

SUBMITTAL

REVIEWED

By Pat Newton at 3:28 pm, Mar 04, 2020

Job:

Spec Section No:

Submittal No:

Revision No:


Sent Date:

Spec Section Title:

Submittal Title:

Contractor:


Contractor's Stamp

Project Name Enterprise Rent-A-Car	
<input type="checkbox"/> APPROVED	<input type="checkbox"/> REJECTED
<input type="checkbox"/> REVISE	<input checked="" type="checkbox"/> REVIEWED
BY EPerron	DATE 03-04-2020
SUBMITTAL# Rev0	SPEC 0

Architect:

Architect's Stamp

MH
Mar. 05 2020



Reviewed as noted ()
Revised and resubmit ()
Not reviewed ()

Date: _____
Reviewed by: _____

This review by J.C.F.A. Inc. is for the sole purpose of ascertaining conformance with the general design concept for architectural features only, and does not in any way constitute review of the design of engineering elements which form part of the contract documents prepared by others. This review shall not mean that J.C.F.A. Inc. approves the detailed design inherent in the shop drawings, responsibility for which shall remain with the Contractor submitting same, and such review shall not relieve the Contractor of the responsibility for errors or omissions in the shop drawings or of the responsibility for meeting all requirements of the contract documents. The Contractor is responsible for dimensions to be confirmed and correlated at the job site, for information that pertains solely to fabrication processes or to techniques of construction and installation, and for coordination of the work of all trades.

Jason C. Flynn-Architect Inc. (J.C.F.A. Inc.)

Engineer:

Engineer's Stamp

NO COMMENT COMMENT AS NOTED
 REJECTED REVISE AND RESUBMIT
 SUBMIT SPECIFIED PRODUCT

CORRECTIONS OR COMMENTS MADE ON SHOP DRAWINGS DURING THIS REVIEW DO NOT RELIEVE THE CONTRACTOR FROM COMPLIANCE WITH DRAWINGS AND SPECIFICATION REQUIREMENTS. CONTRACTOR IS RESPONSIBLE FOR CONFIRMING AND CORRELATING ALL QUANTITIES, CAPACITIES AND DIMENSIONS, SELECTING FABRICATION, CO-ORDINATING HIS WORK WITH THAT OF ALL OTHER TRADES, AND PERFORMING HIS WORK IN A SAFE AND SATISFACTORY MANNER.

ANTARES ENGINEERING GROUP INC.

DATE 9-03-2020 PERS S.S.



BARRIER FREE

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

VITREOUS CHINA with EVERCLEAN®

MADERA™ FloWise® 16-1/2" HEIGHT ELONGATED with EVERCLEAN®

- Floor mount flushometer valve toilet
- Vitreous china
- High Efficiency, Low Consumption. Operates in the range of 1.1 gpf to 1.6 gpf (4.2 Lpf to 6.0 Lpf)
- Meets definition of HET (High Efficiency Toilet) when used with a high efficiency flush valve (1.28 gpf or 1.6 / 1.1 gpf dual flush)
- Permanent EverClean® surface inhibits the growth of stain and odor-causing bacteria, mold, and mildew on the surface
- Fully glazed 2-1/8" trapway
- Elongated bowl
- 10" or 12" roughing-in
- 16-1/2" rim height for accessible application
- Condensation channel
- Powerful direct-fed siphon jet action
- 10" x 12" water surface area
- 1-1/2" inlet spud
- 2 bolt caps
- 100% factory flush tested

- 3461.001** Elongated bowl only, top spud
- 3462.001** Elongated bowl only, top spud with slotted rim for bedpan holding (White only)
- 3465.001** Elongated bowl only, top spud with 4 bolts (White Only)
- 3466.001** Elongated bowl only, top spud with slotted rim for bedpan holding with 4 bolts (White only)
- 3463.001** Elongated bowl only, back spud
- 3464.001** Elongated bowl only, back spud with slotted rim for bedpan holding (White only)

System MaP* Score:

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

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

Component Parts:

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

Nominal Dimensions:

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

Fixture only, less seat and flush valve

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

Compliance Certifications -

Meets or Exceeds the Following Specifications:

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



SEE REVERSE FOR ROUGHING-IN DIMENSIONS

To Be Specified:

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



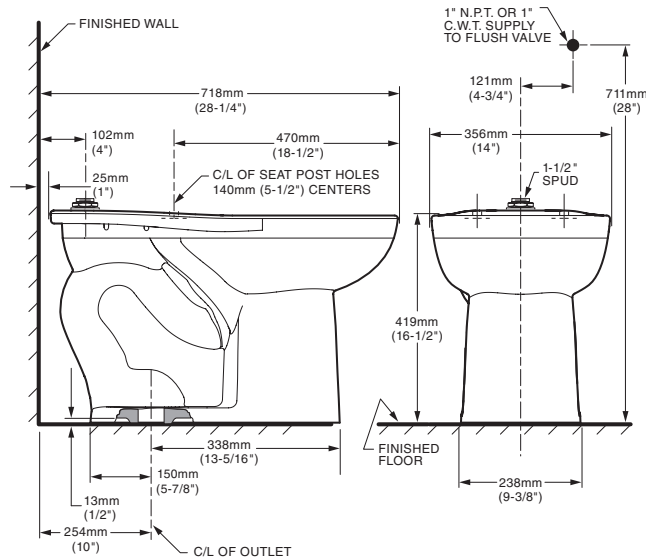
MEETS THE AMERICANS WITH DISABILITIES ACT GUIDELINES AND ANSI A117.1 REQUIREMENTS FOR ACCESSIBLE AND USABLE BUILDING FACILITIES - CHECK LOCAL CODES.

EVERCLEAN®
Surface

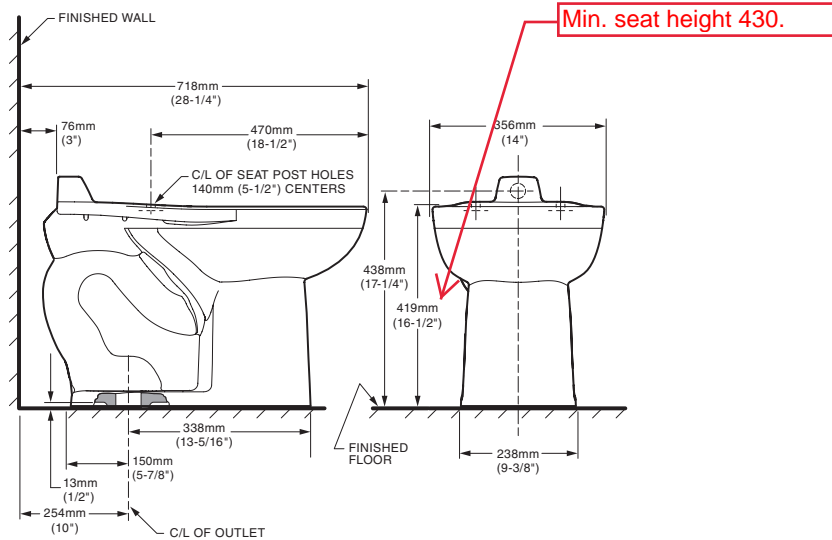




3461.001/3462.001/3465.001/3466.001



3463.001/3464.001



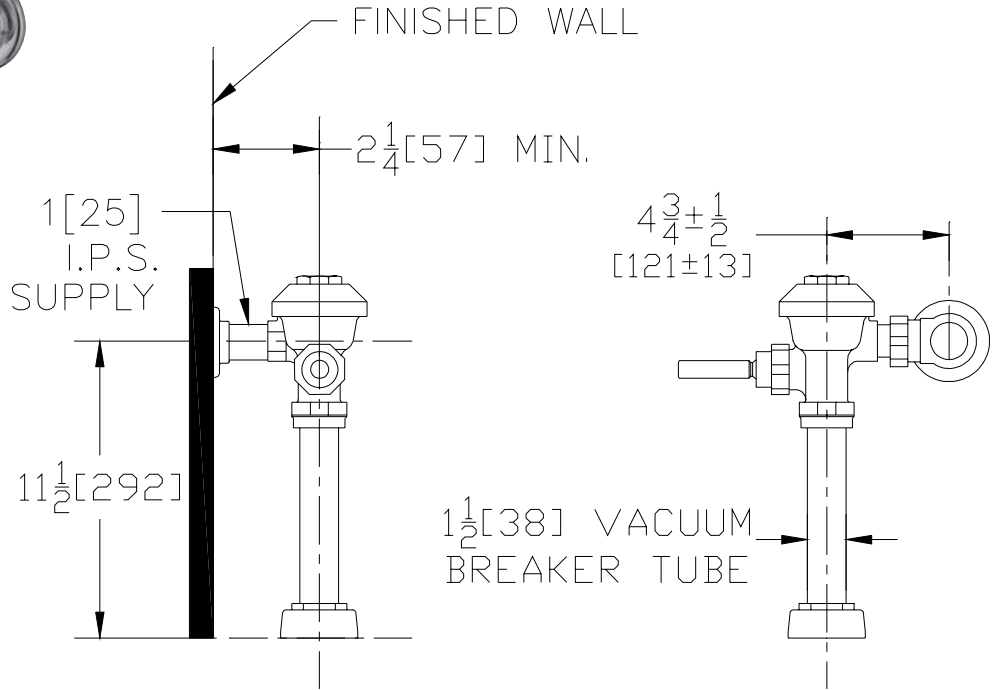
NOTES:

PRODUCT 3461 AND 3463 SHOWN, 3462 AND 3464 SAME EXCEPT WITH SLOTTED RIM FOR BED PAN HOLDING.
TO COMPLY WITH AREA CODE GOVERNING THE HEIGHT OF VACUUM BREAKER ON THE FLUSHOMETER VALVE, THE PLUMBER MUST VERIFY DIMENSIONS SHOWN FOR SUPPLY ROUGHING.
THIS TOILET DESIGNED TO ROUGH-IN AT A MINIMUM DIMENSION OF 254MM (10") AND A MAXIMUM DIMENSION OF 305MM (12") FROM FINISHED WALL TO C/L OF OUTLET.
FLUSHOMETER VALVE NOT INCLUDED WITH FIXTURE AND MUST BE ORDERED SEPARATELY. FLUSHOMETER VALVE REQUIREMENTS FOR 12" (305MM) ROUGH-IN: SWEAT EXTENSION NIPPLE IS REQUIRED. REFER TO VALVE MANUFACTURER AND LOCAL CODES.

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



Exposed Z6000AV Model ✓ For Water Closets



Flow Options

- WS1** 1.6 Gal. Low Consumption Flush
- FF** 4.5 Gal. Full Flush
- Standard Flush** 3.5 Gallons Per Flush

Suffix Options (Check/Specify Appropriate Options)

- _____ **-BG** BioCareHandle
- _____ **-H** Handle on Front of Flush Valve
- _____ **-L** 1" [25] Metal Push Button
- _____ **-L3** 3" [76] Metal Push Button
- _____ **-YJ** Split Ring Pipe Support
- _____ **-YK** Solid Ring Pipe Support
- _____ **-YO** Bumper on Angle Stop
- _____ Other

ENGINEERING SPECIFICATION: ZURN Z6000AV AquaVantage® 'AV' Exposed Closet Flush Valve

- Exposed, quiet diaphragm-type, chrome plated flushometer valve with a polished exterior. Complete with Zurn's AquaVantage® TPE, chloramine resistant, dual seal diaphragm with a clog resistant, triple filtered by-pass. The valve is ADA compliant with a non-hold open and no leak handle feature, high back pressure vacuum breaker, one piece hex coupling nut, adjustable tailpiece, spud coupling and flange for top spud connection. Control stop has internal siphon-guard protection, vandal resistant stop cap, sweat solder kit, and a cast wall flange with set screw. Internal seals are made of chloramine resistant materials.

This space is for Architectural/engineering Approval

Distributed by:

WaterWise Technologies International
P.O. Box 18959 · Asheville, NC 28804

www.waterwisetech.net
828.252.8144



Solid Plastic Seats

Institutional Commercial • Commercial/Hotel/Motel



820 SERIES

DETAILS

820STS ✓

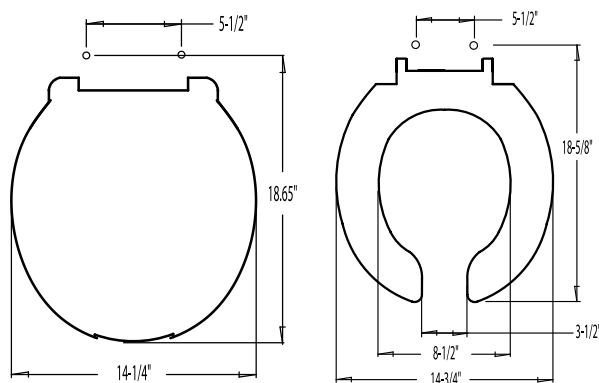
Extra Heavy Duty open front with cover for elongated bowl. Stainless steel reinforced hinge.

820STSS

Extra Heavy Duty open front with cover for elongated bowl. Self sustaining stainless steel ring.

Standard Features:

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



SPECIFICATIONS

Seats shall be Centoco No. 820STS
 Seat and cover shall be injection molded of polypropylene with integrally molded permanent bumpers.

Colour to be White.



L-1 Z5340 ✓

20" x 18" Wall Hung Lavatory

TAG _____



Z5340 Series

- 20" [508 mm] x 18" [457 mm]
- Vitreous china
- Faucet holes for single, 4", or 8" centers
- Wall hung lavatory provided with wall hanger or for use with concealed arm carrier systems
- Front overflow
- Waste: 1-1/4" O.D.
- Depth: 5-3/4"
- Shipping Weight: 42 lbs.

Z5340 Series

Suffix Options:

- ___ **-CB** Cast ductile bracket.
- ___ **-PED** Vitreous china half pedestal

Recommended Trim:

- Z8743-PC** Grid Strainer.
- Z8700** Series P-Trap.
- Z8800** Series Stop with Flexible Supplies.
- Z8946-1-NT** ADA Trap, Stop, and Supply Protectors.

Optional Trim:

- Z8746-PC** ADA Grid Strainer.
- Z8946-3-NT** ADA Trap, Stop, and Supply Protectors for Offset Grid Strainers.

These dimensions and specifications are subject to change without notice.

Fixture dimensions meet ANSI/ASME standard A112.19.2 and CAN/CSA B45 requirements.

Meets the American Disabilities Guidelines and ANSI A117.1 requirements when lavatory is installed 34" [864mm] from finished floor.



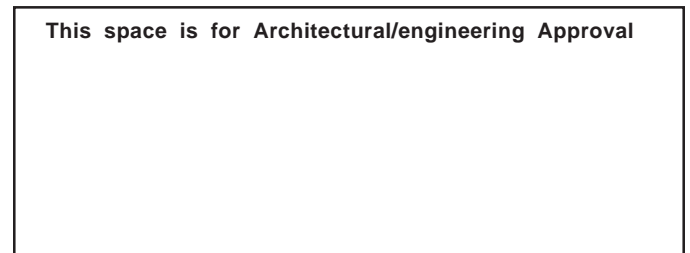
See Zurn One Systems for suggested packages.

Zurn Plumbing Products Group Commercial Brass and Fixtures Operation
2640 South Work Street · Falconer, NY 14733 · Phone: 716-665-1132 · Fax: 716-665-1135 · www.zurn.com

Engineering Specification:

- Z5341** 20" x 18" vitreous china wall hung lavatory with single faucet hole. Provided with hanger plate and holes for concealed arm carrier systems.
- Z5344** 20" x 18" vitreous china wall hung lavatory with 4" center faucet holes. Provided with hanger plate and holes for concealed arm carrier systems.
- Z5348** 20" x 18" vitreous china wall hung lavatory with 8" center faucet holes. Provided with hanger plate and holes for concealed arm carrier systems.

This space is for Architectural/engineering Approval





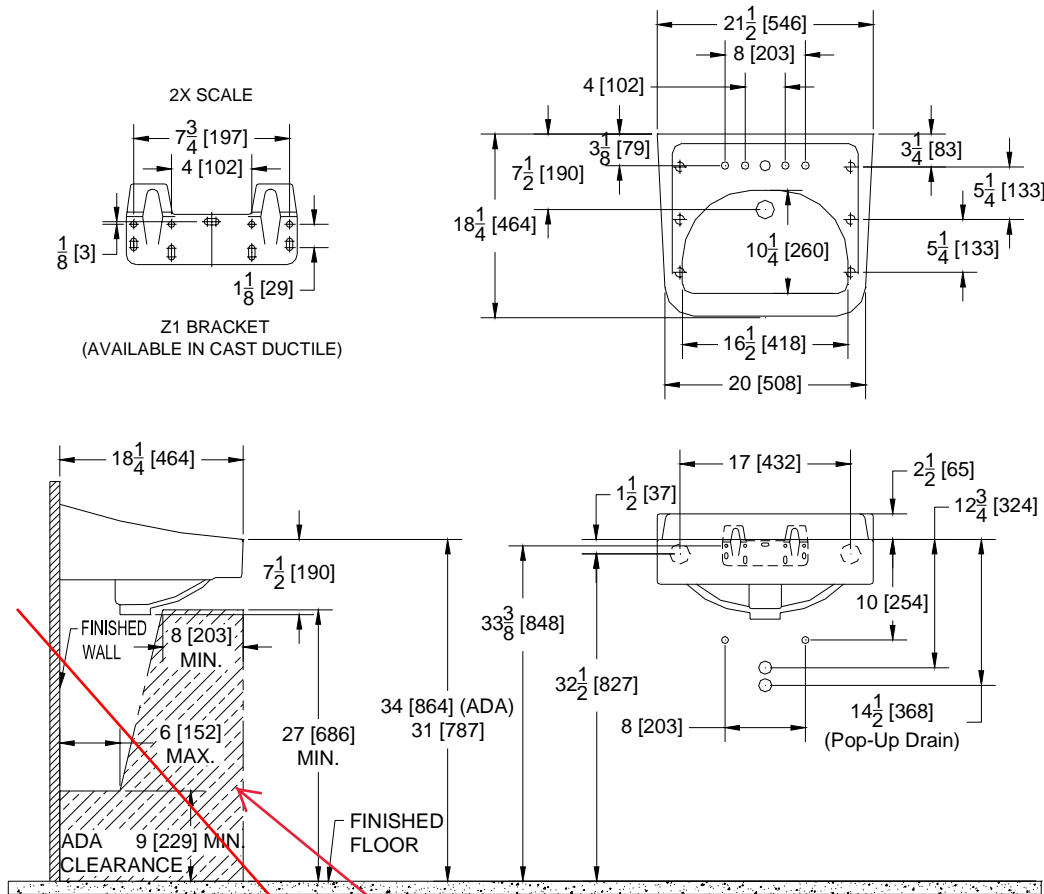
L-1 Z5340

20" x 18" Wall Hung Lavatory Rough-In

TAG _____

Rough-in dimensions for Z5340 Series

- Z5341 Lavatory with single faucet hole
- Z5344 Lavatory with 4" center faucet holes
- Z5348 Lavatory with 8" center faucet holes



See Arch'l 3/A201 for OBC clearances.

These dimensions and specifications are subject to change without notice.

Fixture dimensions meet ANSI/ASME standard A112.19.2 and CAN/CSA B45 requirements.

Meets the American Disabilities Guidelines and ANSI A117.1 requirements when lavatory is installed 34" [864mm] from finished floor.



Note: Rough-in for concealed arm carrier, see Zurn Z-1231 Rough-in sheet.

Zurn Plumbing Products Group Commercial Brass and Fixtures Operation
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**SIERRA FAUCET
Z7440-XL**

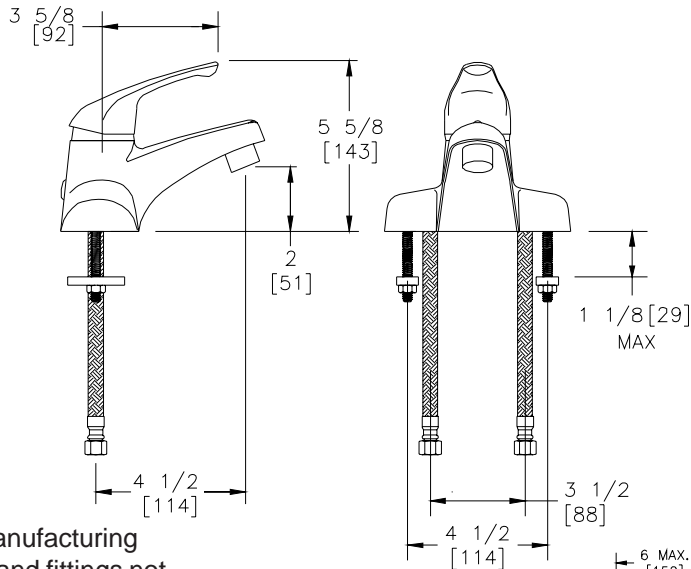
TAG _____



Engineering Specifications: Zurn AquaSpec® Sierra Faucet Z7440-XL

Polished chrome plated 4" [102mm] centerset single control lavatory faucet with 5" [127mm] integral spout, a ceramic disc cartridge and a temperature limit stop. Unit is furnished with 2.2 GPM [8.3L] aerator (complying with ANSI A112.18.1M Standard for flow), an ADA compliant lever handle, 3/8" stainless steel flex hose 18" [457mm] in length with 3/8" female compression fitting.

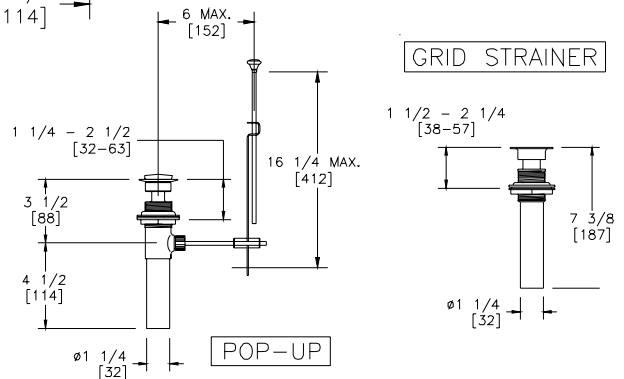
Zurn Lead Compliant* "XL" products are a line of durable, high quality brass faucets and fixtures that are designed and manufactured to comply with state laws and local codes that mandate lead content levels. Zurn "XL" products are manufactured with *not more than 0.25% lead content when used with respect to wetted surfaces of pipes and pipe fittings, plumbing fitting and fixtures: California Health & Safety Code § 116875; Vermont 9 VCA § 2470h.



Note:

Dimensions subject to manufacturing tolerances. Other pipe and fittings not furnished by manufacturer.

Model No.	Lever Handle	No Pop-Up Hole	With Lift Rod Only	With Metal Pop-Up	With Grid Strainer
Z7440-XL	X	X			
Z7441-XL	X		X		
Z7442-XL	X			X	
Z7443-XL	X	X			X



OPTIONS (Check/specify appropriate options)

- ___ - CST Copper Supply Tubes w/ 1/2" IPS Fitting
- ___ - FC 0.5 GPM [1.9L] Vandal Resistant Aerator
- ___ - LA 2.2 GPM [8.3L] Laminar Flow Aerator
- ___ - SO 1.0 GPM [3.8L] Spray Outlet
- ___ - VP 2.2 GPM [8.3L] Vandal Resistant Aerator
- ___ - VP1.5 1.5 GPM [5.7 L] Vandal Resistant Aerator
- ___ -SO.35 0.35 GPM [1.3 L] Pressure Compensating Spray Outlet
- ___ -SOVP.35 0.35 GPM [1.3 L] Vandal-Resistant Pressure Compensating Spray Outlet

STANDARDS

Lever handle models meet or exceed ANSI A117.1M Handicap specifications.



FLOWRATE

2.2 GPM (8.3 LPM) @ 80 PSI

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

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

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



L-1



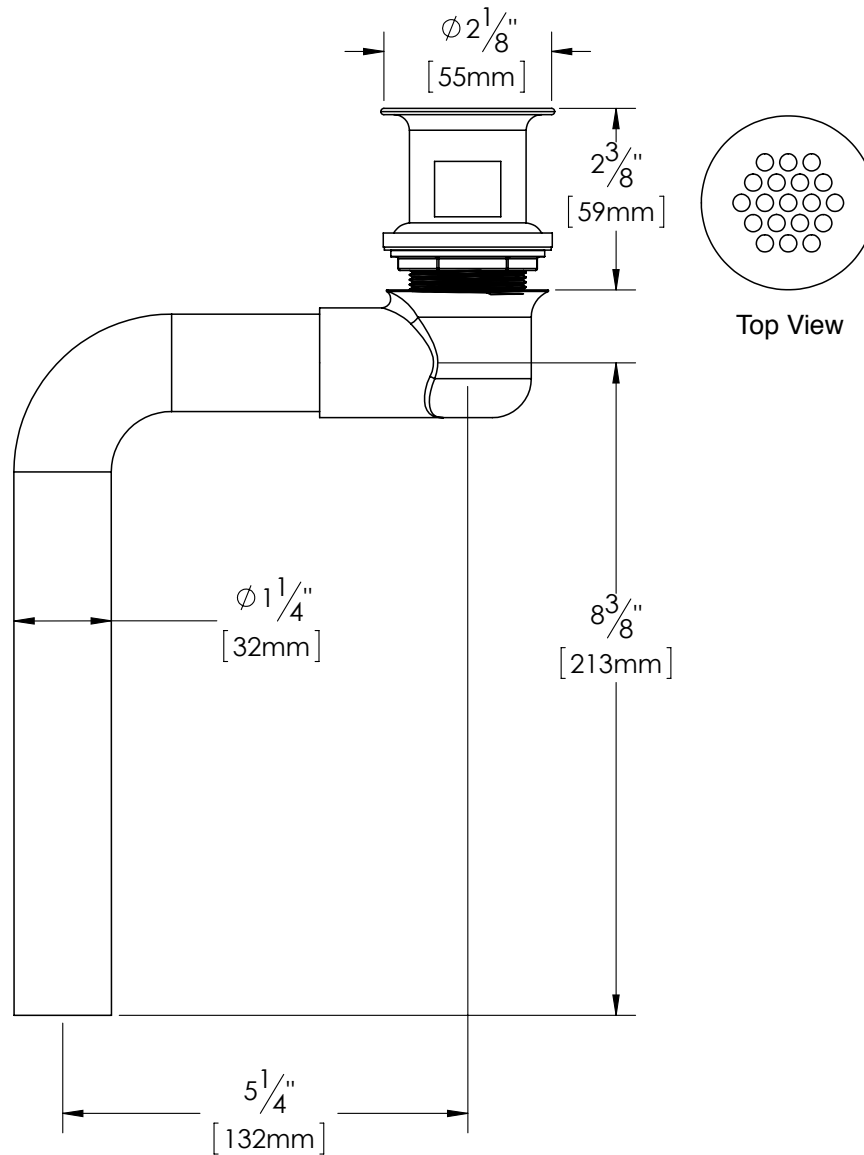
3700WC

P.O PLUG - OFFSET OPEN GRID

Description:

OFFSET LAVATORY DRAIN P.O. SHALL BE SUPPLIED WITH 19 HOLE GRID PATTERN, CHROME FINISH, CAST BRASS, 17 GAUGE 1-1/4" X 8-3/8" BRASS TAIL-PIECE, LOCKNUT, HEAVY RUBBER GASKET, CERTIFIED BY CSA

Certification



Oakville Stamping and Bending Ltd.

2200 Speers Road, Oakville, ON, Canada. L6L 2X8.

T. 905.827.0320 or toll free 1.877.314.6040 F. 905.827.6375 or toll free 1.877.827.6040.

Contractor: Optimum Mechanical

www.osb.ca

Job: Enterprise Rent-A-Car,
225 Huntmar Dr.

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L-1

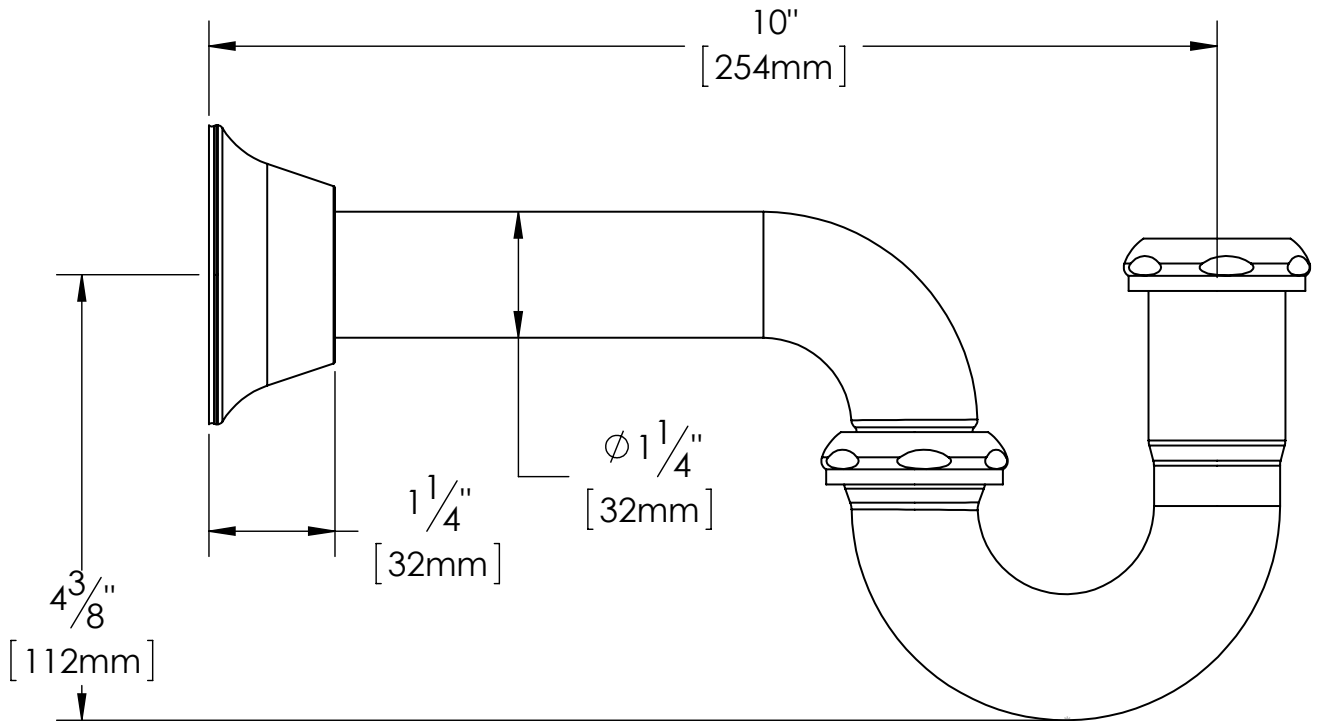
110BDP

1-1/4" 20GA P-TRAP, LESS CLEANOUT

Description:

P-TRAP SHALL BE 1-1/4" GROUND JOINT, 20 GAUGE TUBULAR BRASS, 7" BRASS WALLBEND, CHROME FINISH, BRASS NUTS, DEEP BELL FLANGE, LESS CLEANOUT, CERTIFIED BY CSA

Certification



Oakville Stamping and Bending Ltd.

2200 Speers Road, Oakville, ON, Canada. L6L 2X8.

T. 905.827.0320 or toll free 1.877.314.6040 F. 905.827.6375 or toll free 1.877.827.6040.

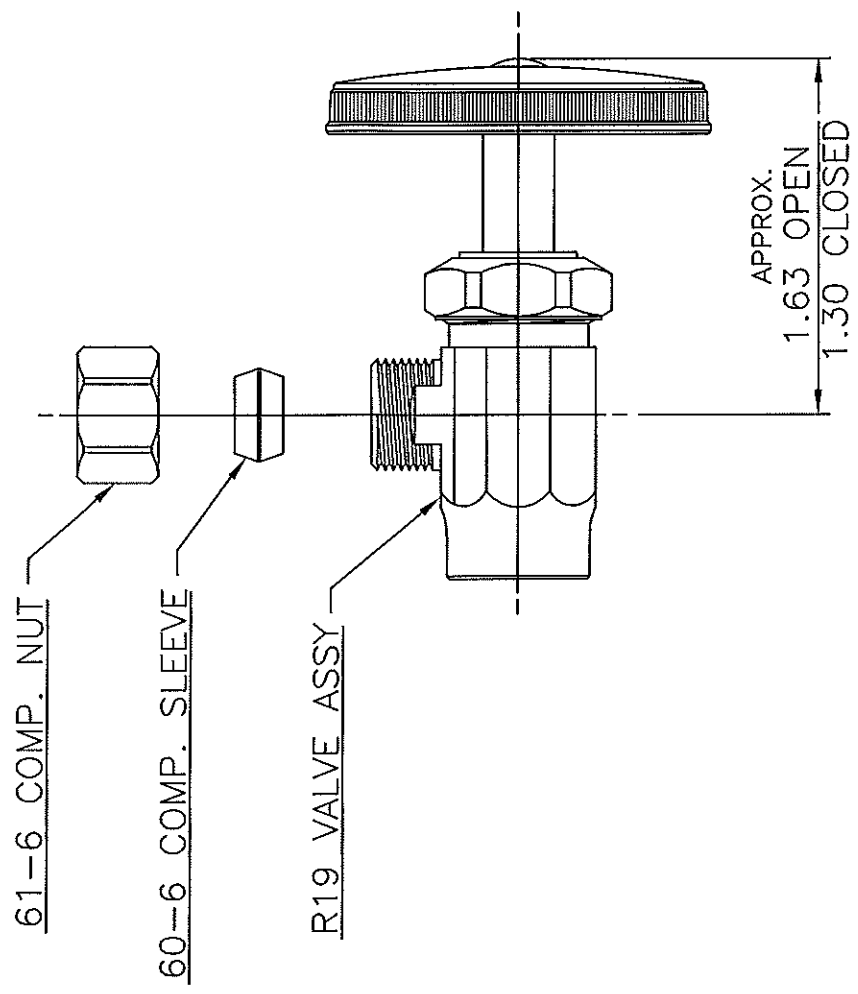
Contractor: Optimum Mechanical

www.osb.ca


Job: Enterprise Rent-A-Car,
225 Huntmar Dr.

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LET.	DATE	PER	BY	CHANGE
A	5/16/97	MKK	JPS	RELEASE
B	9/25/02	JPS	KAK	ADDED CHART



ITEM I.D. (B)	
CHROME	ROUGH
R19 C	R19 R

 <p>BrassCraft A Masco Company NOVI, MICHIGAN</p>		DESCRIPTION 1/2 NOM. SWEAT x 3/8 O.D. COMP. VALVE ASSEMBLY (SUBMITTAL)	DRAWING NO. VPA0539B
CLASS ALL GDT PER ANSI STD Y14.5M CLASSIFICATION OF QUALITY LEVELS	SYMBOL ◇ △ ○	DRAWN SCHUTTE DATE: 5/16/97	ITEM DESCRIPTION R19
KPC (KEY PRODUCT CHARACTERISTICS) STPC (STANDARD PRODUCT CHARACTERISTICS)	PRODUCT MARKINGS	CHK'D. JPS DATE: 11/01/2002	ITEM ID R19 C
This drawing and all data contained herein is the confidential and exclusive property of BrassCraft Manufacturing, and shall not be disclosed to others without the written consent of BrassCraft. This drawing must be returned to BrassCraft if requested.	NOTE: UNLESS OTHERWISE SPECIFIED TWO PLACE DECIMALS +/- .010 THREE PLACE DECIMALS +/- .005 ANGULARITY +/- 1°	APP'D. DATE:	SEE CHART
		UNITS A	SCALE UNLESS NOTED FULL
		SIZE INCH	REV. B

LET.	DATE	PER	BY	CHANGE
A 8/29/03 WFT MJP RELEASE				

SECTION A-A

ITEM ID	FINISH
649	STAINLESS STEEL
649 A	ANTIQU BRASS
649 BRL	BRILLANCE

DRAWN PERNAK	DATE: 08/29/2003
CHK'D. Klrmkie	DATE: 08/29/2003
APP'D.	DATE:

NOTE: UNLESS OTHERWISE SPECIFIED
TWO PLACE DECIMALS +/- .010
THREE PLACE DECIMALS +/- .005
ANGULARITY

<p style="font-size: small;">A Masco Company NOVI, MICHIGAN</p> <p style="font-size: x-small;">ALL GDT PER ANSI STD Y14.5M CLASSIFICATION OF QUALITY LEVELS</p> <p style="font-size: x-small;">CLASS SYMBOL</p> <p style="font-size: x-small;">KPC (KEY PRODUCT CHARACTERISTICS) ◇</p> <p style="font-size: x-small;">STPC (STANDARD PRODUCT CHARACTERISTICS) △</p> <p style="font-size: x-small;">PRODUCT MARKINGS ○</p>	<p style="font-size: small;">DESCRIPTION 1/2 NOM (5/8 OD) SHALLOW FLANGE (SUBMITTAL)</p> <p style="font-size: small;">DRAWING NO. MPG0139A</p> <p style="font-size: small;">ITEM DESCRIPTION 649</p> <p style="font-size: small;">ITEM ID 649</p> <p style="font-size: small;">SEE CHART</p>
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This drawing and all data contained herein is the confidential and exclusive property of BrassCraft Manufacturing, and shall not be disclosed to others without the written consent of BrassCraft. This drawing must be returned to BrassCraft if requested.

UNITS INCH	SCALE: (UNLESS NOTED) FULL	REV. A
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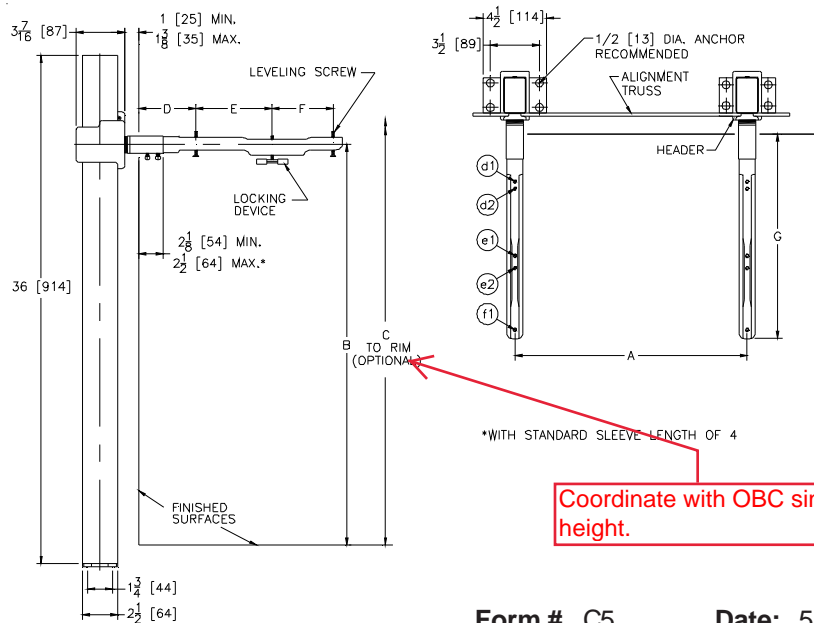
L-1 Carrier Z1231 Universal Installation Sheet

(TYPICAL INSTALLATION SHOWN)

ARM STYLE -080

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

Fixture Name	Fixture No.	Size	A	B	C	D	E	F	G	HOLES
American Standard										
Penlyn	0373.950	18 x 15-78	15 [381]	29-1/2 [749]	31 [787]	4 [102]	5 [127]	5 [127]	14-5/8 [371]	D2,E1,F1
Penlyn	0373.050	18 x 15-78	15 [381]	29-1/2 [749]	31 [787]	4 [102]	5 [127]	5 [127]	14-5/8 [311]	D2,E1,F1
Missouri	0436.004	20 x 18-1/4	16-1/4 [413]	29-1/4 [743]	31 [787]	4-1/2 [114]	5-5/8 [143]	4-3/8 [111]	15-1/8 [384]	D2,E2,F1
Kohler										
**Chesapeake	K-1728	19 X 17	15-3/8 [391]	29-1/2 [749]	31 [787]	3-1/4 [83]	5-1/4 [133]	5-1/4 [133]	14-3/8 [365]	D1,E1,F1
**Chesapeake	K-1729	20 X 18	15-3/4 [400]	30 [762]	31 [787]	3-1/4 [83]	5-1/4 [133]	5-1/4 [133]	14-3/8 [365]	D1,E1,F1
Brenham	K-1997/1999	21-15/16 X 19-3/4	18-5/16 [465]	29-1/8 [740]	31 [787]	4 [102]	4-1/2 [114]	5-1/4 [133]	14-5/8 [371]	D2,E1,F1
Kingston	K-2005,06,07	21 X 18	17-1/4 [438]	29-1/8 [740]	31 [787]	3-1/4 [83]	5-1/4 [133]	5-1/4 [133]	14-3/8 [365]	D1,E1,F1
Greenwich	K-2030,31,32	21 X 18	17-1/4 [438]	29 [737]	31 [787]	3-1/4 [83]	5-1/4 [133]	5-1/4 [133]	14-3/8 [365]	D1,E1,F1
Greenwich	K-2034,36	21 X 18	16-1/2 [419]	29 [737]	31 [787]	3-1/4 [83]	5-1/4 [133]	5-1/4 [133]	14-3/8 [365]	D1,E1,F1
Zurn										
Lavatory	Z5341	21 X 18	17 [432]	32-1/2 [826]	34 [864]	3-1/4 [83]	5-1/4 [133]	5-1/4 [133]	14-3/8 [365]	D1, E1, F1
Lavatory	Z5344	21 X 18	17 [432]	32-1/2 [826]	34 [864]	3-1/4 [83]	5-1/4 [133]	5-1/4 [133]	14-3/8 [365]	D1, E1, F1
Lavatory	Z5348	21 X 18	17 [432]	32-1/2 [826]	34 [864]	3-1/4 [83]	5-1/4 [133]	5-1/4 [133]	14-3/8 [365]	D1, E1, F1
Lavatory	Z5361	21-1/2 X 18-1/4	17 [432]	32-1/2 [826]	34 [864]	3-1/4 [83]	5-1/4 [133]	5-1/4 [133]	14-3/8 [365]	D1, E1, F1
Lavatory	Z5364	21-1/2 X 18-1/4	17 [432]	32-1/2 [826]	34 [864]	3-1/4 [83]	5-1/4 [133]	5-1/4 [133]	14-3/8 [365]	D1, E1, F1
Lavatory	Z5368	21-1/2 X 18-1/4	17 [432]	32-1/2 [826]	34 [864]	3-1/4 [83]	5-1/4 [133]	5-1/4 [133]	14-3/8 [365]	D1, E1, F1



PARTS LIST

(2) HEADER	56311-001
(1) ALIGNMENT TRUSS (24[610])	28588-008
(2) ARM	02008-080
(2) ARM SLEEVE (4 [102])	82069-001
(4) ARM SET SCREW (3/8-16 X 1/2 [13])	18006-071
(4) HEADER SET SCREW (3/8-16 X 1/2 [13])	18006-071
(1) HARDWARE BAG	66955-008
CONTAINS:	
(2) LOCKING DEVICE	30027-001
(4) LEVELING SCREW (1/4-20 X 1-3/4[35])	23453-042
(3) INSTRUCTION SHEET	FORM #C3-C6

** REQUIRES 2 ADDITIONAL 1/4 [6] X 3 1/4 [83] LEVELING SCREWS

Form # C5 Date: 5/24/12 C.N. No. 124412 Rev. P

L-1 Insulation Kit

"PRO-EXTREME"™

A.D.A. COMPLIANT UNDER-LAV PROTECTORS

PLUMBEREX

SPECIALTY PRODUCTS INC.

Engineering Smart Solutions



ADA Compliant for Americans with Disabilities Act



SUBMITTAL SHEET

PROJECT	
DWG #	
ITEM #	

SUBMITTAL SPEC SHEET

Insulate per ADA 4.19.4, (ADA/ABA 606.5 rev.) and IBC/ANSI A117.1, all drainage piping including all hot and cold water supplies under lavatories. Insulate with brand: Pro-Extreme™ Manufacturer: Plumberex, Inc.

Molded PVC Protectors containing anti-microbial/anti-fungal and UV inhibitors with Self-extinguishing flammability characteristics. Fastening system to consist of tamper-resistant, smooth, non-abrasive snap-locks. **P-Trap Protector:** One-Piece protector designed with full rotation option. Protector must have weep holes at the lowest point for proper leak drainage and for ventilation. **Valve and Supply Protectors:** One-Piece protectors designed with removable cap for access to water shut-off. Removable Cap can be reassembled and secured; no loose access parts are allowed to ensure long-term tamper-resistance. Protector must have weep holes at the lowest point for proper leak drainage and for ventilation. **Wheel Chair Offset Strainer Protector:** One-Piece protector designed with full rotation option. Protector also uses Velcro fasteners for easy installation.

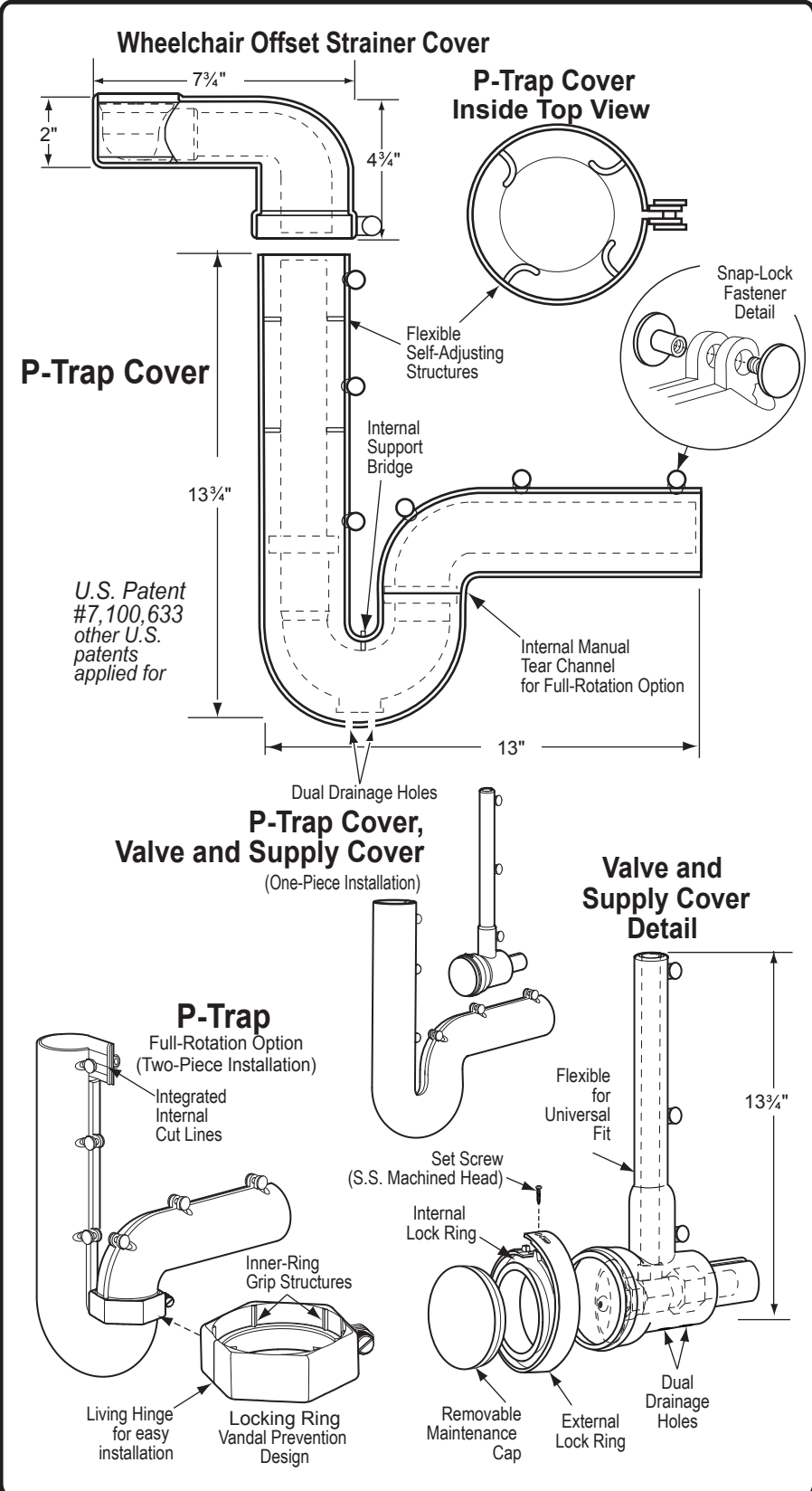
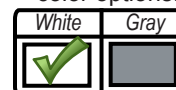
CODE COMPLIANCE

- ADA 4.19.4/ABA 606.5 (rev.)
- IBC/ANSI A117.1
- Uniform Building Code (UBC)
- Canadian Barrier Free Act
- California Title 24, Article P1504B

PART NUMBER BY PRODUCT

- MODEL # X4111
1 P-Trap Cover
- MODEL # X4112
1 Valve & Supply Cover
- MODEL # X4114
1 Wheelchair Offset Strainer
- MODEL # X4222
1 P-Trap Cover,
1 Valve & Supply Cover Cover
- MODEL # X4333
1 P-Trap Cover,
2 Valve & Supply Covers
- MODEL # X4444
1 P-Trap Cover
1 Wheelchair Offset Strainer Cover
2 Valve & Supply Covers

PRO-EXTREME color options:



P.O. Box 1684 Palm Springs, CA 92263 (760) 343-7363 1-800-475-8629 FAX (760)343-7366
Plumberex Specialty Products, Inc. Reserves the right to make changes or improvements at any time without notice.

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Contractor: Optimum Mechanical

Job: Enterprise Rent-A-Car,
225 Huntmar Dr.

WH-1



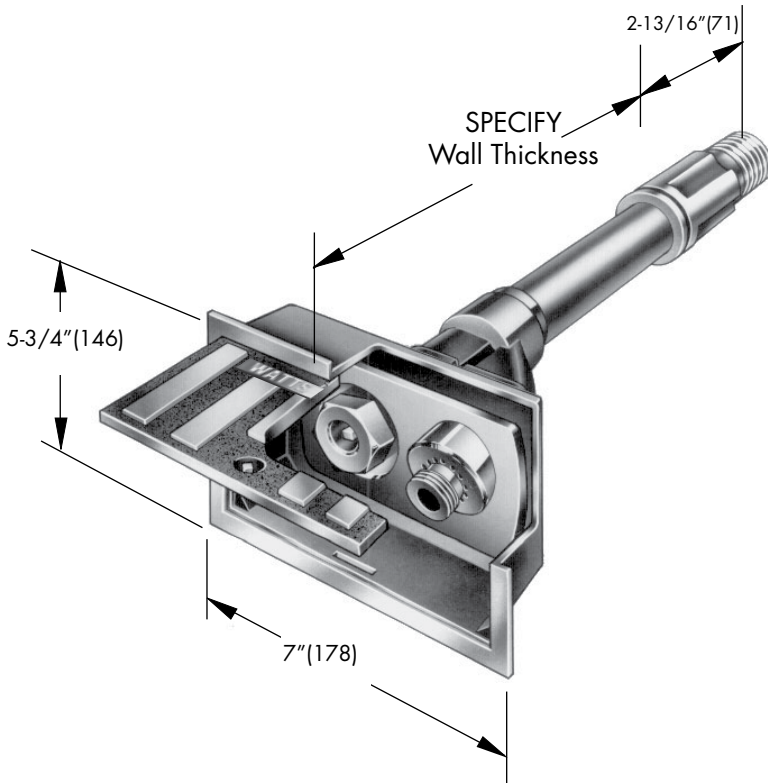
HY-725 ✓

Tag: _____

Non-Freeze Wall Hydrant with NB Box, Integral Vacuum Breaker

SPECIFICATION: Watts Drainage HY-725 concealed non-freeze 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, bronze wall casing, and loose key. Complies with ASSE 1019-2004, UPC/IAMPO Listed. Max operating pressure 125 psi.

FUNCTION: For recessed installation in exterior walls where self-draining integral vacuum breaker is required in areas subject to freezing.

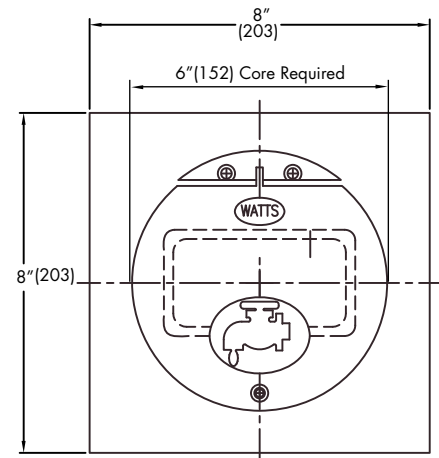


Order Code: HY-725 - [] - []

Ex. HY-725-10-K

Wall Thickness (Select One)		
Suffix	Description	
6	6"(152) Thick	<input type="checkbox"/>
8	8"(203) Thick	<input type="checkbox"/>
10	10"(254) Thick	<input checked="" type="checkbox"/>
12	12"(305) Thick	<input type="checkbox"/>
14	14"(356) Thick	<input type="checkbox"/>
16	16"(406) Thick	<input type="checkbox"/>
18	18"(457) Thick	<input type="checkbox"/>
20	20"(508) Thick	<input type="checkbox"/>
22	22"(559) Thick	<input type="checkbox"/>
24	24"(610) Thick	<input type="checkbox"/>
Other	Specify _____	

Options (Select One or More)		
Suffix	Description	
-88	Wall Clamp	<input type="checkbox"/>
-K	Keyed Custodian Operation Cylinder Lock	<input type="checkbox"/>
-R	Round Stainless Steel Box	<input type="checkbox"/>
-SS	Cast Stainless Steel Box	<input type="checkbox"/>



-R Round Box for Tilt-Up Construction

*Lead Free Hydrant

Recommended Wall Opening:
5-1/4" x 6-1/4"(133x158)

Job Name _____
Job Location _____
Engineer _____

Contractor _____
Contractor's P.O. No. _____
Representative _____

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: Tel: (800) 338-2581 • Fax: (828) 248-3929 • Watts.com
Canada: Tel: (905) 332-4090 • Fax: (905) 332-7068 • Watts.ca
Latin America: Tel: (52) 81-1001-8600 • Fax: (52) 81-8000-7091 • Watts.com



ES-WD-11-725-01-1620
Contractor: Optimum Mechanical

Job: Enterprise Rent-A-Car, 16 Watts
225 Huntmar Dr.

HB-1



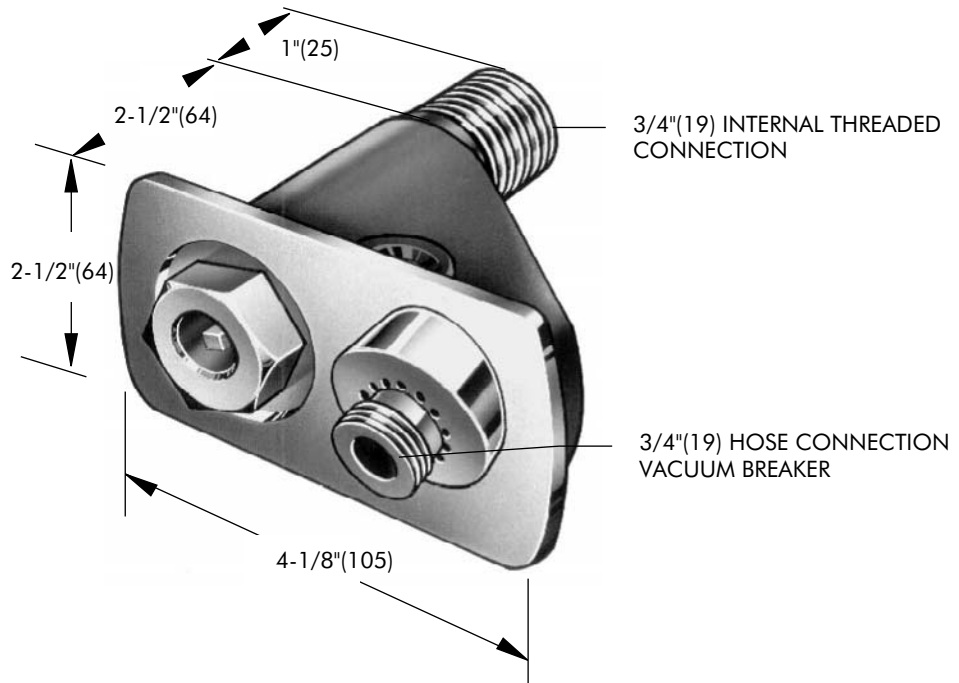
HY-430 ✓

Tag: _____

**Moderate Climate Wall Hydrant
with Chrome Face,
Integral Vacuum Breaker**

SPECIFICATION: Watts Drainage Products HY-430 moderate climate key operated wall hydrant with chrome plated face, integral vacuum breaker, 3/4"(19) hose connection, all bronze head, seat casting and internal working parts, galvanized wall casing, and hydrant key.

FUNCTION: For flush installation in interior walls or decks or in exterior areas not subject to freezing.



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

Job Name _____ Contractor _____

Job Location _____ Contractor's P.O. No. _____

Engineer _____ Representative _____

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.



CANADA: 5435 North Service Road, Burlington, ON, L7L 5H7 TEL: 905-332-6718 TOLL-FREE: 1-888-208-8927 Website: www.wattsdrainage.ca



FD-1



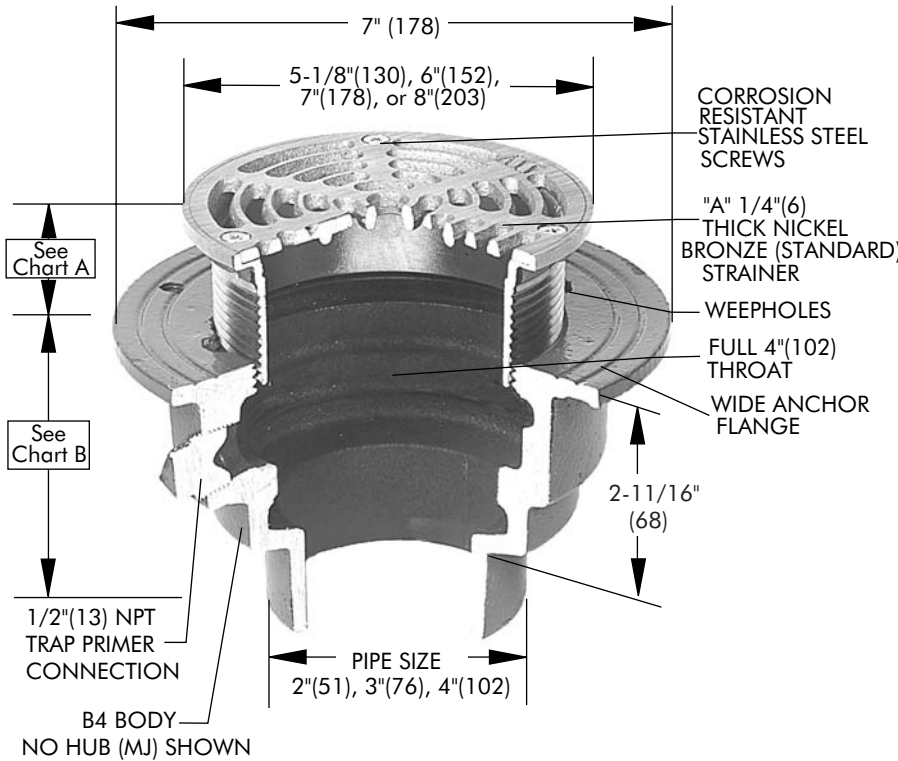
FD-200-A ✓
Tag: _____

Floor Drain with Round Strainer

Components:



SPECIFICATION: Watts Drainage Products FD-200-A epoxy coated cast iron floor drain with anchor flange, weepholes, 1/4"(6) thick (specify diameter) nickel bronze (standard) strainer, and no hub (MJ) (standard) outlet.



Order Code: **FD-20** [] - [] - [] - []

Ex. **FD-202P-A5-1**

Pipe Sizing (Select One)	
Suffix	Description
2	2"(51) Pipe Size <input type="checkbox"/>
3	3"(76) Pipe Size <input checked="" type="checkbox"/>
4	4"(102) Pipe Size <input type="checkbox"/>

Outlet Type (Select One)	
Suffix	Description
NH	No Hub (MJ) <input checked="" type="checkbox"/>
P	Push On <input type="checkbox"/>

Strainer (Select One)	
Suffix	Description
A5-1	5"(127) Diameter, Nickel Bronze <input checked="" type="checkbox"/>
A6-1	6"(152) Diameter, Nickel Bronze <input type="checkbox"/>
A7-1	7"(178) Diameter, Nickel Bronze <input type="checkbox"/>
A8-1	8"(203) Diameter, Nickel Bronze <input type="checkbox"/>

Options (Select One or More)	
Suffix	Description
-5	Sediment Bucket <input type="checkbox"/>
-6	Vandal Proof <input type="checkbox"/>
-8	Backwater Valve (3" / 4" Only) <input type="checkbox"/>
-12	Galvanized Top <input type="checkbox"/>
-13	All Galvanized <input type="checkbox"/>
-15	Strainer Extension (DD-50) <input type="checkbox"/>
-113M	Special Epoxy from 3M Range <input type="checkbox"/>
-F4-50	4" Round Cast Iron Funnel <input type="checkbox"/>
-F4-1	4" Round Nickel Bronze Funnel <input type="checkbox"/>
-F6-1	6" Round Nickel Bronze Funnel <input type="checkbox"/>
-G-50	4x9" Oval Cast Iron Funnel <input type="checkbox"/>
-G-1	4x9" Oval Nickel Bronze Funnel <input type="checkbox"/>
-Z	Elastomeric Flange <input type="checkbox"/>

Optional Body Material (NH Only)	
Suffix	Description
-60	PVC Body w/Socket Outlet <input type="checkbox"/>
-61	ABS Body w/Socket Outlet <input type="checkbox"/>

Chart A

Str. Dia.	Min.	Max.	Load Rating	Free Area Sq. In.
5"(127)	7/16"(11)	1-5/8"(41)	*MD	8
6"(152)	5/8"(16)	1-7/8"(48)	*MD	9
7"(178)	11/16"(17)	1-3/4"(44)	*MD	12
8"(203)	3/4"(19)	2-1/4"(57)	*MD	18

* The load classifications are in accordance with the American National Standards ASME A112.21.1M ASME Ratings are as follows:
MD - Safe Live Load 2000-4999 lbs.(900-2250kg)
The above categories are given as a guide only. Please consult factory.

Chart B

	Std.	P	60/61
Pipe Size	No Hub	Push On	PVC/ABS
2"(51)	3"(76)	4"(102)	4"(102)
3"(76)	3"(76)	4"(102)	3-3/4"(95)
4"(102)	3"(76)	4"(102)	3-3/4"(95)

Job Name _____ Contractor _____

Job Location _____ Contractor's P.O. No. _____

Engineer _____ Representative _____

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.



CANADA: 5435 North Service Road, Burlington, ON, L7L 5H7 TEL: 905-332-6718 TOLL-FREE: 1-888-208-8927 Website: www.wattsdrainage.ca





The new degree of comfort.™



Professional Classic™ Point-of-Use electric water heaters feature a space-saving design for installation in limited spaces

Efficiency

- Standby watts lose 53
- Single resistored stainless steel heating element to prolong anode rod and tank life

Features

- High efficiency heating element
- Over-temperature protector cuts off power in excess temperature situations
- Automatic thermostat keeps water at desired temperature
- Wall bracket for easy wall mount installations and corrosion resistant 1/4 turn drain valve included with 2.5-gallon model

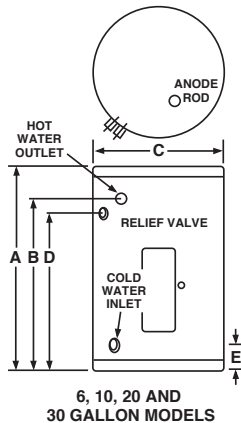
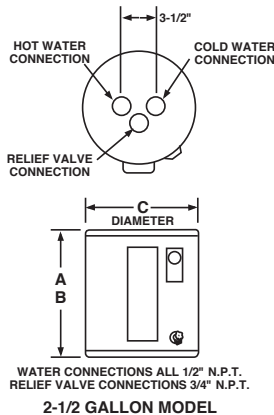
Plus...

- Temperature and pressure relief valve
- Exclusive Rheemglas® tank lining resists corrosion and prolongs tank life
- 2.5 gallon model furnished with a 36 inch power cord.
- Enhanced-flow brass drain valve on 2.5-gallon model
- Low lead compliant

Warranty

- 6-Year limited tank and parts warranty.*

*See Residential Warranty Certificate for complete information



2.5-Gallon



6, 10, 20 and 30-Gallon

Professional Classic
Point-of-Use
2.5, 6, 10, 20 and 30-Gallon Capacities
120 Volt AC
2-Wire Single Phase Electric



MODEL NUMBER	DESCRIPTION			ROUGHING IN DIMENSIONS (SHOWN IN INCHES)						APPROX. SHIP WT.	
	U.S. GAL.	TANK CAPACITY IMP. GAL.	LITRES	HEIGHT A	HEIGHT TO HOT WATER OUTLET B	DIAMETER C	HT. TO SIDE T&P VALVE D	HT. TO COLD WATER INLET E	(LBS.)	KG	
PROE2 1 CN POU	2.5	2	9	14	14	9-3/4	-	-	22	10	
PROE6 1 CN POU	6	5	23	15-1/4	12-1/2	15-3/4	11-1/2	4-1/4	36	16	
PROE10 1 CN POU	10	8.5	39	23	20-1/2	15-3/4	19-1/2	4-1/4	46	21	
PROE20 1 CN POU	20	17	77	25-1/4	22-3/4	19-3/4	21-3/4	5	69	31	
PROE30 1 CN53 POU	30	23	105	30	23	21-3/4	23	2-3/4	91	41	

- **2.5 gallon model:** 1/2" N.P.T. inlet and outlet. Relief valve connection 3/4". Available with 120 AC single phase only, 120v (1440w). Power cord supplied.
 - **6 through 30 gallon models:** 3/4" N.P.T. outlet, inlet, anode rod, T & P valve connections. Not available with 3 phase wiring. Water heaters furnished standard with 120 volt AC, 1500 watt single element. Also available in 240 volt AC, 3000 watt single element. Special wiring options – a limited number of wiring options are available. Consult factory for price and availability.
- CONSTRUCTION DETAILS:** The cold water enters the tank a few inches from the bottom. Both hot and cold water lines may be connected directly to the water heater without special nipples or tees. The relief valve simply screws into the opening provided.

In keeping with its policy of continuous progress and product improvement, Rheem reserves the right to make changes without notice.

Rheem Canada Ltd./Ltée • 125 Edgeware Road, Unit 1
Brampton, Ontario L6Y 0P5 • www.rheem.com



INTEGRATED HOME COMFORT

Expansion Tank

ES-PLT

For Water Heater and Hot Water Storage Tank Applications

Job Name _____

Contractor _____

Job Location _____

Approval _____

Engineer _____

Contractor's P.O. No. _____

Approval _____

Representative _____

Series PLT Potable Water Expansion Tanks

Series PLT Potable Water Expansion Tanks are designed to absorb 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 isolated from the public water supply by a one-way valve, pressure reducing valve, backflow preventer, check valve, etc. 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 ensures 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

- Polypropylene liner
- Rugged flexible butyl diaphragm
- Field adjustable pre-charge
- Can be used with most standard water heaters and storage tanks
- Made in Taiwan

Models

- ✓ PLT-5 – 3/4" male connection, tank volume 2.1 gal.
- PLT-12 – 3/4" male connection, tank volume 4.5 gal.

Specifications

The potable water expansion tank shall be of drawn steel construction and include a rigid polypropylene reservoir liner. It shall have a butyl diaphragm separating the air chamber from the water containing chamber. Inlet connector shall be stainless steel lined. Materials of manufacture for the liner and diaphragm shall be FDA approved. The potable water expansion tank shall be a Watts Regulator Company Series PLT.



PLT-5



PLT-12

Standards



PLT-5 and PLT-12 are Listed by IAPMO.
Certified to ANSI/NSF61.

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.

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.

Contractor: Optimum Mechanical

WATTS®
Job: Enterprise Rent-A-Car,
225 Huntmar Dr.

Expansion Tank




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 PLT series tank, simply go to 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, Watts offers other tank models or multiple tanks may be used. Please contact the factory for sizing information.

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

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

Materials

Diaphragm: Butyl rubber

Wetted Parts: Polypropylene Liner

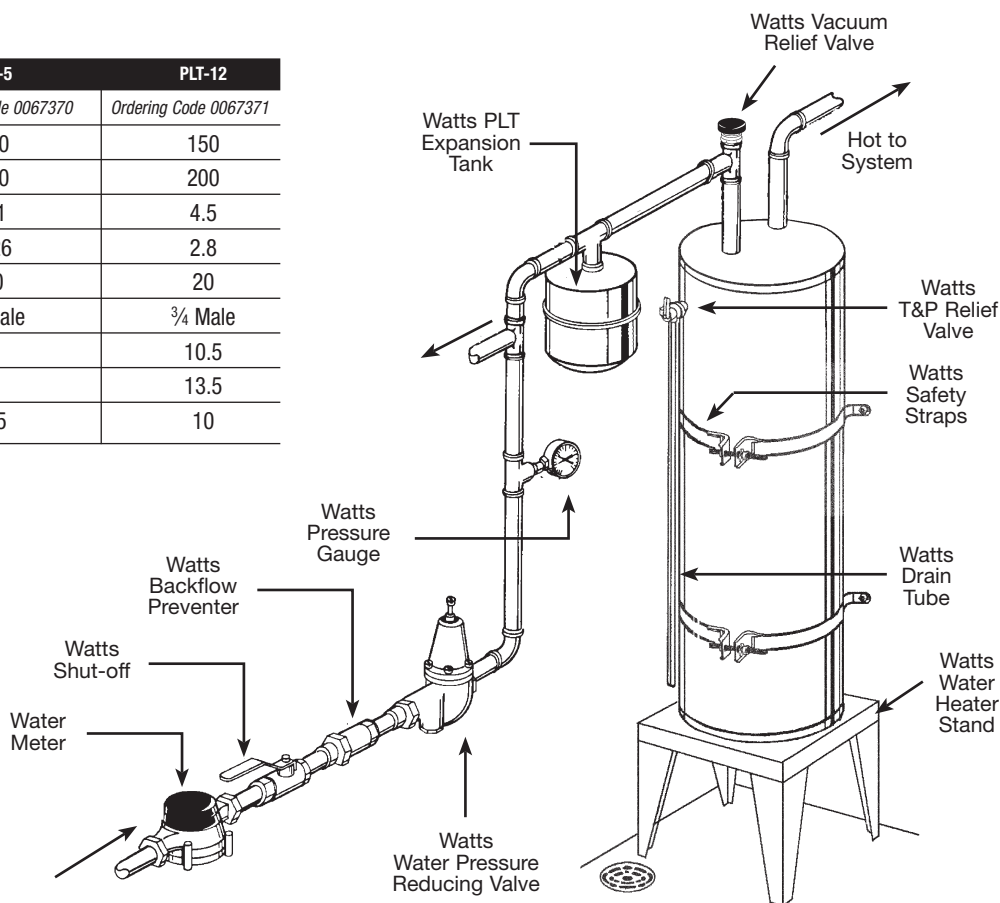
Inlet Connection: Stainless steel lined

Technical Information

DESCRIPTION	PLT-5	PLT-12
	<i>Ordering Code 0067370</i>	<i>Ordering Code 0067371</i>
Max. Pressure - psi	150	150
Max. Temp. - °F	200	200
Tank Volume - Gal.	2.1	4.5
Tank Acceptance - Gal.	1.26	2.8
Air Pre-charge - psi	20	20
Connections Size - Inches	¾ Male	¾ Male
Diameter - Inches	8	10.5
Length - Inches	11	13.5
Weight - lbs.	5.5	10

Acceptance Volume

AIR SIDE PRE-PRESSURE (psi)	WATER SIDE VOLUME AT 150PSI (GALLONS)	
	PLT-5	PLT-12
20	1.48	3.42
40	1.26	2.88
60	1.0	2.49
80	.80	1.85



Water Safety & Flow Control Products



ISO 9001-2000 CERTIFIED

USA: 815 Chestnut St., No. Andover, MA 01845-6098; www.watts.com

Canada: 5435 North Service Rd., Burlington, ONT. L7L 5H7; www.wattscanada.ca

ES-PLT Contractor: Optimum Mechanical

Job: Enterprise Rent-A-Car,
225 Huntmar Dr.

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For Health Hazard Applications

Job Name _____
 Job Location _____
 Engineer _____
 Approval _____

Contractor _____
 Approval _____
 Contractor's P.O. No. _____
 Representative _____

LEAD FREE*

Series LF009 Reduced Pressure Zone Assemblies

Sizes: 1/4" – 3" (8 – 80mm)

Series LF009 Reduced Pressure Zone Assemblies are designed to protect potable water supplies in accordance with national plumbing codes and water authority requirements. This series can be used in a variety of installations, including the prevention of health hazard cross-connections in piping systems or for containment at the service line entrance. The LF009 features Lead Free* construction to comply with Lead Free* installation requirements.

This series features two in-line, independent check valves, captured springs and replaceable check seats with an intermediate relief valve. Its compact modular design facilitates easy maintenance and assembly access. Sizes 1/4" – 1" (8 – 25mm) shutoffs have tee handles.

Features

- Single access cover and modular check construction for ease of maintenance
- Top entry - all internals immediately accessible
- Captured springs for safe maintenance
- Internal relief valve for reduced installation clearances
- Replaceable seats for economical repair
- Lead Free* cast copper silicon alloy body construction for durability 1/4" – 2" (8 – 50mm)
- Fused epoxy coated cast iron body 2 1/2" and 3" (65 and 80mm)
- Ball valve test cocks — screwdriver slotted 1/4" – 2" (8 – 50mm)
- Large body passages provides low pressure drop
- Compact, space saving design
- No special tools required for servicing

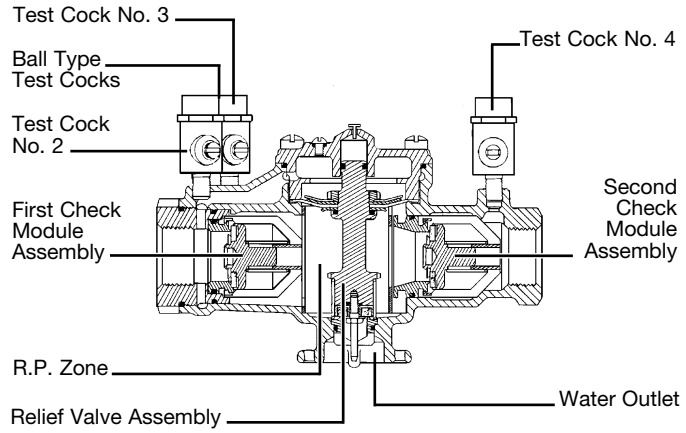
Specifications

A Reduced Pressure Zone Assembly shall be installed at each potential health hazard location to prevent backflow due to backsiphonage and/or backpressure. The assembly shall consist of an internal pressure differential relief valve located in a zone between two positive seating check modules with captured springs and silicone seat discs. Seats and seat discs shall be replaceable in both check modules and the relief valve. There shall be no threads or screws in the waterway exposed to line fluids. Service of all internal components shall be through a single access cover secured with stainless steel bolts. Body and shutoffs shall be constructed using Lead Free* cast copper silicon alloy materials. Lead Free* reduced pressure zone assembly shall comply with state codes and standards, where applicable, requiring reduced lead content.

The assembly shall also include two resilient seated isolation valves, four resilient seated test cocks and an air gap drain fitting. The assembly shall meet the requirements of: USC; ASSE Std. 1013; AWWA Std. C511; CSA B64.4. Shall be a Watts Series LF009.



LF009



Now Available
WattsBox Insulated Enclosures.
 For more information, send for literature ES-WB.

NOTICE
 Inquire with governing authorities for local installation requirements

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.

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

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

Contractor: Optimum Mechanical

WATTS®
 Job: Enterprise Rent-A-Car,
 225 Huntmar Dr.

Backflow

Available Models: 1/4" – 2" (8 – 50mm)

Suffix:

- ✓ QT – quarter-turn ball valves
- S – strainer
- LF – without shutoff valves
- PC – internal polymer coating

Prefix:

- U – union connections

Available Models: 2 1/2" – 3" (65 – 80mm)

Suffix:

- NRS – non-rising stem resilient seated gate valves
- OSY – UL/FM outside stem and yoke resilient seated gate valves
- S-FDA – FDA epoxy coated strainer
- QT-FDA – FDA epoxy coated quarter-turn ball valves
- LF – without shutoff valves

Note: The installation of a drain line is recommended. When installing a drain line, an air gap is necessary (see ES-AG).

Materials: 1/4" – 2" (8 – 50mm)

Lead Free* cast copper silicon alloy body construction, silicone rubber disc material in the first and second check plus the relief valve. Replaceable polymer check seats for first and second checks. Removable stainless steel relief valve seat. Stainless steel cover bolts.

Standardly furnished with NPT body connections.

Model LF009QT furnished with quarter-turn, full port, resilient seated, Lead Free* cast copper silicon alloy body ball valve shutoffs.

Materials: 2 1/2" and 3" (65 – 80mm)

- (FDA approved) Epoxy coated cast iron unibody with plastic seats
- Relief valve with stainless steel seat and trim
- Lead Free cast copper silicon alloy body ball valve test cocks

Pressure / Temperature

Sizes 1/4" – 2" (8 – 50mm) Suitable for supply pressure up to 175psi (12 bar). Water temperature: 33°F – 180°F (0.5° – 75°C).

Sizes 2 1/2" and 3" (65 and 80mm) are suitable for supply pressures up to 175psi (12.1 bar) and water temperature at 110°F (43°C) continuous, 140°F (60°C) intermittent.

Standards

USC
ASSE No. 1013
AWWA C511
CSA B64.4
IAPMO File No. 1563.



Approvals

ASSE, AWWA, CSA, IAPMO

Approved by the Foundation for Cross-Connection Control and Hydraulic Research at the University of Southern California.

Approval models QT, PC, NRS, OSY.

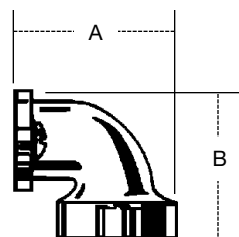
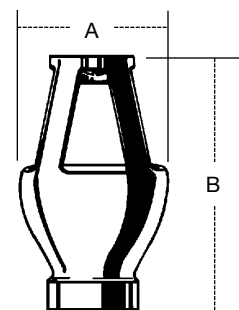
UL Classified

2 1/2" and 3" (65 and 80mm) with OSY gate valves.

3/4" - 2" (20-50mm) without shutoff valves (-LF) (except LF009M3LF)

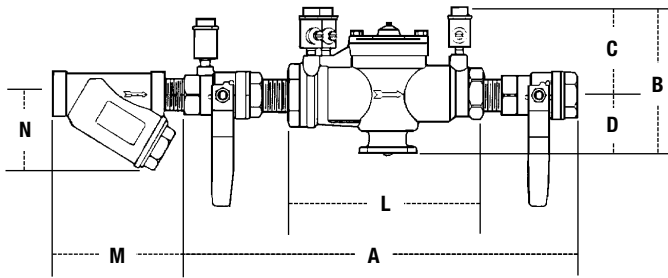
Air Gaps and Elbows

MODEL	DRAIN OUTLET	DIMENSIONS				WEIGHT			
		for 909, 009 and 993 sizes		A		B		lbs.	kgs.
		in.	mm	in.	mm	in.	mm		
909AGA	1/4"-1/2" 009, 3/4" 009M2/M3	1/2	13	2 3/8	60	3 1/8	79	0.625	0.28
909AGC	3/4"-1" 009/909, 1"-1 1/2" 009M2	1	25	3 1/4	83	4 7/8	124	1.5	0.68
909AGF	1 1/4"-2" 009M1, 1 1/4"-3" 009/909, 2" 009M2, 4"-6" 993	2	51	4 3/8	111	6 3/4	171	3.25	1.47
909AGK	4"-6" 909, 8"-10" 909M1	3	76	6 3/8	162	9 3/8	244	6.25	2.83
909AGM	8"-10" 909	4	102	7 3/8	187	11 1/4	286	15.5	7.03
909ELA	1/4"-1/2" 009, 3/4" 009M2/M3	-	-	-	-	-	-	-	-
909ELC	3/4"-1" 009/909	-	-	2 3/8	60	2 3/8	60	0.38	0.17
* 909ELF	1 1/4"-2" 009M1, 1 1/4"-2" 009/909, 2" 009M2, 4"-6" 993	-	-	3 3/8	92	3 3/8	92	2	0.91
* 909ELH Vertical	2 1/2"-3" 009/909	-	-	-	-	-	-	-	-



Backflow

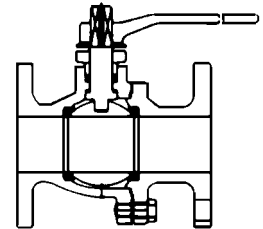
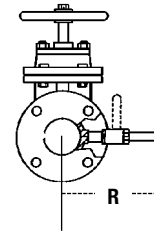
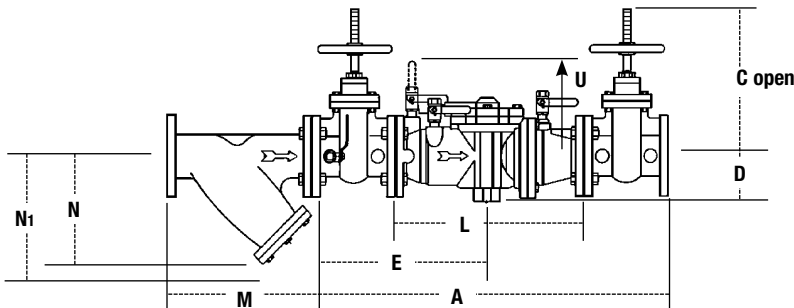
Dimensions and Weight: 1/4" – 2" (8 – 50mm) LF009



LF009 1/4" – 2"

SIZE (DN)		DIMENSIONS (APPROX.)										WEIGHT					
in.	mm	A		B		C		D		L		M		N		lbs.	kgs.
		in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm		
1/4	8	10	250	4 5/8	117	3 3/8	86	1 1/4	32	5 1/2	140	2 3/8	60	2 1/2	64	5	2
3/8	10	10	250	4 5/8	117	3 3/8	86	1 1/4	32	5 1/2	140	2 3/8	60	2 1/2	64	5	2
1/2	15	10	250	4 5/8	117	3 3/8	86	1 1/4	32	5 1/2	140	2 3/8	70	2 1/4	57	5	2
3/4	20	10 3/4	273	5	127	3 1/2	89	1 1/2	38	6 3/4	171	3 3/16	81	2 3/4	70	6	3
1	25	14 1/2	368	5 1/2	140	3	76	2 1/2	64	9 1/2	241	3 3/4	95	3	76	12	5
1 1/4	32	17 3/8	441	6	150	3 1/2	89	2 1/2	64	11 3/8	289	4 7/16	113	3 1/2	89	15	6
1 1/2	40	17 7/8	454	6	150	3 1/2	89	2 1/2	64	11 1/8	283	4 7/8	124	4	102	16	7
2	50	21 3/8	543	7 3/4	197	4 1/2	114	3 1/4	83	13 1/2	343	5 5/16	151	5	127	30	13

Dimensions and Weight: 2 1/2" and 3" (65 and 80mm) LF009



Watts G-4000 Series
QT – Ball Valves

STRAINER SIZE		DIMENSIONS (APPROX.)					WEIGHT		
in.	mm	M		N		N1†		lbs.	kgs.
		in.	mm	in.	mm	in.	mm		
2 1/2	65	10	254	6 1/2	165	9 3/4	248	28	12.7
3	80	10 1/8	257	7	178	10	254	34	15.4

†Clearance for servicing

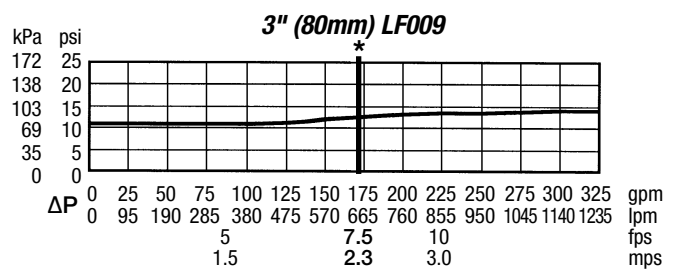
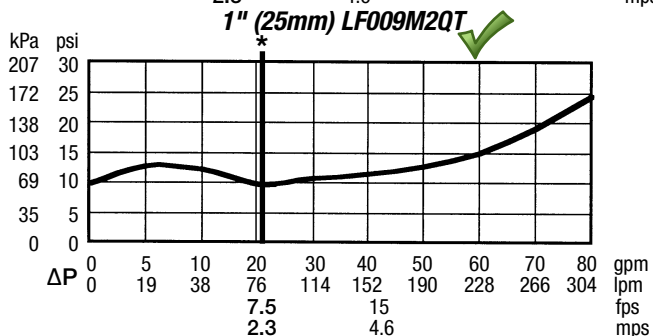
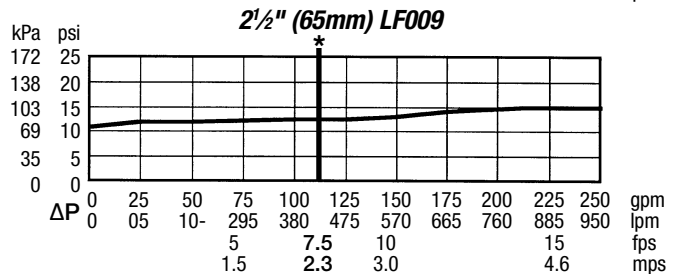
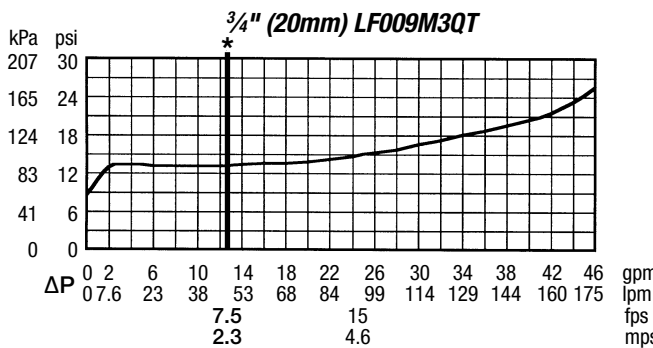
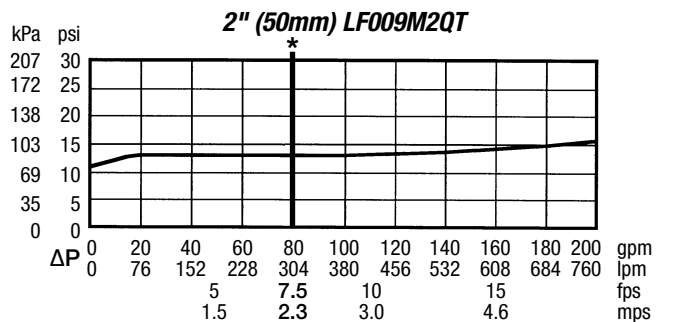
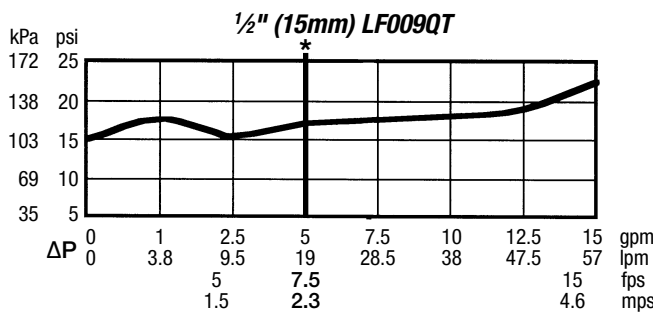
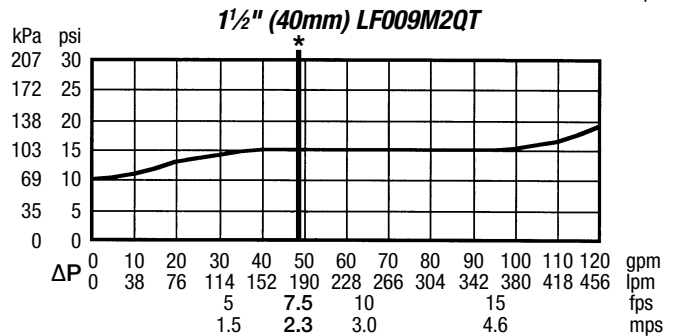
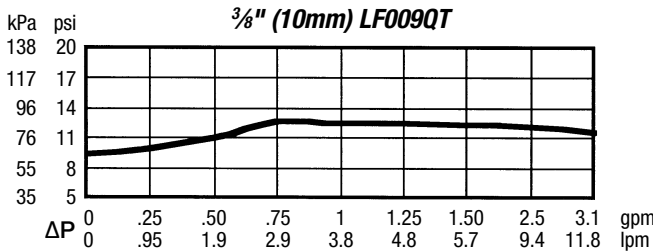
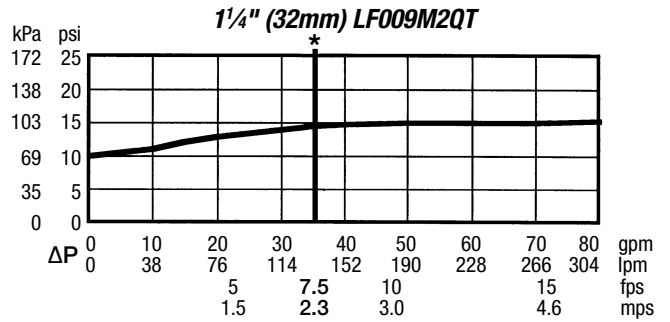
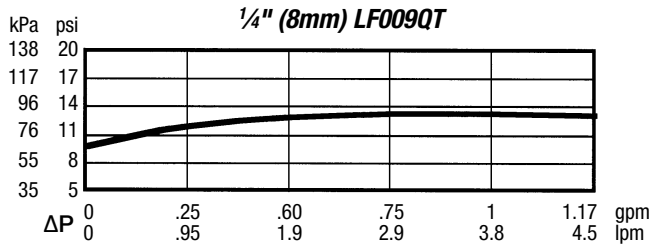
MODEL	SIZE DN		DIMENSIONS (APPROX.)										WEIGHT					
	in.	mm	A		C		D		E		L		R		U		lbs.	kgs.
			in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm		
LF009LF	2 1/2	65	—	—	—	—	4 1/2	114	—	—	18 1/8	460	—	—	10 5/8	270	76	34.5
LF0090SY	2 1/2	65	33 1/4	845	15 3/8	403	4 1/2	114	16 3/8	416	18 1/8	460	7 3/4	197	10 5/8	270	166	75.3
LF009NRS	2 1/2	65	33 1/4	845	11 3/8	289	4 1/2	114	16 3/8	416	18 1/8	460	7 3/4	197	10 5/8	270	161	73.0
LF009QTFDA	2 1/2	65	33 1/4	845	6	152	4 1/2	114	16 3/8	416	18 1/8	460	7 3/4	197	10 5/8	270	150	68.0
LF009LF	3	80	—	—	—	—	4 1/2	114	—	—	18 1/8	460	—	—	10 5/8	270	76	34.5
LF0090SY	3	80	34 1/4	870	18 1/2	470	4 1/2	114	16 3/8	422	18 1/8	460	8 3/4	222	10 5/8	270	198	89.8
LF009NRS	3	80	34 1/4	870	12 3/4	324	4 1/2	114	16 3/8	422	18 1/8	460	8 3/4	222	10 5/8	270	191	86.6
LF009QTFDA	3	80	34 1/4	870	7	178	4 1/2	114	16 3/8	422	18 1/8	460	8 3/4	222	10 5/8	270	158	71.7

Backflow

Capacity

Performance as established by an independent testing laboratory.

*Typical maximum system flow rate (7.5 feet/sec., 2.3 meters/sec.)



A Watts Water Technologies Company



ISO 9001-2008 CERTIFIED

USA: Tel: (978) 688-1811 • Fax: (978) 794-1848 • www.watts.com
 Canada: Tel: (905) 332-4090 • Fax: (905) 332-7068 • www.watts.ca

Cleanout



CO-200-R ✓

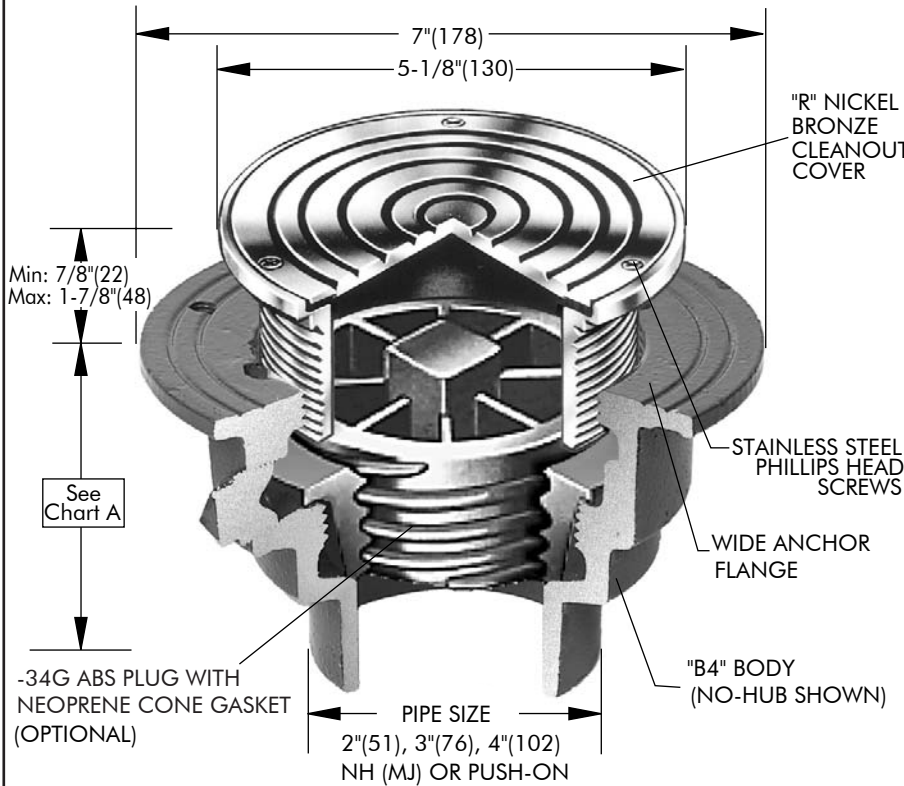
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Floor Cleanout with Round Top

Components:



SPECIFICATION: Watts Drainage Products CO-200-R epoxy coated cast iron floor cleanout with 5-1/8"(130) round adjustable nickel bronze (standard) top and no hub (MJ) connection.



Order Code: **CO-20** - - -

Ex. CO-202-R-1-6

Pipe Sizing (Select One)	
Suffix	Description
2	2"(51) Pipe Size <input type="checkbox"/>
3	3"(76) Pipe Size <input checked="" type="checkbox"/>
4	4"(102) Pipe Size <input checked="" type="checkbox"/>

Outlet Type (Select One)	
Suffix	Description
NH	No Hub (MJ) <input checked="" type="checkbox"/>
P	Push On <input type="checkbox"/>

Cover (Select One)	
Suffix	Description
R-1	5"(127) Diameter, Nickel Bronze <input checked="" type="checkbox"/>
R-3	5"(127) Diameter, Stainless Steel <input type="checkbox"/>

Options (Select One or More)	
Suffix	Description
-6	Vandal Proof <input type="checkbox"/>
-13	Galvanized Body <input type="checkbox"/>
-15	Strainer Extension (DD-50) <input type="checkbox"/>
-34G	ABS plug with Neoprene gasket <input type="checkbox"/>
-113M	Special Epoxy from 3M Range <input type="checkbox"/>
-C	Membrane Clamp <input type="checkbox"/>
-Z	Elastomeric Flange <input type="checkbox"/>

Optional Body Material (NH Only)	
Suffix	Description
-60	PVC Body w/Socket Outlet <input type="checkbox"/>
-61	ABS Body w/Socket Outlet <input type="checkbox"/>

Chart A

	Std.	P	60/61
Pipe Size	No Hub	Push On	PVC/ABS
2"(51)	3"(76)	4"(102)	4"(102)
3"(76)	3"(76)	4"(102)	3-3/4"(95)
4"(102)	3"(76)	4"(102)	3-3/4"(95)

Load Rating

Suffix	Load Rating
R-1	*HD
R-3	*HD

* The load classifications are in accordance with the American National Standards ASME A112.21.1M ASME Ratings are as follows:
 HD - Safe Live Load 5000-7499 lbs.(2250-3375kg)
 The above categories are given as a guide only. Please consult factory.

Job Name _____ Contractor _____

Job Location _____ Contractor's P.O. No. _____

Engineer _____ Representative _____

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.



CANADA: 5435 North Service Road, Burlington, ON, L7L 5H7 TEL: 905-332-6718 TOLL-FREE: 1-888-208-8927 Website: www.wattsdrainage.ca



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ES-WD-CO-200-R CANADA 0403

(Dimension) Denotes Millimeters

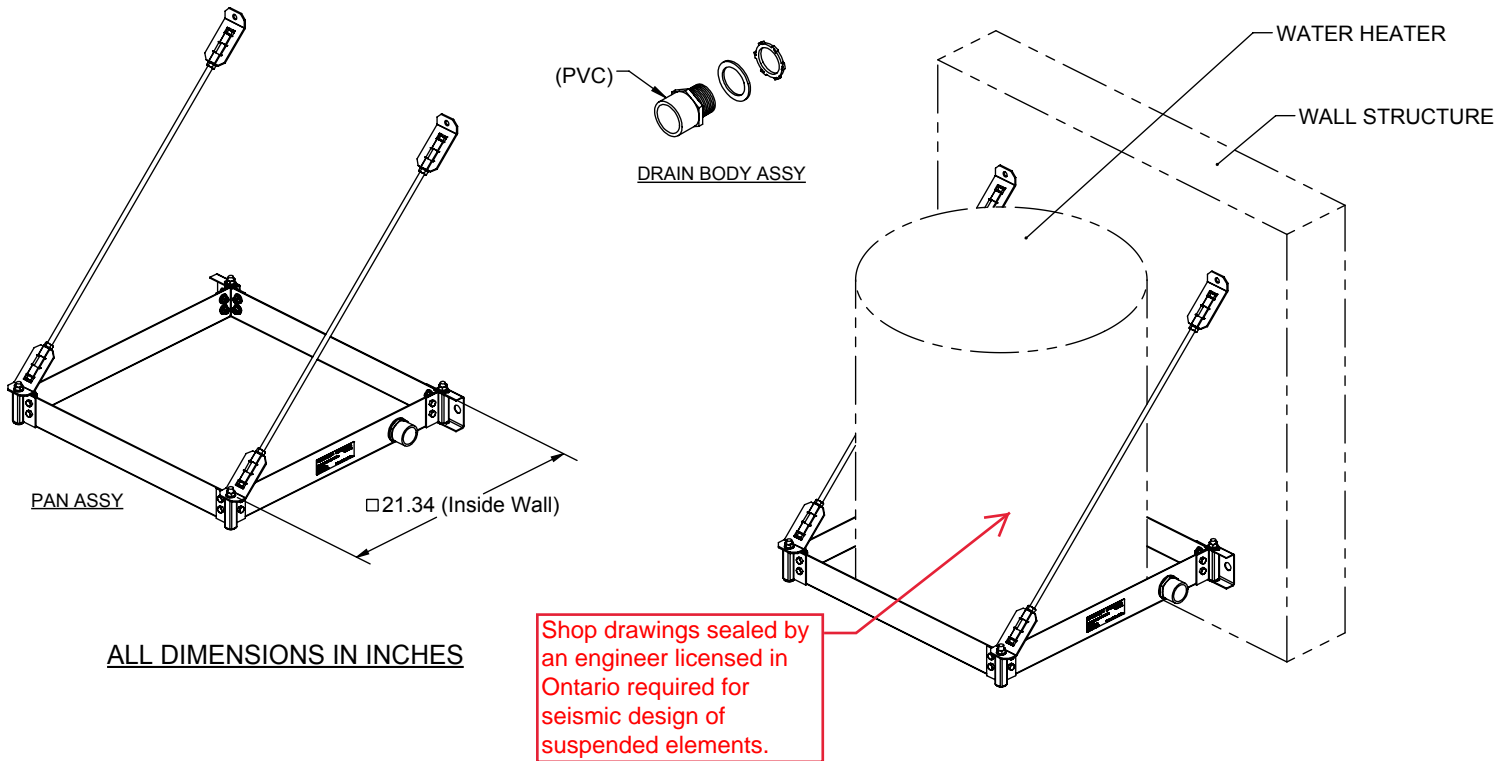
Contractor: Optimum Mechanical

Job: Enterprise Rent-A-Car,
225 Huntmar Dr.

HWT Support PRODUCT SPECIFICATION DRAWING

QUICK STAND™ #40-SWHP-W

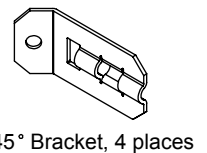
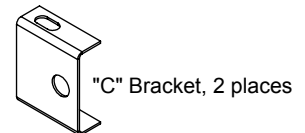
Wall Mounted Equipment Platform



The Wall Mounted Equipment Platform is engineered to support water heaters up to 20 U.S. gallons (or other equipment up to 375 pounds total weight) mounted to a wall. This item also serves as a drain pan. See Installation Instructions for detail.

Product Information:

- Material:
 - Pan: 14 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 29-3/4" long
- Wide platform allows water heaters up to 21-1/4" diameter
- Watertight corners and drain fittings eliminate need for additional drain pan
- Static load rating 375 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



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