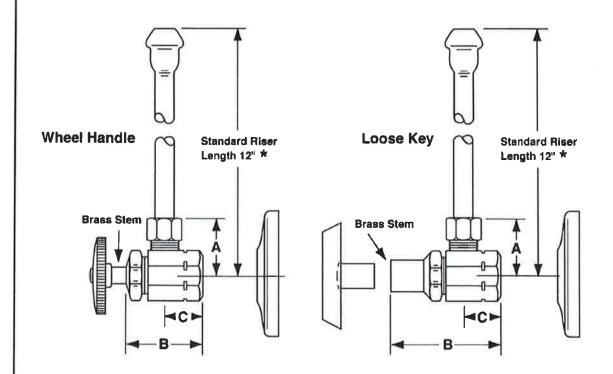
Part No.

LF2165, LF2165LK, LF2167, LF2167LK

Lavatory Supply 1/2" I.P.S. x O.D.

Job Name:

Submittal Number:



	NO.	DESCRIPTION	ROUGHING MEASUREMENTS			
		DESCRIPTION	A	В	C	
	LF2165	1/2" I.P.S. x 3/8" O.D.	1-3/16"	1-1/2"	3/4"	
\rightarrow	LF2165LK	1/2" I.P.S. x 3/8" O.D.	1-3/16"	2-1/4"	3/4"	
	LF2167	1/2" I.P.S. x 1/2" O.D.	1-3/16"	1-1/2"	3/4"	
	LF2167LK	1/2" I.P.S. x 1/2" O.D.	1-3/16"	2-1/4"	3/4"	



LK designates Loose Key

* See options and accessories section for details on product variations.

Specifications:

Supply kit shall include low lead chrome plated brass supply stop valves with full turn brass stem, no plastic, (12, 15, 20) inch chrome plated risers and (shallow, deep, bell) (steel, brass) or (forged brass with set screw) flange. Inlet shall be (3/8, 1/2) inch (IPS, compression). Outlet shall be (3/8, 1/2) inch compression. Supply kit shall be McGuire _________. Supply kit shall be low lead certified by recognized authority and bear manufacturer and testing mark.

SS-1



STOCKTON TERRAZZO MOP SERVICE BASIN 12" DEPTH CONTINUOUS

TERRAZZO 12" MOP SERVICE BASIN

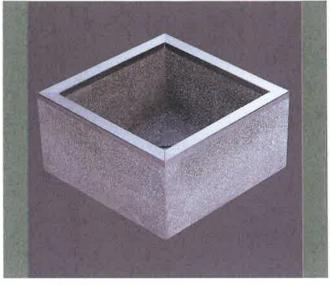
- One piece, precast terrazzo made of black and white marble chips in gray portland cement to produce a compressive strength not less than 3000 P.S.I. seven days after casting.
- Terrazzo surface shall be ground and polished with all air holes or pits grouted and excess removed.
- Shoulders shall be not less than 12" high outside and 10" inside at lowest wall.
- Shoulder width not less than 2" on all sides with a 1/4" pitch towards the inside.
- Standard drain body is stainless steel cast integrally and provides for a caulked lead connection not less than 1" deep to a 3" pipe.
- Stainless steel strainer # 1453BB
- · Made in the U.S.A.

Options:

- QDC quick drain connectors
- Stainless steel tiling flanges available with up-charge. Must be custom order.
- Vandal proof drain. Must be custom order.
- ☐ TSB100, TSB300, TSB500, TSB700 Series with stainless steel caps on all curbs
- TSB200, TSB400, TSB600 TSB800 Series with plain curbs

Optional Components:

- ☐ 830AA Mop Service Basin Fitting
- 832AA Hose & Hose Bracket
- ☐ 889CC Mop Hanger
- 1239BB Aluminum Bumperguard with Vinyl Insert
- 833AA Silicone Sealant
- MSG Wall Guards Stainless Steel
 - Wall Guards are manufactured of heavy gauge stainless steel and help protect walls adjacent to Mop Basin. Two panels are required for corner installations. Optional third panel is required for a recessed installation. (MSG2424; MSG2828; MSG3232; MSG3624; MSG3636)



Shown: TSB500

SEE REVERSE FOR ROUGHING-IN DIMENSIONS

INSTALLATIONS: Terrazzo Mop Basins must be installed on a 1/2" layer of mortar in order that the mop basin be level and to prevent cracking. Failure to install terrazzo without a mortar bed will void the warranty. Installations require a 1/4" clearance between mop basin and wall.

IMPORTANT: Rough-in dimensions may vary 1/2" (13mm) and are subject to change or cancellation without prior notice.

CERTIFICATIONS:

All models are UPC and CUPC Listed







CUSTOMER SERVICE

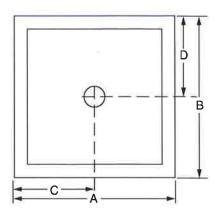
833-549-2887

www.fiatproducts.com

Revised: 04/2023

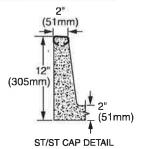


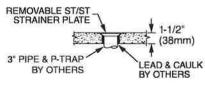
STOCKTON TERRAZZO MOP SERVICE BASIN 12" DEPTH CONTINUOUS



Series TSB100 With Stainless Steel Caps On All Curbs

MODEL	SIZE	Α	В	С	D
TSB100	24" x 24" x 12"	24	24	12	12
TSB300	32" x 32" x 12"	32	32	16	16
TSB500	36" x 36" x 12"	36	36	18	18
TSB700	36" x 24" x 12"	36	24	18	12

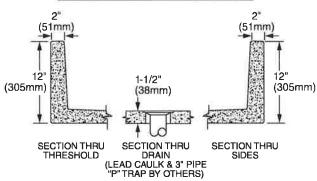




SECTION THRU DRAIN

Series TSB200 With Plain Curbs

	MODEL	SIZE	Α	В	C	D
	TSB200	24" x 24" x 12"	24	24	12	12
-	TCD 100	20" × 20" × 10"	-82	-00	16	16
\rightarrow	TSB600	36" x 36" x 12"	36	36	18	18
	T3D000	30" x 24" x 12"	-50	24	10	12



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



CUSTOMER SERVICE

833-549-2887

www.fiatproducts.com

TES

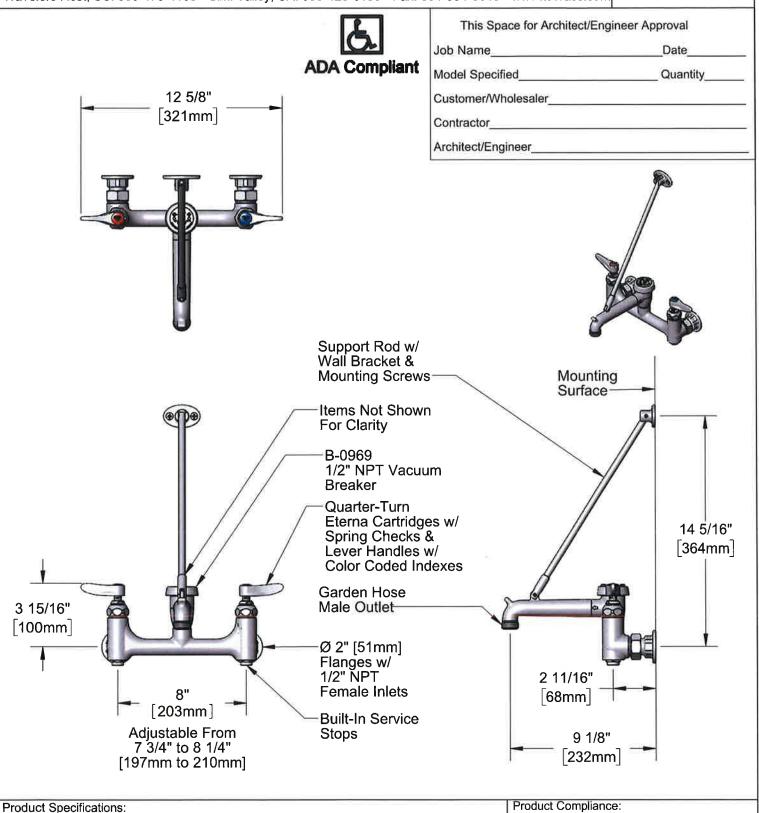
T&S BRASS AND BRONZE WORKS, INC.

2 Saddleback Cove / P.O. Box 1088 Travelers Rest, SC 29690 Model No.

B-0665-BSTR

Item No.

Travelers Rest, SC: 800-476-4103 • Simi Valley, CA: 800-423-0150 • Fax: 864-834-3518 • www.tsbrass.com



8" Wall Mount Service Sink, Quarter-Turn Eterna Cartridges w/ Spring Checks, Lever Handles, Upper Support Rod, Garden Hose Male Outlet, Built-In Service Stops, Rough Chrome Finish, 1/2" NPT Vacuum Breaker & 1/2" NPT Female Inlets

ASME A112.18.1 / CSA B125.1 NSF 61 - Section 9 NSF 372 (Low Lead Content) ANSI A117.1 (ADA) ASSE 1001 (VB)

Drawn: KJG Checked: JRM Approved: JHB Date: 11/19/19 Scale: 1:6 Sheet: 1 of 2

TES

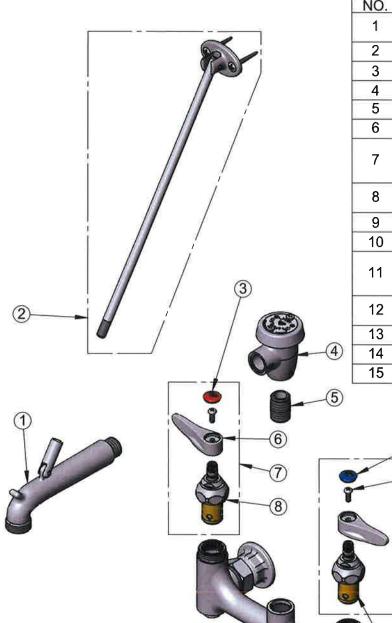
T&S BRASS AND BRONZE WORKS, INC.

2 Saddleback Cove / P.O. Box 1088 Travelers Rest, SC 29690 Model No.

B-0665-BSTR

Item No.

Travelers Rest, SC: 800-476-4103 • Simi Valley, CA: 800-423-0150 • Fax: 864-834-3518 • www.tsbrass.com



ITEM NO.	SALES NO.	DESCRIPTION
1	009545-25	Spout w/ Male GH Outlet & Upper Clevis - Rough Chrome
2	009546-40	Upper Support Rod
3	001193-19NS	Red Button Index, Press-in
4	B-0969	1/2" NPT Vacuum Breaker
5	002534-25	Close Nipple, 1/2" NPT
6	001638-45NS	Lever Handle (New Style)
7		Quarter-Turn Eterna Cartridge w/ Spring Check, Handle, Red Index & Screw, RTC
8	012443-40NS	Quarter-Turn Eterna Cartridge w/ Spring Check, RTC
9	018506-19NS	Blue Button Index, Press-in
10	000925-45	Lab Handle Screw
11	002711-40NS	Quarter-Turn Eterna Cartridge w/ Spring Check, Handle, Blue Index & Screw, LTC
12	012442-40NS	Quarter-Turn Eterna Cartridge w/ Spring Check, LTC
13	001019-45	Coupling Nut Washer
14	00AA	1/2" NPT Female Eccentric Flange
15	163A	Built-in Service Stop

Product Specifications:

8" Wall Mount Service Sink, Quarter-Turn Eterna Cartridges w/ Spring Checks, Lever Handles, Upper Support Rod, Garden Hose Male Outlet, Built-In Service Stops, Rough Chrome Finish, 1/2" NPT Vacuum Breaker & 1/2" NPT Female Inlets

Product Compliance:

ASME A112.18.1 / CSA B125.1 NSF 61 - Section 9 NSF 372 (Low Lead Content) ANSI A117.1 (ADA) ASSE 1001 (VB)

Drawn: KJG Checked: JRM Approved: JHB Date: 11/19/19 Scale: NTS Sheet: 2 of 2

9

S-1

Model(s) LRAD221965

PRODUCT SPECIFICATIONS

Elkay Lustertone Classic Stainless Steel 22" x 19-1/2" x 6-1/2" Single Bowl Drop-in ADA Sink. Sink is manufactured from 18 gauge 304 Stainless Steel with a Lustrous Satin finish, Rear Center drain placement, and Bottom only pads.

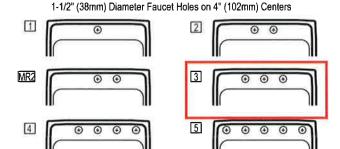
Installation Type:	Drop-in
Material:	304 Stainless Steel
Finish:	Lustrous Satin
Gauge:	18
Sound Deadening:	Bottom only pads
Number of Bowls:	1
Sink Dimensions:	22" x 19-1/2" x 6-1/2"
Bowl 1 Dimensions:	18" x 14" x 6-3/8"
Drain Size:	3-1/2" (89mm)
Drain Location:	Rear Center
Minimum Cabinet Size:	27"
Mounting Hardware:	Part # 64090012 included for countertops
	up to 3/4" (19mm) thick
Template Included:	No
Cutout Template #:	<u>1000001255</u>

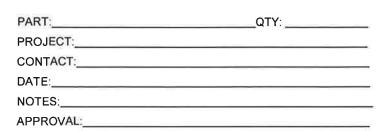
Template is available for download at elkay.com. CAD software will be required to open the template.

Cutout Dimensions for Drop-in Installation:

21-3/8" x 18-7/8" (543mm x 479mm) with 1-1/2" (38mm) corner radius

Hole Drilling Configurations:







A Century of Tradition and Quality. For more than 100 years, Elkay has been making innovative products and providing exceptional customer care. We take pride in offering plumbing products that make life easier, inspire change and leave the world a better place.





Product Compliance:

ADA & ICC A117.1 ASME A112.19.3/CSA B45.4



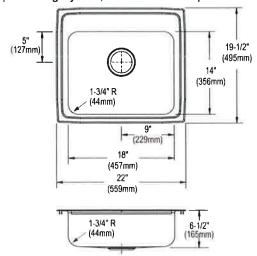
Sinks are listed by IAPMO® as meeting the applicable requirements of the Uniform Plumbing Code®, International Plumbing Code®, and National Plumbing Code of Canada.



Complies with ADA & ICC A117.1 accessibility requirements when installed according to the requirements outlined in these standards.

Clean and Care Manual (PDF)
Installation Instructions (PDF) - 1000005236
Warranty (PDF)

Similar models are available with: CuVerro antimicrobial copper, Quick-Clip Mounting System, additional ADA depths



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

TES

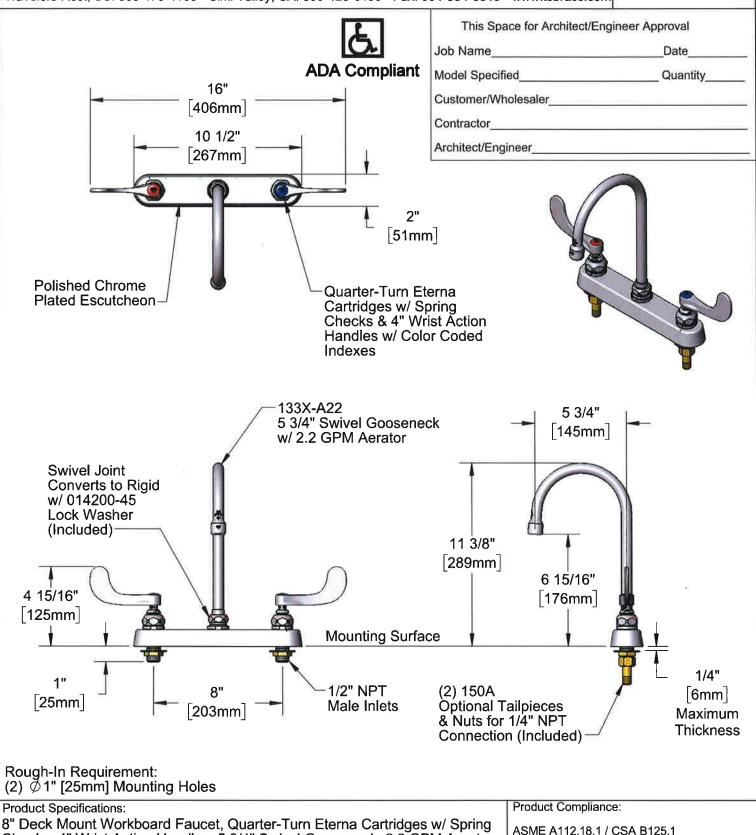
T&S BRASS AND BRONZE WORKS, INC.

2 Saddleback Cove / P.O. Box 1088 Travelers Rest, SC 29690 Model No.

B-1142-04

Item No.

Travelers Rest, SC: 800-476-4103 • Simi Valley, CA: 800-423-0150 • Fax: 864-834-3518 • www.tsbrass.com



Drawn:

MRC

& 1/2" NPT Male Inlets

Checked:

JRM

Checks, 4" Wrist Action Handles, 5 3/4" Swivel Gooseneck, 2.2 GPM Aerator

Approved:

JHB

Date:

06/12/17

Scale:

ANSI A117.1 (ADA)

1:6

NSF 61 - Section 9 NSF 372 (Low Lead Content)

Sheet: 1 of 2



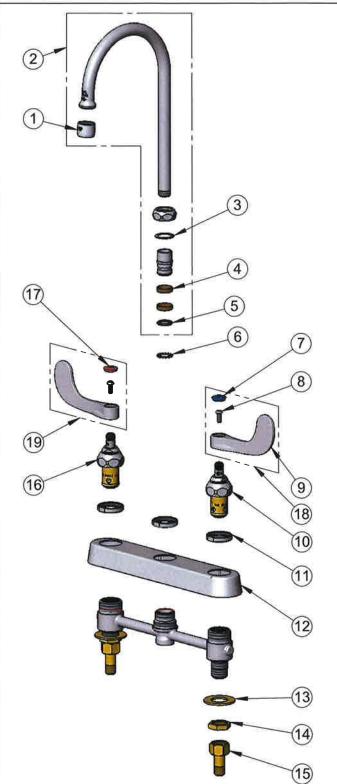
T&S BRASS AND BRONZE WORKS, INC.

2 Saddleback Cove / P.O. Box 1088 Travelers Rest, SC 29690 Model No.

B-1142-04

Item No.

Travelers Rest, SC: 800-476-4103 • Simi Valley, CA: 800-423-0150 • Fax: 864-834-3518 • www.tsbrass.com



ITEM NO.	SALES NO.	DESCRIPTION
1	B-0199-01	2.2 GPM Aerator, 55/64"-27 UN Female
2	133X-A22	5 3/4" Swivel Gooseneck w/ 2.2 GPM Aerator
3	009538-45	Swivel Washer
4	011429-45	Swivel Sleeves (2)
5	001074-45	O-Ring
6	014200-45	Star Washer, Anti-Rotation
7	018506-19NS	Blue Button Index, Press-in
8	000925-45	Lab Handle Screw
9	B-WH4-NS	Wrist Action Handle (New Style)
10	012442-40NS	Quarter-Turn New Style Eterna Cartridge w/ Spring Check, LTC
11	019376-40	Escutcheon Lock Nut
12	019375-40	B-1120 Eterna Workboard Escutcheon
13	000999-45	Brass Lock Washer
14	002954-45	Shank Lock Nut
15	150A	1/4" NPT Tailpiece & Nut
16	012443-40NS	Quarter-Turn New Style Eterna Cartridge w/ Spring Check, RTC
17	001193-19NS	Red Button Index, Press-in
18	B-WH4C-NS	Wrist Action Handle, Blue Index & Screw
19	B-WH4H-NS	Wrist Action Handle, Red Index & Screw

Product Specifications:

8" Deck Mount Workboard Faucet, Quarter-Turn Eterna Cartridges w/ Spring Checks, 4" Wrist Action Handles, 5 3/4" Swivel Gooseneck, 2.2 GPM Aerator & 1/2" NPT Male Inlets

Product Compliance:

ASME A112.18.1 / CSA B125.1 NSF 61 - Section 9 NSF 372 (Low Lead Content) ANSI A117.1 (ADA)

Drawn: MRC Checked: JRM Approved: JHB Date: 06/12/17 Scale: NTS Sheet: 2 of 2

PRODUCT SPECIFICATIONS

ELKAY

SPECIFICATIONS

Elkay 3-1/2" Drain Fitting" Stainless Steel Body Strainer Basket and Offset Tailpiece. Overall dimensions are 15-13/16" x 4-5/8" x 9-1/16". Made of Stainless Steel Body, Brass Tailpiece.

Material:	Stainless Steel Body, Brass Tailpiece
Finish:	Polished Stainless Steel
Dimensions:	15-13/16" x 4-5/8" x 9-1/16"
Shipping Weight:	2 lbs.

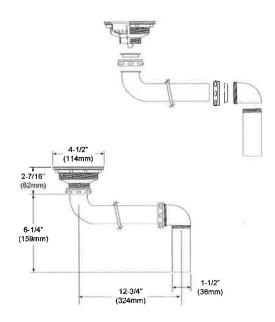
- LKADOS chrome-plated brass offset tailpiece.
- BASKET STRAINER AND STOPPER: Strainer catches food and waste from going down the drain. Use stopper to fill sink with water for washing and soaking.



A Century of Tradition and Quality.
For more than 100 years, Elkay has been making innovative products and providing exceptional customer care. We take pride in offering plumbing products that make life easier, inspire change and leave the world a better place.

Product Compliance: ASME A112.18.2/CSA B125.2

Clean and Care Manual (PDF)
Installation Instructions (PDF) - 900000106



PART:	QTY:
PROJECT:	
CONTACT:	
DATE:	
NOTES:	

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

APPROVAL:



McGuire Manufacturing Co., Inc.

60 Grandview Court Cheshire, Connecticut 06410 (203) 699-1801 Fax (203) 699-1813

customerservice@mcguiremfg.com mcguiremfg.com

PRODUCT SPECIFICATION

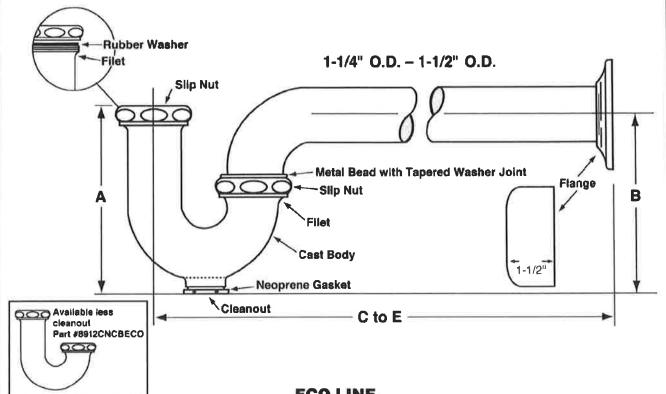
Part No.

C8912CECO

Cast Body P-Trap With or Without Cleanout

Job Name:

Submittal Number:



ECO-LINE

	A	OUGHING N	IEASU	REME	NTS		
*******	TRAP DIM	ENSIONS				EL ANOE	01 10 1111
MODEL NO.	INLET	OUTLET	A	В	CtoE	FLANGE	SLIP NUT
C8912CECO	1-1/2", 1-1/4"	1-1/2"	5"	5"	10-1/2"	Shallow	Zinc

FED SPEC W.W.P. 541 **CAST BRASS P-TRAP** MINIMUM SEAL 2"



ASME A112.18.2/CSA B125.2

Specifications:

Chrome plated P-Trap shall be east brass body, with or without cleanout, with 17 gauge scamless tubular wall bend and flange.



including lead, which is known to the State of California to cause cancer, and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.



McGuire Manufacturing Co., Inc.

60 Grandview Court P.O. Box 746 • Cheshire, CT 06410 203-699-1801 • Fax: 203-699-1813 www.mcguiremfg.com

PRODUCT SPECIFICATION

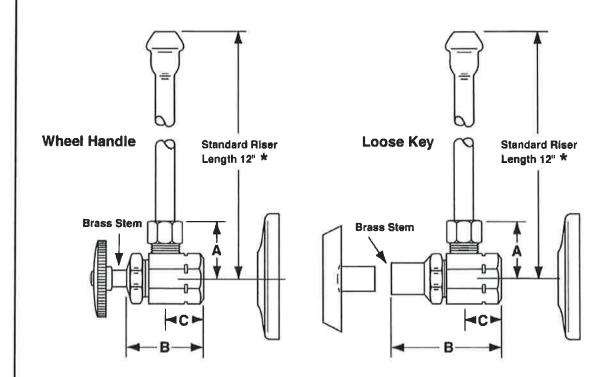
Part No.

LF2165, LF2165LK, LF2167, LF2167LK

Lavatory Supply 1/2" I.P.S. x O.D.

Job Name:

Submittal Number:



	NO.	DESCRIPTION	ROUGHING MEASUREMENTS				
	NO.	DESCRIPTION	A	В	С		
	LF2165	1/2" I.P.S. x 3/8" O.D.	1-3/16"	1-1/2"	3/4"		
\geq	LF2165LK	1/2" I.P.S. x 3/8" O.D.	1-3/16"	2-1/4"	3/4"		
-	LF2167	1/2" I.P.S. x 1/2" O.D.	1-3/16"	1-1/2"	3/4"		
	LF2167LK	1/2" I.P.S. x 1/2" O.D.	1-3/16"	2-1/4"	3/4"		



LK designates Loose Key

* See options and accessories section for details on product variations.

Specifications:

Supply kit shall include low lead chrome plated brass supply stop valves with full turn brass stem, no plastic, (12, 15, 20) inch chrome plated risers and (shallow, deep, bell) (steel, brass) or (forged brass with set screw) flange. Inlet shall be (3/8, 1/2) inch (IPS, compression). Outlet shall be (3/8, 1/2) inch compression. Supply kit shall be McGuire ______. Supply kit shall be low lead certified by recognized authority and bear manufacturer and testing mark.

S-2,PT-1

Elkay Lustertone Classic Stainless Steel 22" x 19-1/2" x 6-1/2" Single Bowl Drop-in ADA Sink

Model(s) LRAD221965

PRODUCT SPECIFICATIONS

Elkay Lustertone Classic Stainless Steel 22" x 19-1/2" x 6-1/2" Single Bowl Drop-in ADA Sink. Sink is manufactured from 18 gauge 304 Stainless Steel with a Lustrous Satin finish, Rear Center drain placement, and Bottom only pads.

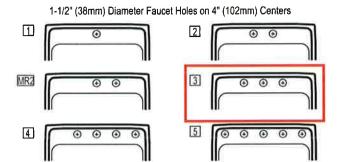
Installation Type:	Drop-in
Material:	304 Stainless Steel
Finish:	Lustrous Satin
Gauge:	18
Sound Deadening:	Bottom only pads
Number of Bowls:	1
Sink Dimensions:	22" x 19-1/2" x 6-1/2"
Bowl 1 Dimensions:	18" x 14" x 6-3/8"
Drain Size:	3-1/2" (89mm)
Drain Location:	Rear Center
Minimum Cabinet Size:	27"
Mounting Hardware:	Part # 64090012 included for countertops
	up to 3/4" (19mm) thick
Template Included:	No
Cutout Template #:	<u>1000001255</u>

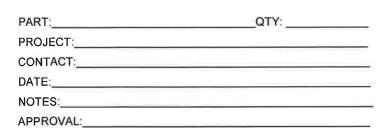
Template is available for download at elkay.com. CAD software will be required to open the template.

Cutout Dimensions for Drop-in Installation:

21-3/8" x 18-7/8" (543mm x 479mm) with 1-1/2" (38mm) corner radius

Hole Drilling Configurations:







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Product Compliance:

ADA & ICC A117.1 ASME A112.19.3/CSA B45.4



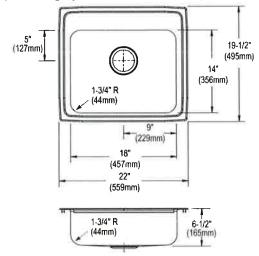
Sinks are listed by IAPMO® as meeting the applicable requirements of the Uniform Plumbing Code®, International Plumbing Code®, and National Plumbing Code of Canada.



Complies with ADA & ICC A117.1 accessibility requirements when installed according to the requirements outlined in these standards.

Clean and Care Manual (PDF)
Installation Instructions (PDF) - 1000005236
Warranty (PDF)

Similar models are available with: CuVerro antimicrobial copper, Quick-Clip Mounting System, additional ADA depths



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

T&S BRASS AND BRONZE WORKS, INC.

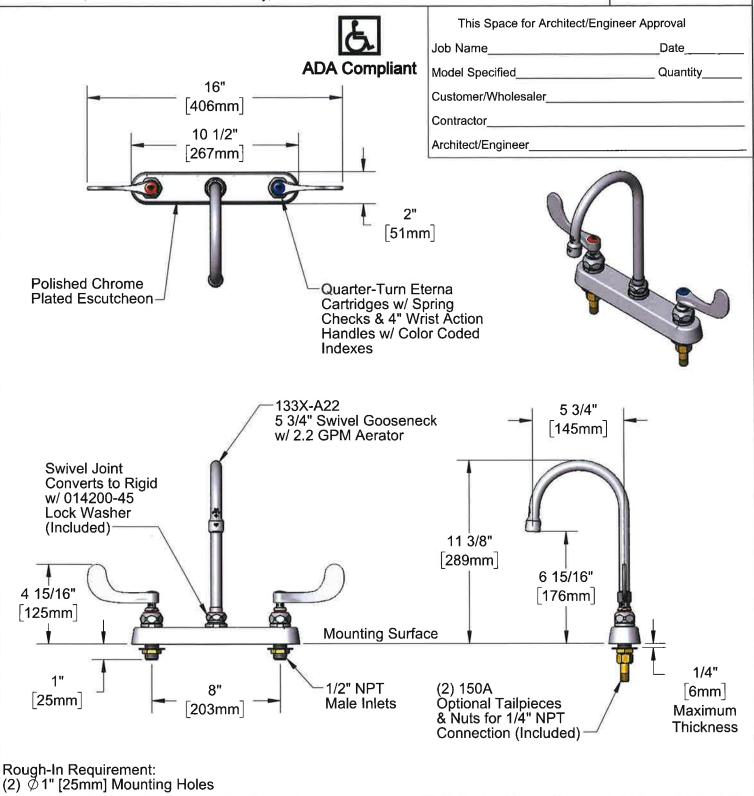
2 Saddleback Cove / P.O. Box 1088 Travelers Rest, SC 29690

Model No.

B-1142-04

Item No.

Travelers Rest, SC: 800-476-4103 • Simi Valley, CA; 800-423-0150 • Fax: 864-834-3518 • www.tsbrass.com



MRC Drawn:

Product Specifications:

Checked:

JRM

8" Deck Mount Workboard Faucet, Quarter-Turn Eterna Cartridges w/ Spring Checks, 4" Wrist Action Handles, 5 3/4" Swivel Gooseneck, 2.2 GPM Aerator & 1/2" NPT Male Inlets

Approved:

JHB

Date:

06/12/17

Scale:

Product Compliance:

ANSI A117.1 (ADA)

ASME A112,18.1 / CSA B125.1 NSF 61 - Section 9 NSF 372 (Low Lead Content)

1:6

Sheet: 1 of 2



T&S BRASS AND BRONZE WORKS, INC.

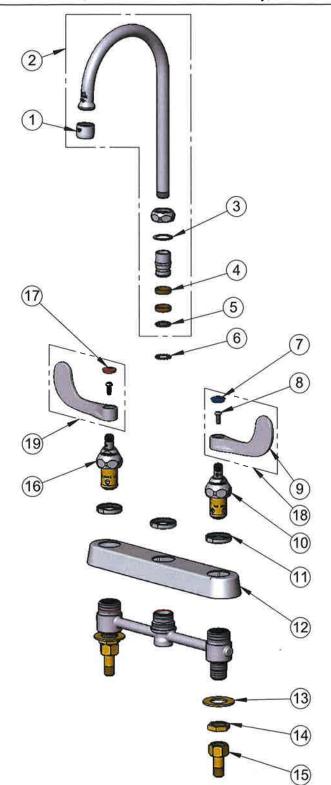
2 Saddleback Cove / P.O. Box 1088 Travelers Rest, SC 29690

Model No.

B-1142-04

Item No.

Travelers Rest, SC: 800-476-4103 • Simi Valley, CA: 800-423-0150 • Fax: 864-834-3518 • www.tsbrass.com



ITEM NO.	SALES NO.	DESCRIPTION
1	B-0199-01	2.2 GPM Aerator, 55/64"-27 UN Female
2	133X-A22	5 3/4" Swivel Gooseneck w/ 2.2 GPM Aerator
3	009538-45	Swivel Washer
4	011429-45	Swivel Sleeves (2)
5	001074-45	O-Ring
6	014200-45	Star Washer, Anti-Rotation
7	018506-19NS	Blue Button Index, Press-in
8	000925-45	Lab Handle Screw
9	B-WH4-NS	Wrist Action Handle (New Style)
10	012442-40NS	Quarter-Turn New Style Eterna Cartridge w/ Spring Check, LTC
11	019376-40	Escutcheon Lock Nut
12	019375-40	B-1120 Eterna Workboard Escutcheon
13	000999-45	Brass Lock Washer
14	002954-45	Shank Lock Nut
15	150A	1/4" NPT Tailpiece & Nut
16	012443-40NS	Quarter-Turn New Style Eterna Cartridge w/ Spring Check, RTC
17	001193-19NS	Red Button Index, Press-in
18	B-WH4C-NS	Wrist Action Handle, Blue Index & Screw
19	B-WH4H-NS	Wrist Action Handle, Red Index & Screw

Product Specifications:

8" Deck Mount Workboard Faucet, Quarter-Turn Eterna Cartridges w/ Spring Checks, 4" Wrist Action Handles, 5 3/4" Swivel Gooseneck, 2.2 GPM Aerator & 1/2" NPT Male Inlets

Product Compliance:

ASME A112.18.1 / CSA B125.1 NSF 61 - Section 9 NSF 372 (Low Lead Content) ANSI A117.1 (ADA)

Drawn: M	IRC Ch	ecked: JF	RM A	pproved: .	JHB	Date:	06/12/17	Scale:	NTS	Sheet: 2 of	2
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Elkay 3-1/2" Drain Fitting" Stainless Steel Body Strainer Basket and Offset Tailpiece

Model(s) LKAD35

PRODUCT SPECIFICATIONS

ELKAY

SPECIFICATIONS

Elkay 3-1/2" Drain Fitting" Stainless Steel Body Strainer Basket and Offset Tailpiece. Overall dimensions are 15-13/16" x 4-5/8" x 9-1/16". Made of Stainless Steel Body, Brass Tailpiece.

Material:	Stainless Steel Body, Brass Tailpiece			
Finish:	Polished Stainless Steel			
Dimensions:	15-13/16" x 4-5/8" x 9-1/16"			
Shipping Weight:	2 lbs.			

- LKADOS chrome-plated brass offset tailpiece.
- BASKET STRAINER AND STOPPER: Strainer catches food and waste from going down the drain. Use stopper to fill sink with water for washing and soaking.

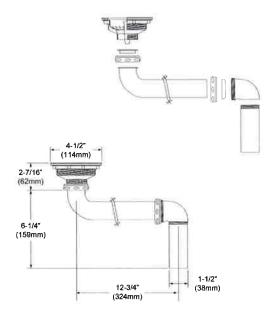


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Product Compliance:

ASME A112,18,2/CSA B125,2

Clean and Care Manual (PDF) Installation Instructions (PDF) - 900000106



QTY:

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

APPROVAL:

Engineering Specification

Job Name AMS Charter School	Contractor Comfort Systems USA
Job Location LR	Approval
Engineer Ragsdale	Contractor's P.O. No.
Approval	Representative Sanders Supply
_ S-2,PT-1	

SI-742

Hair, Plaster & Sediment Interceptor

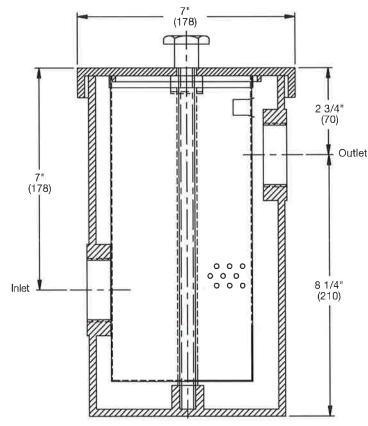
Specification

Watts SI-742 floor mounted epoxy coated cast aluminum sediment interceptor with removable stainless steel sediment basket, gasketed cover, and 2"(51) IPS threaded connections.

Note: 10"(254) clearance required above cover to remove sediment basket.

Options (Select One or More) Suffix Description		
-SS	Stainless Steel	





NOTICE

The information contained herein is not intended to replace the full product installation and safety information available or the experience of a trained product installer. You are required to thoroughly read all installation instructions and product safety information before beginning the installation of this product.

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.



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McGuire Manufacturing Co., Inc.

60 Grandview Court P.O. Box 746 • Cheshire, CT 06410 203-699-1801 • Fax: 203-699-1813 www.mcguiremfg.com

PRODUCT SPECIFICATION

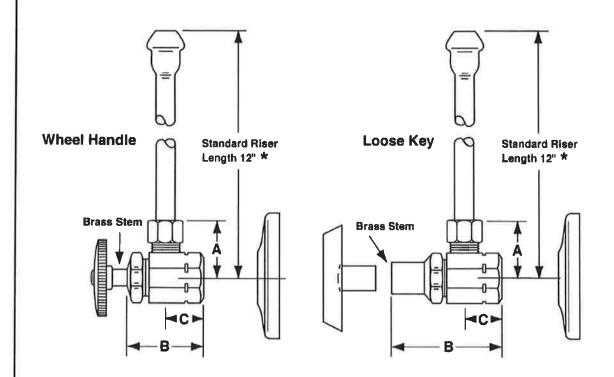
Part No.

LF2165, LF2165LK, LF2167LK

Lavatory Supply 1/2" I.P.S. x O.D.

Job Name:

Submittal Number:



	NO.	DESCRIPTION	ROUGHIN	IG MEASU	REMENTS
	NO.	DESCRIPTION	A	В	C
>[LF2165	1/2" I.P.S. x 3/8" O.D.	1-3/16"	1-1/2"	3/4"
	LF2165LK	1/2" I.P.S. x 3/8" O.D.	1-3/16"	2-1/4"	3/4"
	LF2167	1/2" I.P.S. x 1/2" O.D.	1-3/16"	1-1/2"	3/4"
	LF2167LK	1/2" I.P.S. x 1/2" O.D.	1-3/16"	2-1/4"	3/4"



LK designates Loose Key

Specifications:

^{*} See options and accessories section for details on product variations.

S-3,PT-1

Model(s) DLR221910

PRODUCT SPECIFICATIONS

Elkay Lustertone® Classic Stainless Steel 22" x 19-1/2" x 10-1/8" Single Bowl Drop-in Sink. Sink is manufactured from 18 gauge 304 Stainless Steel with a Lustrous Satin finish, Center drain placement, and Sides and Bottom pads.

Installation Type:	Drop-in
Material:	304 Stainless Steel
Finish:	Lustrous Satin
Gauge:	18
Sound Deadening:	Sides and Bottom pads
Number of Bowls:	1
Sink Dimensions:	22" x 19-1/2" x 10-1/8"
Bowl 1 Dimensions:	18" x 14" x 10"
Drain Size:	3-1/2" (89mm)
Drain Location:	Center
Minimum Cabinet Size:	27"
Mounting Hardware:	Part # 64090012 included for countertops up to 3/4" (19mm) thick
Template Included:	No
Cutout Template #:	1000001255

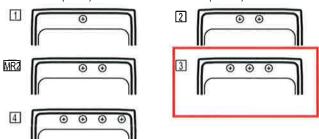
Template is available for download at elkay.com. CAD software will be required to open the template.

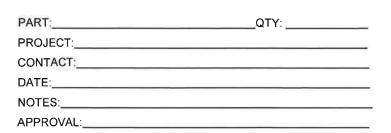
Cutout Dimensions for Drop-in Installation:

21-3/8" x 18-7/8" (543mm x 479mm) with 1-1/2" (38mm) corner radius

Hole Drilling Configurations:

1-1/2" (38mm) Diameter Faucet Holes on 4" (102mm) Centers







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Product Compliance:

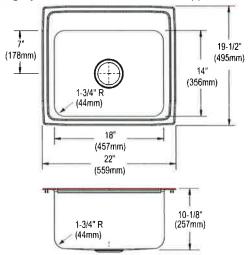
ASME A112,19,3/CSA B45.4



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

Clean and Care Manual (PDF)
Installation Instructions (PDF) - 1000005236
Warranty (PDF)

Similar models are available with: Perfect Drain, Quick-Clip Mounting System, CuVerro antimicrobial copper



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TES

Drawn:

KJG

Checked:

JRM

Approved:

JHB

Date:

12/10/19

Scale:

1:4

Sheet: 1 of 2

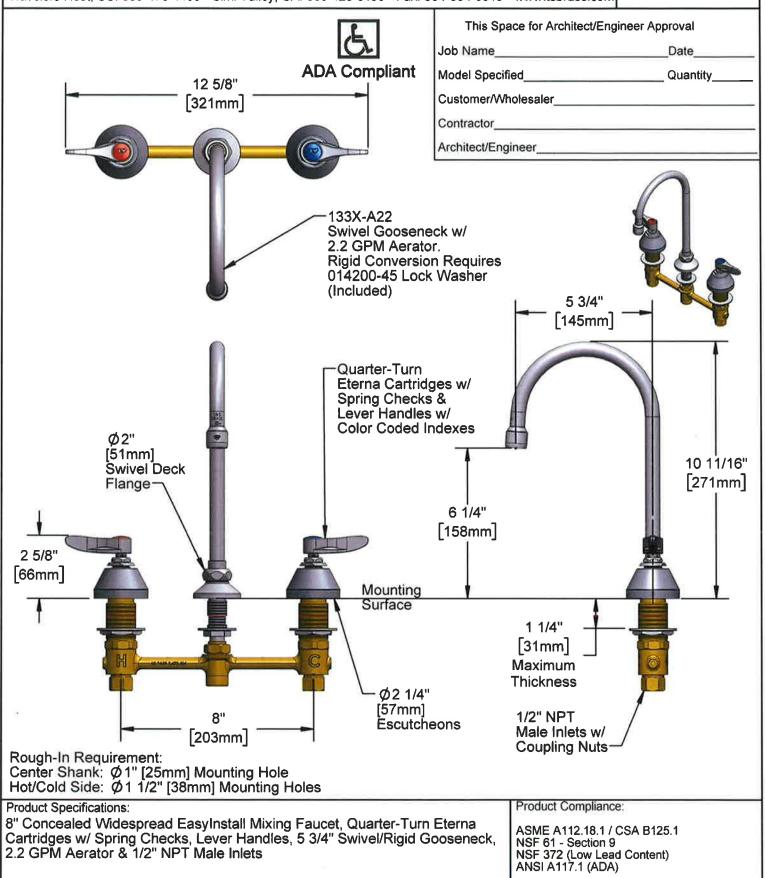
T&S BRASS AND BRONZE WORKS, INC.

2 Saddleback Cove / P.O. Box 1088 Travelers Rest, SC 29690 Model No.

B-2850

Item No.

Travelers Rest, SC: 800-476-4103 • Simi Valley, CA: 800-423-0150 • Fax: 864-834-3518 • www.tsbrass.com





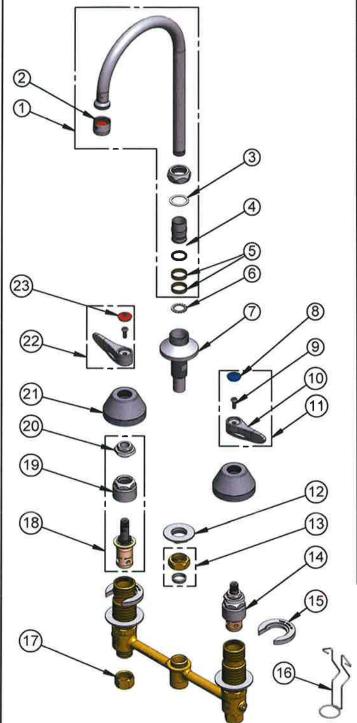
T&S BRASS AND BRONZE WORKS, INC.

2 Saddleback Cove / P.O. Box 1088 Travelers Rest, SC 29690 Model No.

B-2850

Item No.

Travelers Rest, SC: 800-476-4103 • Simi Valley, CA: 800-423-0150 • Fax: 864-834-3518 • www.tsbrass.com



1 133X-A22 5 3/4" Swivel Gooseneck w/ 2.2 G Aerator 2 B-0199-01 2.2 GPM Aerator, 55/64-27 UN Fe 3 009538-45 Swivel Washer 4 001074-45 O-Ring 5 011429-45 Swivel Sleeves (2) 6 014200-45 Star Washer, Anti-Rotation 7 016754-40NS EasyInstall CWS Swivel Center Sl 8 018506-19NS Blue Button Index, Press-in 9 000925-45 Lab Handle Screw	
3 009538-45 Swivel Washer 4 001074-45 O-Ring 5 011429-45 Swivel Sleeves (2) 6 014200-45 Star Washer, Anti-Rotation 7 016754-40NS EasyInstall CWS Swivel Center Sl 8 018506-19NS Blue Button Index, Press-in 9 000925-45 Lab Handle Screw	male
4 001074-45 O-Ring 5 011429-45 Swivel Sleeves (2) 6 014200-45 Star Washer, Anti-Rotation 7 016754-40NS EasyInstall CWS Swivel Center Sl 8 018506-19NS Blue Button Index, Press-in 9 000925-45 Lab Handle Screw	
5 011429-45 Swivel Sleeves (2) 6 014200-45 Star Washer, Anti-Rotation 7 016754-40NS EasyInstall CWS Swivel Center Sl 8 018506-19NS Blue Button Index, Press-in 9 000925-45 Lab Handle Screw	
6 014200-45 Star Washer, Anti-Rotation 7 016754-40NS EasyInstall CWS Swivel Center SI 8 018506-19NS Blue Button Index, Press-in 9 000925-45 Lab Handle Screw	
7 016754-40NS EasyInstall CWS Swivel Center SI 8 018506-19NS Blue Button Index, Press-in 9 000925-45 Lab Handle Screw	
8 018506-19NS Blue Button Index, Press-in 9 000925-45 Lab Handle Screw	
9 000925-45 Lab Handle Screw	nank
10 001638-45NS Lever Handle (New Style)	
11 001637-45NS Lever Handle, Red Index & Screw	
12 016742-45 Center Flange Nut	
13 016745-45 Compression Nut & Fitting	
14 016752-40NS EasyInstall, CWS Quarter- Turn E Cartridge w/ Spring Check, LTC	terna
15 016749-45 Sidebody C-Washer	
16 016777-45 CWS Hanger	
17 000958-20 Coupling Nut	
18 016753-40NS EasyInstall, CWS Quarter- Turn E Cartridge w/ Spring Check, RTC	terna
19 016743-25 CWS Eterna Bonnet	
20 009002-40NS Packing Nut	
21 001257-40NS Bell Escutcheon	
22 001636-45NS Lever Handle, Blue Index & Screv	,
23 001193-19NS Red Button Index, Press-in	



017245-40 Installation Repair Kit Includes #12, (2)#15, & #16

Product Specifications:

8" Concealed Widespread EasyInstall Mixing Faucet, Quarter-Turn Eterna Cartridges w/ Spring Checks, Lever Handles, 5 3/4" Swivel/Rigid Gooseneck, 2.2 GPM Aerator & 1/2" NPT Male Inlets

Product Compliance:

ASME A112.18.1 / CSA B125.1 NSF 61 - Section 9 NSF 372 (Low Lead Content) ANSI A117.1 (ADA)

Drawn: KJG Checked: JRM Approved: JHB Date: 12/10/19 Scale: NTS Sheet: 2 of 2



McGuire Manufacturing Co., Inc.

60 Grandview Court
P.O. Box 746 ♣ Cheshire, CT 06410
203-699-1801 ♣ Fax: 203-699-1813
www.mcguiremfg.com

PRODUCT SPECIFICATION

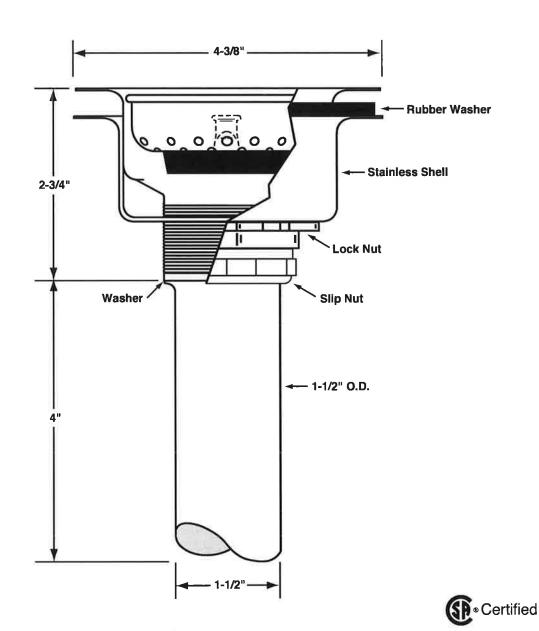
Part No.

151A

Stainless Steel Basket Strainer

Job Name:

Submittal Number:



See options and accessories section for details on product variations.

Specifications:

Heavy Duty Forged Stainless Steel Basket Strainer with 1-1/2" \times 4" seamless brass tailpiece, die cast slip and lock nuts. Basket Strainer shall be in compliance with CSA or other recognized testing authority and bear both manufacturer and testing mark.

Engineering Specification

Job Name AMS Charter School	Contractor Comfort Systems USA
Job Location LR	Approval
Engineer Ragsdale	Contractor's P.O. No.
Approval	Representative Sanders Supply

SI-742

Hair, Plaster & Sediment Interceptor

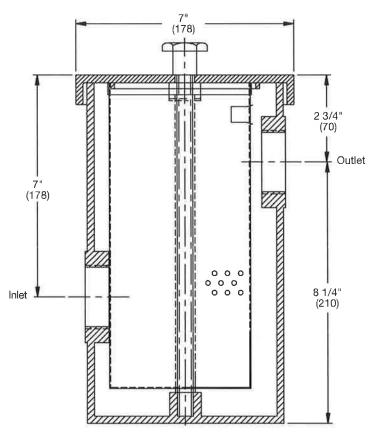
Specification

Watts SI-742 floor mounted epoxy coated cast aluminum sediment interceptor with removable stainless steel sediment basket, gasketed cover, and 2"(51) IPS threaded connections.

Note: 10"(254) clearance required above cover to remove sediment basket.

O _l Suffix	otions (Select One or More) Description	
-SS	Stainless Steel	





NOTICE

The information contained herein is not intended to replace the full product installation and safety information available or the experience of a trained product installer. You are required to thoroughly read all installation instructions and product safety information before beginning the installation of this product.

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.



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ES-WD-SI-742 2145 © 2021 Watts



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PRODUCT SPECIFICATION

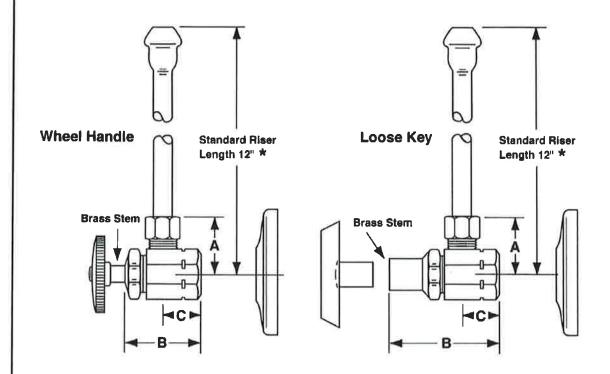
Part No.

LF2165, LF2165LK, LF2167LK

Lavatory Supply 1/2" I.P.S. x O.D.

Job Name:

Submittal Number:



NO.		DESCRIPTION	ROUGHING MEASUREMENTS		
		DESCRIPTION	A	В	С
- F	LF2165	1/2" I.P.S. x 3/8" O.D.	1-3/16"	1-1/2"	3/4"
\geq	LF2165LK	1/2" I.P.S. x 3/8" O.D.	1-3/16"	2-1/4"	3/4"
	LF2167	1/2" I.P.S. x 1/2" O.D.	1-3/16"	1-1/2"	3/4"
	LF2167LK	1/2" I.P.S. x 1/2" O.D.	1-3/16"	2-1/4"	3/4"



LK designates Loose Key

Specifications:

Supply kit shall include low lead chrome plated brass supply stop valves with full turn brass stem, no plastic, (12, 15, 20) inch chrome plated risers and (shallow, deep, bell) (steel, brass) or (forged brass with set screw) flange. Inlet shall be (3/8, 1/2) inch (IPS, compression). Outlet shall be (3/8, 1/2) inch compression. Supply kit shall be McGuire _______. Supply kit shall be low lead certified by recognized authority and bear manufacturer and testing mark.

^{*} See options and accessories section for details on product variations.

FD-1

Liigii	reering opecification	
Job Name AMS Charter School	Contractor Comfort Systems USA	
Job Location LR	Approval	
Engineer Ragsdale		_
Approval	Representative Sanders Supply	_
FD-1		

FD-100-A

Floor Drain with Round Strainer

Specification

Watts FD-100-A epoxy coated cast iron floor drain with anchor flange, reversible clamping collar with primary and secondary weepholes, adjustable round heel proof nickel bronze strainer, and no hub (standard) outlet.

	Suffix	Description	
	2	2"(51) Pipe Size	
	3	3"(76) Pipe Size	
	4	4"(102) Pipe Size	
	6	6"(152) Pipe Size (NH Only)	
	-	Outlet Type	
	Suffix	Description	
-	-NH	No Hub (MJ)	
ı	Р	Push On	•
-	1	Inreaged Outlet	
ļ	X	Inside Caulk	
		Strainer	
	Suffix	Description	
	A5	5"(127) Dia Nickel Bronze	G
1	A6	6"(127) Dia., Nickel Bronze	•
A	ÄÏ	7 (170) Dia., Wickel Bronze	
	A8	8"(203) Dia., Nickel Bronze	

10"(254) Dia., Nickel Bronze

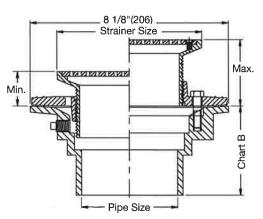
Pipe Sizing

Suffix	Description		
-5	Sediment Bucket		
C	Vandal Proof		
-7	Trap Primer Tapping	☑	
-8-	Backwater Valve (2, 3, 4" Only)		
-13	Galvanized Body		
-15	Strainer Extension (DD-50)		
-F4-50	4" Round Cast Iron Funnel		
-F4-1	4" Round Nickel Bronze Funnel		
-F6-1	6" Round Nickel Bronze Funnel		
-G-50	4x9" Oval Cast Iron Funnel		
-G-1	4x9" Oval Nickel Bronze Funnel		
-S0	Side Outlet		
	Optional Body Material		

Options

Optional Body Material				
Suffix	Description			
-60	PVC Body w/Socket Outlet (2, 3, 4" Only)			
-61	ABS Body w/Socket Outlet (2, 3, 4" Only)			





Strainer Size					
Str. Dia	Min.	Max.	Load Rating	Free Area Sq. In.	
5"(127)	13/16"(21)	3 1/4"(83)	*MD	8	
6"(152)	7/8"(22)	3 3/8"(86)	*MD	9	
7"(178)	11/16"(17)	3 1/4"(83)	*MD	12	
8"(203)	7/8"(22)	3 1/4"(83)	*MD	18	
10"(254)	1 1/4"(32)	3 1/4"(83)	*MD	28	

NOTICE

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		Ch	art B		
Pipe Size	Std. No Hub	P Push On	T Female Thread	X Inside Caulk	60/61 PVC/ ABS
2"(52)	3 5/8"(92)	4 1/4"(108)	4 1/4"(108)	4 1/2"(114)	4"(102)
3"(76)	3 5/8"(92)	4 1/4"(108)	4 1/4"(108)	4 1/2"(114)	4"(102)
4"(102)	3 5/8"(92)	4 1/4"(108)	4 1/4"(108)	4 1/2"(114)	4"(102)
6"(152)	3 1/2"(89)				

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Latin America: T: (52) 55-4122-0138 • Watts.com

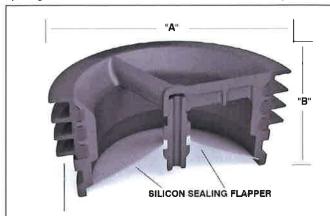


MI-GARD®

FLOOR DRAIN TRAP SEAL

Specification: MIFAB® MI-GARD® Series inline floor drain trap seal with UV resistant ABS plastic frame, silicon rubber sealing flapper and four flexible sealing ribs. Tested and certified to the ASSE 1072 Standard and listed with IAPMO and I.P.C. Specify connection size (1 1/2", 2", 3", 3 1/2", 4" or 6"). 10 year warranty is included.

Function: Used in the outlet connections of floor drain bodies, or the inside of floor drain strainers to seal the opening to prevent odors, sewer gases, and insects from entering up through the floor drain grate. The MI-GARD®'s four flexible silicone sealing ribs ensure easy installation into openings that have variations in size. The MI-GARD® will open to allow drainage and close when there is no water flow.



SILICON GASKET FLEXES .100" TO FIT DIAMETER







BOTTOM OF BODY



TOP OF STRAINER

MODEL NO.	"A" (PIPE SIZE)	"B" (HEIGHT)
MI-GARD-1.5	1-1/2" (38)	2" (51)
○ MI-GARD-2	2" (51)	2" (51)
MI-GARD-3	3" (76)	2" (51)
MI-GARD-3.5	3 1/2" (89)	2" (51)
MI-GARD-4	4" (102)	2" (51)
○ MI-GARD-6	6" (152)	2" (51)

MI-GARD® prevents the following from entering through the top of floor drains:

Odors and sewer gases
 Insects

Not intended to be used in lieu of a trap seal primer. 6" MI-GARD not IAPMO certified. Note: The MI-GARD-6 is designed in accordance with industry standards but is not listed. MI-GARD Floor Drain Trap Seals are in compliance with International Plumbing Code (I.P.C.)





MI-GARD-1.5

CALIFORNIA PROPOSITION 65 WARNING. This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Job Name: AMS Charter School	F
Section No:	

Page No: =

Contractor: Comfort Systems USA

Schedule No:

Purchase Order No: =

FS-1

Engineering Specification

Job Name AMS Charter School	Contractor Comfort Systems USA
	Contractor
Job Location LR	Approval
Engineer Ragsdale	Contractor's P.O. No.
Approval	Representative Sanders Supply
_ FS-1	

FS-710

8" Square x 6" Deep Sanitary Floor Sink

Specification

Watts FS-710 8"(203) square x 6"(152) deep sanitary floor sink with white acid resistant porcelain enamel coated interior, loose set porcelain enamel coated cast iron grate, polypropylene dome bottom strainer, and no hub (standard) outlet.

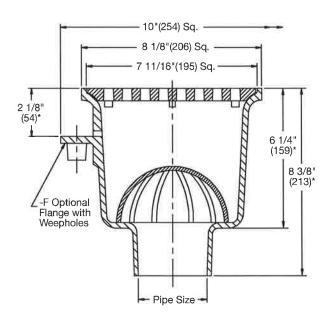
Pipe Sizing			
Suffix	Description		
2	2"(51) Pipe Size		
3	3"(76) Pipe Size		
4	4"(102) Pipe Size		

Outlet Type		
Suffix Description		
NH	No Hub (MJ)	
Р	P Push-On	

	Options	ш
Suffix	Description	
-F	Flange with Weepholes	Ø
-FC	Flange w/Weepholes & Flashing Clamp	
-1	Nickel Bronze Top	Z
-3	Stainless Rim & Grate	
-5	Sediment Bucket	
-6	Vandal Proof (-1 Only)	
-7	Trap Primer Tapping	
-9	Hinged Grate (-1 Only)	Ø
-21	Secondary Strainer	ш
-33	Less Grate	
-150	1/2 Grate	
-175	3/4 Grate	
-F4-1	4" Round Nickel Bronze Funnel	
-F6-1	6" Round Nickel Bronze Funnel	
-G-1	4x9" Oval Nickel Bronze Funnel	

Free Area Sq. In.			
Standard Grate	With -1/-3 Grate		
16 19			

Please refer to watts.com for BAA information on specific models.



*Add 5/8"(16) for -1 Nickel Bronze Top or -3 Stainless Steel Top

NOTICE

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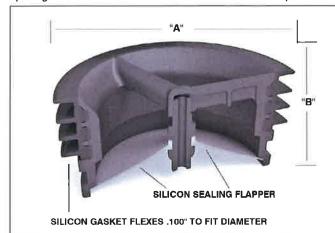


MI-GARD®

FLOOR DRAIN TRAP SEAL

Specification: MIFAB® MI-GARD® Series inline floor drain trap seal with UV resistant ABS plastic frame, silicon rubber sealing flapper and four flexible sealing ribs. Tested and certified to the ASSE 1072 Standard and listed with IAPMO and I.P.C. Specify connection size (1 1/2", 2", 3", 3 1/2", 4" or 6"). 10 year warranty is included.

Function: Used in the outlet connections of floor drain bodies, or the inside of floor drain strainers to seal the opening to prevent odors, sewer gases, and insects from entering up through the floor drain grate. The MI-GARD®'s four flexible silicone sealing ribs ensure easy installation into openings that have variations in size. The MI-GARD® will open to allow drainage and close when there is no water flow.









BOTTOM OF BODY	В	O	TT	0	M	OF	В	OD	Υ
----------------	---	---	----	---	---	----	---	----	---

TOP OF STRAINER

MODEL NO.	"A" (PIPE SIZE)	"B" (HEIGHT)
MI-GARD-1.5	1-1/2" (38)	2" (51)
MI-GARD-2	2" (51)	2" (51)
○ MI-GARD-3	3" (76)	2" (51)
MI-GARD-3.5	3 1/2" (89)	2" (51)
MI-GARD-4	4" (102)	2" (51)
MI-GARD-6	6" (152)	2" (51)

MI-GARD® prevents the following from entering through the top of floor drains:

Odors and sewer gases
 Insects

Not intended to be used in lieu of a trap seal primer. 6" MI-GARD not IAPMO certified. Note: The MI-GARD-6 is designed in accordance with industry standards but is not listed. MI-GARD

Floor Drain Trap Seals are in compliance with International Plumbing Code (I.P.C.)





CALIFORNIA PROPOSITION 65 WARNING. This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Job Name: AMS Charter School Page No:

Section No: Contractor: Comfort Systems USA

Schedule No: Purchase Order No:

FS-2

Engineering Specification

Job Name AMS Charter School	Contractor Comfort Systems USA
Job Location LR	Approval
Engineer Ragsdale	Contractor's P.O. No.
Approval	Representative Sanders Supply
FS-2	

FS-710

8" Square x 6" Deep Sanitary Floor Sink

Specification

Watts FS-710 8"(203) square \times 6"(152) deep sanitary floor sink with white acid resistant porcelain enamel coated interior, loose set porcelain enamel coated cast iron grate, polypropylene dome bottom strainer, and no hub (standard) outlet.

Pipe Sizing			
Suffix Description			
2	2"(51) Pipe Size		
3	3"(76) Pipe Size		
4	4"(102) Pipe Size	\Box	

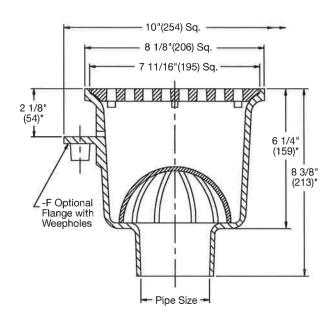
	Outlet Type	
Suffix Description		
NH	No Hub (MJ)	
P Push-On		

Options				
Suffix	Description			
-F	Flange with Weepholes	Ø		
-FC	Flange w/Weepholes & Flashing Clamp			
-1	Nickel Bronze Top	Z		
-3	Stainless Rim & Grate			
-5	Sediment Bucket			
-6	Vandal Proof (-1 Only)			
-7	Trap Primer Tapping			
-9	Hinged Grate (-1 Only)			
-21	Secondary Strainer			
-33	Less Grate			
-150	1/2 Grate			
-175	3/4 Grate	Ø		
-j-4-1	4* Hound Nickel Bronze Funnel	ш		
-F6-1	6" Round Nickel Bronze Funnel			
-G-1	4x9" Oval Nickel Bronze Funnel			

Free Area Sq. In.		
Standard Grate	With -1/-3 Grate	
16	19	

Please refer to watts.com for BAA information on specific models.





*Add 5/8"(16) for -1 Nickel Bronze Top or -3 Stainless Steel Top

NOTICE

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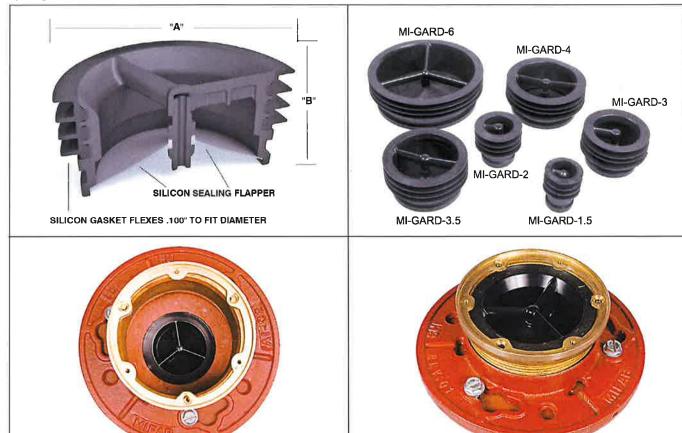
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FLOOR DRAIN TRAP SEAL

Specification: MIFAB® MI-GARD® Series inline floor drain trap seal with UV resistant ABS plastic frame, silicon rubber sealing flapper and four flexible sealing ribs. Tested and certified to the ASSE 1072 Standard and listed with IAPMO and I.P.C. Specify connection size (1 1/2", 2", 3", 3 1/2", 4" or 6"). 10 year warranty is included.

Function: Used in the outlet connections of floor drain bodies, or the inside of floor drain strainers to seal the opening to prevent odors, sewer gases, and insects from entering up through the floor drain grate. The MI-GARD®'s four flexible silicone sealing ribs ensure easy installation into openings that have variations in size. The MI-GARD® will open to allow drainage and close when there is no water flow.



MODEL NO.	"A" (PIPE SIZE)	"B" (HEIGHT)
MI-GARD-1.5	1-1/2" (38)	2" (51)
MI-GARD-2	2" (51)	2" (51)
MI-GARD-3	3" (76)	2" (51)
MI-GARD-3.5	3 1/2" (89)	2" (51)
MI-GARD-4	4" (102)	2" (51)
MI-GARD-6	6" (152)	2" (51)

MI-GARD® prevents the following from entering through the top of floor drains:

BOTTOM OF BODY

· Odors and sewer gases · Insects

Not intended to be used in lieu of a trap seal primer. 6" MI-GARD not IAPMO certified. Note:

The MI-GARD-6 is designed in accordance with industry standards but is not listed. MI-GARD

Floor Drain Trap Seals are in compliance with International Plumbing Code (I.P.C.)



TOP OF STRAINER



MI-GARD-1.5

CALIFORNIA PROPOSITION 65 WARNING. This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Job Name: AMS Charter School Page No: Contractor: Comfort Systems USA

Schedule No: Purchase Order No:

FS-3

Engineering Specification

Job Name AMS Charter School	Contractor Comfort Systems USA
Job Location LR	Approval
Engineer Ragsdale	Contractor's P.O. No.
Approval	Representative Sanders Supply

FS-740

12" Square x 8" Deep Sanitary Floor Sink

Specification

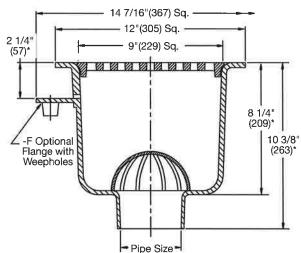
Watts FS-740 12" square x 8"deep sanitary floor sink with white acid resistant porcelain enamel coated interior, loose set porcelain enamel coated cast iron grate, polypropylene dome bottom strainer, and no hub (standard) outlet.

Call customer service at 1 (800) 338-2581 if you need assistance with technical details.

	Pipe Sizing		Outlet Type	Ţ
Suffix	Description	Suffix	Description	T
2	2"(51) Pipe Size	NH	No Hub (MJ)	T
3	3"(76) Pipe Size	Р	Push-On	
4	4"(102) Pipe Size			_

Options					
Suffix	Description		L		
-F	Flange with Weepholes				
-FC	Flange w/Weepholes & Flashing Clamp				
FS DS SS	Stainlese Steel Dome-Strainer	-0	-		
-1	Nickle Bronze Top	1			
-3	Stainless Steel Rim & Grate				
-5	Sediment Bucket				
-6	Vandal Proof (-1, -3 Only)		l		
-7	-7 Trap Primer Tapping				
-9	Hinged Grate (-1 Only)		١		
-21	Secondary Strainer				
-33	Less Grate				
-128	Grate w/2 1/2"(64)				
-120	Center Opening	_	h		
-150	1/2 Grate				
175	3/A Grate		Ļ		
-F4-1	4" Round Nickel Bronze Funnel				
-F6-1	6" Round Nickel Bronze Funnel				
-G-1	4 x 9" Oval Nickel Bronze Funnel				





*Add 5/8"(16) for -1 Nickel Bronze Top or -3 Stainless Steel Top

Free Area Sq. In.				
Standard	With -1/-3			
Grate	Rim & Grate			
31	47			

NOTICE

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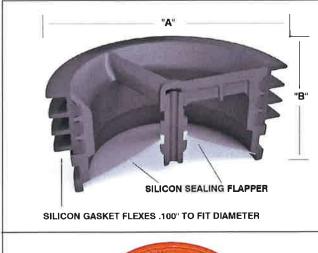


MI-GARD®

FLOOR DRAIN TRAP SEAL

Specification: MIFAB® MI-GARD® Series inline floor drain trap seal with UV resistant ABS plastic frame, silicon rubber sealing flapper and four flexible sealing ribs. Tested and certified to the ASSE 1072 Standard and listed with IAPMO and I.P.C. Specify connection size (1 1/2", 2", 3", 3 1/2", 4" or 6"). 10 year warranty is included.

Function: Used in the outlet connections of floor drain bodies, or the inside of floor drain strainers to seal the opening to prevent odors, sewer gases, and insects from entering up through the floor drain grate. The MI-GARD®'s four flexible silicone sealing ribs ensure easy installation into openings that have variations in size. The MI-GARD® will open to allow drainage and close when there is no water flow.









BOTTOM OF BODY

TOP	OF	STR	AIN	IER

MODEL NO.	"A" (PIPE SIZE)	"B" (HEIGHT)
MI-GARD-1.5	1-1/2" (38)	2" (51)
MI-GARD-2	2" (51)	2" (51)
MI-GARD-3	3" (76)	2" (51)
MI-GARD-3.5	3 1/2" (89)	2" (51)
MI-GARD-4	4" (102)	2" (51)
MI-GARD-6	6" (152)	2" (51)

MI-GARD® prevents the following from entering through the top of floor drains:

• Odors and sewer gases • Insects

Not intended to be used in lieu of a trap seal primer. 6" MI-GARD not IAPMO certified. Note:

The MI-GARD-6 is designed in accordance with industry standards but is not listed. MI-GARD

Floor Drain Trap Seals are in compliance with International Plumbing Code (I.P.C.)





CALIFORNIA PROPOSITION 65 WARNING. This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Job Name: AMS Charter School

Section No:

Contractor: Comfort Systems USA

Schedule No:

Purchase Order No:

HB-1

Engineering Specification

Liigiile	Lingineering Specification				
Job Name AMS Charter School	Contractor Comfort Systems USA				
Job Location LR	Approval	_			
Engineer Ragsdale	Contractor's P.O. No.	_			
Approval	Representative Sanders Supply	_			
Tag HB-1					

HY-420

Non-Freeze Wall Hydrant with Chrome Face & Integral Vacuum Breaker

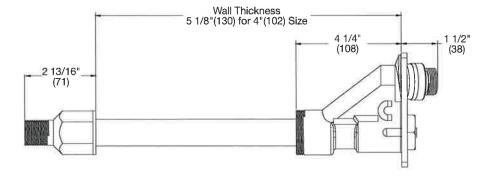
Specification:

Watts HY-420 non-freeze key operated wall hydrant with chrome plated face, integral vacuum breaker, 3/4"(19) hose connection, 3/4"(19) female x 1"(25) male pipe connection, all bronze head, seat casting and internal working parts, bronze wall casing, and loose key. Complies with ASME B1.20.7, and ASSE 1019-2004, UPC/IAPMO listed. Maximum operating pressure 125 psi.



Suffi	Wall Thickness x Description	HI
4	4"(102) Thick	
6	6"(152) Thick	
8	8"(203) Thick	
10	10"(254) Thick	
12	12"(305) Thick	7
14	14"(356) Thick	
16	16"(406) Thick	
18	18"(457) Thick	
20	20"(508) Thick	
22	22"(559) Thick	
24	24"(610) Thick	
Other	Specify	□





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Recommended Wall Opening: 2"(51) x 4"(102)

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HB-2

Engineering Specification Job Name AMS Charter School Job Location LR Engineer Ragsdale Approval Approval Representative Sanders Supply

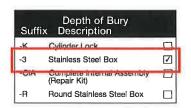
HY-330

HB-2

Moderate Climate Wall Hydrant with NB Box, Integral Vacuum Breaker

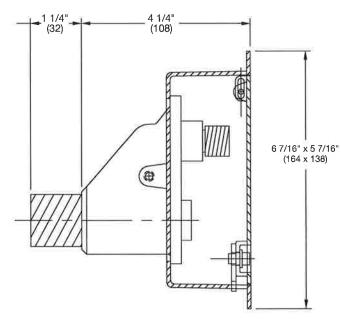
Specification:

Watts HY-330 concealed moderate climate key operated wall hydrant with nickel bronze box and door, chrome plated hydrant face, integral vacuum breaker, 3/4"(19) hose connection, 3/4"(19) female x 1"(25) male pipe connection, all bronze head, seat casting and internal working parts, and loose key. Complies with ASSE 1019-2004, UPC/IAMPO Listed. Max. operating pressure 125 psi.



Recommended Wall Opening: 5-1/4" x 6-1/4" (133 x 158)





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EWC-1



We Know Water.

UNIVERSAL BARRIER-FREE VERSACOOLER® II WITH HANDS-FREE VERSAFILLER



PGEBFSL

Suggested Specification

Model PG8EBFSL shall deliver 8.0 gph of 50°F water at 90°F ambient and 80°F inlet water per ASHRAE 18 testing. Model PGEBFSL is a non-refrigerated drinking fountain and delivers ambient water. Both shall include the VersaFiller sports bottle filler with handsfree activation; fountains shall have four push pads to activate the manual flow of water for the cooler. Hands-free VersaFiller components contain Freshield®, which utilizes a silver-based antimicrobial compound to protect the surfaces from discoloration, odors and degradation caused by the growth of micro-organisms and mildew. Basin shall be designed to eliminate splashing and standing water. Water saver bubbler to reduce waste water by 50% and shall have flexible guard and operate between 20 and 100 PSI. Cabinet finish shall be brushed stainless steel or greystone on galvanized steel. Shall use R-134a refrigerant. Shall comply with ANSI 117,1 and ADA, Shall be listed by Underwriters Laboratories to US and Canadian standards. Shall comply with NSF/ANSI 61 and NSF/ANSI 372.

		PG8EBFSL		PGEBFSL			
	ж	Waterways are Lead-Free in materials & construction					
	(2)	 Flexible one-piece water saver bubbler guard infused with silver based antimicrobial additive 					
	8	Stainless steel galvanized ste					
Features:	8	High efficience refrigerant R-1		ng system and			
	6	 Four push pads per fountain 					
	 External stream height adjustment on lower unit 						
	3	Hands-free VersaFiller					
	÷	Built in filter monitor and bottle counter					
Filtration:		Option to add	l Versa	filter Filtration System			
Power:			115 Volt	s, 60 Hz			
Activation By:				on Bottle Filler and ion on Fountains			
Mounting Type:		Wall Mounted					
Chilling Option:	8,0 gph Non-Refrigerated			Non-Refrigerated			
Installation Location:		Indoor					



Installation

- Prior to rough-in consult with local, state and federal codes for proper mounting height
- Shipped with complete instructions and wall mounting bracket
- Removable side and front panels provide easy access for installation.

Finishes

Standard cabinet finish: Greystone powder coated paint on galvanized steel

Optional tinisnes: Sandstone powder coated paint;
 Stainless steel (at additional cost)

Options

- One piece chrome plated brass bubbler (036700-001)
- VersaFilter

Limited 5-Year Warranty

(Continental limits of the United States and Canada)
Five years on the sealed refrigeration system and most
component parts. Detailed warranty certificate enclosed
with each water cooler; sample available upon request.

Export Warranty

One year on components parts. Detailed warranty certificate enclosed with each drinking fountain; sample copy available upon request.

Certifications/Compliance

- Certified to UL 399 and CAN/CSA C22,2 No.120 (electric water coolers only)
- Product Certified to NSF/ANSI Standard 61-G & 372 and conforms with the lead content requirements for "Lead Free" plumbing as defined by California, Vermont, Maryland, and Louisiana state laws and the U.S. Safe Drinking Water Act
- These waters coolers comply with the requirements of ADA (Americans with Disabilities Act) when properly installed



WARNING:

Cancer and Reproductive Harm www.P65Warnings.ca.gov





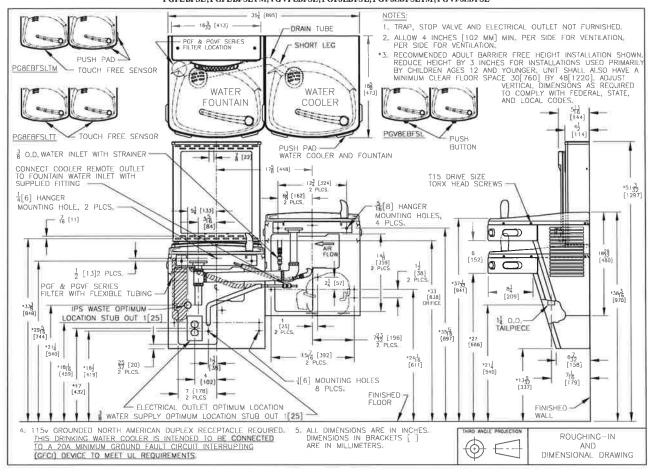






UNIVERSAL BARRIER-FREE VERSACOOLER® II WITH HANDS-FREE VERSAFILLER

OASIS® VERSACOOLER®II MODELS with Versfiller®
PGEBFSL, PGVEBFSL, PGEBFSLTM, PG8EBFSL, PGV8EBFSL, PG8EBFSLTM,
PGFEBFSL, PGFEBFSLTM, PGVFEBFSL, PGF8EBFSLTM, PGVF8EBFSL





McGuire Manufacturing Co., Inc. 60 Grandview Court

Cheshire, Connecticut 06410 (203) 699-1801 Fax (203) 699-1813 customerservice@meguiremfg.com meguiremfg.com

PRODUCT SPECIFICATION

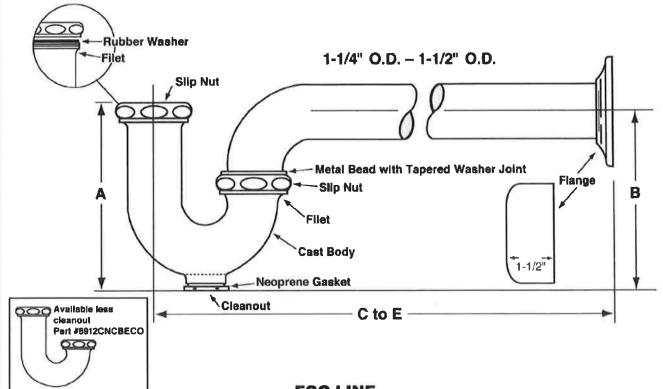
Part No.

C8872CECO

Cast Body P-Trap With or Without Cleanout

Job Name:

Submittal Number:



ECO-LINE

		ROUGHING I	MEASU	REME	NTS		
	TRAP DIMENSIONS						
MODEL NO.	INLET	OUTLET	A	В	C to E	FLANGE	SLIP NUT
C8872CECO	1-1/4"	1-1/4"	4-1/2"	4-1/2"	10"	Shallow	Zinc

FED SPEC W.W.P. 541 **CAST BRASS P-TRAP** MINIMUM SEAL 2"



ASME A112.18.2/CSA B125.2

Specifications:

Chrome plated P-Trap shall be cast brass body, with or without cleanout, with 17 gauge seamless tubular wall bend and flange.



This product can expose you to chemicals Including lead, which is known to the State of California to cause cancer, and birth defects or other reproductive harm, For more information go to www P65Warnings.ca.gov.



McGuire Manufacturing Co., Inc.

60 Grandview Court P.O. Box 746 • Cheshire, CT 06410 203-699-1801 • Fax: 203-699-1813

www.mcguiremfg.com

PRODUCT SPECIFICATION

Part No.

LFST17<mark>, LFS17LK,</mark> LFST17X,

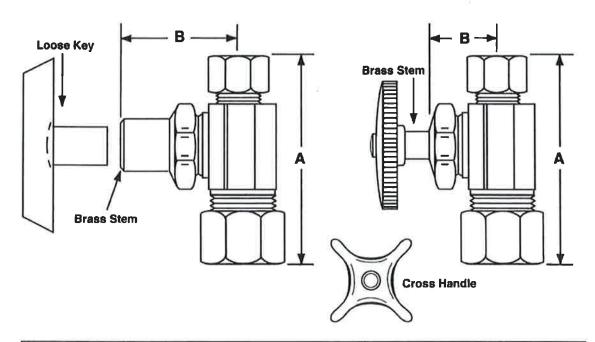
LFST18, LFST18X

Straight Supply Stop Nominal x O.D.

Job Name:

Submittal Number:

Compression to Compression



	NO.	DESCRIPTION	ROUGHING ME	SUREMENTS
NO.	DESCRIPTION	A	В	
	LEST17	1/2" Nominal x 3/8" O.D.	2-1/4"	7/8"
\rightarrow	LFST17LK	1/2" Nominal x 3/8" O.D.	2-1/4"	1-5/8"
	LFST17X	1/2" Nominal x 3/8" O.D.	2-1/4"	7/8"
	LFST18	1/2" Nominal x 1/2" O.D.	2-1/4"	7/8"
	LFST18LK	1/2" Nominal x 1/2" O.D.	2-1/4"	1-3/4"
	LFST18X	1/2" Nominal x 1/2" O.D.	2-1/4"	7/8"

LK designates Loose Key

X designates Heavy Brass Cross Handle

See options and accessories section for details on product variations.

ASME A112.18.1-2011/CSA B125.1-11

Specifications:

Chrome plated brass, supply stop	p valve with full turn brass stem. Inlet shall be (3/8, 1/2) inch (IPS,
sweat, compression). Outlet shal	l be (3/8, 1/2) inch (IPS, compression). Supply stop valve shall be
McGuire	Supply stop valve shall be certified by recognized testing
authority and bear manufacturer	and testing mark.

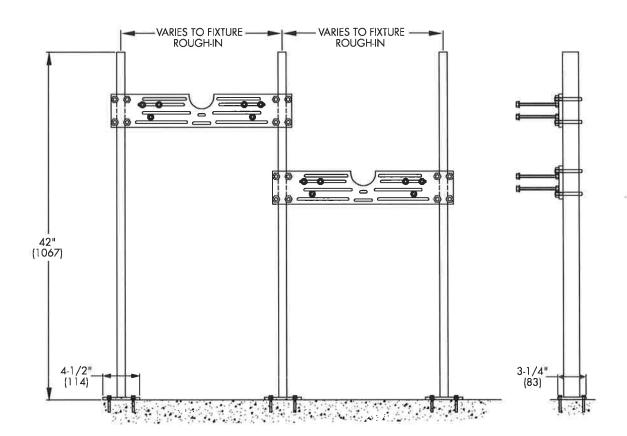


CA-431-1

Tag: EWC-1

Floor Mounted Plate Type Lavatory/Water Cooler Carrier

SPECIFICATION: Watts Drainage CA-431-1 floor mounted bi-level water cooler carrier with heavy gauge steel uprights with integral welded feet, universal steel hanger support plate, and plated hardware.



Note: Anchor legs to concrete floor with minimum 1/2" (13) anchor bolts (by others).

Job Name AMS Charter School	Contractor Comfort Systems USA	
Job Location LR	Contractor's P.O. No.	
Engineer Ragsdale	Representative Sanders Supply	

WATTS Drainage reserves the right to madify ar change product design or construction without prior notice and without incurring any obligation to make similar changes and modifications to products previously or subsequently solds. See your WATTS Drainage representative for any clarification. Dimensions are subject to manufacturing tolerances.



USA: 100 Watts Road, Spindale, NC, 28160-2298; TEL: 828-288-2179 TOLL-FREE: 1-800-338-2581 www.watts.com

RPZ-1



Model 375AST

Reduced Pressure Principle Assembly

Application

Designed for installation on potable water lines to protect against both backsiphonage and backpressure of contaminated water into the potable water supply. The Model 375AST provides protection where a potential health hazard exists. Ideal for use where lead-free* valves are required.

Standards Compliance

- · ASSE® Listed 1013
- AWWA Compliant C511 (with gates only), and C550
- FM® Approved
- · UL® Classified
- · C-UL® Classified
- · CSA® Certified B64.4
- · cUPC® Listed
- · Approved by the Foundation for Cross Connection Control and Hydraulic Research at the University of Southern Cali-
- Meets the requirements of NSF/ANSI/CAN 61*
- *(0.25% MAX. WEIGHTED AVERAGE LEAD CONTENT)

Materials

Main Valve Body 304L Stainless steel Access covers 304L Stainless steel

Coatings FDA Approved electrostatic epoxy

Internals Stainless steel, 300 Series NORYL™

Fasteners & Springs Stainless Steel, 300 Series EPDM (FDA approved) Seal rings O-rings Buna Nitrile (FDA approved) Sensing line Stainless Steel, braided hose

Features

Sizes: 2 1/2", 3", 4", 6", 8", 10" Maximum working water pressure 175 PSI Maximum working water temperature 140°F Hydrostatic test pressure 350 PSI End connections

AWWA C606 (Grooved for steel pipe) (Flanged bolt pattern) **ASME B16.42**

Class 150

Dimensions & Weights (do not include pkg.)

ſ									WE	IGHT						
	MODEL 375AST SIZE		WITH- OUT GATES		WITH NRS GATES (GXF)		WITH OS&Y GATES (GXF)		WITH NRS GATES (GXG)		WITH OS&Y GATES (GXG)		WITH BUTTERFLY VALVES (GXG)		WITH BUTTERFLY VALVES (GXF)	
ı	in.	mm	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg
I	2 1/2	65	41	19	102	46	120	54	92	42	110	50	87	39	97	44
-[3	80	42	19	119	54	137	62	107	49	125	57	91	41	104	47
I	4	100	43	20	176	80	212	96	156	71	192	87	95	43	117	53
I	6	150	71	32	288	130	346	157	258	117	316	143	158	71	188	85
ľ	8	200	177	80	579	263	661	300	539	244	607	275	361	164	407	185
	10	250	177	80	784	356	880	399	732	332	822	373	458	208	516	234









Ontione	/Cuffiyor	can ha	combined)	
Jouons	COUNTRIES	Call De	CONTROLLED TO	_

- with flanged end NRS gate valves (standard) ☐ FSC with epoxy coated wye type strainer (flanged only)
- with grooved end NRS gate valves G \Box
- ☐ GF with grooved inlet gate connection and flanged outlet gate connection
- □ FG with flanged inlet gate connection and grooved outlet gate connection
- with flanged end OS&Y gate valves □ OSY □ OSYG with grooved end OS&Y gate valves
- □ BG with grooved end butterfly valves with integral
- supervisory switches with flanged end butterfly valves with integral □ BF

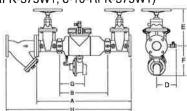
supervisory switches

*New Connected Products. Search ZCSM-PF on Zurn.com for details.

Accessories

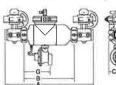
- □ Connected Pressure Monitor (Model ZCSM-PF)*
- Connected Flow Meter Option (Model ZCSM-BTM must be ordered with Model ZCSM-PF)*
- ☐ Repair kit (rubber only)
- ☐ Thermal expansion tank (Model XT)
 - OC & Y Gate valve tamper switch (OSY-40)
- ☐ Air gap (Model AG)
 - QT SET Quick Test Fitting Set
- ☐ Wireless Monitor Retrofit Kit for conversion of existing model 375 (212-6-RFK-375W1, 8-10-RFK-375W1)

MODEL **375AST** with NRS & **FSC** option



MODEL 375AST with **BG** option

Relief Valve discharge port: 2 1/2" - 6" - 2 75 sq. in 8" - 10" - 3 69 sq. in





1													DIMEN	SION	(appro	ximate	9)									
	MOI 375/ SIZ	AST	A		A WIT BUTTE VALV	RFLY	B LES GAT VALV	Έ	С)	NRS G	SATE	OS! OPE	§Y ≣N	OS8 CLOS		E WITI BUTTER VALVE	RFLY	F		G		Н	
1	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	ine	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in. 👩	mm
1	2 1/2	65	31 7/8	810	28 3/4	730	16 5/8	422	4 1/2	114	7 1/4	184	11 1/2	292	17 3/4	451	15 3/8	391	8 1/4	210	9 3/4	248	8 5/8	219	42	1067
-[3	80	32 7/8	835	29 3/8	746	16 5/8	422	4 1/2	114	7 1/4	184	12 3/4	324	20 1/4	514	17	432	8 1/4	210	9 3/4	248	8 5/8	219	43 1/2	1105
Γ	4	100	34 7/8	886	30 1/4	768	16 5/8	422	4 1/2	114	8	203	14 1/2	368	22 1/2	572	18 1/4	464	9	229	9 3/4	248	8 5/8	219	50	1270
	6	150	43 1/2	1105	36 1/2	927	22 1/4	565	5 1/2	140	10	254	18	457	30 1/2	775	24 1/4	616	10 1/4	260	10 3/4	273	11 1/4	286	61 5/8	1565
	8	200	52 3/4	1340	45 3/4	1162	29 1/2	749	9 1/4	235	11	279	21 1/8	537	37	940	28 1/2	724	18 1/2	470	15 5/8	397	13 1/4	337	77 1/8	1959
	10	250	55 3/4	1416	49 3/4	1264	29 1/2	749	9 1/4	235	12	305	24 3/4	629	45 5/8	1159	34 3/4	883	18 1/2	470	15 5/8	397	13 1/2	343	85 3/8	2169

Zurn Industries, LLC | Wilkins

1747 Commerce Way, Paso Robles, CA U.S.A. 93446 Ph. 855-663-9876, Fax 805-238-5766

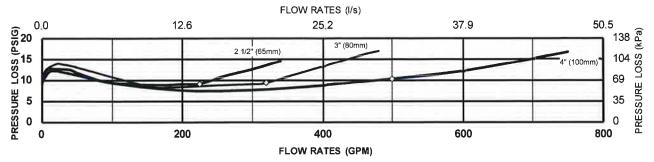
In Canada | Zurn Industries Limited

7900 Goreway Drive, Unit 10, Brampton, Ontario L6T 5W6, 877-892-5216

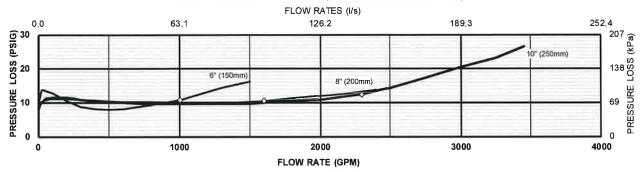
www.zurn.com

Date: 12/22 Document No. BF-375AST Product No. Model 375AST Patent zurn.com/patents

MODEL 375AST 2 1/2", 3" & 4" (STANDARD & METRIC)



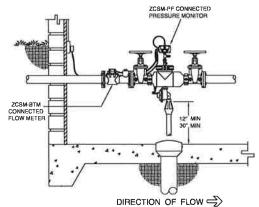
MODEL 375AST 6", 8" & 10" (STANDARD AND METRIC)



Typical Installation

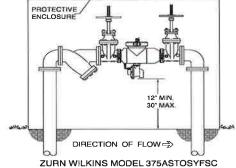
Local codes shall govern installation requirements. Unless otherwise specified, the assembly shall be mounted at a minimum of 12" (305mm) and a maximum of 30" (762mm) above adequate drains with sufficient side clearance for testing and maintenance. The installation shall be made so that no part of the unit can be submerged.

	Ca	apacity thru	Schedule 4	0 Pipe (GPI	√ 1)
	Pipe size	5 ft/sec	7.5 ft/sec	10 ft/sec	15 ft/sec
	2 1/2"	75	112	149	224
-	3*	115	173	230	346
	4*	198	298	397	595
	6*	450	675	900	1351
	8*	780	1169	1559	2339
	10"	1229	1843	2458	3687
	12"	1763	2644	3525	5288



INDOOR INSTALLATION

(375AST with ZCSM-PF Connected Pressure Monitor and ZCSM-BTM Connected Flow Meter accessories)



ZURN WILKINS MODEL 375ASTOSYFSC OUTDOOR HORIZONTAL INSTALLATION

Specifications

The Reduced Pressure Principle Backflow Prevention Assembly shall be certified to NSF/ANSI/CAN 61, ASSE® Listed 1013, and supplied with full port gate valves. The main body and access cover shall be 304L Stainless Steel, the seat ring and check valve shall be NORYL™, the stem shall be stainless steel (ASTM A 276) and the seat disc elastomers shall be EPDM. The checks and the relief valve shall be accessible for maintenance without removing the device from the line. The Reduced Pressure Principle Backflow Prevention Assembly shall be a ZURN WILKINS Model 375AST.



Model FSC

Ductile Iron "Y" Type Strainer

Application

Zurn Wilkins model FSC is designed for installation on water lines to protect downstream equipment from malfunction or premature failure due to build-up of sediment or debris.

Standards Compliance

- MIL-S 16293F Type 2
- · Meets the requirements of NSF/ANSI 372

Materials

Main valve body Ductile Iron ASTM A536 Ductile Iron ASTM A536 Access cover Coatings

Fusion Epoxy Finish

(Meets requirements of NSF/ANSI/CAN 61) Screens Perforated Stainless Steel, 300 Series

Features

Sizes: 2 1/2', 3", 4", 6", 8", 10", 12"

Pressure/temperature:

200 psi @ 150°F WOG

125 psi @ 450°F Steam

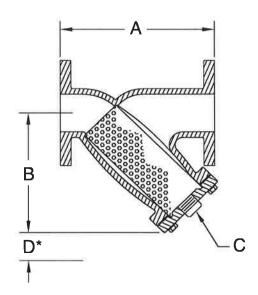
End connections:

ASME B16.42 Class 150

Screen

SIZE inch	OPENINGS (dia.)	MATERIAL THICKNESS	HOLES PER sq(in)	OPEN AREA
2 1/2	0.045	0.020 (26 Ga.)	225	36%
3	0.045	0.020 (26 Ga.)	225	36%
4	1/16	0.020 (26 Ga.)	98	30%
6	1/16	0.020 (26 Ga.)	98	30%
8	1/8	0.020 (26 Ga.)	29	36%
10	1/8	0.032 (22 Ga.)	29	36%
12	1/8	0.025 (24 Ga.)	35	43%

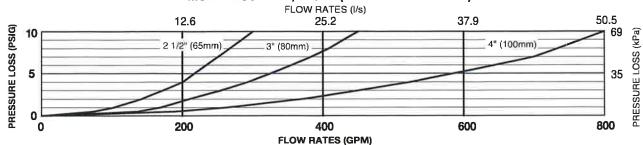




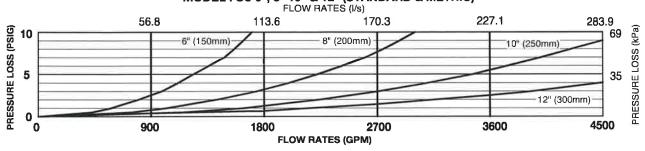
CI.	70		DIMENSIONS (approximate)										
314	ZE	F	4	E	3	С	D	*	WEIGHT				
in	mm	in	mm	in	mm	C	in	mm	lbs.	kg.			
2 1/2	65	10	254	8 1/4	210	1 1/4 NPT	6	152	35	16			
3	80	10 1/2	267	9 1/4	235	1 1/4 NPT	6	152	45	20.5			
4	100	15	381	12 1/2	318	2 NPT	9	229	61	27.5			
6	150	18	457	14	356	2 NPT	10	254	165	75			
8	200	24 1/4	616	17 3/4	451	2 NPT	11	279	239	108.5			
10	250	29 1/2	749	21 1/4	540	2 NPT	14	356	394	178.5			
12	300	29 7/8	759	21 5/16	541	2 NPT	17	432	489	222			

^{*}Vertical clearance for screen removal

MODEL FSC 2 1/2", 3" & 4" (STANDARD & METRIC)



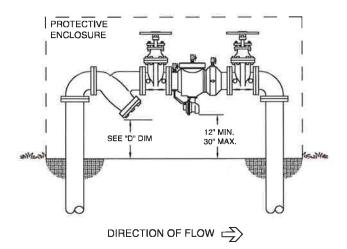
MODEL FSC 6", 8" 10" & 12" (STANDARD & METRIC)



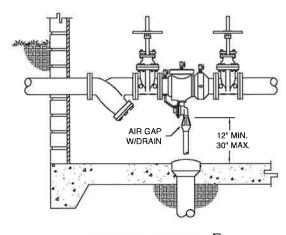
Typical Installation

Local codes shall govern installation requirements. Unless otherwise specified, the assembly shall be mounted with sufficient clearance for maintenance in accordance with the manufacturers' instructions and the latest edition of the Uniform Plumbing Code. The installation shall be made so that no part of the unit can be submerged. Horizontal installation with the strainer cap facing downward is the preferred installation orientation; however the strainer will provide protection in any orientation

C	apacity thru	Schedule 4	0 Pipe (GPN	/ I)
Pipe Size	5 ft/sec	7.5 ft/sec	10 ft/sec	15 ft/sec
2 1/2"	75	112	149	224
3"	115	173	230	346
4*	198	298	397	595
6"	450	675	900	1351
8"	780	1169	1559	2339
10"	1229	1843	2458	3687
12"	1744	2617	3489	5233



Outdoor Installation



DIRECTION OF FLOW

Indoor Installation

Specifications

The Ductile Iron "Y" type strainer shall meet the requirements of NSF/ANSI 372, and MIL-S-16293F Type 2. The main body and access cover shall be ductile iron ASTM A536 with an NSF/ANSI/CAN 61 certified Fusion Epoxy Finish coating inside and out. The integral strainer screen shall be accessible for cleaning without removing the device from the line. The Ductile Iron "Y" type strainer shall be a ZURN WILKINS Model FSC.



Model AG

Air Gap Adaptor Fitting

Application

Designed for use with ZURN WILKINS Reduced Pressure Principle Backflow Preventers on horizontal or vertical installations. Device is necessary when installing a drain line and can be mounted to the body. (Drain line can be any standard piping material.)

Approvals

ANSI/ASME A 112.1.2

Materials

Elbow

Body (AG-11, 12)

Cast grey iron, epoxy painted

Nylon

Cast grey iron, epoxy painted

Bolts Steel, zinc plated



AG-4 thru AG-8 AG-9 & AG-10 AG-11 & AG-12 AG-13 & AG-14

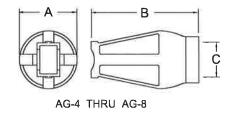
Sizes: 1/4" - 1/2", 3/4" - 1", 1-1/4" - 2", 2-1/2" - 6", 8" - 10"

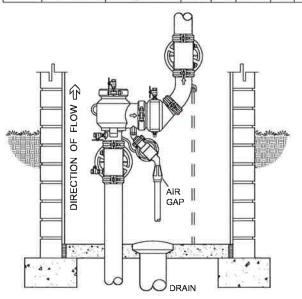
Dimensions & Weights (do not include pkg.)

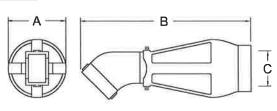
	DIMENSIONS (approximate)									
MODEL	SIZES	FOR MODEL*	А		В		C OUTLET PIPE	WEK	эпі	
	SIZES	SERIES	in.	mm	in.	mm	SIZE	lbs.	kg	
AG-8	1/4" - 1/2"	975XL, 975XL2	2 1/2	64	3 1/2	89	1" NPT	2	0.9	
AG-8	1/2" - 1"	975XL3	2 1/2	64	3 1/2	89	1" NPT	2	0.9	
AG-4	3/4" - 1"	975XL, 975XL2	3 1/4	83	5	127	1" NPT	2	0.9	
AG-4	1 1/4" - 1 1/2"	975XL3	3 1/4	83	5	127	1" NPT	2	0.9	
AG-5	1 1/4" - 2"	975XL, 975XL2	4 1/2	114	8	203	2" NPT	3	1.4	
AG-5	2"	975XL3	4 1/2	114	8	203	2" NPT	3	1.4	
AG-6	2 1/2" - 3"	475V	5 3/8	137	10	254	3" NPT	5	2.3	
AG-6	2 1/2" - 6"	375, 475	5 3/8	137	10	254	3" NPT	5	2.3	
AG-/	8 - 10	3/5, 4/5	7	1/8	11	279	4 NPT	Ö	პ.ნ	
AG-9	4" - 6"	475V	5 3/8	137	14 1/2	368	3" NPT	9	4	
AG-10	8" - 10"	475V	7	178	16 1/2	413	4" NPT	11	5	
AG-11	1/2" - 1"	375, 375XL	3 3/4	95	5 1/2	140	2" IPS Slip	1	0.5	
AG-12	1 1/4" - 2"	375, 375XL	6 1/2	165	8	200	3" IPS Slip	1	0.5	
AG-13	4" - 6"	475ST, 475STV	5 3/8	137	14 1/2	368	3" NPT	9	4	
AG-14	8" - 10"	475ST, 475STV	7	178	16 1/2	413	4" NPT	11	5.	

* Model:

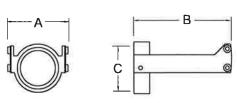
375, 375A, 375ADA, 375ADAR, 375AMS, 375AR, 375AST, 375ASTDA, 375ASTDAR, 375ASTDAST, 375ASTMS, 375ASTR, 375DA, 375MS, 375ST, 375XL, 475, 475DA, 475DA, 475MS, 475VMS, 975XL, 975XL2, 975XL3, 475ST, 475STV, 475STDA, 475STDAV







AG-9 & AG-10



AG-11 & AG-12

Typical Installation

Local codes shall govern installation requirements. To be installed in accordance with the manufacturers' instructions and the latest edition of the Uniform Plumbing Code.

Zurn Industries, LLC | Wilkins

1747 Commerce Way, Paso Robles, CA U.S.A. 93446 Ph. 855-663-9876, Fax 805-238-5766

In Canada | Zurn Industries Limited

7900 Goreway Drive, Unit 10, Brampton, Ontario L6T 5W6, 877-892-5216

Indoor Installation

www.zurn.com

Rev. G Date: 9/22 Document No. BF-AG Product No. Model AG Patent zurn.com/patents

Page 1 of 1

RPZ-2



Model 975XL2

Reduced Pressure Principle Assembly

Application

Ideal for use where Lead-Free* valves are required. Designed for installation on potable water lines to protect against both backsiphonage and backpressure of contaminated water into the potable water supply. Assembly shall provide protection where a potential health hazard exists. The assembly can be configured with a relief valve sensor that detects and signals excessive water discharge that, if left undetected, may cause property damage from flooding.

Standards Compliance

- ASSE® Listed 1013
- · cUPC® Listed
- CSA® Certified B64.4
- AWWA Compliant C511
- · Approved by the Foundation for Cross Connection Control and Hydraulic Research at the University of Southern California
- Meets the requirements of NSF/ANSI/CAN 61 and 372* *(LESS THAN 0.25% WEIGHTED AVERAGE LEAD CONTENT)
- UL® Classified (less shut-off valves or with OS&Y valves)
- · C-UL® Classified

Materials

Main valve body Access covers

Low Lead Cast Bronze ASTM B 584 Low Lead Cast Bronze ASTM B 584

Fasteners

Stainless Steel, 300 Series

Elastomers

Silicone Buna Nitrile

Polymers

Noryl™

Springs

Stainless Steel, 300 series

Ball valve handles

Stainless Steel

Features

Sizes: 3/4", 1", 1-1/4", 1-1/2", 2"

Maximum working water pressure

Maximum working water temperature

Hydrostatic test pressure

End connections Threaded

175 PSI

180°F

350 PSI

ANSI B1.20.1

Relief Valve discharge port:

3/4" - 1"

0.63 sq. in.

1 1/4" - 2"

1.19 sq. in.



Options

(Suffixes can be combined)

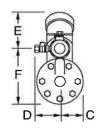
- with full port QT ball valves (standard)
- □ MS with relief valve excessive discharge sensor

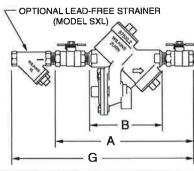
for flood detection and two-wire connection

- □ SE with street elbows (3/4" & 1")
- with union ball valves
- ☐ TCU with test cocks up
- with integral male 45° flare SAE test fitting FT
- \sqcap S with bronze "Y" type strainer

Accessories

- □ Air gap (Model AG)
- ☐ Repair kits (rubber only)
- ☐ Thermal expansion tank (Mdl. XT)
- ☐ Soft seated check valve (Model 40XL2)
- ☐ Shock arrester (Model 1260XL)
- □ QT-SET Quick Test Fitting Set
- ☐ Relief Valve Monitoring Retrofit Kit (RFK-975XL2MS)





Dimensions & Weights (do not include pkg.)

						DII	MENS	IONS (a	pproxir	nate)							
MODEL	ODEL SIZE A			В		С		D		E		F		G			BALL LVES
in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kg
3/4	20	12	305	7 3/4	197	2 1/8	54	3	76	3 1/2	89	5	127	16 1/8	410	12	5.5
1	25	13	330	7 3/4	197	2 1/8	54	3	76	3 1/2	89	5	127	17 3/8	441	14	6.4
1 1/4	32	17	432	10 15/16	278	2 3/4	70	3 1/2	89	5	127	6 3/4	171	22 9/16	573	28	12.7
1 1/2	40	17 3/8	441	10 15/16	278	2 3/4	70	3 1/2	89	5	127	6 3/4	171	24 1/16	611	28	12.7
2	50	18 1/2	470	10 15/16	278	2 3/4	70	3 1/2	89	5	127	6 3/4	171	26 1/2	673	34	15.4



1747 Commerce Way, Paso Robles, CA U.S.A. 93446 Ph. 855-663-9876, Fax 805-238-5766

In Canada | Zurn Industries Limited

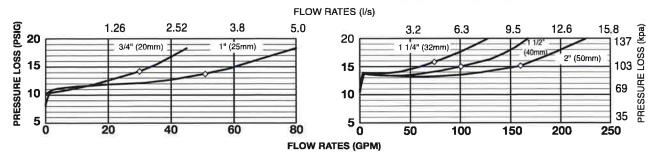
7900 Goreway Drive, Unit 10, Brampton, Ontario L6T 5W6, 877-892-5216

www.zurn.com

Date: 12/23 Document No. BF-975XL2(LG) Product No. Model 975XL2(LG) Patent zurn.com/patents

Page 1 of 2

MODEL 975XL2 3/4", 1", 1 1/4", 1 1/2" & 2" (STANDARD & METRIC)

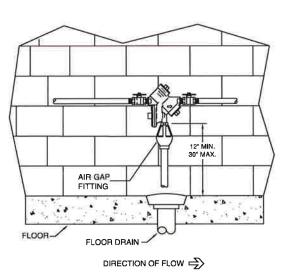


Typical Installation

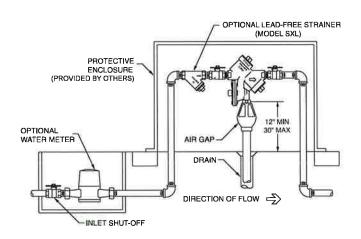
Local codes shall govern installation requirements. To be installed in accordance with the manufacturers' instructions and the latest edition of the Uniform Plumbing Code. Unless otherwise specified, the assembly shall be mounted at a minimum of 12" (305mm) and a maximum of 30" (762mm) above adequate drains with sufficient side clearance for testing and maintenance. The installation shall be made so that no part of the unit can be submerged.

	Capacity th	nru Schedule	40 Pipe	
Pipe size	5 ft/sec	7.5 ft/sec	10 ft/sec	15 ft/sec
1/8"	1	11	2	3
1/4"	2	2	3	5
3/8"	3	4	6	9
1/2"	5	7	9	14
3/4"	8	12	17	25
1"	13	20	27	40
1 1/4"	23	35	47	70
1 1/2"	32	48	63	95
2"	52	78	105	167









OUTDOOR INSTALLATION

Specifications

The Reduced Pressure Principle Backflow Preventer shall be certified to NSF/ANSI/CAN 61 and 372, shall be ASSE® Listed 1013, rated to 180°F, and supplied with full port ball valves. The main body and access covers shall be low lead bronze (ASTM B 584), the seat ring and all internal polymers shall be Noryl™ and the seat disc elastomers shall be silicone. The first and second checks shall be accessible for maintenance without removing the relief valve or the entire device from the line. If installed indoors, the installation shall be supplied with an air gap adapter. The assembly shall be configurable to include a sensor to monitor excessive water discharge from the relief valve for flood detection. The Reduced Pressure Principle Backflow Preventer shall be a ZURN WILKINS Model 975XL2.



Model SXL

Cast Bronze "Y" Type Strainer

Application

Zurn Wilkins model SXL is recommended for a variety of potable water service lines including residential and commercial domestic water or irrigation. They are also designed to protect delicate equipment such as regulators and backflow preventers by filtering sediment which could cause premature failure.

Standards Compliance

· Meets the requirements of NSF/ANSI/CAN 61





NSF/ANSI/CAN 61

Materials

Main valve body Access cover and plug Screens Cast Bronze ASTM B 806
Cast Bronze ASTM B 806
20 Mosh Stainless Steel

20 Mesh Stainless Steel,

300 Series

O-ring

Buna Nitrile

Features

Sizes: 3/8", 1/2", 3/4", 1", 1 1/4", 1 1/2",

2 1/2", 3"

Temperature/pressure rating

180°F

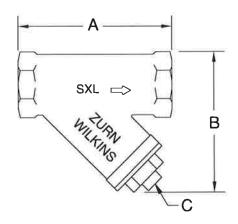
Threaded connections (FNPT)

300 psi WOG ANSI B1.20.1

(Supplied with brass closure plug)

Options

☐ C - with copper sweat connections (3/4" & 1")



Dimensions & Weights (do not include pkg.)

			MODEL S	XL (NPT CON	NECTION)			
	75	DIMENSIONS (approximate)					WEIGHT	
SIZE		Α		В		С	WEIGHT	
in.	mm	in.	mm	in.	mm	in.	lbs.	kg
3/8	10	3 1/4	83	3	76	3/8 NPT	1	0.5
1/2	15	3 1/4	83	3	76	3/8 NPT	1	0.5
3/4	20	3 7/8	98	3 1/2	89	3/8 NPT	1 1/4	0.6
1	25	4 1/2	114	4	102	1/2 NPT	1 3/4	0.8
1 1/4	32	5 5/16	135	4 3/4	121	1/2 NPT	2 3/4	1.2
1 1/2	40	6 5/16	160	5	127	1/2 NPT	31/2	1.6
2	50	7 1/2	191	6	152	1/2 NPT	6	2.7
2 1/2	65	9	229	7 1/2	191	1/2 NPT	9 1/4	4.2
3	80	10	254	8 1/2	216	1/2 NPT	14	6.4
		MC	DEL SXLC (C	OPPER SWEA	T CONNECTI	ON)		
DIMENSIONS (approximate)						WEI	WEIGHT	
SIZE		Α		В		С	WEIGHT	
in.	mm	în.	mm	in.	mm	in.	lbs.	kg
3/4	20	3 15/16	100	3 5/16	84	3/8 NPT	1	0.5
1	25	5	127	3 15/16	100	1/2 NPT	1.5	0.7

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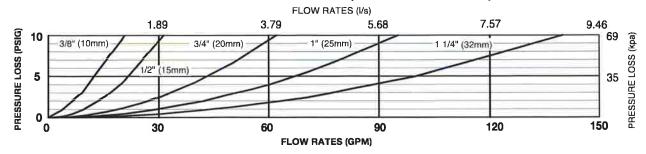
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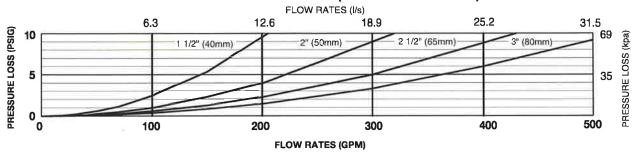
www.zurn.com

Rev. F Date: 03/21 Document No. STR-SXL Product No. Model SXL Patent zurn.com/patents

MODEL SXL 1/2" thru 1 1/4" (STANDARD & METRIC)



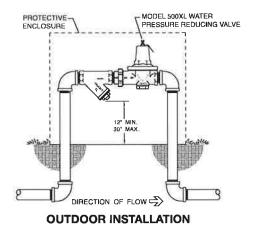
MODEL SXL 1 1/2" thru 3" (STANDARD & METRIC)

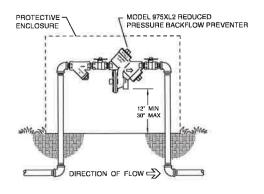


Typical Installation

Local codes shall govern installation requirements. Unless otherwise specified, the assembly shall be mounted in accordance with the latest edition of the Uniform Plumbing Code. If installed below grade, be certain adequate drainage is provided to prevent the device from being submerged. Horizontal installation with the strainer cap facing downward is the preferred installation orientation; however the strainer will provide protection in any orientation.

	Capacity	thru Schedu	le 40 Pipe	
Pipe size	5 ft/sec	7.5 ft/sec	10 ft/sec	15 ft/sec
1/8"	1	1	2	3
1/4"	2	2	3	5
3/8"	3	4	6	9
1/2"	5	7	9	14
3/4"	8	12	17	25
1"	13	20	27	40
1 1/4"	23	35	47	70
1 1/2	32	48	63	95
2"	52	78	105	167





OUTDOOR INSTALLATION

Specifications

The "Y" type strainer shall be a manufactured import certified to NSF/ANSI/CAN 61. The main body and cover shall be low lead cast bronze (ASTM B 806), the strainer screen shall be 20 mesh 300 series stainless steel and accessible for maintenance without removing the device from the line. The "Y" type strainer shall be a ZURN WILKINS Model SXL.



Model AG

Air Gap Adaptor Fitting

Application

Designed for use with ZURN WILKINS Reduced Pressure Principle Backflow Preventers on horizontal or vertical installations. Device is necessary when installing a drain line and can be mounted to the body. (Drain line can be any standard piping material.)

Approvals

ANSI/ASME A 112.1.2

Materials

Body

Cast grey iron, epoxy painted Nylon

Body (AG-11, 12) **Elbow**

Cast grey iron, epoxy painted

Bolts Steel, zinc plated



AG-4 thru AG-8 AG-9 & AG-10 AG-11 & AG-12 AG-13 & AG-14

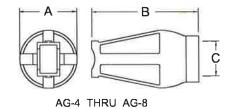
Sizes: 1/4" - 1/2", 3/4" - 1", 1-1/4" - 2", 2-1/2" - 6", 8" - 10"

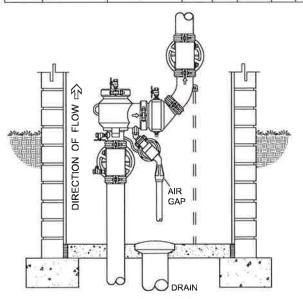
Dimensions & Weights (do not include pkg.)

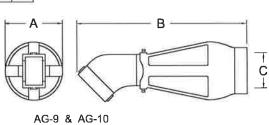
		DIMENSIO	ONS (a	pprox	imate)			WEK	CLIT
MODEL	01750	FOR MODEL*	Α		В		C	VILIGHT	
	SIZES	SERIES	in.	mm	in.	mm	OUTLETPIPE SIZE	lbs.	kg
AG-8	1/4" - 1/2"	975XL, 975XL2	2 1/2	64	3 1/2	89	1" NPT	2	0.9
AG-8	1/2" - 1"	975XL3	2 1/2	64	3 1/2	89	1" NPT	2	0.9
AG-4	3/4" - 1"	975XL, 975XL2	3 1/4	83	5	127	1" NPT	2	0.9
AG-4	11/4" - 11/9"	Q75XL3	3 1/4	ደረ	-5	127	1" NPT	2	nα
AG-5	1 1/4" - 2"	975XL, 975XL2	4 1/2	114	8	203	2" NPT	3	1.4
AQ-5	-2"	975XL9	4 1/2	114	0	200	2" NPT	-8	1.4
AG-6	2 1/2" - 3"	475V	5 3/8	137	10	254	3" NPT	5	2.3
AG-6	2 1/2" - 6"	375, 475	5 3/8	137	10	254	3" NPT	5	2.3
AG-7	8" - 10"	375, 475	7	178	11	279	4" NPT	8	3.6
AG-9	4" - 6"	475V	5 3/8	137	14 1/2	368	3" NPT	9	4
AG-10	8" - 10"	475V	7	178	16 1/2	413	4" NPT	11	5
AG-11	1/2" - 1"	375, 375XL	3 3/4	95	5 1/2	140	2" IPS Slip	1	0.5
AG-12	1 1/4" - 2"	375, 375XL	6 1/2	165	8	200	3" IPS Slip	1	0.5
AG-13	4" - 6"	475ST, 475STV	5 3/8	137	14 1/2	368	3" NPT	9	4
AG-14	8" - 10"	475ST, 475STV	7	178	16 1/2	413	4" NPT	11	5

* Model:

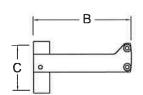
375, 375A, 375ADA, 375ADAR, 375AMS, 375AR, 375AST, 375ASTDA, 375ASTDAR, 375ASTDAST, 375ASTMS, 375ASTR, 375DA, 375MS, 375ST, 375XL, 475, 475DA, 475DAV, 475MS, 475VMS, 975XL, 975XL2, 975XL3, 475ST, 475STV, 475STDA, 475STDAV











AG-11 & AG-12

Typical Installation

Local codes shall govern installation requirements. To be installed in accordance with the manufacturers' instructions and the latest edition of the Uniform Plumbing Code.

Zurn Industries, LLC | Wilkins

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Indoor Installation

www.zurn.com

Rev. G Date: 9/22 Document No. BF-AG Product No. Model AG Patent zurn.com/patents

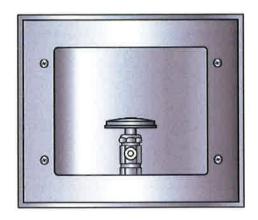
IM-1

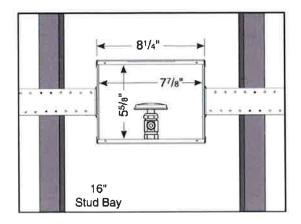
SPECIFICATION SUBMITTAL SHEET



GALVANIZED ICE MAKER OUTLET BOX

with Lead Free Domestic Valve





Specifications:

Furnish and install galvanized ice maker box. Unit shall be Guy Gray product code checked below as manufactured by IPS Corporation.

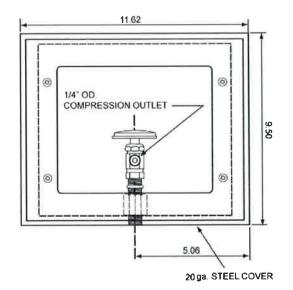
Box Material:

G90 Hot Dipped Galvanized Steel (unpainted) 20 gauge box with 20 gauge faceplate

Valve & Drain Options:

Lead free Domestic Valve with 1/2" MIP/Sweat, CPVC or PEX connection. Valves comply with ASME A112.18.1.

Valves comply with the requirements of NSF 61-G and the "Reduction of Lead in Drinking Water Act" (Federal Public Law 111-380)



	Item #	Product Description	Model #	Quantity
\rightarrow	88158	Lead Free Domestic Valve - 1/2" Sweat Conx.	BIM875AB	-
	96997	Tamper resistant cover for Models B, BB, WB, FB, & BIM	BTRC	6



GWH-1

COMMERCIAL



FLEXIBLE VENTING OPTIONS

- Concentric or Schedule 40 PVC/CPVC
- Direct Vent (Concentric and Twin Pipe)
- Non-Direct Vent (Room Air)
- Common Vent (Direct Vent and Room Air)
 Vent lengths up to 150 ft with eight Tankless Water Heater
 units
- Maximum Equivalent Vent Lengths:

Twin	Ρi	pe
------	----	----

Vent Sizes	2 in. (51 mm)	3 in. (76 mm)
Vent Lengths	65 ft (20 m)	150 ft (46 m)
Concentric		
Vent Sizes	2 in. X 4 in.	3 in. X 5 in.
Vent Lengths	65 ft (20 m)	150 ft (46 m)

EASE OF INSTALLATION AND SERVICEABILITY

- Compact Design to Save Space
- Wi-Fi Technology for Remote Monitoring and Management
- Sliding Mounting Bracket for Easy Installation
- Simple Gas Conversion

OPTIONAL ACCESSORIES

Room Air Screen Condensate Neutralizer, ScaleCutter, Drain Down Kit, Additional Controllers, Recess Box, Recirculation Pump, DPS/MIS Switch, EZConnect™ Cables, Cascade Cables, control·r™ Wi-Fi Module, Wireless Accessories, and many more. Visit rinnai.us for a complete list of accessories.

Internal (Indoor) Com	mercial Applications				
CU199i (REU-N3237FF	-c-us)				
CUIDUI (KEU-NZSSUFI	·C-US)				
Natural and Propane					
ALEN CERTIFIED	UEF up to 0.93				
Ratings not certified	Thermal Efficiency: Up to 97%				
by AHRI	EF: 0.96 (CU199i) 0.95 (CU160i)				
Up to 10,200 ft (3,109) m)				
Water Flow Sensor, El Control and Bypass Co	lectronic Water ontrol				
Standard: Integrated Controller Optional: MC-91-2US					
Optional: MC-91-2US AHRI, ANSI Z21.10.3, CSA 4.3, and ENERGY STAR®					
	CU199i (REU-N3237FF CU100I (REU-N2530FF Natural and Propane ALCE GERIFIED Ratings not certified by AHRI Up to 10,200 ft (3,109 Water Flow Sensor, E Control and Bypass Co Standard: Integrated				

Warranty

- Heat Exchanger: 8 years or 12,000 operation hours, whichever occurs first
- All Other Parts and Components: 5 Years
- Reasonable Labor: 1 Year

Safety Devices

Flame Failure - Flame Rod, Boiling Protection, Combustion Fan RPM Check, Over Current - Glass Fuse, Remaining Flame (OHS) and Automatic Frost Protection

Included with Purchase

Tankless Water Heater, Wall Mounting Bracket, Pressure Relief Valve and Adapter, Isolation Valve Kit, Vent Screens (x2), Vent Screen Screws (x2), and Self-Tapping Screws (x2)

Additional Features

- Complies with South Coast Air Quality Management District 14 ng/J or 20 ppm NOx Emission Levels
- Ultra Low NOx
- Tankless Rack System™ Compatible
- 1/2 in. (13 mm) Gas Line Compatible

COMMERCIAL APPLICATIONS

Commercial Tankless Rack Systems

















CERTIFIED TO ANSI Z21.10.3 - CSA 4.3

SENSEI™ TECHNICAL SPECIFICATIONS SPECIFICATION CU199i **CU160i** 18.5 in. x 26.4 in. x 11.4 in. (470 mm x 670 mm x 290 mm) Dimensions - w, h, d Minimum Gas 15,000 Consumption Btu/h Maximum Gas 199,000 160,000 Consumption Btu/h Flow Rate¹ 0.26 - 9.8 GPM 0.26 - 8.0 GPM (Min - Max) (1.0 - 37 L/min) (1.0 - 30 L/min) Max Flow Rate with 11 GPM 9 GPM Parameter Adjustment (42 L/min) (34 L/min) Weight 64 lb (29 kg) 62 lb (28 kg) Sound Level 49 dB 48 dB 84 W 52 W Normal Standby 1.3 W 8 Freeze Protection 148 W Max Current 4 Amps Fuse 10 Amps Minimum: 98° F (37° C) Default Maximum: 140° F (60° C) Default 185° F (85° C) With Parameter Adjustment Temperature **Bv-Pass Flow Control** Electronic Natural: 3.5 in. w.c. - 10.5 in. w.c. Gas Supply Pressure² Propane: 8.0 in. w.c. - 13.5 in. w.c. Direct Electronic Ignition Ignition System Appliance: AC 120 Volts, 60Hz. Electronic Connections Temperature Controller: DC 12 Volts (Digital) Minimum: 50 PSI (Recommended 60-80 PSI for max performance) Water Supply Pressure Maximum: 150 PSI Controller Cable Non-Polarized Two Core Cable (Minimum 22 AWG) Gas Supply: 3/4 in. (19 mm) NPT Cold Water Inlet: 3/4 in. (19 mm) NPT Service Connections Hot Water Outlet: 3/4 in. (19 mm) NPT Condensate Drain: 1/2 in. (13 mm) NPT Top: 2 in. (51 mm)* • Back: 0 in. Bottom/Ground: 12 in. (305 mm) Front: 0 in.** Sides: 2 in. (51 mm)*** Clearances Vent: 0 in.

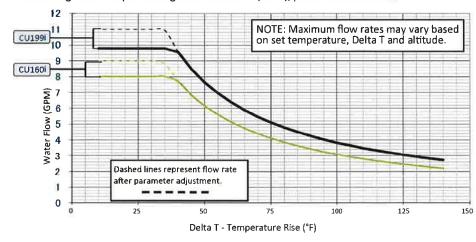
0 in. from vent components

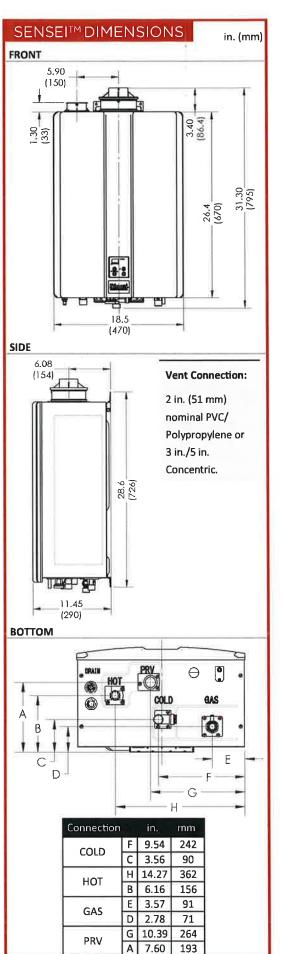
- ** Clearance for servicing is 24 in. (610 mm) in front of water heater
 *** Add 0.25 in. (6.35 mm) for recess box

Minimum flow may vary slightly depending on the temperature setting and the inlet water temperature.
 Minimum activation flow is 0.4 GPM (1.5 L/min).
 The maximum gas supply pressure must not exceed the value specified by the manufacturer.

SENSEI™ WATER FLOW CURVF

Flow curves apply only to incoming water temperatures of 70° F (21° C) or less. For incoming water temperatures greater than 70° F (21° C), please contact Rinnai.





TECHNICAL DATA SHEET

DIVERSITECH

February 2011

Product

Concentric Vent

General

The Concentric Vent allows both the intake for combustion air and the exhaust vent to pass through a standard roof or sidewall. This is an alternative to the standard two pipe Intake/vent shown in the basic furnace installation Instructions.

Two Concentric Vent products are available: CVENT-2 is for use with 2" intake/vent systems and CVENT-3 is for use with 3" intake/vent systems.

Refer to the furnace installation instructions for intake/vent pipe sizing Information.

NOTE: The Concentric Vent reduces the allowable intake/vent piping length by 5 feet from that listed in the basic furnace installation instructions.

WARNING

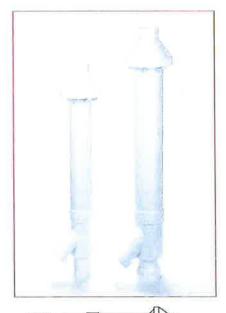
Do not use the Concentric Vent kit for anything other than a Category IV furnace. Fallure to follow this warning could result in fire, personal injury or death.

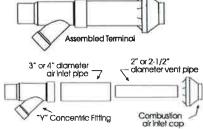
WARNING

Do not operate the furnace until the installation and assembly of the Concentric Vent and all piping are completed. Failure to follow this warning could result in product damage or improper operation, personal injury or death.

Each concentric vent kit contains the following items:

- (1) Combustion Air Inlet Cap
- (1) Air Inlet Pipe
- (1) Vent Pipe
- (1) Intake/Vent Concentric "Y"
- (1) Installation Instructions on box





Pipe ana
fittings are
required to
complete 5
installation 🕽

(user

MODEL	INTAKE/VENT NOM. PIPE SIZE	OVERALL ASSEM'D LENGTH1	INTAKE PIPE OUTSIDE DIAMETER	AIR INLET PIPE LENGTH2	
CVENT-2	2"	34-3/4"	3-1/2"	27-1/4"	1
CVENT-3	3"	39-3/4"	4-1/2"	31-7/8"	

supplied). The combustion air and vent pipe fittings must conform ANSI and ASTM standards D1785, F891, D2665, D2241, D2661, or F628. Pipe cement and primer must conform to ASTM standards D2564 or D2235.

In Canada, construct all combustion air and vent pipes for this unit of CSA or ULC certified Schedule 40 PVC, PVC-DWV, or ABS-DWV pipe and pipe cement.

Page 1 of 1 www.diversitech.com

Concentric Vent

EWH-1,2



ElectriFLEX LD™ (Light Duty) Commercial Lowboy Electric Water Heater



Photo is of LE120L3-3

FEATURING:







Bradford White ElectriFLEX LD™ Lowboy Electric Models Feature:

- Applications Lowboy models are ideal for installations where space is minimal and are perfect for tight installations such as a closet or under a counter.
- Fully Automatic Thermostat Controls—Fast acting surface-mount thermostats with a maximum setpoint of 175°F (79°C) and a high limit energy cut-off (manual reset) for safety.
- Direct Heat Transfer With Immersed Elements—Transfers heat directly and efficiently to the water. Screw-in style.
- Vitraglas® Lining with Microban®—An exclusively engineered enamel formula that provides superior tank protection from the corrosive effects of water; and with Microban® antimicrobial product protection to help prevent the growth of bacteria, mold and mildew on the surface of the tank lining.
- Hydrojet® Total Performance System—Sediment build-up reducing device that also increases first hour rating of hot water while minimizing temperature build-up in tank.
- Insulation System 2" (51mm) Non-CFC foam insulation covers the sides and top of the tank, reducing heat loss. This results in less energy consumption, improved efficiencies, and jacket rigidity. LE120L models additionally use a supplied flexible fiberglass insulation blanket.
- Water Connections 3/4" (19mm) NPT factory-installed true dielectric fittings extend water heater life and simplify water line connections.
- Factory-Installed Heat Traps Design incorporates a flexible disk that reduces heat loss in piping and eliminates the potential for noise generation.
- Protective Anode Rod Provides added protection against corrosion for long-term, trouble-free service.
- Steel Tank—Heavy gauge steel automatically formed, rolled, and welded.
- Field Convertible Units are shipped from factory standard Three Phase, Non-Simultaneous and can be converted to Single Phase and/or Simultaneous operation in the field.
- Field Conversion Kits—Change voltage and kW in the field (see options on following page).
- **T&P Relief Valve Installed**—Side T&P is standard. Optional top T&P location is available and must be specified when ordering.









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

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

Microban® antimicrobial product protection helps prevent the growth of bacteria, mold and mildew that may affect the product. The built-in antimicrobial properties do not protect users or others from disease-causing organisms. Microban® is a registered trademark of Microban Products Company.

Commercial Electric Water Heater

ElectriFLEX LD™ Lowboy Electric Models

Meet or exceed ASHRAE 90.1 (latest edition), C.E.C. Listed

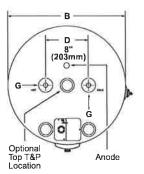
Model Number	Rat Nom Capa		DOE Rated Storage Volume	First Hour Rating	Uniform Energy Factor	Element (Wa	Wattage tts)	A Floor to Top of Heater	B Jacket Dia.	C Floor to Water Conn.	D C/L of Water Conn.	E Floor to T&P Conn. ††	G Water Conn. NPT	Approx. Shipping Weight
¥	U.S. Gal.	lmp. Gal.	Gal.	Gal.		Minimum	Maximum	in.	in.	in,	In.	in.	in.	lbs.
-LE120L9 0**	19	16		==	1,000	1500	6000	243/4	18	253/4	8	191/4/ 247/ _B	3/4	58
LE230LN3-3	28	23 -	26	41	0.92	1500	6000	29 9/16	23	315/16	8	23 9/16 / 31 5/16	3/4	102
LE240LN3-3	37	31	34	45	0.92	1500	6000	32 1/16	24 1/2	345/16	8	23 9/16 / 34 5/16	3/4	126
LE250LN3-3	47	39	43	61	0.92	4000	6000	33 5/16	26	361/16	8	24 5/16 / 36 1/16	3/4	173
Model Number	Rat Nom Capa	inal	DOE Rated Storage	First Hour Rating	Uniform Energy Factor	Element (Wa	Wattage tts)	A Floor to Top of	B Jacket Dia.	C Floor to Water	D C/L of Water	E Floor to T&P	G Water Conn.	Approx. Shipping Weight
	1		Volume				-	Heater	Dia.	Conn.	Conn.	Conn. #	NPT	Weight.
	Lite	ers	Volume Liters	Liters		Minimum	Maximum		mm.					kg.
LE120L3-3**†	Lite			Liters	=	Minimum 1500	Maximum 6000	Heater	17/91	Conn.	Conn.	Conn. ††	NPT	
LE120L3-3**† LE230LN3-3	_		Liters				Share consequently the same	Heater mm.	mm.	Conn. mm.	Conn. mm.	Conn. †† mm.	NPT mm.	kg.
7000 At the faction of a case	72	6	Liters		=	1500	6000	Heater mm. 629	mm. 457	Conn. mm. 654	Conn. mm. 203	Conn. †† mm. 489 / 632	MPT mm. 19	kg. 26

Specify wattage and voltage when ordering. Use chart below for maximum wattages at certain voltages. **Models include supplied insulation blanket (2" (51mm) thick). Dimensions in charts above do not include blanket thickness. For 5 year models, change suffix "3" to "5". NSF Kits available when ordering. †Exempt from ASHRAE 90.1b. Uniform Energy Factor and First Hour Rating is based on the latest AHRI directory listings. †† All models feature side or top T&P location and must specify when ordering. "E" dimension listed as side/top.

Wattage Limitations for Non-Simultaneous	1	W	•	/oltag	e		
Operation	120V	208V	240V	277V	380V	415V	480V
1500W / 1500W	yes	yes	yes	yes	yes	yes	yes
2000W / 2000W	no	yes	yes	yes	yes	yes	yes
2500W / 2500W	по	yes	yes	yes	yes	yes	yes
3000W / 3000W	no	yes	yes	yes	yes	yes	yes
3500W / 3500W	no	yes	yes	no	yes	yes	по
4000W / 4000W	no	yes	yes	yes	yes	yes	yes
4500W / 4500W	по	yes	yes	yes	yes	yes	yes
5000W / 5000W	no	yes	yes	yes	yes	yes	yes
5500W / 5500W	по	yes	yes	по	yes	yes	по
6000W / 6000W	по	по	yes	yes	yes	yes	yes

	GPI	Re	cove	ry 🛦 ure Ri	se °F		LPH	Rec Temp	overy eratu		e °C
Wattage	60	80	90	100	120	Wattage	34	45	50	56	67
1500W	10	8	7	6	5	1500W	38	30	26	23	19
2000W	14	10	9	8	7	2000W	53	38	34	30	26
3500W	17	13	11	10	9	2500W	64	49	4 2	38	34
3000W	21	15	14	12	10	3000W	79	57	53	45	38
3500W	24	18	16	14	12	3500W	91	68	61	53	45
4000W	28	21	18	16	14	4000W	106	79	68	61	53
4500W	31	23	21	18	15	4500W	117	87	79	68	57
5000W	34	26	23	21	17	5000W	129	98	87	79	64
5500W	38	29	25	23	19	5500W	144	110	95	87	72
6000W	41	31	28	25	21	6000W	155	117	106	95	79

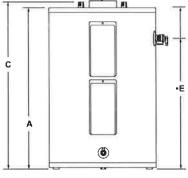
▲(GPH based on Non-Simultaneous operation, when Simultaneous operation the GPH/ LPH will approximately double.)



Voltage and Wattage Conversion Kits Refer to Element Wattage minimum & maximum in chart above

Simultaneous and Non-Simultaneous				Voltage			
Wattage	120V	208V	240V	277V	380V	415V	480V
1500W / 1500W	415-46409-01	415-46409-05	415-46409-13	415-46409-16	415-46409-24	415-46409-41	415-46409-32
2000W / 2000W	N/A	415-46409-06	415-46409-05	415-46409-17	415-46409-43	415-46409-24	415-46409-33
2500W / 2500W	N/A	415-46409-07	415-46409-06	415-46409-18	415-46409-25	415-46409-43	415-46409-34
3000W / 3000W	N/A	415-46409-08	415-46409-14	415-46409-19	415-46409-26	415-46409-25	415-46409-35
3500W / 3500W	N/A	415-46409-09	415-46409-07	N/A	415-46409-54	415-46409-26	N/A
4000W / 4000W	N/A	415-46409-49	415-46409-08	415-46409-20	415-46409-56	415-46409-54	415-46409-36
4500W / 4500W	N/A	415-46409-11	415-46409-09	415-46409-51	415-46409-57	415-46409-55	415-46409-59
5000W / 5000W	N/A	415-46409-50	415-46409-15	415-46409-52	415-46409-58	415-46409-56	415-46409-38
5500W / 5500W	N/A	415-46409-67	415-46409-49	415-46409-61**	415-46409-63	415-46409-57	415-46409-62**
6000W / 6000W	N/A	415-46409-66*	415-46409-68	415-46409-53	415-46409-64	415-46409-58	415-46409-60

Note: Each kit will include two replacement elements, two gaskets, a rating plate overlay and one set of instructions. For water heaters with only one element, please retain the extra element and gasket as a service part. *415-46409-66 contains only one element. **INCOLOY® element only.



•"E" dimension listed as side/top.

General:

All models comply with NAECA III requirements. All models UL® listed. These heaters are wired inter-locking (Non-Simultaneous, Three Phase) 240V with two 4500W elements, unless otherwise specified. All water connections are 3/4" NPT (19mm). All electrical connections are 3/4" (19mm). All models certified at 300 PSI test pressure (2068 kPa) and 150 PSI working pressure (1034 kPa.)

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

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Products made by Bradford White are manufactured in the United States using the finest raw materials and components from around the world.

■ Built to be the Best ■

For Water Heater/Tank Applications

Job Name AMS Charter School	Contractor Comfort Systems USA
Job Location LR	Approval
Engineer Ragsdale	Contractor's P.O. No.
Approval	Representative Sanders Supply

LEAD FREE*

Model LFN36-M1

Vacuum Relief Valve

Sizes: 1/2" - 3/4" Male NPT

Features

- Low profile
- All Lead Free* brass body
- Protective cap
- Suitable for low pressure steam and water service
- Tested and rated to ANSI Z21.22
- CSA certified
- The LFN36-M1 features Lead Free* construction to comply with Lead Free* installation requirements.

Applications

- Domestic water heaters and supply tanks
- Table top heaters
- Jacketed steam kettles
- Unit heaters
- · Low pressure steam systems
- Steam coil heaters

Note: Vacuum relief valves are not designed or approved as backsiphonage backflow preventers. For protection against backsiphonage install Watts Series 288A vacuum breakers.

Standards

Tested and rated to ANSI Z21.22 CSA certified

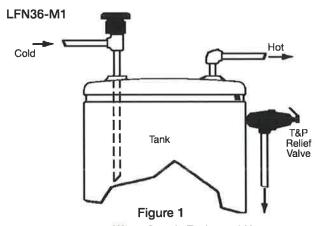
Specifications

A Watts Model LFN36-M1 Vacuum Relief Valve shall be installed on domestic hot water supply tanks/ heaters/ unit heaters/ steam kettles as indicated on plans. The vacuum relief valve shall be ANSI Z21.22 rated and CSA certified. The vacuum relief valve shall have an all brass body and include a protective cap for automatic venting of a closed system to atmosphere when a vacuum is created. The Lead Free* Vacuum Relief Valve shall comply with state codes and standards, where applicable, requiring reduced lead content. The Watts LFN36-M1 Vacuum Relief Valve permits air to enter and prevent vacuum conditions that could siphon the water from the system, resulting in collapse of a tank or water heater or equipment burn out. The valve shall be a Watts Model LFN36-M1.



LFN36-M1

Tested and rated under "ANSI Z21.22 Relief Valves for Hot Water Supply Systems".



Domestic Hot Water Supply Tanks and Heaters with Top Supply

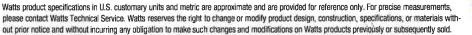
NOTICE

The information contained herein is not intended to replace the full product installation and safety information available or the experience of a trained product installer. You are required to thoroughly read all installation instructions and product safety information before beginning the installation of this product.

NOTICE

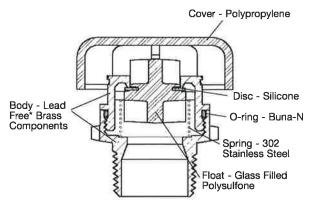
Inquire with governing authorities for local installation requirements

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





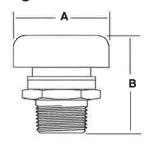
Materials



Pressure - Temperature

Maximum steam working pressure: 15 psi (1.03 bar) Maximum temperature: 250°F (121°C)

Dimensions-Weights



SIZE		DIMEN	WE	IGHT		
		A		В		
in.	in.	mm	in.	mm	OZ.	gr
1/2	2	50	2	50	4	113
3/4	2	50	2	50	4	113

Capacity

SIZE	MODEL	VENTING	CAPACITY
in.		CFM	LPM
1/2	LFN36-M1	15	425
3/4	LFN36-M1	15	425

Typical Installations



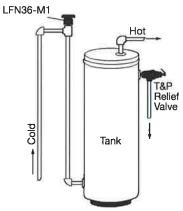
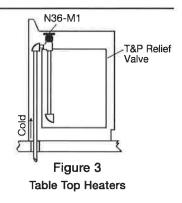
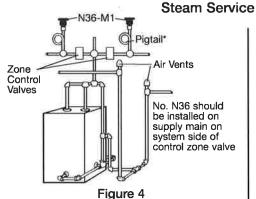
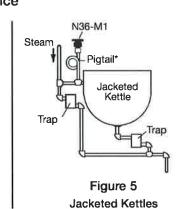


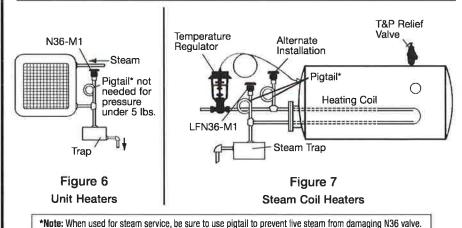
Figure 2 **Domestic Hot Water Supply Tanks** and Heaters with Bottom Feed





Low Pressure Steam Heating Systems







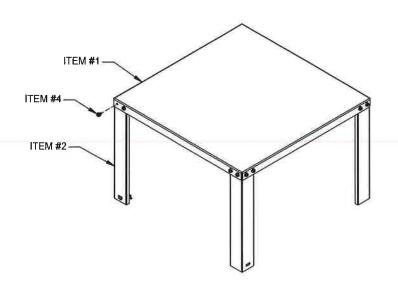
USA: T: (978) 689-6066 • Watts.com

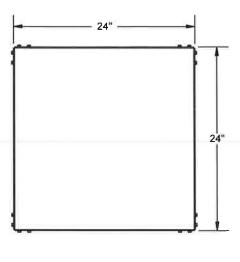
Canada: T: (905) 332-4090 • Watts.ca

Latin America: T: (52) 81-1001-8600 • Watts.com

PRODUCT SPECIFICATION DRAWING

QUICKSTAND™ 24" X 24" (Water Heater & Equipment Support) #40-S-24-A (assembled) and #40-S-24-U (unassembled)





ALL DIMENSIONS IN INCHES

The QUICKSTAND™ #40-S-24- (A or U) stands safely elevates water heaters and other equipment above the floor (1,200 lbs rating).

14.75 TYP 16"

Product Information:

Material:

Item #1: Top, 12 gage CRS, galvanized

Item #2: Leg, 16 gage CRS, galvanized, 4 places

Item #3: Safety Clip, 14 gage CRS, galvanized, 2 places

Item #4: Screw, PH, Sems, #1/4 X 1/2"L (w / external starwasher), 16 places

Item #5: Lag Bolt, #1/4 X 2-1/2"L, self-drilling, 2 places

(items #3 and #5 included with product)

- Engineered and lab tested to meet Uniform Plumbing Code (UPC) and International Plumbing Code (IPC) requirements, including elevation of water heater's ignition source 18" above the floor
- LAG BOLT (2)

SAFETY CLIP (2)

ITEM #3

- Holds up to 1,200 pounds capacity (up to 100 U.S. gallon tanks)
- QUICKSTAND™ weight 25-1/2 pounds without packaging
- Available in asembled and unassembled configurations

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CONVERTING MAKESHIFT METHODS INTO ENGINEERED SOLUTIONSSM 800-321-0316 OR 760-744-6944 / FAX: 760-744-0507 / WWW.HOLDRITE.COM spec_40-S-24_RevI

Product Sub	mittal
Job Name:	
Date:	w
Part Number:	Qty:
Architect / Owner:	
Contractor:	
Notes:	

EWH-3,4



ElectriFLEX LD™ (Light Duty) Commercial Lowboy Electric Water Heater

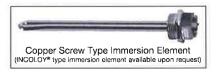


Photo is of LE120L3-3

FEATURING:







Bradford White ElectriFLEX LD™ Lowboy Electric Models Feature:

- Applications Lowboy models are ideal for installations where space is minimal and are perfect for tight installations such as a closet or under a counter.
- Fully Automatic Thermostat Controls—Fast acting surface-mount thermostats with a maximum setpoint of 175°F (79°C) and a high limit energy cut-off (manual reset) for safety.
- Direct Heat Transfer With Immersed Elements—Transfers heat directly and efficiently to the water. Screw-in style.
- Vitraglas® Lining with Microban®—An exclusively engineered enamel formula that provides superior tank protection from the corrosive effects of water; and with Microban® antimicrobial product protection to help prevent the growth of bacteria, mold and mildew on the surface of the tank lining.
- Hydrojet® Total Performance System—Sediment build-up reducing device that also increases first hour rating of hot water while minimizing temperature build-up in tank.
- Insulation System 2" (51mm) Non-CFC foam insulation covers the sides and top of the tank, reducing heat loss. This results in less energy consumption, improved efficiencies, and jacket rigidity. LE120L models additionally use a supplied flexible fiberglass insulation blanket.
- Water Connections 3/4" (19mm) NPT factory-installed true dielectric fittings extend water heater life and simplify water line connections.
- Factory-Installed Heat Traps—Design incorporates a flexible disk that reduces heat loss in piping and eliminates the potential for noise generation.
- Protective Anode Rod Provides added protection against corrosion for long-term, trouble-free service.
- Steel Tank—Heavy gauge steel automatically formed, rolled, and welded.
- Field Convertible Units are shipped from factory standard Three Phase, Non-Simultaneous and can be converted to Single Phase and/or Simultaneous operation in the field.
- Field Conversion Kits Change voltage and kW in the field (see options on following page).
- **T&P Relief Valve Installed**—Side T&P is standard. Optional top T&P location is available and must be specified when ordering.









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

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

Microban® antimicrobial product protection helps prevent the growth of bacteria, mold and mildew that may affect the product. The built-in antimicrobial properties do not protect users or others from disease-causing organisms. Microban® is a registered trademark of Microban Products Company.

Commercial Electric Water Heater

ElectriFLEX LD™ Lowboy Electric Models

Meet or exceed ASHRAE 90.1 (latest edition). C.E.C. Listed

Model Number	Rat Nom Capa	inal	DOE Rated Storage Volume	First Hour Rating	Uniform Energy Factor		Wattage itts)	A Floor to Top of Heater	B Jacket Dia.	C Floor to Water Conn.	D C/L of Water Conn.	E Floor to T&P Conn. ††	G Water Conn. NPT	Approx. Shipping Weight
	U.S. Gal.	lmp. Gal.	Gal.	Gal.		Minimum	Maximum	in.	in,	in.	in.	in.	in.	lbs.
LE120L0-0*1	19	16	_	7=2	V.—	1500	6000	243/4	18	253/4	8	191/4/247/8	3/4	58
LE230LN3-3	28	23	26	41	0.92	1500	6000	29 9/16	23	31 5/16	8	239/16 / 31 5/16	3/4	102
LE240LN3-3	37	31	34	45	0.92	1500	6000	32 1/16	24 1/2	345/16	8	23 9/16 / 34 5/16	3/4	126
LE250LN3-3	47	39	43	61	0.92	4000	6000	33 ⁵ /16	26	36 1/16	8	24 5/16 / 36 1/16	3/4	173
Model Number	Rat Nom Capa	inal	DOE Rated Storage Volume	First Hour Rating	Uniform Energy Factor		Wattage atts)	A Floor to Top of Heater	B Jacket Dia.	C Floor to Water Conn.	D C/L of Water Conn.	E Floor to T&P Conn. ††	G Water Conn. NPT	Approx. Shipping Weight
	Lite	ers	Liters	Liters		Minimum	Maximum	тт.	mm.	mm.	mm.	mm.	mm.	kg.
LE120L3-3**†	72		_		-	1500	6000	629	457	654	203	489 / 632	19	26
LE230LN3-3	10	6	98	155	0.92	1500	6000	751	584	795	203	598 / 795	19	46
LE240LN3-3	14	0	129	171	0.92	1500	6000	814	622	872	203	598 / 872	19	57

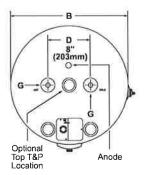
LE250LN3-3 178 163 231 0.92 4000 6000 846 660 916 203 618 / 916 19 78

Specify wattage and voltage when ordering. Use chart below for maximum wattages at certain voltages. **Models include supplied insulation blanket (2" (51mm) thick). Dimensions in charts above do not include blanket thickness. For 5 year models, change suffix "3" to "5". NSF Kits available when ordering. †Exempt from ASHRAE 90.1b. Uniform Energy Factor and First Hour Rating is based on the latest AHRI directory listings. †† All models feature side or top T&P location and must specify when ordering. "E" dimension listed as side/top.

Wattage Limitations for Von-Simultaneous	1	V	•	/oltag	8		
Operation	120V	208V	240V	277V	380V	415V	480V
1500W / 1500W	yes	yes	yes	yes	yes	yes	yes
2000W / 2000W	no	yes	yes	yes	yes	yes	yes
2500W / 2500W	по	yes	yes	yes	yes	yes	yes
3000W / 3000W	no	yes	yes	yes	yes	yes	yes
3500W / 3500W	no	yes	yes	no	yes	yes	по
4000W / 4000W	по	yes	yes	yes	yes	yes	yes
4500W / 4500W	no	yes	yes	yes	yes	yes	yes
5000W / 5000W	no	yes	yes	yes	yes	yes	yes
5500W / 5500W	no	yes	yes	по	yes	yes	по
6000W / 6000W	no	no	yes	yes	yes	yes	yes

	Recovery A GPH Temperature Rise °F				Recovery ▲ GPH Temperature Rise °F				Recovery A LPH Temperature Rise				
Wattage	60	80	90	100	120	Wattage	34	45	50	56	67		
1500W	10	8	7	6	5	1500W	38	30	26	23	19		
2000W	14	10	9	8	7	2000W	53	38	34	30	26		
3500W	17	13	11	10	9	2500W	64	49	42	38	34		
3000W	21	15	14	12	10	3000W	79	57	53	45	38		
3500W	24	18	16	14	12	3500W	91	68	61	53	45		
4000W	28	21	18	16	14	4000W	106	79	68	61	53		
4500W	31	23	21	18	15	4500W	117	87	79	68	57		
5000W	34	26	23	21	17	5000W	129	98	87	79	64		
5500W	38	29	25	23	19	5500W	144	110	95	87	72		
6000W	41	31	28	25	21	6000W	155	117	106	95	79		

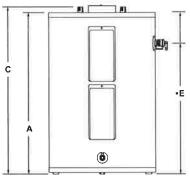
▲(GPH based on Non-Simultaneous operation, when Simultaneous operation the GPH/ LPH will approximately double.)



Voltage and Wattage Conversion Kits Refer to Element Wattage minimum & maximum in chart above

Simultaneous and Non-Simultaneous	Voltage											
Wattage	120V	208V	240V	277V	380V	415V	480V					
1500W / 1500W	415-46409-01	415-46409-05	415-46409-13	415-46409-16	415-46409-24	415-46409-41	415-46409-32					
2000W / 2000W	N/A	415-46409-06	415-46409-05	415-46409-17	415-46409-43	415-46409-24	415-46409-33					
2500W / 2500W	N/A	415-46409-07	415-46409-06	415-46409-18	415-46409-25	415-46409-43	415-46409-34					
3000W / 3000W	N/A	415-46409-08	415-46409-14	415-46409-19	415-46409-26	415-46409-25	415-46409-35					
3500W / 3500W	N/A	415-46409-09	415-46409-07	N/A	415-46409-54	415-46409-26	N/A					
4000W / 4000W	N/A	415-46409-49	415-46409-08	415-46409-20	415-46409-56	415-46409-54	415-46409-36					
4500W / 4500W	N/A	415-46409-11	415-46409-09	415-46409-51	415-46409-57	415-46409-55	415-46409-59					
5000W / 5000W	N/A	415-46409-50	415-46409-15	415-46409-52	415-46409-58	415-46409-56	415-46409-38					
5500W / 5500W	N/A	415-46409-67	415-46409-49	415-46409-61**	415-46409-63	415-46409-57	415-46409-62**					
6000W / 6000W	N/A	415-46409-66*	415-46409-68	415-46409-53	415-46409-64	415-46409-58	415-46409-60					

Note: Each kit will include two replacement elements, two gaskets, a rating plate overlay and one set of instructions. For water heaters with only one element, please retain the extra element and gasket as a service part. *415-46409-66 contains only one element...**INCOLOY® element only.



"E" dimension listed as side/top.

Conoral:

All models comply with NAECA III requirements. All models UL® listed. These heaters are wired inter-locking (Non-Simultaneous, Three Phase) 240V with two 4500W elements, unless otherwise specified. All water connections are 3/4" NPT (19mm). All electrical connections are 3/4" (19mm). All models certified at 300 PSI test pressure (2068 kPa) and 150 PSI working pressure (1034 kPa.)

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

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For Water Heater/Tank Applications

Job Name AMS Charter School	Contractor Comfort Systems USA
Job Location LR	Approval
Engineer Ragsdale	Contractor's P.O. No.
Approval	Representative Sanders Supply

LEAD FREE*

Model LFN36-M1

Vacuum Relief Valve

Sizes: 1/2" - 3/4" Male NPT

Features

- Low profile
- All Lead Free* brass body
- Protective cap
- Suitable for low pressure steam and water service
- Tested and rated to ANSI Z21.22
- CSA certified
- The LFN36-M1 features Lead Free* construction to comply with Lead Free* installation requirements.

Applications

- Domestic water heaters and supply tanks
- Table top heaters
- Jacketed steam kettles
- Unit heaters
- Low pressure steam systems
- Steam coil heaters

Note: Vacuum relief valves are not designed or approved as backsiphonage backflow preventers. For protection against backsiphonage install Watts Series 288A vacuum breakers.

Standards

Tested and rated to ANSI Z21.22 CSA certified

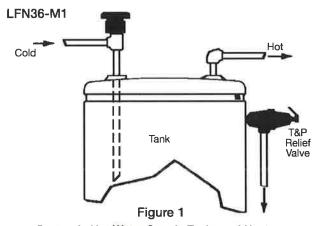
Specifications

A Watts Model LFN36-M1 Vacuum Relief Valve shall be installed on domestic hot water supply tanks/ heaters/ unit heaters/ steam kettles as indicated on plans. The vacuum relief valve shall be ANSI Z21.22 rated and CSA certified. The vacuum relief valve shall have an all brass body and include a protective cap for automatic venting of a closed system to atmosphere when a vacuum is created. The Lead Free* Vacuum Relief Valve shall comply with state codes and standards, where applicable, requiring reduced lead content. The Watts LFN36-M1 Vacuum Relief Valve permits air to enter and prevent vacuum conditions that could siphon the water from the system, resulting in collapse of a tank or water heater or equipment burn out. The valve shall be a Watts Model LFN36-M1.



LFN36-M1

Tested and rated under "ANSI Z21.22 Relief Valves for Hot Water Supply Systems".



Domestic Hot Water Supply Tanks and Heaters with Top Supply

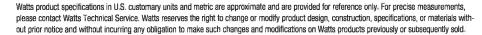
NOTICE

The information contained herein is not intended to replace the full product installation and safety information available or the experience of a trained product installer. You are required to thoroughly read all installation instructions and product safety information before beginning the installation of this product.

NOTICE

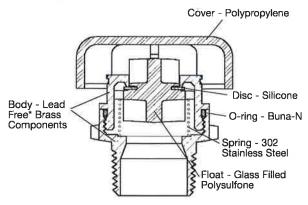
Inquire with governing authorities for local installation requirements

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





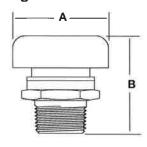
Materials



Pressure - Temperature

Maximum steam working pressure: 15 psi (1.03 bar) Maximum temperature: 250°F (121°C)

Dimensions-Weights



SIZE		DIMEN	WE	IGHT		
		A		В		
in	in.	mm	in.	mm	OZ.	gr
1/2	2	50	2	50	4	113
3/4	2	50	2	50	4	113

Capacity

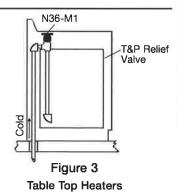
SIZE	MODEL	VENTING	CAPACITY
in.		CFM	LPM
1/2	LFN36-M1	15	425
3/4	LFN36-M1	15	425

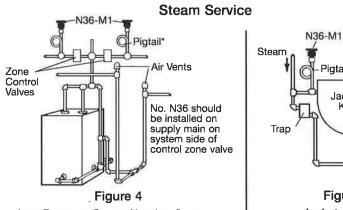
Pigtail*

Typical Installations

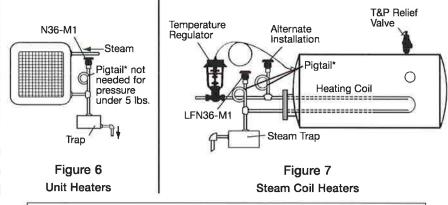


Figure 2 Domestic Hot Water Supply Tanks and Heaters with Bottom Feed





Jacketed Kettle Trap Figure 5 **Jacketed Kettles** Low Pressure Steam Heating Systems



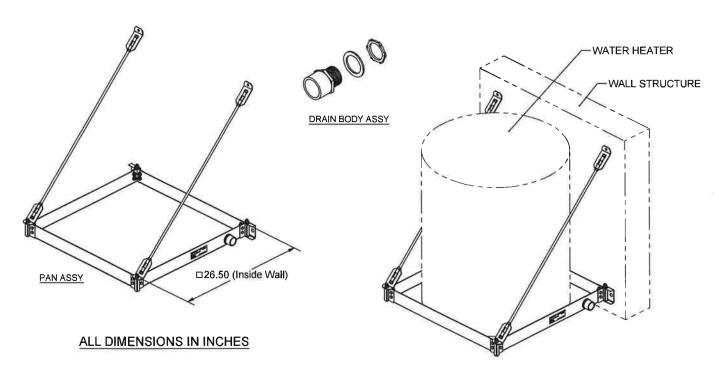
*Note: When used for steam service, be sure to use pigtail to prevent live steam from damaging N36 valve.



USA: T: (978) 689-6066 • Watts.com

Canada: T: (905) 332-4090 • Watts.ca

PRODUCT SPECIFICATION DRAWING QUICK STAND™ #50-SWHP-W Wall Mounted Equipment Platform

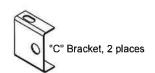


The Wall Mounted Equipment Platform is engineered to support water heaters up to 50 U.S. gallons (or other equipment up to 600 pounds total weight) mounted to a wall. This item also serves as a drain pan.

Product Information:

- Material
 - aterial:
 Pan: 12 gage CRS, galvanized
 Corner Brackets (4): 14 gage CRS, galvanized
 C-Brackets (2): 16 gage CRS, galvanized
 45° Brackets (4): 12 gage, CRS, galvanized
 Threaded Rod (2): Low carbon steel, zinc plated, 3/8" x 37.10" long
- Wide platform allows water heaters up to 26-1/2" diameter
- Watertight corners and drain fittings eliminate need for additional drain pan
- Static load rating 600 pounds with 2X safety factor (depending on structural anchorage)
- Professional Engineer stamped documentation available
- Includes PVC drain body 1" MIPT x 1" FS
- Galvanized steel construction
- Suspends with user supplied 3/8" hardware to mount to wall, 4 places
- Installation instructions for mounting to concrete or framed wall structure available
- Patent Pending







45° Bracket, 4 places

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

ET-1

Engineering Specification

Job Name AMS Charter School	Contractor Comfort Systems USA
Job Location LR	Approval
Engineer Ragsdale	Contractor's P.O. No.
Approval	Representative Sanders Supply

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

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.



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





o installed in

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

NOTICE

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NOTICE

Inquire with governing authorities for local installation requirements

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



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

Technical Information

w		1	•	
- 1	м	•		
	w	•		
	·v	•		

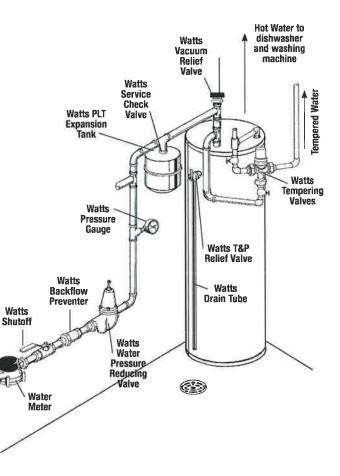
DESCRIPTION	PLT-5	PLT-12	PLT-20	PLT-35
Max. Pressure - PSI	150	150	150	150
Max. Temp °F	200	200	200	200
Tank Volume - Gal.	2.1	4.5	8.5	14.00
Air Pre-charge - PSI	20	20	20	20
Connections Size - Inches	3/4 Male	3/4 Male	3/4 Male	1 Female
Diameter - Inches	8	10.5	12.5	16.0
Length - Inches	11	13.5	19.2	21.7
Weight - Lbs.	5.5	10	15	32

Acceptance Volume

AIR SIDE PRE-PRESSURE		Marie Marie	DE VOLUME (GALLONS)	
(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
60	1.0	2.49	4.705	7.59
80	.8	1.85	4.009	6.07

SUPPLY	WATER HEATER (GALLONS)						
PRESSURE (PSIG)	20	30	40	50	80	100	120
40							
50							
55							15
60							
70							1
80						KEM	
90							
100						10.70	
110			JAN S	A TA			
120	15-00	28.7	C. III	17.3	1 55		

	PLT-5		PLT-20
	PLT-12		PLT-35
, p/ 7	Multiple tanks required -	consult fact	ory





USA: T: (978) 689-6066 • F: (978) 975-8350 • Watts.com Canada: T: (888) 208-8927 • F: (905) 332-7068 • Watts.ca Latin America: T: (52) 55-4122-0138 • Watts.com

RD-1

Engineering Specification

Ingineering operation			
Job Name AMS Charter School	Contractor Comfort Systems USA		
Job Location LR	Approval		
Engineer Ragsdale	Contractor's P.O. No.		
Approval	Representative Sanders Supply		
RD-1			

RD-300-F

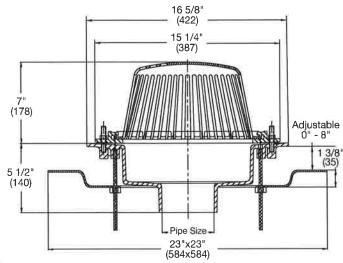
Roof Drain with Deck Flange/ Adjustable Extension

Specification

Watts RD-300-F epoxy coated cast iron roof drain with flashing clamp with integral gravel stop, heavy 10 ga. zinc plated steel deck flange and adjustable extension, self-locking polyethylene dome (standard), and no hub (standard) outlet.

Suffix	Pipe Sizing Description	
2	2"(51) Pipe Size (NH Only)	
3	3"(76) Pipe Size	1
4	4"(102) Pipe Size	
5	5"(127) Pipe Size (NH Only)	
6	6"(152) Pipe Size	
8	8"(203) Pipe Size	
10	10"(254) Pipe Size (NH Only)	





	C.MI	Outlet Type Description	
>l	NH	No Hub (MJ)	Ø
L	-	Tusir On	- 8
	X	Inside Caulk	

		_
Suffix	Options Description	
-13	Galvanized Body & Clamp	
-85	IRMA Perf. SS Extension	
-AC	Compression Seal Extension	
-AE	Threaded Extension	
-D	Underdeck Clamp	$ \mathbf{Z} $
-GSS	Stainless Steel Ballast Guard	
-K	Ductile Iron Dome	V
-K13	Galvanized Dome	
-K40	Ductile Iron Low Dome (4" High)	
-K80	Aluminum Dome	
-K81	Rough Bronze Dome	
-K83	SS Mesh Covered Dome	
-L	Vandal Proof Dome	
-R	2" External Water Dam	
-W	Adj. Internal Water Dam	
		_

Deck Ope	ening 18 1/2"(470))
Free Area	
Sq. In.	
137	

NOTICE

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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.



USA: T: (800) 338-2581 • F: (828) 248-3929 • Watts.com **Canada:** T: (888) 208-8927 • F: (905) 481-2316 • Watts.ca **Latin America:** T: (52) 55-4122-0138 • Watts.com

RH-1

The Woodford, ASSE 1057 listed, SRH Sanitary Roof Hydrant is intended for irrigation purposes and to provide water, in any weather condition, on commercial building roofs. Applications include window washing, cleaning of condenser coils, cooling towers, green roofs and other types of roof top equipment. The SRH is backflow protected with a field testable ASSE 1052 double check backflow preventer.

The SRH does not require 1) a drain line from the valve body located inside the building or 2) the removal of vacuum breaker or use of a diverter to protect from freezing.

The SRH-MS with Mounting System allows for installation flexibility. It is not necessary to install hydrant when hydrant support is mounted to the roof. The hydrant support utilizes a 3" diameter opening that allows the hydrant to be installed or easily removed at a later time. All necessary mounting hardware for proper installation on a commercial roof is supplied, including a 2 degree shim for pitch adjustment.

Hydrant Features:

- ASSE 1057 Listed
- No Drain Line Required With the hose removed, a venturi action draws water out of the internal reservoir and discharges out the backflow preventer.
- Superior reservoir evacuation times without removing the backflow preventer.
- Variable flow plunger for longer life is not easily damaged and assures proper shut-off.
- · Large easy to open lift handle.
- Adjustable link for easy adjustment and positive lever lock tension.
- All hydrant repairs can be made from top without removing hydrant.

Specifications:

- · Hose Connection Backflow Preventer:
 - Model 50H with 3/4" hose connection
 - ASSE 1052 Listed ➡
 - Field Testable Dual Check holds against 125 psi backflow pressure
- ¾" NPT female inlet connection.
- 1 ½" U.S. made galvanized pipe.
- Maximum Working Pressure: 100 p.s.i.
- Maximum Temperature: 120° F

SRH WARNING	Supply PSI	Run Time
After each use, run hydrant without a	60	5 seconds
hose to ensure proper evacuation.	25	15 seconds

Mounting System: (Can be ordered Separately)

- Cast iron Hydrant Support
- Cast iron Under Deck Flange
 - 4 bolts draw tight against the roof decking and the hydrant support.
 - 3 clamp screws tighten against the hydrant pipe to secure the hydrant's vertical position through the roof
- Well Seal seals tight between the hydrant support and hydrant pipe.
- EPDM Boot covers well seal and top of hydrant support.
- 2° Shim is supplied, if needed, for installation on pitched roofs.

Patent Informatioin: https://www.woodfordmfg.com/patents/

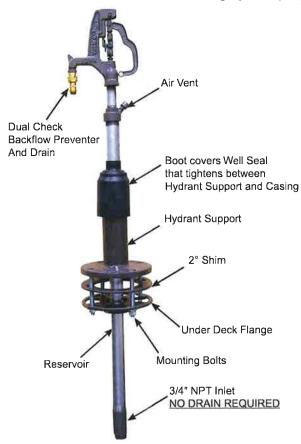
For Installation / Troubleshooting Instructions go to www.woodfordmfg.com or call 1-800-621-6032

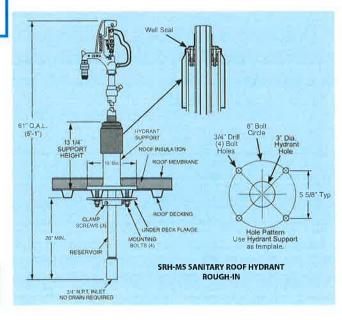
Freezeless Sanitary Roof Hydrant No Drain Line Required!

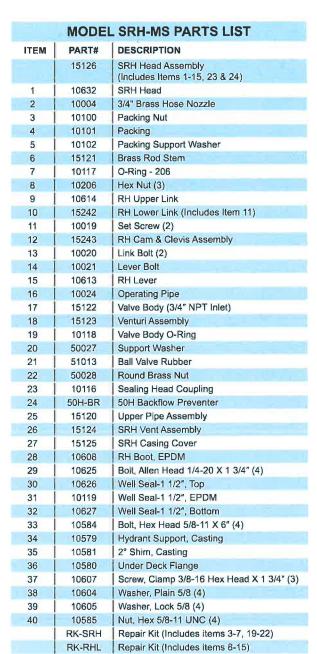
WOODFORD

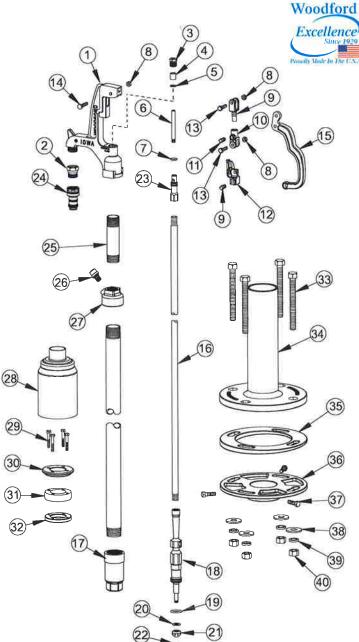
Model SRH-MS

Can be ordered with or without Mounting System (MS).









When ordering, specify SRH part number option listed below.

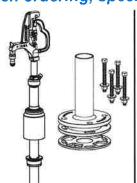
Part# SRH-MS Consists of the complete Roof Hydrant system:

Qty.1 SRH Hydrant shipped in 1 carton.

Qty. 1 RH-MS

Mounting System shipped in 1 carton.

Total Shipping Wt. 2 cartons: 50 lbs



Part# RH-MS

Carton contents consists of: Mounting System/

Rough-In Components (Parts 33-40 above)

- Hydrant Support
- 2° Shim,
- · Under Deck Flange
- Mounting Bolts, Nuts Washers.

Shipped in 1 Carton. Shipping Wt. - 30 lbs



Part# SRH

Carton contents consists of:

- Hydrant Assembly
 (Darta 1.33 above)
- (Parts 1-32 above)
 Well Seal
- (Parts 28-32 above)

 Boot (Part 28 above)

Shipped in 1 Carton. Shipping Wt. - 20 lbs



For more information contact...

WOODFORD MANUFACTURING COMPANY, LLC

2121 Waynoka Road, Colorado Springs, Colorado 80915 • Phone: (800) 621-6032

To view our complete product line visit: www.woodfordmfg.com or email: sales@woodfordmfg.com

TH-1

BX91403 shown

Adjustable Angle

7" • 9" • 12" Scale Sizes

7", 9", 12" Scale

± 1 Scale Division
Accuracy

Cast Aluminum Case

Adjustable Angle Stem

Recognized globally as the Trerice "BX" Industrial Thermometer, this is an instrument of extreme accuracy and rugged dependability. Available in scale sizes of 7" (AX9), 9" (BX9), & 12" (CX9), with a durable cast aluminum case, this universally adjustable, liquid-in-glass thermometer is the most widely specified instrument of its kind.

 Optional features available: Please consult the Options & Accessories Section for details.

Thermowell

 For applications where the process media may be corrosive or contained under pressure, the use of a thermowell is required to prevent damage to the thermometer and facilitate its removal from the process. (Refer to page 158)

Specifications					
Models AVO BX9 CX9	Scale Sizes 7" 9" Adjustable Angle 12"				
Fill Type	Spirit: Blue colored, organic				
Case	Cast Aluminum, blue epoxy finish				
Stem	Aluminum, brass, 304 stainless steel or air-duct style available				
Connection	Standard: 11/4-18 UNEF-2A coupling nut				
	Air-Duct: Reversible mounting flange with 3 bolt holes				
Window	Ultraviolet protective acrylic on ranges to 300° F Glass on ranges over 300° F				
Tube	Lens front, magnifying type				
Scale	Aluminum, white background with black graduations and markings				
Top Plate	ABS				
Accuracy	±1 scale division				
Approximat	e Shipping Weight AX9: 1.5 bs [0.68 kg] BX9: 1.6 bs [0.73 kg]				

CX9: 2.0 lbs [0.91 kg]

Sample Order Number: BX9 1 403 07

BX91403

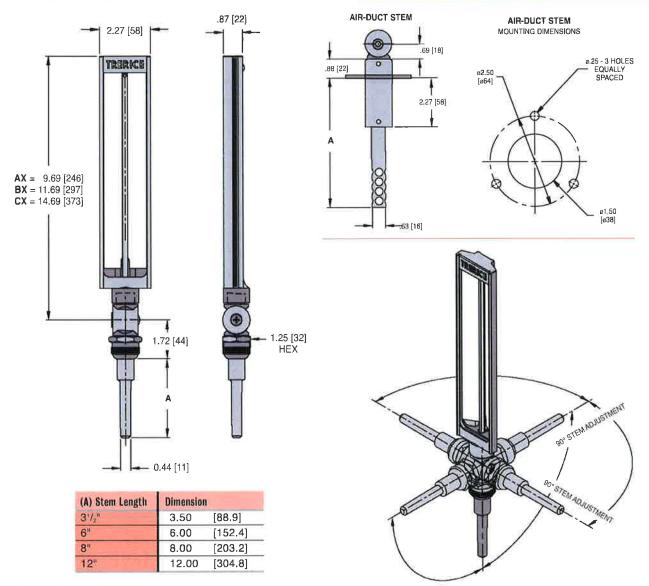
HOW TO ORDER

Model	Stem (Material)	Stem	(Length)	Specific Range	
AX9 7" Adjustable	1 Aluminum (standard)	403	31/2"	See Standard	
BX9 9" Adjustable	2 Brass	400	Ô.	Ranges	
CX9 12" Adjustable	3 304 SS	408	8"		
		512	12"		
	a Air Don't (Aluminum)*	006	6" Air-Duct		
	9 Air-Duct (Aluminum)* —	012	12" Air-Duct		

* Not for use with Thermowells

Adjustable Angle

All dimensions are nominal. Dimensions in [] are in millimeters.



Standard Ranges

Fah	renheit Scale	Cels	ius Sc	ale	Dual	Scale			Fahrenh	neit	Celsius	
Range Code	Range	Range Code	Range		Range Gode	Range		NEW YORK	Figure Intervals	Minor Divisions	Figure Intervals	Minor Divisions
01	-40° to 110°F	17	–40°	to 40°C	41	-40° to 110°F	& -40°	to 40°C	10°	2°	5°	1°
02	0° to 100°F	24	–18°	to 38°C	42	0° to 100°F	& -18°	' to 38°C	5°	1°	5°	0.5°
03	30° to 130°F	25	0°	to 55°C	43	30° to 130°F	& 0°	to 55°C	5°	1°	5°	19
04	0° to 160°F	26	–18°	to 70°C	44	0° to 160°F	& -18°	o to 70°C	10°	2°	5°	1°
06	30° to 180°F	27	0°	to 83°C	46	30° to 180°F	& 0°	to 83°C	10°	2°	5°	1°
07	30° to 240°F	19	0°	to 115°C	47	30° to 240°F	& 0°	to 115°C	10°	2°	5°	1°
08	30° to 300°F	20	0°	to 150°C	48	30° to 300°F	& 0°	to 150°C	10°	2°	10°	2°
09	50° to 400°F	28	10°	to 205°C	49	50° to 400°F	& 10°	to 205°C	25°	5°	10°	2°
15	50° to 500°F	31	10°	to 260°C	55	50° to 500°F	& 10°	to 260°C	25°	5°	10°	2°

Dual scale figure intervals may differ



WHA

Engineering Specification AMS Charter School Job Location Engineer Ragsdale Approval Approval Approval Representative Engineer Ams Charter School Contractor Approval Approval Sanders Supply

LF15M2-DR Series

Water Hammer Arrestor

Specification

Watts LF15M2-DR Series lead free* pre-charged copper water hammer arrestor with polypropylene piston, EPDM o-ring seal, and brass NPT threaded connection.

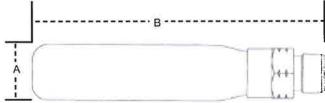
Operating Pressure

Designed to operate on all domestic and commercial lines up to 150 psi (10.6 bar) working pressure.

Temperature Range

33°F to 180°F (0.5°C to 82°C)





Call customer service if you need assistance with technical details.

Size	Connection	Dimensions		PDI	Fixture Units		
			4	В		Size	
	Threaded	in.	mm	in.	mm.		
LF15M2-A-DR	1/2"	1 1/8	28.5	5 15/16	150.9	Α	1-11
LF15M2-B-DR	3/4"	1 3/8	34.9	8 9/16	218.0	В	12-32
LF15M2-C-DR	1"	1 5/8	41.3	8 13/16	223.5	С	33-60
LF15M2-D-DR	1"	2 1/8	54.0	9 15/16	252.5	D	61-113
LF15M2-E-DR	1"	2 1/8	54.0	12 11/16	322.5	E	114-154
LF15M2-F-DR	1000	2 5/8	66.7	11 5/32	283.5	F	155-330

NOTICE

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USA: T: (800) 338-2581 • Watts.com **Canada:** T: (888) 208-8927 • Watts.ca

Latin America: T: (52) 55-4122-0138 • Watts.com

AAV



AIR ADMITTANCE VALVES TECHNICAL SPECIFICATION

SPECIFICATIONS

The purpose of an Air Admittance Valve is to provide a method of allowing air to enter the plumbing drainage system without the use of a vent extended to open air and to prevent sewer gases from escaping into a building. An Air Admittance Valve is a one way valve designed to allow air to enter the plumbing drainage system when negative pressures develop in the piping system. The device shall close by gravity and seal the vent terminal at zero differential pressure (no flow conditions) and under positive internal pressures.

APPROVALS & LISTINGS

ASSE 1050 & 1051 ICC ESR-1664 NSF Standard 14 IAPMO - Classified Mark ASTM D 2665/D 2661 International Plumbing Code (IPC) 2003 International Residential Code (IRC) 2003









Job Name AMS Charter School Item # 39016 Location LR Engineer Ragsdale Comfort Systems USA Contractor P0 # Tag Sanders Supply Representative



FEATURES & MATERIALS

Tension Membrane	Silicone
Sweet Spot™	Sweet Spot [™] technology opens at -0.01 psi and seals at 0 psi and above
Screening	Screening on air inlets to guard the seal
Grip	Protective sleeve provides grip for installation and keeps valve free from debris
Tested	100% functionally tested at 1/4" $\rm H_2O$ and 30" $\rm H_2O$ ensuring trouble free performance
Warranty	Limited Warranty

INSTALLATION

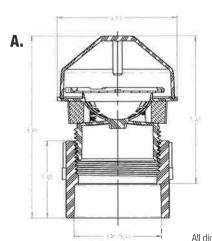
Read installation instructions prior to use of this product. Always consult local plumbing codes prior to installing an AAV. Individual, branch and circuit vents are permitted to terminate with a connection to a Sure-Vent® AAV. The Sure-Vent® AAV will only vent fixtures that are on the same floor and connect to a horizontal branch drain. The horizontal branch drain shall connect to the drainage stack a maximum of four branch intervals from the top of the stack. The Sure-Vent® AAV should be located within the maximum developed length permitted for the vent. The Sure-Vent® AAV must be located a minimum of 4 inches above the horizontal branch drain and 6 inches above any insulation material and within 15 degrees of vertical. Every structure in which plumbing is installed shall have at least one primary stack vent. The stack vent should run as directly as possible from the building drain through to the open air.

Apply approved pipe joint compound or thread seal tape to the male threads of the valve. Remove protective sleeve after installation.

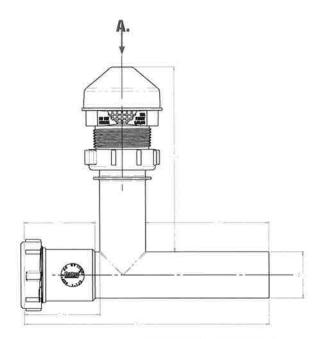


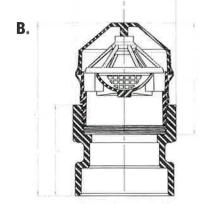
AIR ADMITTANCE VALVES TECHNICAL SPECIFICATION

	DFU Rating	Connection	Membrane	Adapter
Α	20 Branch, 8 Stack	1.5" PVC NPT Threads	Silicone	1.5" PVC
В	160 Branch, 24 Stack	2" PVC NPT Threads	Silicone	1.5" x 2" PVC or ABS
С	160 Branch, 72 Stack	2" PVC NPT Threads	Silicone	2" x 3" PVC or ABS
D	160 Branch, 500 Stack	3" PVC NPT Threads	Silicone	3" x 4" PVC or ABS

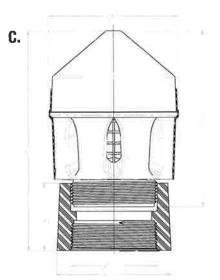


All dimensions in inches

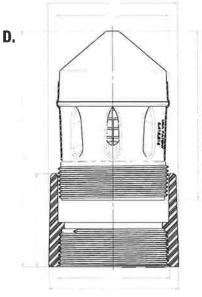




All dimensions in inches



All dimensions in inches



All dimensions in inches



PRODUCT SELECTOR

160 BRANCH, 24 STACK DFU SURE-VENT AIR ADMITTANCE VALVE WITH SCHEDULE 40 ADAPTER

\checkmark	Product Number	Description	Pack
\rightarrow	39016	160 BRANCH, 24 STACK DFU SURE-VENT, 1.5 X 2 IN PVC SCHED 40 ADAPTER	6
	39018	160 BRANCH, 24 STACK DFU SURE-VENT, 1.5 X 2 IN ABS SCHED 40 ADAPTER	6
	39017	160 BRANCH, 24 STACK DFU SURE-VENT, 1.5 X 2 IN PVC SCHED 40 ADAPTER	50
	39019	160 BRANCH, 24 STACK DFU SURE-VENT, 1.5 X 2 IN ABS SCHED 40 ADAPTER	50
	39238	160 BRANCH, 24 STACK DFU SURE-VENT, 1.5 IN W/MECHANICAL ADAPTER	12
	39018C	160 BRANCH, 24 STACK DFU SURE-VENT, 1.5-2 IN ABS CANADA	6
160 E	BRANCH, 72 STACK	DFU SURE-VENT AIR ADMITTANCE VALVE WITH SCHEDULE 40 ADAPTER	
\checkmark	Product Number	Description	Pack
	20000	400 DDANOU ZO OTA OV DELLOUDE VENT O VIOLNI DIVO COUED 40 ADADTED	6
	39220	160 BRANCH, 72 STACK DFU SURE-VENT, 2 X 3 IN PVC SCHED 40 ADAPTER	O
	39220	160 BRANCH, 72 STACK DFU SURE-VENT, 2 X 3 IN ABS SCHED 40 ADAPTER 160 BRANCH, 72 STACK DFU SURE-VENT, 2 X 3 IN ABS SCHED 40 ADAPTER	6
160 I	39221		
160 I	39221	160 BRANCH, 72 STACK DFU SURE-VENT, 2 X 3 IN ABS SCHED 40 ADAPTER K DFU SURE-VENT AIR ADMITTANCE VALVE WITH SCHEDULE 40 ADAPTER	
160 I	39221 Branch, 500 Staci	160 BRANCH, 72 STACK DFU SURE-VENT, 2 X 3 IN ABS SCHED 40 ADAPTER K DFU SURE-VENT AIR ADMITTANCE VALVE WITH SCHEDULE 40 ADAPTER	6

Data is subject to manufacturing tolerances.

PRV-1



Model 600XL

Water Pressure Reducing Valve with Integral By-pass Check Valve and Strainer

Application

Zurn Wilkins model 600XL is designed for installation on potable water lines to reduce high inlet pressure to a lower outlet pressure. The integral strainer makes this device most suitable for residential and commercial water systems requiring frequent cleaning because of sediment and debris. The direct acting integral by-pass design prevents buildup of excessive system pressure caused by thermal expansion. The balanced piston design enables the regulator

to react in a smooth and responsive manner to changes in system flow demand, while at the same time, providing pro-

Standards Compliance

- ASSE® Listed 1003
- IAPMO® Listed
- CSA® Certified
- · City of Los Angeles Approved
- Meets the requirements of NSF/ANSI/CAN 61

Materials

Main valve body Low Lead Cast Bronze ASTM B 584 Low Lead Cast Bronze ASTM B 584 Access covers

Low Lead Brass

Fasteners Stainless Steel, 300 Series

Stem & plunger Low Lead Cast Bronze ASTM B 584

Low Lead Brass

Buna Nitrile, (FDA Approved) Elastomers

EPDM, (FDA Approved)

Cap gaskets Natural Vulcanized Fibre

Acetal (Delrin™)

Strainer screen Stainless Steel, 300 Series Strainer

Stainless Steel, 300 Series Seat

Features

Sizes: 1/2", 3/4", 1", 1 1/4", 1 1/2", 2"

Maximum working water pressure 300 psi Maximum working water temperature 140°F 25 psi to 75 psi

Reduced pressure range (standard) Factory preset

Hydrostatic test pressure

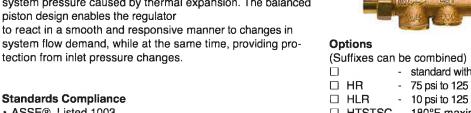
CPVC tailpiece: Max. hot water temp.

140°F @ 100 psi 73.4°F @ 400 psi Cold water rated temp.

50 psi

300 psi

Dimensions & Weights (do not include pkg.)







- standard with 20 mesh strainer screen, SU, FNPT 75 psi to 125 psi spring range, factory set at 85 psi 10 psi to 125 psi spring range, factory set at 50 psi
- 180°F maximum temp, stainless steel trim, ☐ HTSTSC -

spring, sealed cage

- \Box C copper sweat connection
- less integral by-pass check valve
- □ LU less union assembly, female x female (3/4" & 1"

only)

□ LPV 180°F maximum temp with 10 psi to 35 psi

spring range, factory set at 20 psi

 sealed cage bell housing and stainless steel □ SC

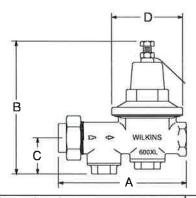
adjustment screw

□ 610XL 400 psi inlet rating and 75 psi to 125 psi spring range, factory set at 85 psi

□ CPVC CPVC tailpiece connection (1/2" - 1")

□ CH - Chrome stem & plunger \square P

 tapped and plugged for gauge □ G tapped and plugged with gauge



e,	ZE				DIME	VSIONS (approximate)			WEIGHT		
31	Z.C.	CONNECTIONS	Α	A		В		С		D		WEIGHT	
in.	mm		in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kg.	
1/2	15	SINGLE UNION	5 1/2	133	6 1/4	159	1 1/4	32	2 3/4	70	3	1.5	
1/2	15	LESS UNION	4 1/2	114	6 1/4	159	1 1/4	32	2 3/4	70	3	1.5	
3/4	20	SINGLE UNION	5 5/16	135	5 1/2	140	1 1/4	32	2 3/4	70	3	1.5	
3/4	20	LESS UNION	4 7/8	121	5 1/2	140	1 1/4	32	2 3/4	70	3	1.5	
1_	25	SINGLE UNION	6 1/8	156	7 1/4	184	2	51	3 3/8	86	5	2.5	
1	25	LESS UNION	5 3/4	146	7 1/4	184	2	51	3 3/8	86	5	2.5	
1 1/4	32	SINGLE UNION	7 1/8	181	8	203	2	51	3 7/8	100	7	3.0	
1 1/2	40	SINGLE UNION	9 1/8	232	10	254	2 1/2	64	5	127	13	6.0	
2	50	SINGLE UNION	10 1/4	260	12	305	3	76	6 1/2	165	21	9.5	

Zurn Industries, LLC | Wilkins

1747 Commerce Way, Paso Robles, CA U.S.A. 93446 Ph. 855-663-9876, Fax 805-238-5766

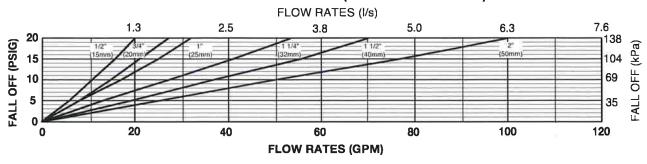
In Canada | Zurn Industries Limited

7900 Goreway Drive, Unit 10, Brampton, Ontario L6T 5W6, 877-892-5216

www.zurn.com

Date: 05/22 Document No. REG-600XL Product No. Model 600XL Patent zurn com/patents

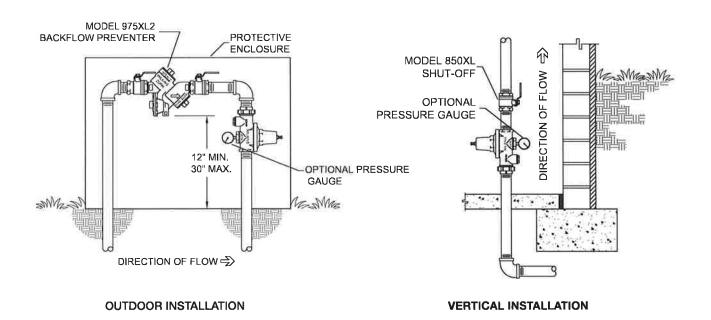
MODEL 600XL 1/2" THRU 2" (STANDARD & METRIC)



'Flow curves are based on a 50 psi pressure differential"

Typical Installation

Local codes shall govern installation requirements. Unless otherwise specified, the assembly shall be mounted in accordance with the latest edition of the Uniform Plumbing Code. The Model 600XL may be installed in any position. If installed in a pit, vault or inside application, specify the "SC" sealed cage option. Multiple installations are recommend for wide demand variations or where the desired pressure reduction is more than 4 to 1 (i.e.: 200 psi inlet reduced to 50 psi outlet). CAUTION: Anytime a reducing valve is adjusted, a pressure gauge must be used downstream to verify correct pressure setting. Do not bottom adjustment bolt on bell housing.



Specifications

The Pressure Reducing Valve shall be certified to NSF/ANSI/CAN 61, consist of a low lead bronze body and bronze bell housing, shall have separate access covers for the plunger and strainer screen and shall have a bolt to adjust the downstream pressure. The Pressure Reducing Valve shall be of the balanced piston design and shall reduce pressure in both flow and no-flow conditions. The bronze bell housing and access caps shall be threaded to the body and shall not require the use of ferrous screws. The Pressure Reducing Valve shall be a ZURN WILKINS Model 600XL.



Model 600XL

Water Pressure Reducing Valve with Integral By-pass Check Valve and Strainer

Application

Zurn Wilkins model 600XL is designed for installation on potable water lines to reduce high inlet pressure to a lower outlet pressure. The integral strainer makes this device most suitable for residential and commercial water systems requiring frequent cleaning because of sediment and debris. The direct acting integral by-pass design prevents buildup of excessive system pressure caused by thermal expansion. The balanced piston design enables the regulator

to react in a smooth and responsive manner to changes in system flow demand, while at the same time, providing protection from inlet pressure changes.



- · ASSE® Listed 1003
- · IAPMO® Listed
- · CSA® Certified
- · City of Los Angeles Approved
- · Meets the requirements of NSF/ANSI/CAN 61

Materials

Main valve body Low Lead Cast Bronze ASTM B 584

Low Lead Cast Bronze ASTM B 584 Access covers

Low Lead Brass

Stainless Steel, 300 Series Fasteners Stem & plunger

Low Lead Cast Bronze ASTM B 584

Low Lead Brass

Buna Nitrile, (FDA Approved) Elastomers

EPDM. (FDA Approved)

Cap gaskets Natural Vulcanized Fibre

Acetal (Delrin™)

Stainless Steel, 300 Series Strainer Strainer screen

Seat Stainless Steel, 300 Series

Features

Sizes: 1/2", 3/4", 1", 1 1/4", 1 1/2", 2"

300 psi Maximum working water pressure 140°F Maximum working water temperature

25 psi to 75 psi Reduced pressure range (standard)

Factory preset 50 psi Hydrostatic test pressure 300 psi

CPVC tailpiece: Max. hot water temp. 140°F @ 100 psi

73.4°F @ 400 psi Cold water rated temp.







NSF/ANSI/CAN 61

Options

(Suffixes can be combined)

- standard with 20 mesh strainer screen, SU, FNPT ☐ HR - 75 psi to 125 psi spring range, factory set at 85 psi
- 10 psi to 125 psi spring range, factory set at 50 psi □ HLR
- ☐ HTSTSC 180°F maximum temp, stainless steel trim,

spring, sealed cage

- □ C copper sweat connection
- less integral by-pass check valve
- □ LU less union assembly, female x female (3/4" & 1"

180°F maximum temp with 10 psi to 35 psi □ LPV

spring range, factory set at 20 psi

□ SC sealed cage bell housing and stainless steel

adjustment screw

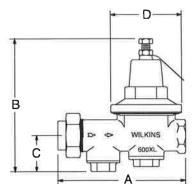
400 psi inlet rating and 75 psi to 125 psi ☐ 610XL

spring range, factory set at 85 psi

□ CPVC CPVC tailpiece connection (1/2" - 1") Chrome stem & plunger □ CH

tapped and plugged for gauge \square P \Box G

tapped and plugged with gauge



SIZ	,_			DIMENSIONS (approximate)									
512	<u> </u>	CONNECTIONS	A		В		С		D		WEIGHT		
in.	mm		in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kg.	
1/2	15	SINGLE UNION	5 1/2	133	6 1/4	159	1 1/4	32	2 3/4	70	3	1.5	
1/2	15	LESS UNION	4 1/2	114	6 1/4	159	1 1/4	32	2 3/4	70	3	1.5	
3/4	20	SINGLE UNION	5 5/16	135	5 1/2	140	1 1/4	32	2 3/4	70	3	1.5	
3/4	20	LESS UNION	4 7/8	121	5 1/2	140	1 1/4	32	2 3/4	70	3	1.5	
_1	25	SINGLE UNION	6 1/8	156	7 1/4	184	2	51	3 3/8	86	5	2.5	
1	25	LESS UNION	5 3/4	146	7 1/4	184	2	51	3 3/8	86	5	2.5	
1 1/4	32	SINGLE UNION	7 1/8	181	8	203	2	51	3 7/8	100	7	3.0	
1 1/2	40	SINGLE UNION	9 1/8	232	10	254	2 1/2	64	5	127	13	6.0	
2	50	SINGLE LINION	10 1/4	260	12	305	3	76	6 1/2	165	21	9.5	



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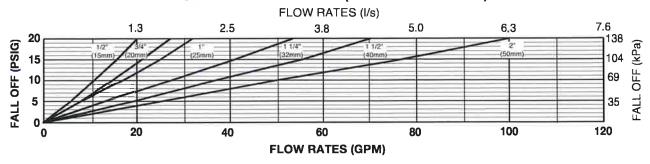
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Rev. J Date: 05/22 Document No. REG-600XL Product No. Model 600XL

Patent zurn com/patents

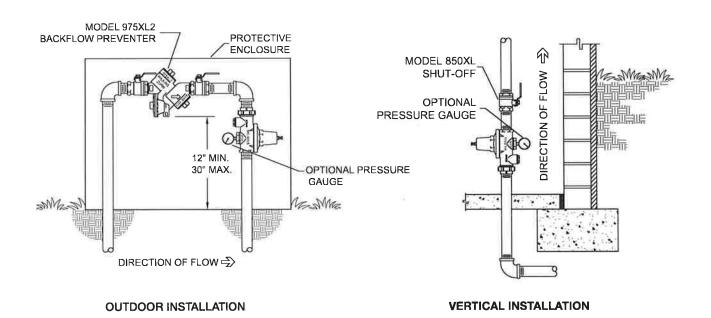
MODEL 600XL 1/2" THRU 2" (STANDARD & METRIC)



"Flow curves are based on a 50 psi pressure differential"

Typical Installation

Local codes shall govern installation requirements. Unless otherwise specified, the assembly shall be mounted in accordance with the latest edition of the Uniform Plumbing Code. The Model 600XL may be installed in any position. If installed in a pit, vault or inside application, specify the "SC" sealed cage option. Multiple installations are recommend for wide demand variations or where the desired pressure reduction is more than 4 to 1 (i.e.: 200 psi inlet reduced to 50 psi outlet). CAUTION: Anytime a reducing valve is adjusted, a pressure gauge must be used downstream to verify correct pressure setting. Do not bottom adjustment bolt on bell housing.



Specifications

The Pressure Reducing Valve shall be certified to NSF/ANSI/CAN 61, consist of a low lead bronze body and bronze bell housing, shall have separate access covers for the plunger and strainer screen and shall have a bolt to adjust the downstream pressure. The Pressure Reducing Valve shall be of the balanced piston design and shall reduce pressure in both flow and no-flow conditions. The bronze bell housing and access caps shall be threaded to the body and shall not require the use of ferrous screws. The Pressure Reducing Valve shall be a ZURN WILKINS Model 600XL.



Model ZW209

Pressure Reducing Valve

Application

The Zurn Wilkins Model ZW209 Pilot Operated Pressure Reducing Valve is designed for many applications where the reduction of high inlet pressures to safe and stable outlet pressure is required. The pilot assembly reacts to changes in downstream pressure allowing the main valve to modulate between the closed and open position ensuring a constant downstream set pressure. Once the downstream pressure reaches the pilot setting, the main valve will seal shut preventing damage downstream. Pressure regulation is not dependent upon flow rate, resulting in minimal pressure loss through the valve. In addition the Model ZW209 comes standard with epoxy coating internally and externally for corrosion protection, as well as isolation valves and pressures gauges for quick and easy maintenance or repair.

Standards Compliance:

- ANSI/AWWA C530
- · Meets the requirements of NSF/ANSI/CAN 61* *(0.25% MAX. WEIGHTED AVERAGE LEAD CONTENT)

Materials

Main Valve Body Main Valve Bonnet **Ductile Iron ASTM A536** Ductile Iron ASTM A536

Disc Guide

Stainless Steel

Seat

Stainless Steel Buna-N Rubber

Disc Diaphragm

Nvlon Reinforced Buna-N

Stem Spring Stainless Steel

Stainless Steel

*The closing speed control (optional) on this valve should always be open at least three (3) turns off its seat.

Schematic Diagram

Description of Standard Features Item

Main Valve 1

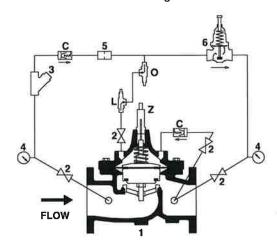
2 850XL Isolation Valve

SXL "Wye" Type Strainer 3

4 Pressure Gauge

5 Restriction Fitting

PRXL Pressure Reducing Control









DIRECTION OF FLOW 引

BODY	CONFIGURATIONS	GLOBE ST	YLE BODY	ANGLE				
END CONNECTION	PRESSURE RATING	FULL PORT						
Threaded	Threaded 400 psi max. 1 1/4"-3" n/a 1 1/4"-3"							
Element	ANSI Class 150, 250 psi max.	1 1/2"-16"	3"-10"	1 1/2"-10"				
Flanged	ANSI Class 300, 400 psi max.	1 1/2 -10	3-10	1 1/2 -10				
Grooved	Grooved 300 psi max. 1 1/2"-10" n/a 1 1/2"							
MINIMUM INLET PRESSURE 10 PSI								

OFDATUDE DATING TO MALE COSE AS 1400E

TEMPERATURE RATING: Water 33°F to 140°F PILOT SPRING RANGE: 15-120 psi	
Standard Features Epoxy Coated, FDA Approved Pilot Assembly "Wye" Type Strainer Opening Speed Control (sizes 1 1/4" - 4") Isolation Valves Inlet and Outlet Pressure Gauges ANSI Class 150 Flanges Copper Tubing and Brass Fittings	
Options (Add suffix letters to ZW209)	
Function Contact the second solution Value of the second solution value o	
C - 40XL2 Hydraulic Check with Isolation Valve	
L - SC1 Closing Speed Control*	
O - SC1 Opening Speed Control (Standard 1 1/4" -4")	
Body A Aprilo Stulo Body	
A - Angle Style Body	
R - Reduced Port Body	
Connections G - IPS Grooved	
TH - NPT Threaded	
Y - ANSI Class 300 Flanges	
Main Valve Options	
V - Viton Rubber Internals, rated 180°F (1-1/4"-6", only available with "LP" or "HP" Option)	
Z - ZPI Visual Position Indicator	
Pilot System LP - 5-25 psi Low Pressure Range PV-PRD Pilot	
(replaces PRXL)	
HP - 30-300 psi High Pressure Range PV-PRD Pilot (replaces PRXL)	
SP - All Stainless Steel Pilotry (replaces all	
brass fittings, pilot valve and copper tubing.	
"GL" Option included)	
SH - Stainless Steel Braided Hoses (only replaces	
Copper Tubing)	
RV - Pilot on Reverse Side	
GL - Liquid Filled Gauge	

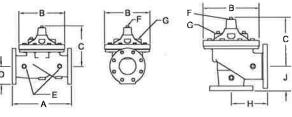
SO - Limit Switch Open Trip SC - Limit Switch Closed Trip SD - Limit Switch Dual Trip

Globe and Angle Main Valve Dimensions

			-			₩,	ALVE SIZE	INCHES	(mm)			1	
DIM	FULL PORT	1 1/4 (32)	1 1/2(38)	2 (50)	21/2(65)	3 (80)	4 (100)	6 (150)	8 (200)	10 (250)	12 (300)	14 (350)	16 (400)
	Threaded	7 1/4	7 1/4	9 7/16	11	12 1/2							
. [Class 150 Flange		8 1/2	9 3/8	11	12	15	20	25 3/8	29 3/4	34	39	41 3/8
A	Class 300 Flange	1	9	10	11 5/8	13 1/4	15 5/8	21	26 7/16	31 1/8	35 1/2	40 1/2	43 1/2
	Grooved		8 1/2	9	11	12 1/2	15	20	25 3/8	29 3/4			
В	Diameter	5 5/8	5 5/8	6 3/4	8	9 3/16	11 11/16	15 3/4	20 1/8	23 11/16	27 1/2	31 3/4	34 1/2
С	Max.	5 3/4	5 3/4	6 3/16	7 3/8	8	10 3/16	12 5/16	15 9/16	17 5/8	20 3/16	22 13/16	25 7/8
\neg	Threaded/Grooved	1 3/8	1 3/8	1 3/4	2 1/8	2 9/16	3 7/16	5	5	5 13/16	6 3/4	8 7/8	8 13/16
D	Class 150 Flange		2 1/2	3	3 1/2	3 3/4	4 1/2	5 1/2	6 3/4	8	9 1/2	10 1/2	11 3/4
	Class 300 Flange		3	3 1/4	3 3/4	4 1/8	5	6 1/4	7 1/2	8 3/4	10 1/4	11 1/2	12 3/4
Е	NPT Body Tap	3/8	3/8	3/8	1/2	1/2	3/4	3/4	1	1	1	1	1
F	NPT Cvr. Plug Tap	1/2	1/2	1/2	1/2	1/2	3/4	3/4	1	1	1	1	1
G	NPT Cover Tap	3/8	3/8	3/8	1/2	1/2	3/4	3/4	1	1	1	1	1
	Threaded	3 1/4	3 1/4	4 3/4	5 1/2	6 1/4							
[Class 150 Flange		4	4 3/4	5 1/2	6	7 1/2	10	12 11/16	14 7/8			
н	Class 300 Flange	1	4 1/4	5	6	6 7/16	8	10 1/2	13 1/4	15 9/16			
Ī	Grooved		4 7/16	4 3/4	5 1/2	6	7 1/2	10	12 11/16	14 7/8	Ī		
	Threaded	1 15/16	1 15/16	3 1/4	4	4 1/2							
. Ì	Class 150 Flange		4	3 1/4	4	4	5	6	8	8 5/8	[
J	Class 300 Flange		4 1/4	3 1/2	4 5/16	4 7/16	5 5/16	6 1/2	8 1/2	95/16			
	Grooved		3 3/16	3 1/4	4	4 1/4	5	6	8	8 5/8			
Valve	Stem Internal Thread	10-32	10-32	10-32	10-32	1/4-20	1/4-20	1/4-20	3/8-16	3/8-16	3/8-16	3/8/16	3/8-16
	Stem Travel (in)	7/16	7/16	3/4	7/8	1	1 3/16	1 3/4	2 3/8	2 13/16	3 7/16	3 13/16	4 5/16
	Approx. Wt. (lbs)	22	26	36	55	70	130	240	440	720	820	1200	1550

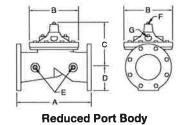
Reduced Port Main Valve Dimensions

		V	VALVE S	SIZE INCH	ES (mm)	
DIM		3" (80)	4" (100)	6" (150)	8" (200)	10" (250)
	Class 150 Flange	10 1/4	14	17 3/4	21 7/16	26
Α	Class 300 Flange	11	14 1/2	18 11/16	22 7/16	27 7/16
В	Dia	6 3/4	9 3/16	11 11/16	15 3/4	20 1/8
С	Max	6 3/8	8 7/16	12 5/16	13 1/4	16 3/4
	Class 150 Flange	3 3/4	4 1/2	5 1/2	6 3/4	8
D	Class 300 Flange	4 1/8	5	6 1/4	7 1/2	8 3/4
E	NPT Body Tap	3/8	1/2	3/4	3/4	1
F	NPT Cvr. Plug Tap	3/8	1/2	3/4	3/4	1
G	NPT Cvr. Tap	3/8	1/2	3/4	3/4	1
Valve:	Stem Internal Thread	10-32	1/4-20	1/4-20	3/8-16	3/8-16
S	item Travel (in)	3/4	1	1 1/5	1 3/4	2 3/8
Ap	prox. Wt. (Lbs)	35	80	140	275	480



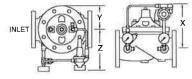
Globe Style Body

Angle Style Body

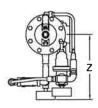


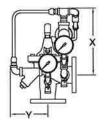
Pilot System Dimensions

PILOT SYS			VILVE SIZE INCHES (mm)												
	DIM	1-1/4 (32)	1-1/2 (40)	2" (50)	2-1/2" (65)	3" (80)	4" (100)	6" (150)	8" (200)	10" (250)	12" (300)	14" (350)	16" (400)		
	Х	B 1/2	8 1/2	8 1/2	8 1/2	9 1/2	12	13	14	17 1/2	20	23	26		
Full Port Body	Υ	4	4	3 1/2	4	4 1/2	6	В	10	12	14	16	17 1/2		
Body	Z	8 1/2	8 1/2	9	9	9 1/2	10	11 1/2	13	14 1/2	17	19	20 1/2		
Reduced	X					8 1/2	9 1/2	12	13	14					
Port	Υ	1				3 1/2	4 1/2	6	8	10					
Body	Z	1				9	9 1/2	10	11 1/2	13					
	Х	9	9	9	9	10	12 1/2	13 1/2	14 1/2	18					
Angle Body	Υ	5	5	5	5	5	6	8	10	12					
Dody	Z	9	9	9 1/2	9 1/2	10	10 1/2	12	13 1/2	15					



Globe Pilot System Dimensions





Angle Pilot System Dimensions

1747 Commerce Way, Paso Robles, CA U.S.A. 93446 Ph. 855-663-9876, Fax 805-238-5766

In Canada | Zurn Industries Limited

7900 Goreway Drive, Unit 10, Brampton, Ontario L6T 5W6, 877-892-5216

Flow Characteristics

1	1
	•

Full Port Globe and Angle Valve size	inches (mm)	1 1/4 (32)	1 1/2 (40)	2 (50)	2 1/2 (65)	3 (80)	4 (100)	6 (150)	8 (200)	10 (250)	12 (300)	14 (350)	16 (400)
Reduced Port Globe Valve Size	inches (mm)			3 (80)		4 (100)	6 (150)	8 (200)	10 (250)				
Suggested Flow	Max. Continuous	93	125	210	300	460	800	1800	3100	4900	7000	8400	11000
(GPM)	Max Intermittent	120	160	260	375	600	1000	2250	4000	6150	8700	10500	13800
	Min. Continuous	10	10	15	20	30	50	115	200	300	435	530	690
	Max. Continuous	6	8	13	19	29	50	113	195	309	550	665	870
Suggested Flow (Liters/sec)	Max. Intermittent	7.6	10	16.4	23	37	62	142	246	388	440	530	95
(2.13.3/300)	Min. Continuous	.6	.6	0.9	1.3	1.9	3.2	7.2	13	19	28	33	43

Suggested flow calculations are based on flow through Schedule 40 Pipe. Maximum continuous flow is approx. 20 ft./sec (6.1 meters/sec) & maximum intermittent is approx. 25 ft./sec (7.6 meters/sec) and minimum continuous flow is approx. 1.25 ft./sec (0.4 meters/sec). Many factors should be considered in sizing pressure reducing valves including inlet pressure, outlet pressure and flow rates.

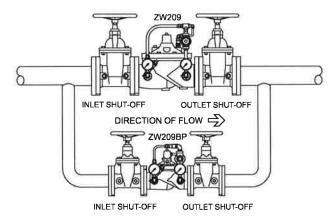
Notice:

In cases where design flow falls below the minimum continuous flow rate, a low flow by-pass shall be installed.

Operation

The Model ZW209 utilizes a pressure reducing pilot valve that installs on the discharge side of the control circuitry. The pilot is a direct acting, normally open, spring loaded, diaphragm actuated valve. The operation of the ZW209 begins with accurately sizing the valve, then fine tuning the control circuit by adjusting the pilot spring to the desired downstream pressure. Inlet pressure is piped to the inlet port of the pressure reducing pilot. A sensing line runs internally from the discharge side of the pilot to its lower control chamber under the diaphragm. Thus, downstream pressure exceeding the preset acts to close the pilot while the adjustable spring seeks to keep it open. The result is a modulating action in the pilot that is transmitted to the bonnet of the main valve. This creates a mirror modulation of the diaphragm assembly in the main valve. Downstream pressure is maintained within narrow limits regardless of changing flow rates or varying inlet pressures.

Typical Installation



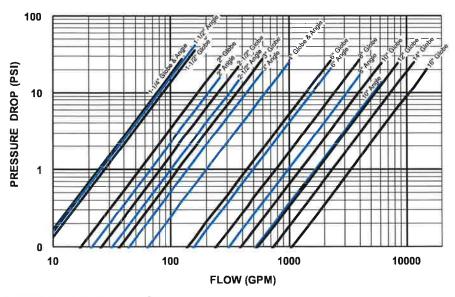
Caution: The recommended installation orientation for ACVs is horizontal, with the valve cover up. 6" and larger valves should only be installed horizontally, with the valve cover up, due to the difficulty of properly bleeding air out of the cover and performing maintenance on valves installed in the vertical orientation.

Specifications

The Pressure Reducing Valve shall be a diaphragm actuated, pilot controlled valve. The main valve body shall be ductile iron ASTM A 536. The stem of the basic valve shall be guided top and bottom. The diaphragm shall not be used as a seating surface. All internal and external ferrous surfaces shall be coated with a high quality, fusion epoxy coating. The pilot control shall be field adjustable from 15 psi to 120 psi. The valve shall be certified to NSF/ANSI/CAN Standard 61. The Pressure Reducing Valve shall be a ZURN WILKINS Model ZW209.

Job Name	AMS Charter School	Contractor	Comfort Systems USA
Job Location	LR	Engineer	Ragsdale

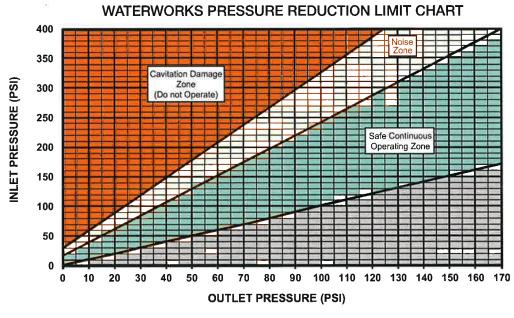
BODY MINIMUM FRICTION LOSS



* Notes for Body Minimum Friction Loss Chart:

Minimum inlet pressure is 10 psi higher than set point or the additional body friction loss intended flow, whichever is higher. (friction loss may be important at flows above 20 ft/s)

Example: A 6" valve intended to flow 2000 GPM at 120 psi has a friction loss of 20 psi at 2000 GPM. The minimum inlet pressure would be 120 + 20 = 140 psi. When inlet pressure is below set point, the outlet pressure will be the pressure at the inlet minus the friction loss.



Notes for Pressure Reduction Limit Chart: Determine if the outlet reduced flowing pressure is within the safe operating zone for your Zurn Automatic Control Valve. First, find the system inlet pressure on the left axis and draw a horizontal line from that point across the chart. Then find the outlet reduced flowing pressure on the bottom axis and draw a vertical line up to where it meets the first line. The point where the lines intersect should be in the green "Safe Continuous Operating Zone" below and to the right of the yellow "Noise Zone". If the operating point is in the area labeled "Noise Zone" or "Cavitation Damage Zone", the valve seal ring, plunger, or body may be damaged. The lifespan of the valve will be reduced. Damage from cavitation to internal components may cause high pressure downstream and/or external leaks. To move out of the cavitation or noise zone you will need to place two valves in series in order to safely reduce pressure. Use the chart to pick an intermediate pressure in the green zone that you will set the first valve in series to. The intermediate pressure you pick will then become the inlet pressure for the 2nd valve and you can verify it will be in the green zone using the chart.

COTG

Engineering Specification

E ngine	oring opcomouncin
Job Name AMS Charter School	Contractor Comfort Systems USA
Job Location LR	Approval
Engineer Ragsdale	Contractor's P.O. No.
Approval	Representative Sanders Supply

CO-200-RX-4

Floor Cleanout with Ductile Iron Top

Specification

Watts Drainage CO-200-RX-4 epoxy coated cast iron floor cleanout with 5"(127) round adjustable gasketed heavy duty ductile iron top, removable gas tight gasketed brass cleanout plug, and no hub (standard) outlet.

	Pipe Sizing	
Suffix	Description	
2	2"(51) Pipe Size	
3	3"(76) Pipe Size	
4	4"(102) Pipe Size	

	Outlet Type	
Suffix	Description	
NH	No Hub (MJ)	
Р	Push On	V
х	Inside Caulk	

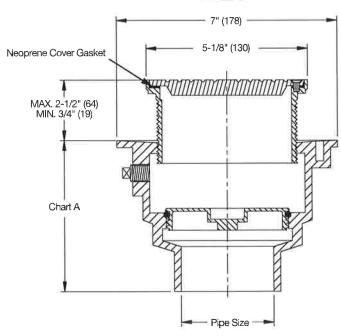
	Options	
Suffix	Description	
-C	Membrane Clamp	
-6	Vandal Proof	
-13	Galvanized Body	

	Optional Body Material	
Suffix	Description	
-60	PVC Body w/Poly Plug	
-61	ABS Body w/Poly Plug	

Chart A

	NH(MJ)	Р	60/61
Pipe Size	No Hub	Push On	PVC/ABS
2*	4-1/2" (114)	5-1/2" (140)	4" (102)
3*	4-1/2" (114)	5-1/2" (140)	4" (102)
4*	4-3/4" (121)	5-1/2" (140)	4" (102)





Load Rating *XHD *The load classifications are in accordance with the American National Standards ASME A112.21.1M ASME Ratings are as follows:

XHD - Safe Live Load 7500-10000 lbs.(3375-4500kg) The above categories are given as a guide only. Please consult factory.

NOTICE

The information contained herein is not intended to replace the full product installation and safety information available or the experience of a trained product installer. You are required to thoroughly read all installation instructions and product safety information before beginning the installation of this product.

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.

USA: T: (800) 338-2581 • F: (828) 248-3929 • Watts.com **Canada:** T: (888) 208-8927 • F: (905) 481-2316 • Watts.ca

Latin America: T: (52) 55-4122-0138 • Watts.com

WCO

Engineering Specification

Job Name AMS Charter School	Contractor Comfort Systems USA
Job Location LR	Approval
Engineer Ragsdale	Contractor's P.O. No.
ApprovalWCO	Representative Sanders Supply

CO-460-RD

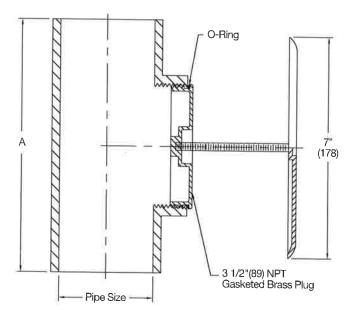
Stack Cleanout with Brass Plug & Stainless Steel Cover

Specification

Watts CO-460-RD cast iron stack cleanout with gasketed brass countersunk plug, stainless steel access cover, vandal proof stainless steel screw, and no hub connections.

PIPE SIZE	"A" HEIGHT
2"(51)	6 1/4"(159)
3"(76)	7 3/4"(197)
4"(102)	9"(229)





Please refer to watts.com for BAA information on specific models.

NOTICE

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ES-WD-CO-460-RD 2138

FCO

Engineering Specification

Job Name AMS Charter School	Contractor Comfort Systems USA
Job Location LR	Approval
Engineer Ragsdale	Contractor's P.O. No.
ApprovalFCO	Representative Sanders Supply

CO-200-R

Floor Cleanout with Round Top

Specification

Watts CO-200-R epoxy coated cast iron floor cleanout with 5"(127) round adjustable gasketed nickel bronze top, removable gas tight gasketed brass cleanout plug, and no hub (standard) outlet.

Pipe Sizing (Select One) Suffix Description		
2	2"(51) Pipe Size	
3	3"(76) Pipe Size	
4	4"(102) Pipe Size	

Outlet Type (Select One) Suffix Description		
NH	No Hub (MJ)	
Р	Push On	V
х	Inside Caulk	

Options (Select One) Suffix Description		
-C	Membrane Clamp	
-6	Vandal Proof	
-13	Galvanized Body	
-CF	Carpet Clamping Flange	
-SO	Side Outlet	

Optic Suffix	nal Body Material (NH C Description	Only)
-60	PVC Body w/Poly Plug	
-61	ABS Body w/Poly Plug	



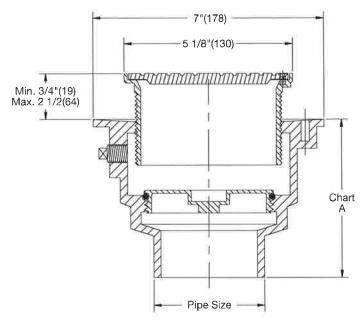


Chart A

Pipe Size	NH	Push-On	PVC/ABS
2"(51)	4 3/4"(121)	5 1/2"(140)	4"(102)
3"(76)	4 3/4"(121)	5 1/2"(140)	4"(102
4"(102)	4 3/4"(121)	5 1/2"(140)	4"(102)

NOTICE

The load classifications are in accordance with the American National Standards ASME A112.36.2M-91(R2012) ASME Ratings are as follows:

MD - Safe Live Load 2000-4999 lbs. (900-2250 kg) The above categories are given as a guide only.

Please consult factory.

NOTICE

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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.



WB-1



Center Drain Galvanized WMOB with Domestic Valves





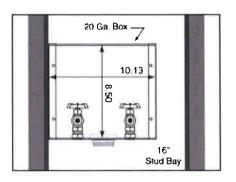
Furnish and install galvanized center drain washing machine outlet box. Unit shall be Guy Gray product code as manufacture by IPS Corporation.

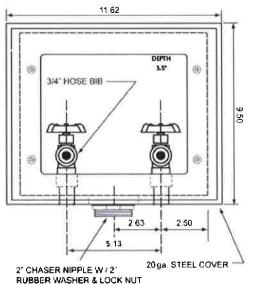
Box Material:

G90 Hot Dipped Galvanized Steel (unpainted) 20 gauge box with 20 gauge faceplate

Valve & Drain Options:

Domestic Valve with 1/2" MIP/Sweat, PEX or CPVC connection furnished. 1-1/2" or 2" Threaded Drain. Valves comply with ASME A112.18.1.





5 F	Product Code #	Product Description	Model Number	Units/ Case
	82026	Domestic Valve w/1/2" MIP/Sweat Conx. Valve, 1-1/2" Threaded Drain Fitting	B150	6
	82032	Domestic Valve w/1/2" MIP/Sweat Conx. Valve, 2" Threaded Drain Fitting	B200	6
\rightarrow	82036	Top Mount 1/2" MIP/Sweat Conx. Valves, 2" Threaded Drain Fitting	BB200TS	(
	81974	Domestic Valve w/1/2" Pex Conx., 2" Threaded Drain	B200X	6
	81975	Domestic Valve w/1/2" CPVC Conx., 2" Threaded Drain	B200C	6
	81957	Outlet Box, less valves, valve holes already punched	B200LV	6
	96997	Tamper resistant cover for Models B, BB, WB, FB & BIM	BTRC	6



K-08 Supplies



McGuire Manufacturing Co., Inc.

60 Grandview Court Cheshire, Connecticut 06410

(203) 699-1801 Fax (203) 699-1813 customerservice@meguiremfg.com meguiremfg.com

Part No.

C8912CECO

Cast Body P-Trap With or Without Cleanout

PRODUCT SPECIFICATION

Submittal Number: Job Name: Rubber Washer Filet 1-1/4" O.D. - 1-1/2" O.D. Slip Nut **Metal Bead with Tapered Washer Joint** Flange Slip Nut В Filet Cast Body Neoprene Gasket Cleanout OOO Available less C to E cleanout Part #8912CNCBECO

ECO-LINE

ROUGHING MEASUREMENTS							
MODEL NO.	TRAP DIMENSIONS			_			
	INLET	OUTLET	A	В	CtoE	FLANGE	SLIP NUT
C8912CECO	1-1/2", 1-1/4"	1-1/2"	5"	5"	10-1/2"	Shallow	Zinc

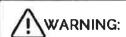
FED SPEC W.W.P. 541 CAST BRASS P-TRAP MINIMUM SEAL 2"



ASME A112.18.2/CSA B125.2

Specifications:

Chrome plated P-Trap shall be east brass body, with or without cleanout, with 17 gauge scamless tubular wall bend and flange.



This product can expose you to chomicals including lead, which is known to the State of California to cause cancer, and birth defects or other reproductive harm. For more information go to www P6gWarnings.ca.gov



McGuire Manufacturing Co., Inc.

60 Grandview Court P.O. Box 746 • Cheshire, CT 06410 203-699-1801 • Fax: 203-699-1813 www.mcguiremfg.com

PRODUCT SPECIFICATION

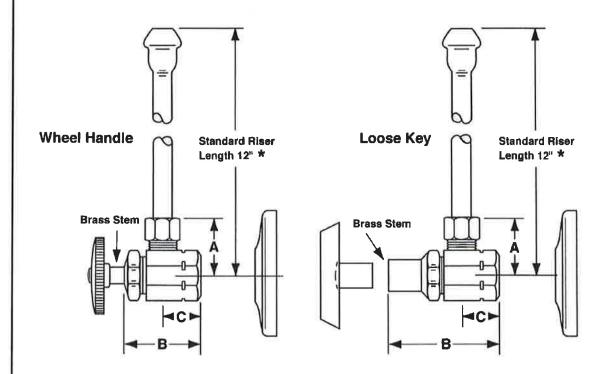
Part No.

LF2165, LF2165LK, LF2167, LF2167LK

Lavatory Supply 1/2" I.P.S. x O.D.

Job Name:

Submittal Number:



	NO.	DESCRIPTION	ROUGHING MEASUREMENTS			
	NO.	DESCRIPTION	A	В	C	
>[LF2165	1/2" I.P.S. x 3/8" O.D.	1-3/16"	1-1/2"	3/4"	
	LF2165LK	1/2" I.P.S. x 3/8" O.D.	1-3/16"	2-1/4"	3/4"	
	LF2167	1/2" I.P.S. x 1/2" O.D.	1-3/16"	1-1/2"	3/4"	
	LF2167LK	1/2" I.P.S. x 1/2" O.D.	1-3/16"	2-1/4"	3/4"	



LK designates Loose Key

Specifications:

Supply kit shall include low lead chrome plated brass supply stop valves with full turn brass stem, no plastic, (12, 15, 20) inch chrome plated risers and (shallow, deep, bell) (steel, brass) or (forged brass with set screw) flange. Inlet shall be (3/8, 1/2) inch (IPS, compression). Outlet shall be (3/8, 1/2) inch compression. Supply kit shall be McGuire ______. Supply kit shall be low lead certified by recognized authority and bear manufacturer and testing mark.

^{*} See options and accessories section for details on product variations.

Supplies



McGuire Manufacturing Co., Inc.

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PRODUCT SPECIFICATION

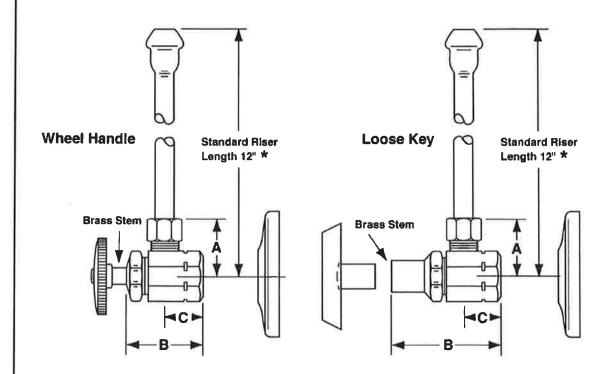
Part No.

LF2165, <mark>LF2165LK,</mark> LF2167, LF2167LK

Lavatory Supply 1/2" I.P.S. x O.D.

Job Name:

Submittal Number:



	NO.	DESCRIPTION	ROUGHING MEASUREMENTS			
	140,	DESCRIPTION	A	В	C	
>[LF2165	1/2" I.P.S. x 3/8" O.D.	1-3/16"	1-1/2"	3/4"	
	LF2165LK	1/2" I.P.S. x 3/8" O.D.	1-3/16"	2-1/4"	3/4"	
	LF2167	1/2" I.P.S. x 1/2" O.D.	1-3/16"	1-1/2"	3/4"	
	LF2167LK	1/2" I.P.S. x 1/2" O.D.	1-3/16"	2-1/4"	3/4"	



LK designates Loose Key

Specifications:

Supply kit shall include low lead chrome plated brass supply stop valves with full turn brass stem, no plastic, (12, 15, 20) inch chrome plated risers and (shallow, deep, bell) (steel, brass) or (forged brass with set screw) flange. Inlet shall be (3/8, 1/2) inch (IPS, compression). Outlet shall be (3/8, 1/2) inch compression. Supply kit shall be McGuire _______. Supply kit shall be low lead certified by recognized authority and bear manufacturer and testing mark.

^{*} See options and accessories section for details on product variations.