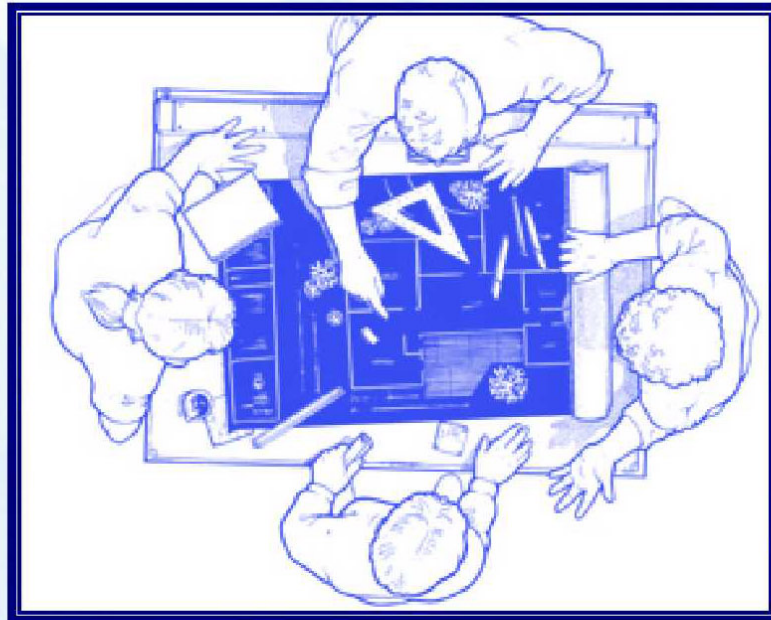


Plumbing Submittal



S180890312

PROGRESS VENTURES

Submitted by

PLUMBING & MECHANICAL OF CHAPEL HILL

7/20/2026

HAJOCA COMMERCIAL

3400 YONKERS RD
RALEIGH, NC 27604
Phone: 919 212-4900
Fax: 484 652-2370
www.hajocacommercial.com

Spec#

Table of Contents

1		. *****CLOSET***** *
2	5245247	KOHLER 44199-0 HIGHLINE COMFORT HEIGHT R360 EB BOWL
3	5244041	KOHLER 44467-0 HIGHLINE R360 1.28 GPF TANK
4	2968075	MAINLINE ML1055SSC000 WHT ELONG PLAS OPEN FRONT TOILET SEAT W/ SELF-SUSTAINING CHECK HINGE & SS HARDWARE L/ COVER
5		. *****LAV***** *
6	308685	KOHLER 2005-0 KINGSTON WHT 21 1/4 X 18 1/8 X 5IN VC 3H 4 IN. CENTERSET WM COM LAV SINK
7	2800442	TSBRASS B-2711-VF05 POL CHROME 0.5 GPM 2H 4 IN. CENTERSET DM SGL LEVER HDL MANUAL FCT
8	2370635	MAINLINE ML10294 1-1/4 BR 17GA GRID SINK DRAIN CP 1042L
9	2370712	MAINLINE ML10362 1-1/2 17GA TUBE P-TRAP W/ CLEANOUT CP 105CO
10	4473480	CALEFFI 521201AP SINKMIXER 4-WAY MIXING VALVE ANTI-SCALD VALVE 3/8 IN COMPRESSION ASSE 1070 FITTING PKG
11	2519980	MAINLINE ML102EZ WHT LAV-GUARD TRAP & SUPPLY COVER F/ TUBULAR P-TRAP 2-ANGLE STOP & 2-SUPPLY ADA APPROVED
12		. *****RPZ***** **
13	4805573	WILKINS 1-975XL3 1IN 975XL3 RP BALL VLVS NPT TOP ACCESS LEAD FREE
14	2595133	WILKINS SXL 1 FIPXFIP BRONZE 300PSI STR W/ 20 MESH SCREEN & PLUG LEAD FREE
15	312823	WILKINS AG-8 1/4 - 1/2 DI AIR GAP F/ 975XL, 975XL2 (1/2IN.-1IN. 975XL3)

Disclaimer:

The specification sheets provided herein were written and provided by the product's manufacturer and not by Hajoca Corporation. Consequently, Hajoca Corporation cannot assume and disclaims any responsibility for errors, omissions or any misstatements in the product specifications provided herein.

Spec#

Table of Contents

16		. *****MISC***** **
17	4571448	EVERFLOW PFW-W3420 PEX TUBING - POTABLE WATER WHITE 3/4 IN X 20 FT6.1M
18	4559970	EVERFLOW B-PPTE0034 3/4X3/4X3/4 PLAS CRIMP TEE
19	4133286	EVERFLOW EPCR0034 3/4 COP FTG CRIMP RING
20	998255	CHAR 7200-2X20 PVC40 2IN PE SOLID PIPE

Disclaimer:

The specification sheets provided herein were written and provided by the product's manufacturer and not by Hajoca Corporation. Consequently, Hajoca Corporation cannot assume and disclaims any responsibility for errors, omissions or any misstatements in the product specifications provided herein.

*****CLOSET*****
*



Highline®

Elongated toilet bowl
K-44199

Features

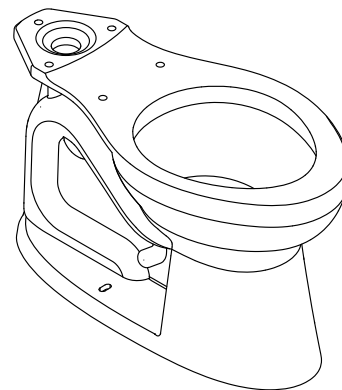
- Elongated bowl offers added room and comfort
- Comfort Height® feature offers chair-height seating that makes sitting down and standing up easier for most adults
- 2" (51 mm) fully glazed trapway
- Revolution 360® flushing technology generates a forceful swirling motion to keep the bowl clean longer
- Weighs less than previous Highline models
- Combines with a K-44470, K-44468, or K-44467 tank
- Replaces Highline® K-4199 bowl

Installation

- Standard 12" (305 mm) rough-in

Recommended Products/Accessories

K-44467 Toilet tank, 1.28 gpf
 K-44467-RA Toilet tank, 1.28 gpf
 K-44467-U Toilet tank, 1.28 gpf
 K-44467-UR Toilet tank, 1.28 gpf
 K-23726 Drain treatment



Codes/Standards

ASME A112.19.2/CSA B45.1
 NOM Standards
 NOM 002-CONAGUA

KOHLER® Toilets and Seats Limited Warranty

See website for detailed warranty information.

Available Colors/Finishes

Color tiles intended for reference only.

Color	Code	Description
	0	White
	96	Biscuit
	7	Black Black™



Highline®
Elongated toilet bowl
K-44199

5245247

No image available.
This product is a component and not intended to be a standalone installation.

Technical Information

All product dimensions are nominal.

Toilet type:	Floor-mount
Waste Outlet:	Floor
Flush type:	Revolution 360
Trap passageway:	2-1/8" (54 mm)
Water surface size:	8" x 8" (203 mm x 203 mm)
Rim to water surface:	6-9/16" (166 mm)
Rough-in:	12" (305 mm)
Seat-mounting holes:	5-1/2" (140 mm)

Notes

Install this product according to the installation instructions.

Product dimensions are nominal and may vary per ASME A112.19.2 tolerances.



Highline®
Toilet tank, 1.28 gpf
K-44467

Features

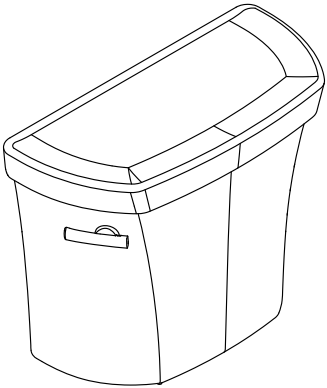
- 1.28 gpf (4.8 lpf)
- Left-hand Polished Chrome trip lever
- Combines with a K-44198, K-44197, K-44373, or K-44199 bowl
- Revolution 360® flushing technology generates a forceful swirling motion to keep the bowl clean longer
- AquaPiston® canister optimizes the flow out of the tank, harnessing gravity and the natural, powerful reducing cascade of water to increase the power and effectiveness of the flush
- Easy-to-flush canister design requires less force to actuate than a 3" (76 mm) flapper, and has 90% less exposed seal material which resists conditions that cause wear, tear, shrinkage and swelling
- Replaces Highline® K-4467 tank

Installation

- Standard 12" (305 mm) rough-in

Recommended Products/Accessories

- K-44199 Elongated toilet bowl
- K-23726 Drain treatment



Codes/Standards

ASME A112.19.2/CSA B45.1

KOHLER® Toilets and Seats Limited Warranty

See website for detailed warranty information.

Available Colors/Finishes

Color tiles intended for reference only.

Color	Code	Description
	0	White
	96	Biscuit
	7	Black Black™



5244041



Highline®
Toilet tank, 1.28 gpf
K-44467

No image available.

This product is a component and not intended to be a standalone installation.

Technical Information

All product dimensions are nominal.

Toilet type:	Bowl-mount
Flush type:	AquaPiston, Revolution 360
Trap passageway:	2-1/8" (54 mm)
Rim to water surface:	6-9/16" (166 mm)
Rough-in:	12" (305 mm)

Notes

Install this product according to the installation instructions.

Product dimensions are nominal and may vary per ASME A112.19.2 tolerances.



Plastic Commercial Elongated Toilet Seat

Product Specifications

Description

Open front less cover, elongated, heavy-duty, injection molded solid plastic toilet seat. Features two molded-in bumpers, non-self-sustaining (1055), or self-sustaining (1055SSC), check hinges with non-corrosive 300 Series stainless steel posts, pintles and hardware. This seat complies with American National Standard Z124.5 Toilet (Water Closet) Seats as a class Commercial Heavy Duty.

Model: ML1055 / ML1055SSC ←

Specifications	
Size:	Elongated
Weight:	2.9 lbs
Color:	White (000) ←
Material:	Plastic
Style:	Open Front less Cover
Bumpers:	Two
Hinges:	Plastic Non-Self-Sustaining (1055), or Self-Sustaining (1055SSC), with 300 Series Stainless Steel Posts and Pintles
Fastening System:	Non-Corrosive 300 Series Stainless Steel Hardware



2968075

ML1055

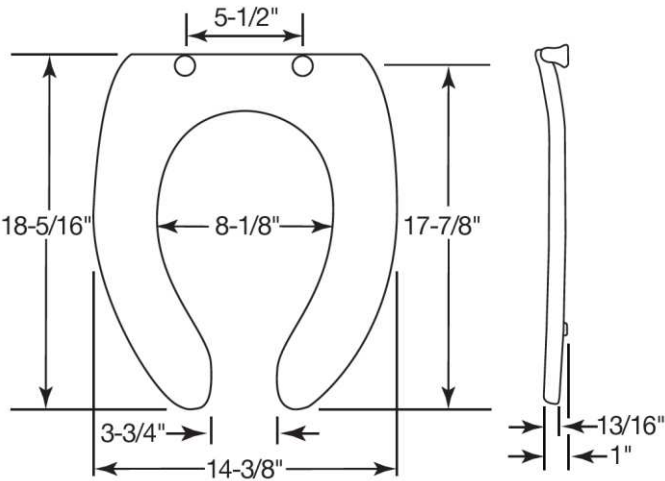


PLASTIC HINGES WITH
STAINLESS STEEL POSTS
AND PINTLES

ML1055SSC ←



NON-CORROSIVE
STAINLESS STEEL
HARDWARE



Warranty

See warranty information for more details.

All dimensions listed are nominal. MAINLINE® reserves the right to make product and material changes at any time without notice.

Contact your sales representative for more information or visit our website at mainlinecollection.com

*****LAV*****
.
*



Kingston™
Wall-Mount Bathroom Sink
K-2005

Features

- Made from premium materials that withstand high-volume usage
- 21-1/4" (540 mm) x 18-1/8" (460 mm)
- Faucet sold separately
- Includes wall hanger

Material

- Vitreous china

Installation

- Wall-mount
- Drilled for concealed arm carrier installation

Recommended Products/Accessories

K-8998 P-Trap
K-23725 Cast iron cleaner



ADA **CSA B651**

Codes/Standards

ASME A112.19.2/CSA B45.1
ADA
ICC/ANSI A117.1
CSA B651

KOHLER® Vitreous China Bathroom Sink Lifetime Limited Warranty

See website for detailed warranty information.

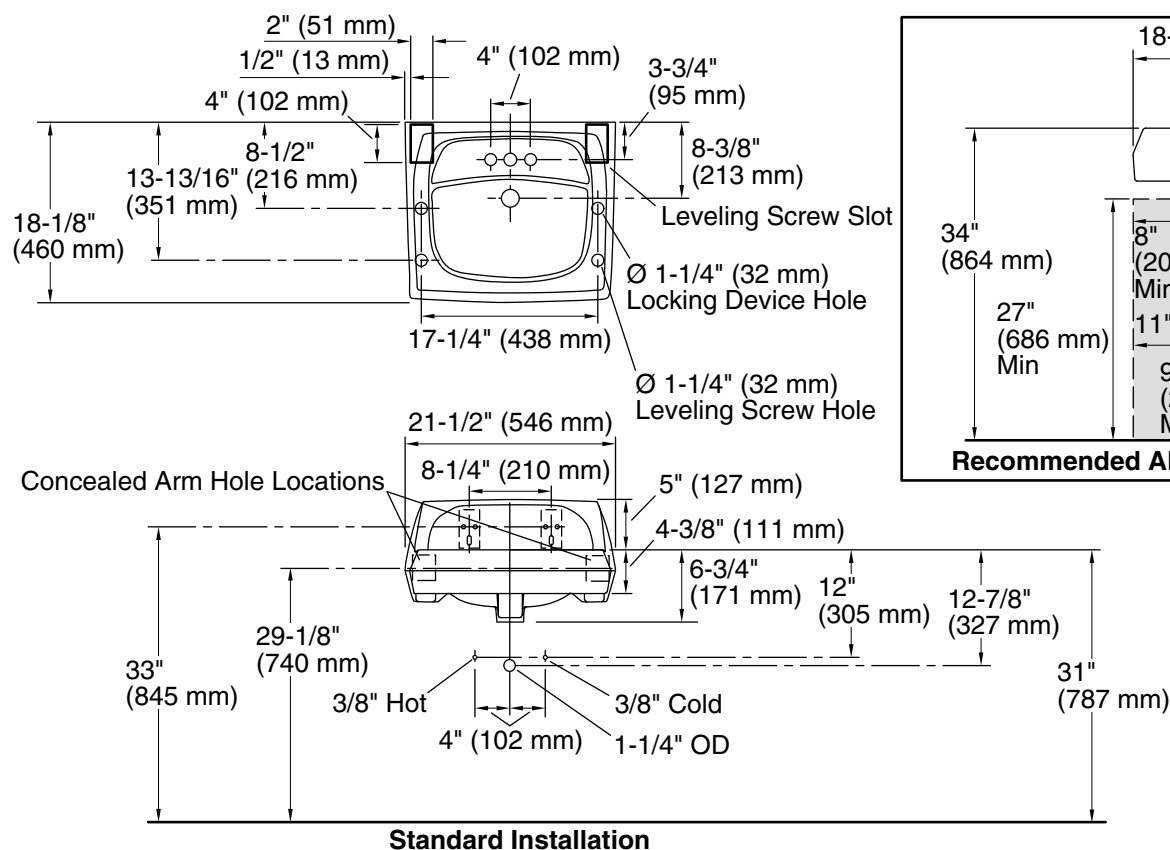
Available Colors/Finishes

Color tiles intended for reference only.

Color	Code	Description
	0	White
	96	Biscuit
	7	Black Black™



308685

KOHLER®
Kingston™
 Wall-Mount Bathroom Sink
K-2005
**Technical Information**

All product dimensions are nominal.

Basin configuration: Single Bowl

Center(s): 4" (102 mm)

Bowl area (Basin #1):

- Length: 16" (406 mm)
- Width: 10" (254 mm)
- Water depth: 3-1/8" (79 mm)

With overflow: Yes

Number of deck holes: 3

Faucet hole(s): 1-1/4" (32 mm)

Drain hole: 1-3/4" (44 mm)

Notes

Install this product according to the installation instructions.

Product dimensions are nominal and may vary per ASME A112.19.2 tolerances.

ADA, CSA B651 compliant when installed to the specific requirements of these regulations.


T&S BRASS AND BRONZE WORKS, INC.

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

Model No.

B-2711-VF05

Item No.

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

**ADA Compliant**

This Space for Architect/Engineer Approval

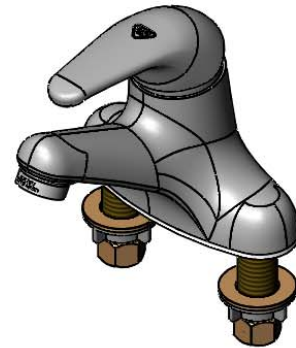
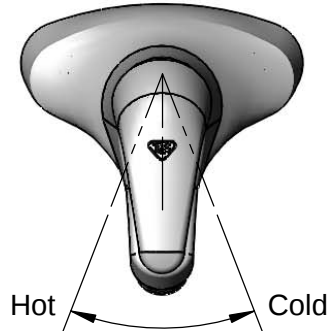
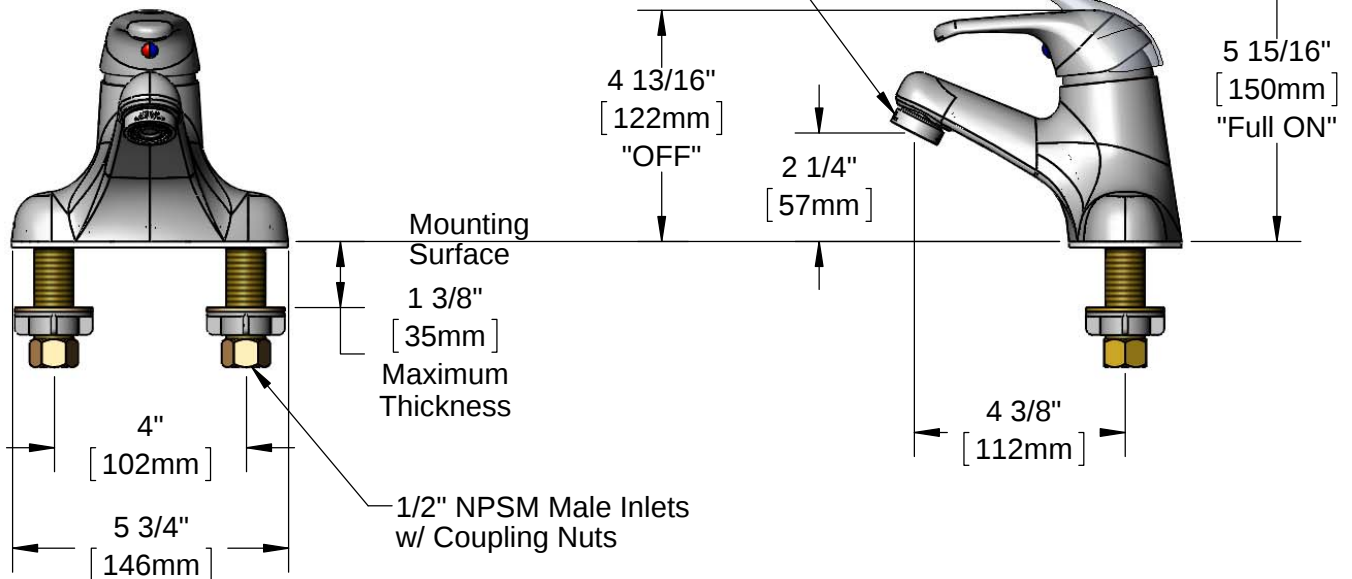
Job Name _____ Date _____

Model Specified _____ Quantity _____

Customer/Wholesaler _____

Contractor _____

Architect/Engineer _____


 B-0199-09-N05
 0.5 GPM Vandal Resistant
 Non-Aerated Spray Device

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

Product Specifications:

 4" Deck Mount Single Lever Faucet, Ceramic Cartridge, Temperature
 Limit Stop, 0.5 GPM VR Non-Aerated Spray Device & 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)


T&S BRASS AND BRONZE WORKS, INC.

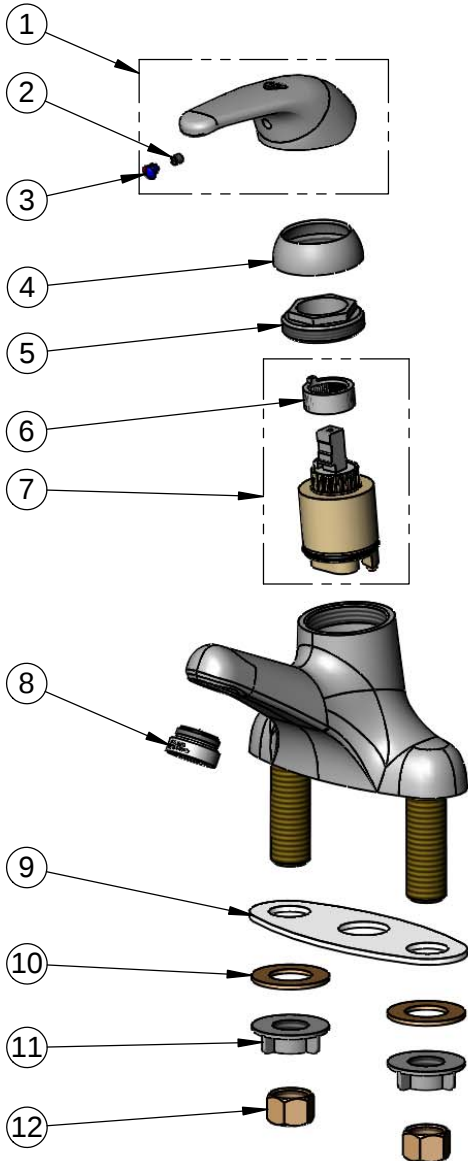
 2 Saddleback Cove / P.O. Box 1088
 Travelers Rest, SC 29690

Model No.

B-2711-VF05

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	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	Ceramic Cartridge w/ Temperature Limit Stop
8	B-0199-09-N05	0.5 GPM VR Spray Device, 15/16-27 Male w/ Key
9	014167-45	Deck Gasket
10	000999-45	Brass Lock Washer
11	016673-45	Shank Nut
12	000958-20	Coupling Nut


 015425-45
 Vandal Resistant Key

Product Specifications:

4" Deck Mount Single Lever Faucet, Ceramic Cartridge, Temperature Limit Stop, 0.5 GPM VR Non-Aerated Spray Device & 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)

PRODUCT GUIDE

Flat Sink Strainer



ML10288 Flat Strainer DC-Nut
ML10289 Flat Strainer BR-Nut

- Stainless Steel Body
- Removable Stainless Steel Grid

Lavatory Drains



ML10293 Brass Pop-Up Sink Drain- CP

- Fully Adjustable Arm

Jr. Sink Drains



ML10290 Junior Duo Sink Strainer DC-Nut

- Brass Body
- Stainless Steel Crumb Cup



ML10294 Brass 17GA Grid Sink Strainer

- Brass Body
- 19 Hole Construction
- 17 Gauge Brass Tailpiece



ML10291 Laundry Tray Plug DC-Nut

- Stainless Steel Body
- Rubber Stopper



ML10295 Brass 17GA ADA Grid Sink Strainer

- Handicapped Grid Strainer features Cast Grid Drain w/ Strainer and offset Drain Assembly
- 17 Gauge Brass Tailpiece



ML10292 Duplex Sink Strainer DC-Nut

- Chrome Plated Brass Body
- Flat Stainless Steel Strainer

All dimensions listed are nominal. MAINLINE® reserves the right to make product and material changes at any time without notice.



For Commercial & Residential Applications

Job Name:	Contractor:
Job Location:	Approval:



Tube S-Trap



Tube P-Trap with clean out



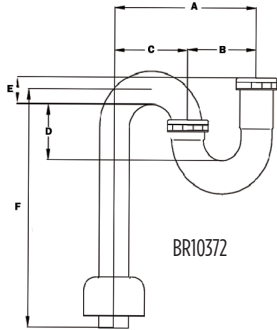
Tube P-Trap less clean out



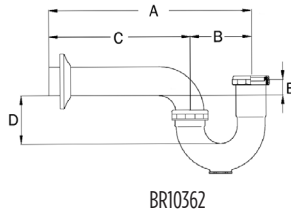
Sink P-Trap



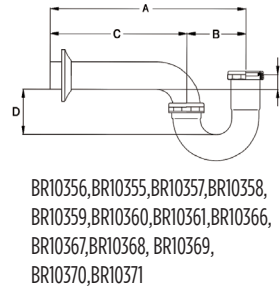
Semi-Cast P-Trap with clean out



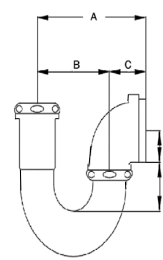
BR10372



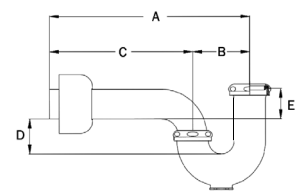
BR10362



BR10356, BR10355, BR10357, BR10358,
BR10359, BR10360, BR10361, BR10366,
BR10367, BR10368, BR10369,
BR10370, BR10371



BR10373, BR10374, BR10375



BR10364, BR10365

✓To Submit	Part No.	Description	Dimensions (inches)					
			A	B	C	D	E	F
	BR10356	1-1/2" 20GA Tube P-Trap CP	10.75	3.25	7.5	2.5	.75	
	BR10355	1-1/2" 22GA Tube P-Trap CP	10.75	3.25	7.5	2.5	.75	
	BR10357	1-1/2" 20GA Tube P-Trap w/Deep Flange CP	10.75	3.25	7.5	2.5	.75	
	BR10358	1-1/2" 17GA Tube P-Trap CP	10.75	3.25	7.5	2.5	.75	
	BR10359	1-1/2" 17GA Tube P-Trap w/Deep Flange CP	10.75	3.25	7.5	2.5	.75	
	BR10360	1-1/2" 17GA G/J Tube P-Trap BR/Nut CP	10.75	3.25	7.5	2.5	.75	
	BR10361	1-1/2" 17GA G/J Tube P-Trap BR/Nut RB	10.75	3.25	7.5	2.5	.75	
→	BR10362	1-1/2" 17GA Tube P-Trap w/Cleanout CP	10.75	3.25	7.5	2.5	.75	
	BR10364	1-1/2" 17GA Semi Cast P-Trap BR/Nut w/Cleanout CP	10.5	3	7.5	2.36	.75	
	BR10365	1-1/4" 17GA Semi Cast P-Trap w/Cleanout CP	10	2.5	7.5	2.3	.625	
	BR10366	1-1/4" 22GA Tube P-Trap CP	10.5	3	7.5	2.5	.625	
	BR10367	1-1/4" 22GA Tube P-Trap w/Deep Flange CP	10.5	3	7.5	2.5	.625	
	BR10368	1-1/4" 20GA Tube P-Trap CP	10.5	3	7.5	2.5	.625	
	BR10369	1-1/4" 20GA Tube P-Trap w/Deep Flange CP	10.5	3	7.5	2.5	.625	
	BR10370	1-1/4" 17GA Tube P-Trap CP	10.5	3	7.5	2.5	.625	
	BR10371	1-1/4" 17GA Tube P-Trap w/Deep Flange CP	10.5	3	7.5	2.5	.625	
	BR10372	1-1/4" 20GA Tube S-Trap w/Deep Flange CP	6	3	3	2.5	1	20.5
	BR10373	1-1/2" 22GA Sink P-Trap CP	4.85	3.25	1.6	1.8	1	
	BR10374	1-1/2" 17GA G/J Sink P-Trap BR/Nut CP	4.85	3.25	1.6	1.8	1	
	BR10375	1-1/2" 17GA G/J Sink P-Trap BR/Nut RB	4.85	3.25	1.6	1.8	1	

Contact your HD Supply sales representative for more information.

5212

01364/22 NA

A brass ball valve with a black handle and a white plastic cap. The valve has multiple threaded ports and a central body with a handle on top. The handle is black and has a white 'L' and 'R' marking. The valve body is brass and has a white plastic cap on the right side. The valve is shown in a three-quarter view.

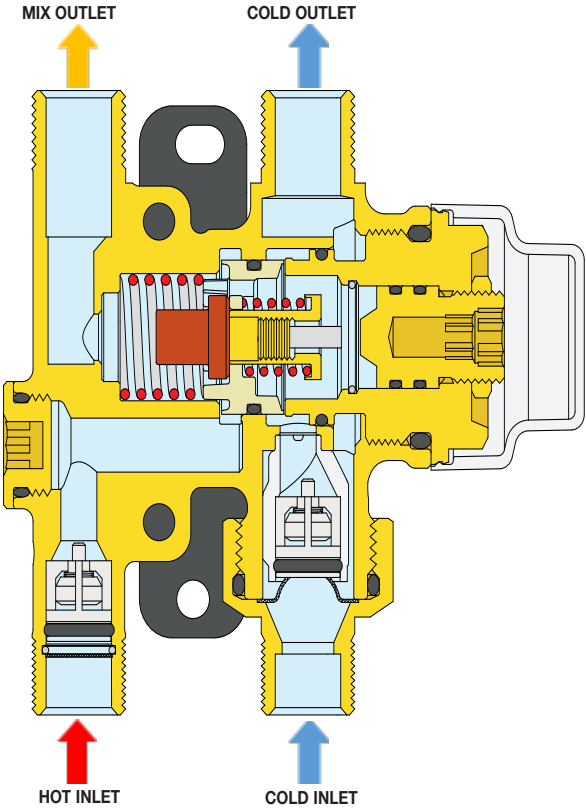


NSF/ANSI/CAN 61

The SinkMixer is used to prevent accidental scalding with the outlet water temperature properly adjusted using a thermometer at the faucet to measure the desired temperature.

Operating principle

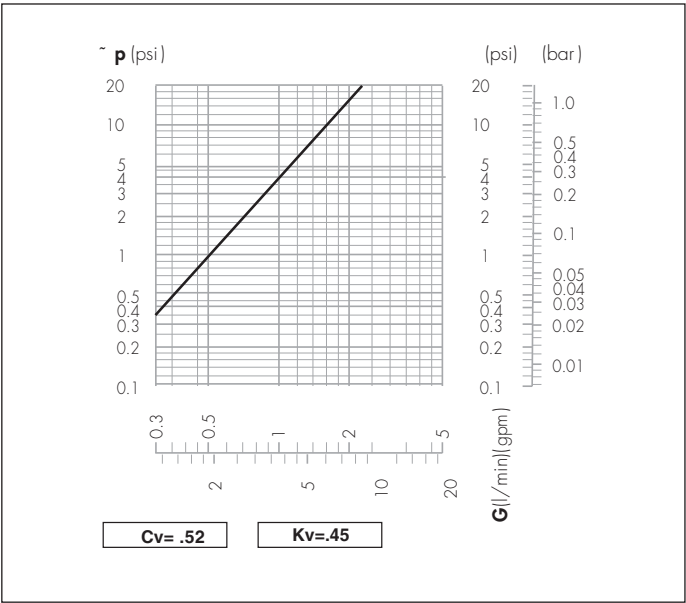
The thermostatic mixing valve mixes hot and cold water in such a way as to maintain constant set temperature of the mixed water at the outlet. A thermostatic element is fully immersed into the mixed water. This element then contracts or expands causing movement of the piston, closing either the hot or cold inlets, regulating the flow rates entering the valve. If there are variations of temperature or pressure at the inlets, the internal element automatically reacts to restore the original temperature setting. In the event of a failure of either the hot or cold supply, the piston will shut off the opposite inlet port, stopping water discharging from the mixed water outlet.



Thermal shutoff

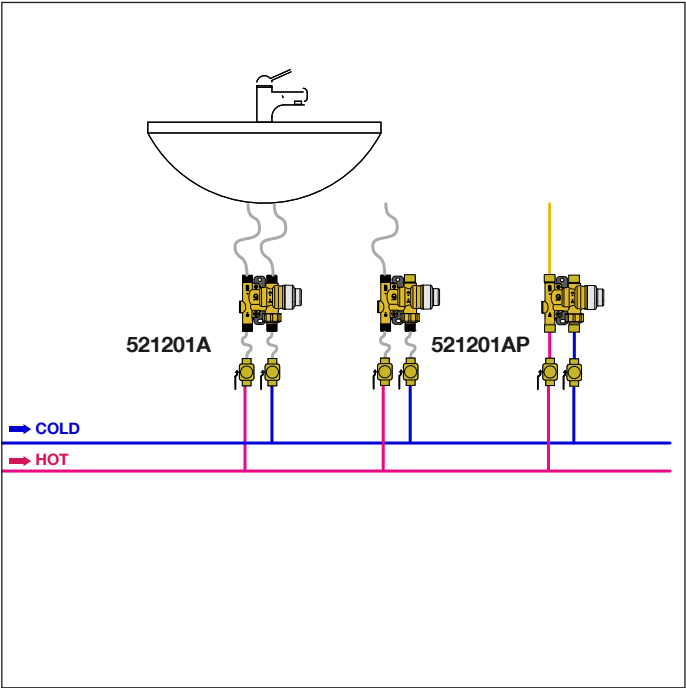
In the event of a failure of the hot supply port, the piston closes the cold supply port. Similarly, if the cold water supply fails, the piston closes the hot supply port. The Caleffi SinkMixer scald protection thermostatic mixing valve requires a minimum temperature differential from hot inlet to mixed water outlet of 18°F (10°C) to ensure the correct operation of the thermal shutoff feature.

Flow curve



Flow should never exceed standards for pipe size

Application diagram



4473480

Installation

The following instructions must be read prior to the installation of a Caleffi 521201A SinkMixer thermostatic mixing valve. The installer should also be aware of his responsibility and duty of care to ensure that all aspects of the installation comply with current regulations and legislation. The Caleffi 521201A should be installed using the appropriate standard, code of practice and legislation applicable to each state and following the details in this manual. The Caleffi 521201A series must be installed by a licensed plumber.

Prior to the installation of the Caleffi 521201A valve, the system must be checked to ensure that the system operating conditions fall within the recommended operating range of the valve, i.e. verify supply temperatures, supply pressures, risk assessments, etc.

The supply system into which the Caleffi 521201A is to be installed must be thoroughly flushed and cleaned to remove any debris which may accumulate during the installation. Failure to remove any debris will affect the performance and the manufacturer's warranty on the product. In areas that are subject to high levels of aggressive water, provision must be made to treat the water prior to it entering the valve.

The valve is recommended to be installed in a position oriented with the cover to the right with cold inlet/outlet on the right side (allowing direct connection to the sink's cold water inlet fitting) resulting in the hot inlet/mix outlet on the left aligning direct to the hot water inlet sink fitting. It is essential that the access to the valve is not obstructed for future maintenance that may be required to the valve or associated fittings.

It is essential that when the installation is designed and/or installed, all current legislation is noted, e.g. the maximum distance from the outlet of the valve to any terminal fitting.

The connecting hot and cold water supplies must be connected to the valve strictly in accordance with the indications on the body of the valve. The inlets of the valves are clearly marked with the letter H (Hot) and C (Cold). The outlet is marked with the word MIX. The valve has male 3/8" compression threads for connection to standard 3/8" compression faucet connectors and stops.

Where one or both the incoming supply pressures are excessive, a Caleffi pressure reducing valve should be installed to reduce the pressure(s) within the limits.

The Caleffi 521201A valve is supplied complete with the check valves at the hot and cold inlets.

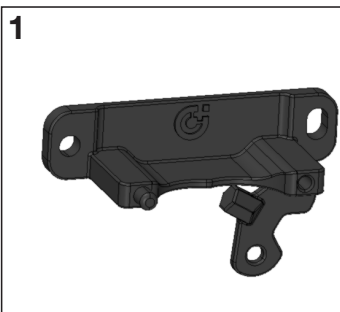
Mount the 521201A valve to the wall underneath the sink with black plastic mounting bracket supplied with valve but not attached. Use mounting screw to attach the mounting bracket to the valve to meet the orientation described above. Break off the adjustment key for adjusting the temperature, see commissioning section.

To ensure that the performance of the Caleffi 521201A valve is maintained (in the event of cold water failure), the temperature of the hot water supply at the point of entry to the valve must be a minimum of 18°F higher than the set mixed water discharge temperature.

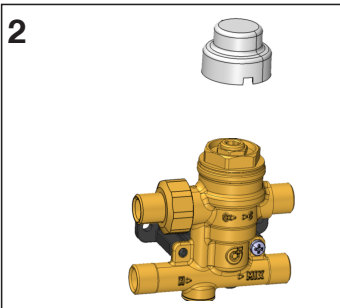
If the valve is not installed correctly, it will not function correctly and may put the user in danger.

For single-pipe fixtures (tempered water only), code 521201AP comes complete with a plug/nut for the valve cold outlet port. Code NA10741 is a 5-pack of plugs/nuts to plug cold outlet port when installing code 521201A (unit coming without this plug/nut) in single pipe fixture undersink piping. Code 521201AP also includes a copper compression fittings kit for hard pipe installations.

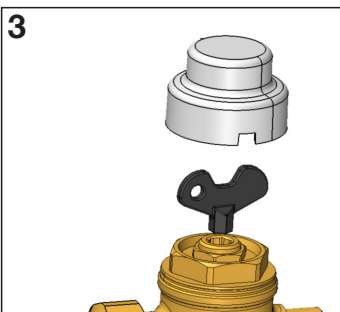
Temperature adjustment



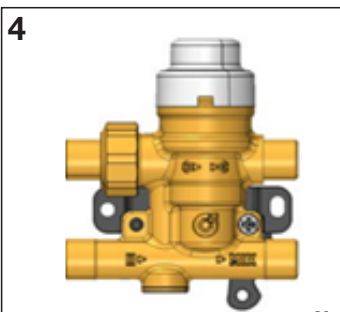
Remove 1/4" hex key from mounting bracket.



Remove white cap.

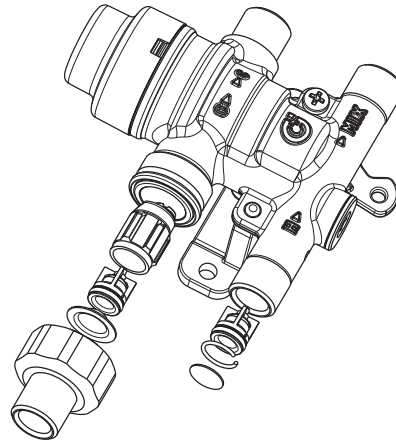
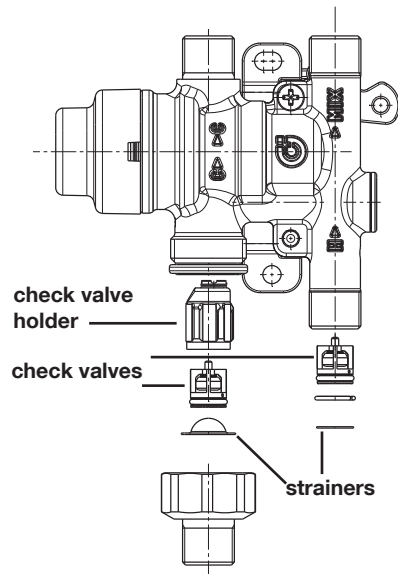


Adjust temperature setting with 1/4" hex key. After adjustment, lock the temperature with locking nut.



Replace cap and store key in safe

Replacement parts



Replacement check valve and strainers for 521201A under sink thermostatic mixing valves.

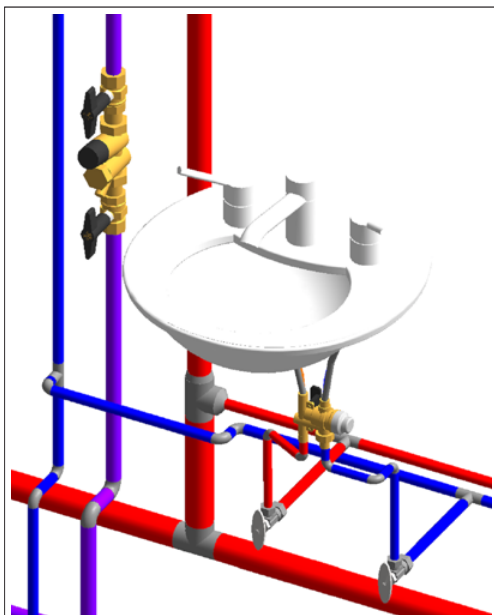


F0001270.....check valve and two strainers, one set for the cold inlet port and one set for the hot inlet port.

5-pack of plugs/nuts to plug the valve cold outlet port when using code 521201A with a single-pipe fixture.



NA10741.....plug/nut 3/8" compression (5-pack)



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SPECIFICATION SUMMARY

521201A

Scald Protection point of use thermostatic valve certified to ASSE 1070, NSF/ANSI/CAN 372-2011 Drinking Water Systems Components-Lead Content Reduction of Lead in Drinking Water, California Health and Safety Code 116875 S.3874, and NSF/ANSI/CAN 61-2018, Drinking Water System Components – Health Effects. Threaded 3/8" compression connection. Low-lead forged brass body (<.25% Lead content). Polysulfone shutter. Seal in Peroxide-cured EDPM. Stainless steel spring. Maximum working temperature 195°F (90°C). Setting range from 95–120°F (35–50°C). Tolerance of $\pm 3^\circ\text{F}$ ($\pm 2^\circ\text{C}$). Maximum working pressure 150 psi (10 bar). Maximum unbalanced dynamic supply pressure 2:1. Tamper-proof setting lock and check valves on the inlet.

521201AP

Scald Protection point of use thermostatic valve certified to ASSE 1070, NSF/ANSI/CAN 372-2011 Drinking Water Systems Components-Lead Content Reduction of Lead in Drinking Water, California Health and Safety Code 116875 S.3874, and NSF/ANSI/CAN 61-2018, Drinking Water System Components – Health Effects. Threaded 3/8" compression connection. Low-lead forged brass body (<.25% Lead content). Polysulfone shutter. Seal in Peroxide-cured EDPM. Stainless steel spring. Maximum working temperature 195°F (90°C). Setting range from 95–120°F (35–50°C). Tolerance of $\pm 3^\circ\text{F}$ ($\pm 2^\circ\text{C}$). Maximum working pressure 150 psi (10 bar). Maximum unbalanced dynamic supply pressure 2:1. Tamper-proof setting lock and check valves on the inlet. Includes plug/nut for cold water outlet port for use with single-fixture fixtures providing tempered water only and copper compression fittings kit for hard pipe installations.

We reserve the right to make changes and improvements to the products and related data in this publication, at any time and without prior notice.



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Molded Trap Covers

Product Specifications

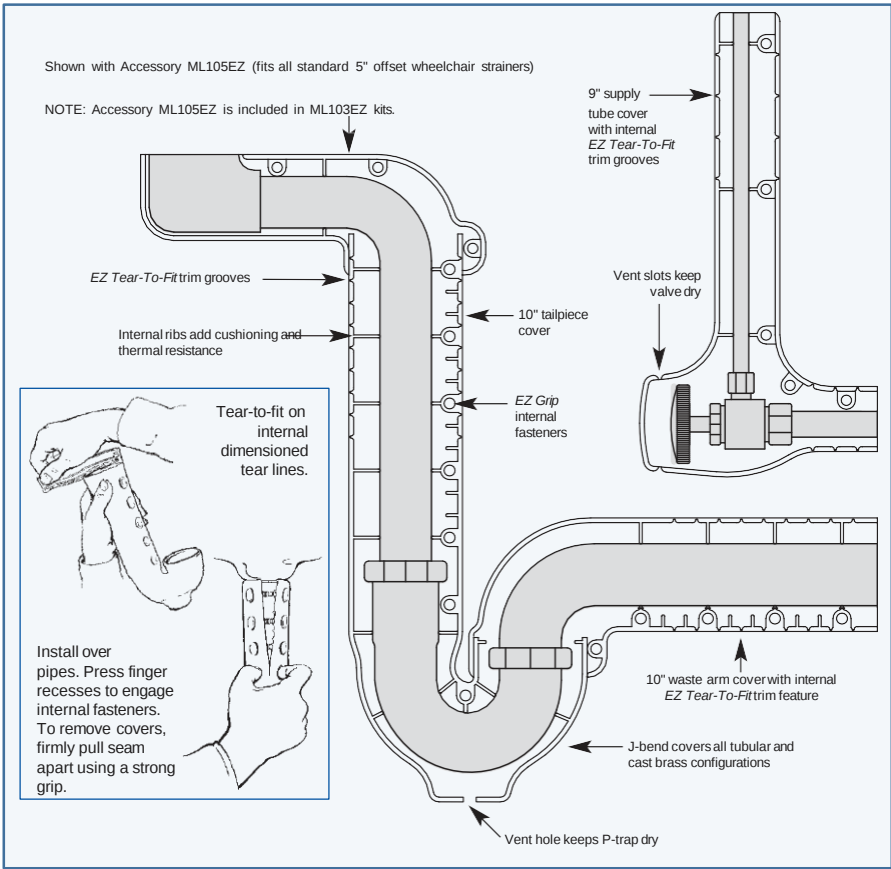
FEATURES

EZ Series waste and supply piping covers satisfy ADA compliance requirements. Built-in EZ Grip internal fasteners and internal EZ Tear-To-Fit trimming feature allow for fast installation without tools. Cover kits are designed to fit on all tubular and cast brass 1-1/4" or 1-1/2" P-trap assemblies. Valve cover completely encloses 3/8" or 1/2" angle valve and supply tube for both handled and keyed type water stops.

✓ To Submit	Part #	Description
	ML101EZ	One P-trap cover, one angle valve and supply covers
→	ML102EZ	One P-trap cover, two angle valve and supply covers
	ML103EZ	One P-trap cover, two angle valve and supply covers, one 5" offset wheelchair strainer cover
	ML105EZ	One 5" offset wheelchair strainer cover



2519980



SPECIFICATIONS	
Material	Rigid high-impact, stain-resistant PVC
Nominal Wall	1/8" constant with internal ribs
Durometer	70-80 - Shore A
UV Protection	Will not fade or discolor
Durability	Virtually indestructible
Trimming (EZ Series)	EZ Tear-To-Fit trim feature (no tools needed)
Fasteners (EZ Series)	Internal EZ Grip fasteners, reusable
Color	China white
Paintability	Apply latex paint
Burning Characteristics ASTM D-635	Self extinguished 0 sec (ATB) 0 mm (AEB)
Bacteria/Fungus Resistance	ASTM G21 and G22 — Result: 0 growth
Maintenance	Wipe clean using common detergents

Warranty

See warranty information for more details.

All dimensions listed are nominal. MAINLINE® reserves the right to make product and material changes at any time without notice.



Contact your sales representative for more information or visit our website at mainlinecollection.com

*****RPZ*****.
**



Model 975XL3

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.

Standards Compliance

- ASSE® Listed 1013
 - UPC® Listed
 - 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)
- Not available for sale or use in Canada

Materials

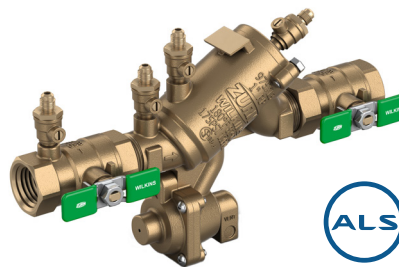
Main valve body	Low Lead Cast Bronze ASTM B 584
Access covers	Low Lead Cast Bronze ASTM B 584
Fasteners	Stainless Steel, 300 Series
Elastomers	Silicone (FDA Approved) Buna Nitrile (FDA Approved)
Polymers	Noryl™
Springs	Stainless Steel, 300 Series
Ball valve handles	Stainless Steel

Features

Sizes:	1/2", 3/4", 1", 1 1/4", 1 1/2", 2"
Minimum working water pressure	25 PSI
Maximum working water pressure	175 PSI
Minimum working water temperature	33°F
Maximum working water temperature	180°F
Hydrostatic test pressure	350 PSI
Threaded end connections (FNPT)	ANSI B1.20.1

Relief Valve discharge port:

1/2" - 1"	-	0.29 sq. in.
1 1/4" - 1 1/2"	-	0.59 sq. in.
2"	-	0.93 sq. in.



XL LEAD FREE



NSF/ANSI/CAN 61



Options

(Suffixes can be combined)

- ☐ - with full port QT ball valves (standard, 1/2" - 2"), and with integral male 45° flare SAE test fitting (standard, 1/2" - 1")
- ☐ FT - with integral male 45° flare SAE test fitting (1 1/4" - 2", contact factory for approvals)
- ☐ S - with Model SXL lead-free wye type strainer
- ☐ SE - with 90° elbows (1/2" - 1")
- ☐ U - with union ball valves (3/4" - 2")

Accessories

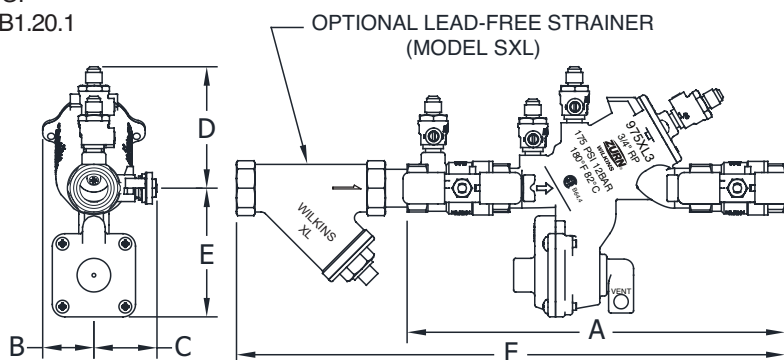
- ☐ Air gap (Model AG-X)
- ☐ Repair kits (see repair kit guide for full list)
- ☐ Thermal expansion tank (Model XT)
- ☐ Soft seated check valve (Model 40XL2)
- ☐ Shock arrester (Model 1260XL)
- ☐ QT-SET Quick Test Fitting Set (1 1/4" - 2")

Air Gap Part Numbers

AG-4	(1 1/4" - 1 1/2")
AG-5	(2")
AG-8	(1/2" - 1")

Repair Kit Part Numbers

RK34-975XL3	(1/2" & 3/4")
RK1-975XL3	
RK114-975XL3	(1 1/4" & 1 1/2")
RK2-975XL3	



Dimensions & Weights (do not include pkg.)

MODEL SIZE		DIMENSIONS (approximate)												WEIGHT	
		A		B		C		D		E		F		WITH BALL VALVES	
		in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kg
1/2	15	9 5/16	237	1 3/8	35	1 1/2	38	3 7/32	82	3 3/8	86	13 1/16	332	4	1.8
3/4	20	10	254	1 3/8	35	1 11/16	43	3 7/32	82	3 3/8	86	14 1/8	359	4	1.8
1	25	11 13/16	300	1 9/16	40	1 15/16	49	3 7/16	87	3 1/2	89	16 3/16	412	6	2.7
1 1/4	32	15 9/16	396	1 9/16	40	2 1/2	64	4 1/16	104	5 3/16	133	21 1/8	537	15	6.8
1 1/2	40	15 11/16	399	1 9/16	40	3 1/8	79	4 1/16	104	5 3/16	133	22 3/8	569	16	7.3
2	50	17 7/8	454	1 15/16	49	3 1/2	89	4 15/16	126	6 5/8	169	25 7/8	657	22	10

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www.zurn.com

Rev. E

Date: 9/23

Document No. BF-975XL3

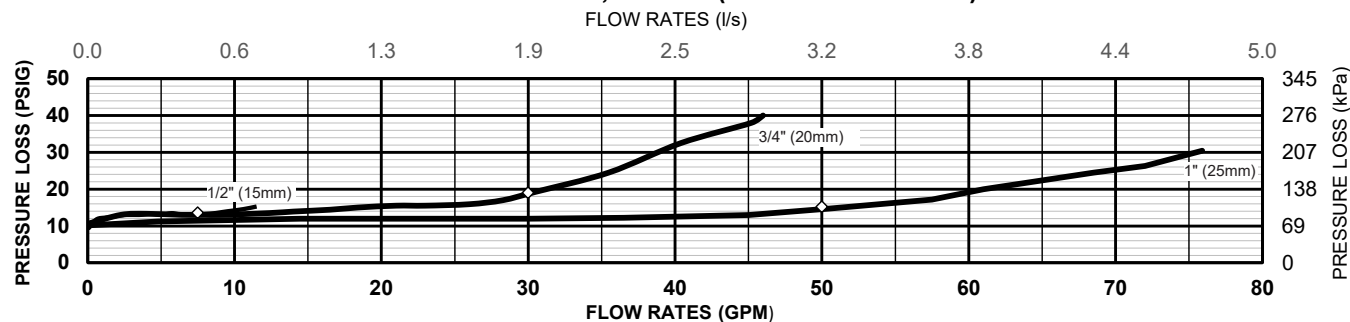
Product No. Model 975XL3

Patent zurn.com/patents

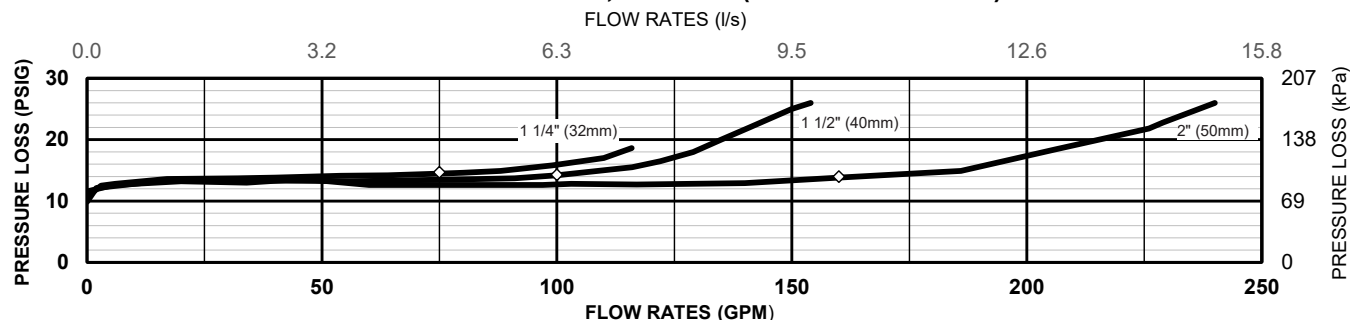
Flow Characteristics

◇ Rated Flow (established by approval agencies)

MODEL 975XL3 1/2", 3/4" & 1" (STANDARD & METRIC)



MODEL 975XL3 1 1/4", 1 1/2" & 2" (STANDARD & METRIC)

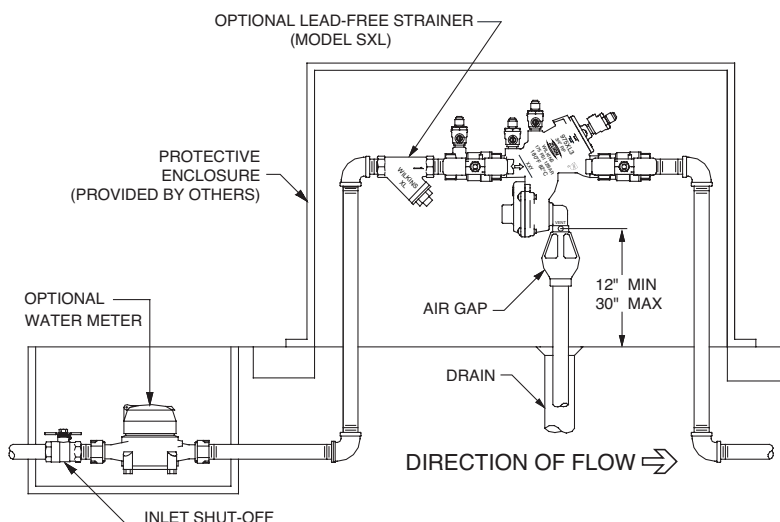


Typical Installation

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 thru Schedule 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 Reduced Pressure Principle Backflow Preventer shall be certified to NSF/ANSI/CAN 61, 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 at an angle and be accessible for maintenance without removing the relief valve or the entire device from the line. The checks shall share a single access cover and test cocks shall be accessible from the top of the device. If installed indoors, the installation shall be supplied with an air gap adapter. The Reduced Pressure Principle Backflow Preventer shall be a ZURN WILKINS Model 975XL3.



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

Materials

Main valve body Cast Bronze ASTM B 806
Access cover and plug Cast Bronze ASTM B 806
Screens 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"
 2 1/2", 3"

Temperature/pressure rating 180°F
 300 psi WOG
Threaded connections (FNPT) ANSI B1.20.1
(Supplied with brass closure plug)



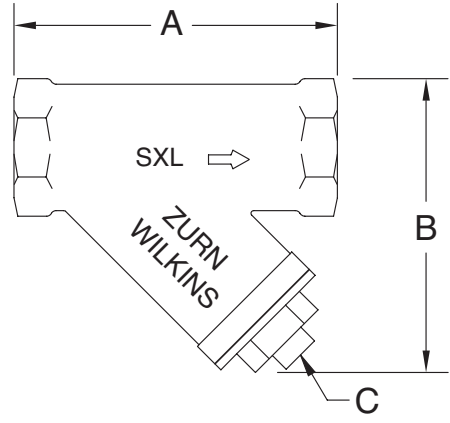
LEAD FREE



NSF/ANSI/CAN 61

Options

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



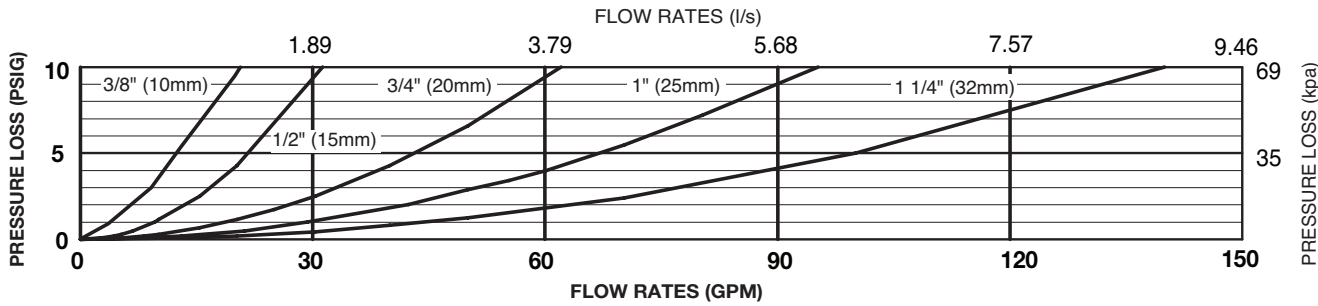
Dimensions & Weights (do not include pkg.)

MODEL SXL (NPT CONNECTION)								
SIZE		DIMENSIONS (approximate)					WEIGHT	
		A		B		C		
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	3 1/2	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
MODEL SXL (COPPER SWEAT CONNECTION)								
SIZE		DIMENSIONS (approximate)					WEIGHT	
		A		B		C		
in.	mm	in.	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

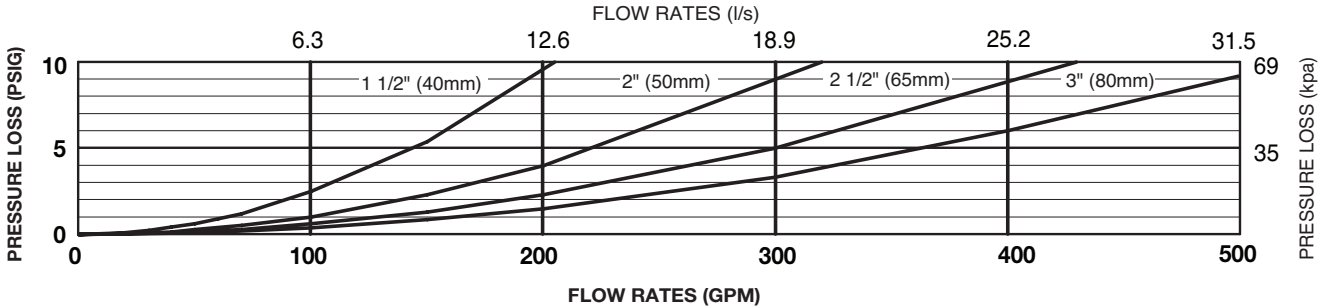
2595133

Flow Characteristics

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



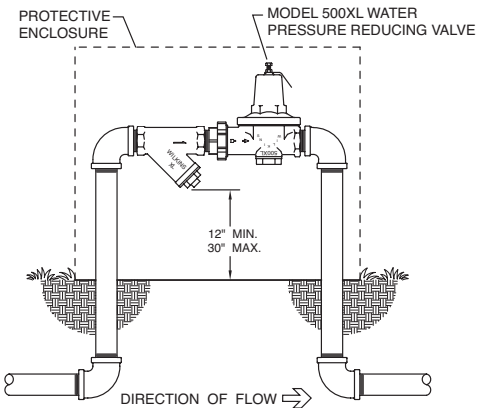
MODEL SXL 1 1/2" thru 3" (STANDARD & METRIC)



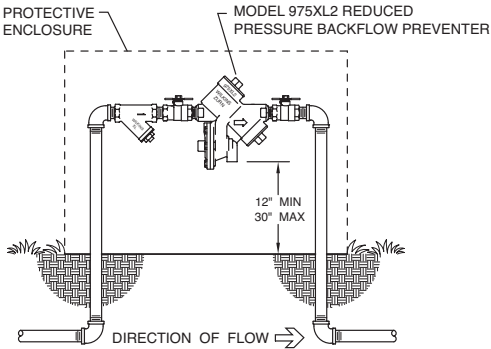
Typical Installation

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 Schedule 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



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.

2595133



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
 Body (AG-11, 12) Nylon
 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

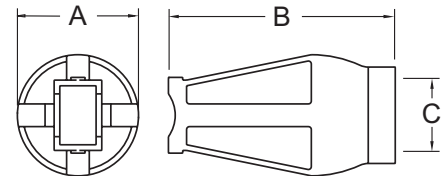
Sizes: 1/4" - 1/2", 3/4" - 1", 1-1/4" - 2", 2-1/2" - 6", 8" - 10"

Dimensions & Weights (do not include pkg.)

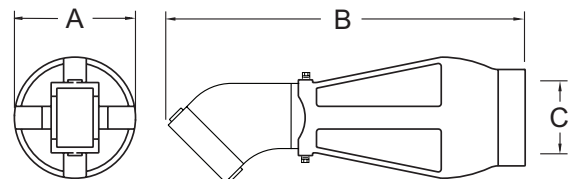
MODEL	DIMENSIONS (approximate)							WEIGHT	
	SIZES	FOR MODEL * SERIES	A		B		C OUTLET PIPE SIZE	lbs.	kg
			in.	mm	in.	mm			
AG-8	1/4" - 1/2"	975XL, 975XL2	2 1/2	64	3 1/2	89	1" NPT	2	0.9
AG-8	1/2" - 1"	975XL3	2 1/2	64	3 1/2	89	1" NPT	2	0.9
AG-4	3/4" - 1"	975XL, 975XL2	3 1/4	83	5	127	1" NPT	2	0.9
AG-4	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-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:

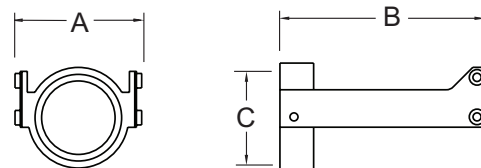
375, 375A, 375ADA, 375ADAR, 375AMS, 375AR, 375AST, 375ASTDA, 375ASTDAR, 375ASTDAST, 375ASTMS, 375ASTR, 375DA, 375MS, 375ST, 375XL, 475, 475DA, 475DAV, 475MS, 475VMS, 975XL, 975XL2, 975XL3, 475ST, 475STV, 475STDA, 475STDAV



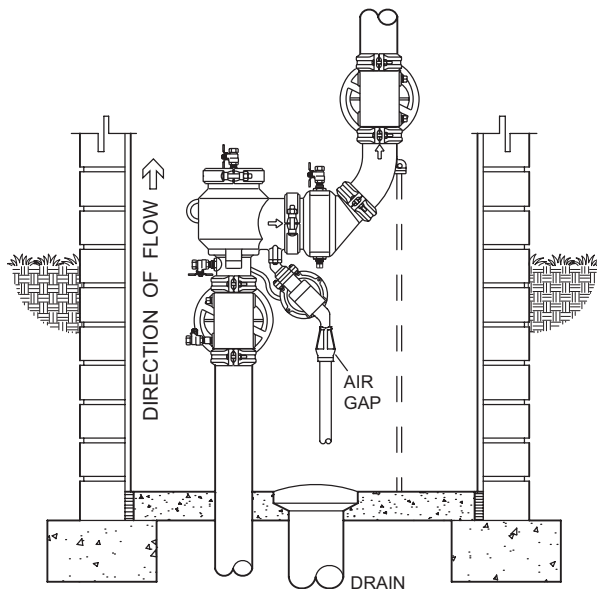
AG-4 THRU AG-8



AG-9 & AG-10



AG-11 & AG-12



Indoor Installation

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.

*****MISC*****.
**

PRODUCT DATA SHEET

PEX-B TUBING



Product Application

Pexflow tubing is designed for use in hot/cold potable water distribution systems with a maximum design pressure and temperature rating of between 160psi @73f to 100psi @ 180F including hot water recirculation systems with temperatures up to 140f and is certified to be utilized with approved f1807, F2159 PPSU/Brass fittings and F2159/F2098 clamping systems. It is fully approved for use in low rise and high rise residential, commercial and Institutional use in most North American Jurisdictions. (check local code requirements)

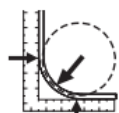
Material

Pexflow pipe is manufactured from high grade PE resin designated Pex 5006 and features the industry proven reliability and consistency of Silane Cross Linking. The pipe is manufactured to CTS OD SDR9 nominal tube sizing as per F876/F877 Standards and it incorporates a multi-layering that provides superior UV protection and Chlorine resistance. Pipe is available in both coils and lengths and in red/blue and white colors for easy identification of lines during and after construction.

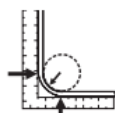
Temperature and Pressure Ratings

160 psi at 73°F / 23°C
100 psi at 180°F / 82°C

Minimum Bend radius



CORRECT:
8 x O.D.



INCORRECT:
PIPE FLATTENS
AT THE BEND

PEX tubing may be bent to a minimum of (8 x OD or 5 x with approved bend support).

Standards

Pexflow pipe meet all of the physical, design, performance and toxicological inspection test and certification requirements outlined by all of the Industry Standards and is fully approved for use In Commercial, Residential and North America. Has been rigorously tested by North Americas best in class test/certification and is certified to meet all of the physical, design, performance and toxicological inspection test and certification requirements outlined by all major Standards as outlined below and the pipe carries the following approvals: cNFSus, CSA B137.5, NSF to NSF14/NSF 61-G/NSF 372, NSF to Uniform Plumbing Code, NSF To standards F876/877/F1807/ F2159/F2098, NSF to NSF-pw, NSF to SDR 9, NSF to PEX 5006

Plenum Rating:

25 flame spread / 50 smoke developed to ASTM E84:

- 1/2" and 3/4" with spacing of 18" between each run of tubing
- 1" through 2" when insulated with 1/2" fiberglass insulation

CAN/ULC S102.2:

- 1/2" through 1" with spacing of 18" between each run of tubing
- 1-1/4" through 2" when insulated with 1/2" fiberglass insulation

Flow Rate Chart

Size	Min Flow Rate (gpm)	Max Flow Rate (gpm)
3/8"	0.6	1.3
1/2"	1.2	2.3
5/8"	1.7	3.3
3/4"	2.3	4.6
1"	3.8	7.5
1-1/4"	5.6	11.2
1-1/2"	7.8	15.6
2"	13.4	26.8

Minimum Burst Pressure (psi) per ASTM F876/F877

Size	73°F (23°C)	180°F (82°C)
3/8"	620	275
1/2"	480	215
3/4"	475	210
1"	475	210
1-1/4"	475	210
1-1/2"	475	210
2"	475	210

Potable Water PEX

Size	Outside Diameter	Wall Thickness	Inside Diameter	Operating Pressure	Min Bend	Fluid Capacity per 100Ft.
3/8"	12.70mm	1.78mm	8.56mm	1. PN=0.69Mpa(100psi), T max=82°C(180°F) 2. PN=1.1Mpa(160psi) T max=23°C(73°F)	The minimum bending radius is eight times the outside diameter of the pipe	122.083
1/2"	15.88mm	1.78mm	11.72mm			221.582
5/8"	19.05mm	2.12mm	14.21mm			321.275
3/4"	22.22mm	2.47mm	16.68mm			436.863
1"	28.58mm	3.18mm	21.44mm			721.219
1-1/4"	34.92mm	3.88mm	26.28mm			1076.480
1-1/2"	41.27mm	4.59mm	31.59mm			-
2"	53.97mm	5.99mm	41.38mm			-

Engineer's Approval

Job Name / # _____

Contractor _____ Date _____

Job Location _____

Engineer _____ Date _____

*Note: Information subject to change without notice.

POLY PEX MANIFOLDS

SPECIFICATION SHEET

Features

- Lead Free

Specifications & Approvals

Acudel 22000 (PPSU) by injection molding
 Working Pressure: 100 PSI
 Working Temperature: 180°F
 Conforms to ASTM F2159 & F877, CSA B137.5,
 ANSI/NSF 61



PEX Manifolds Close End

Part #	Size
PMC2-3412	3/4" X 3/4" X1/2" - 2 Ports
PMC3-3412	3/4" X 3/4" X1/2" - 3 Ports
PMC4-3412	3/4" X 3/4" X1/2" - 4 Ports
PMC6-112	1" X 1" X1/2" - 6 Ports

PEX Manifolds Open End

Part #	Size
PMO2-3412	3/4" X 3/4" X1/2" - 2 Ports
PMO3-3412	3/4" X 3/4" X1/2" - 3 Ports
PMO4-3412	3/4" X 3/4" X1/2" - 4 Ports
PMO6-3412	3/4" X 3/4" X1/2" - 6 Ports

Property	ASTM Test Method	US Customary Units		SI Units	
		Value	Units	Value	Units
Mechanical					
Tensile Strength	D 638	11.2	kpsi	77	MPa
Tensile Modulus	D 638	387	kpsi	2.67	GPa
Tensile Elongation at Yield	D 638	6.7	%	6.7	%
Tensile Elongation at Break	D 638	50	%	50	%
Flexural Strength	D 790	15.7	kpsi	108	MPa
Flexural Modulus	D 790	402	kpsi	2.77	GPa
Tensile Impact Strength	D 1822	175	ft-lb/in	388	kJ/m ²
Izod Impact Strength	D 256	2.0	ft-lb/in	105	J/m
Thermal					
Heat Deflection Temperature ⁽²⁾ at 264 psi (1.8 MPa)	D 648	387	°F	197	°C
Electrical					
Dielectric Strength, 1/8" (3.2 mm)	D 149	470	V/mil	18.5	kV/mm
Dielectric Constant at 1 MHz	D 150	3.4		3.4	
Dissipation Factor at 1 MHz	D150	0.008		0.008	
Volume Resistivity	D 257	>9 x 10 ¹⁵	ohm-cm	>9 x 10 ¹⁵	ohm-cm
General					
Specific Gravity	D 792	1.28		1.28	
Melt Flow at 715°F (380°C), 2.16 kg	D 1238	12	g/10 min	12	g/10 min
Mold Shrinkage	D 955	0.7	%	0.7	%
Moisture Absorption, 24 hours	D 570	0.3	%	0.3	%
Moisture Absorption, 30 days	D 570	0.9	%	0.9	%

⁽¹⁾ Properties of individual batches will vary within specification limits. Properties are typical of uncolored material. Colorants or other additives may alter properties.

⁽²⁾ Annealed 0.125 inch (3.2 mm) thick specimens.

POLY PEX FITTINGS

SPECIFICATION SHEET

Features

- Available in black or white
- Lead Free

Specifications & Approvals

Acudel 22000 (PPSU) by injection molding

Working Pressure: 100 PSI

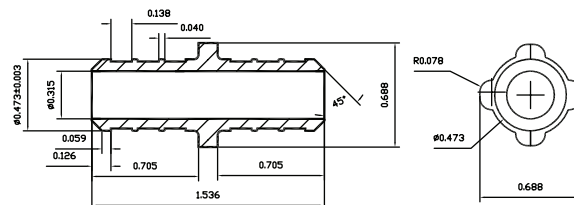
Working Temperature: 180°F

Conforms to ASTM F2159 & F877, CSA B137.5,

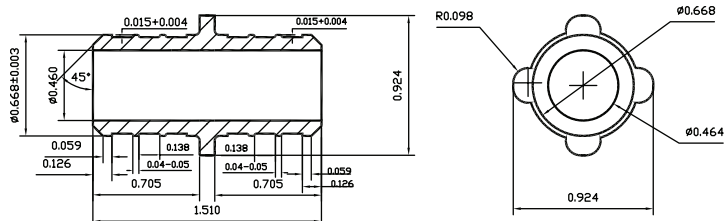
ANSI/NSF 61

PEX Couplings

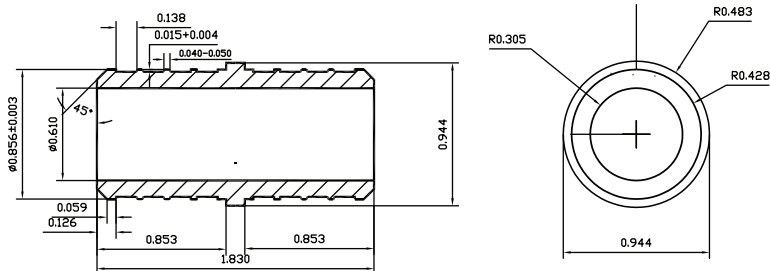
Part #	Size
1. PPCP0012	1/2"
2. PPCP0034	3/4"
3. PPCP0100	1"
4. PPRC3412	3/4" x 1/2"
5. PPRC1034	1" x 3/4"



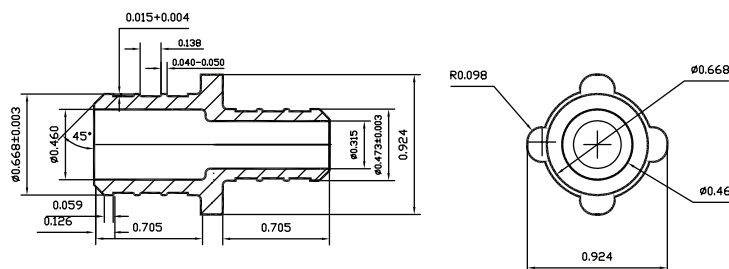
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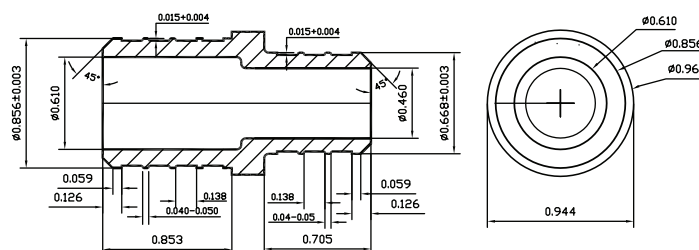
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3



4



5

POLY PEX FITTINGS

SPECIFICATION SHEET

Features

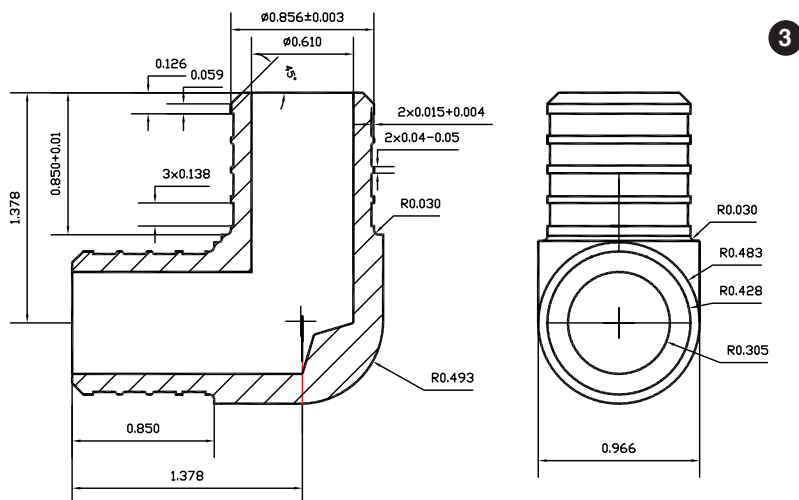
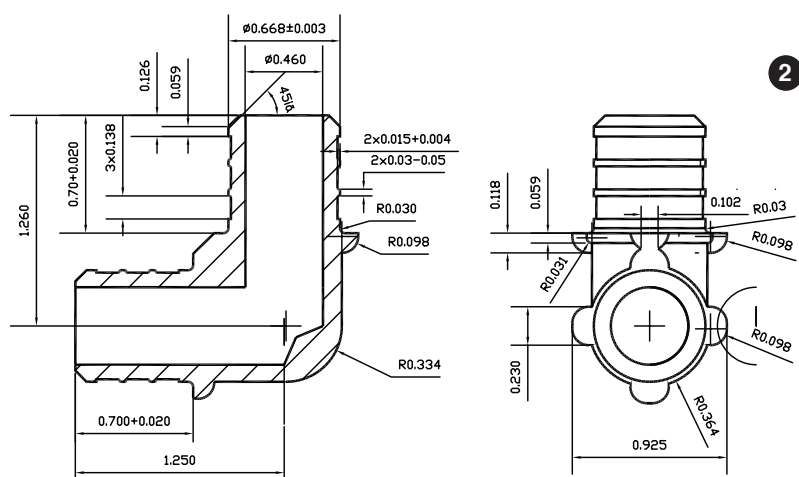
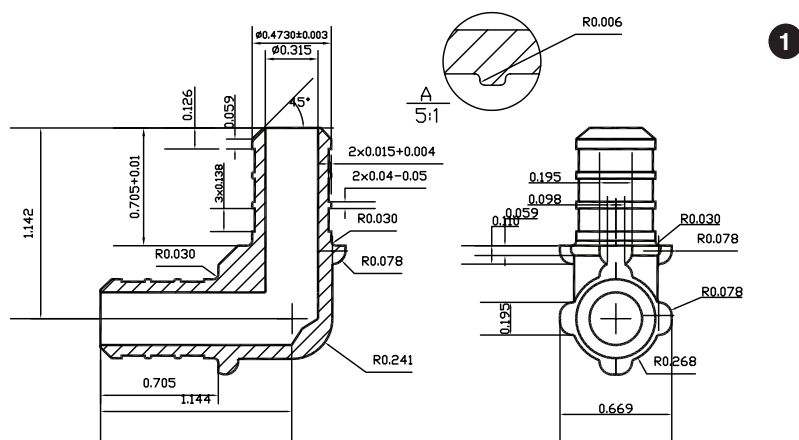
- Available in black or white
- Lead Free

Specifications & Approvals

Acudel 22000 (PPSU) by injection molding
 Working Pressure: 100 PSI
 Working Temperature: 180°F
 Conforms to ASTM F2159 & F877, CSA B137.5,
 ANSI/NSF 61

PEX Elbows

Part #	Size
1. PPLN0012	1/2"
2. PPLN0034	3/4"
3. PPLN0100	1"



POLY PEX FITTINGS

SPECIFICATION SHEET

Features

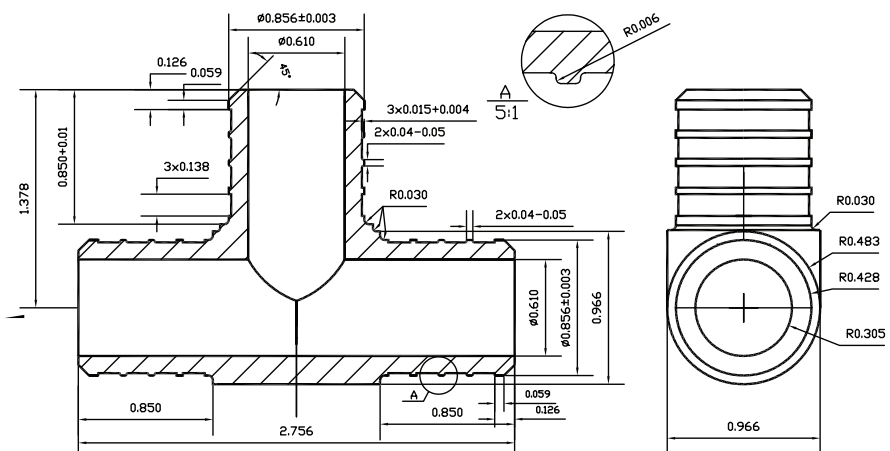
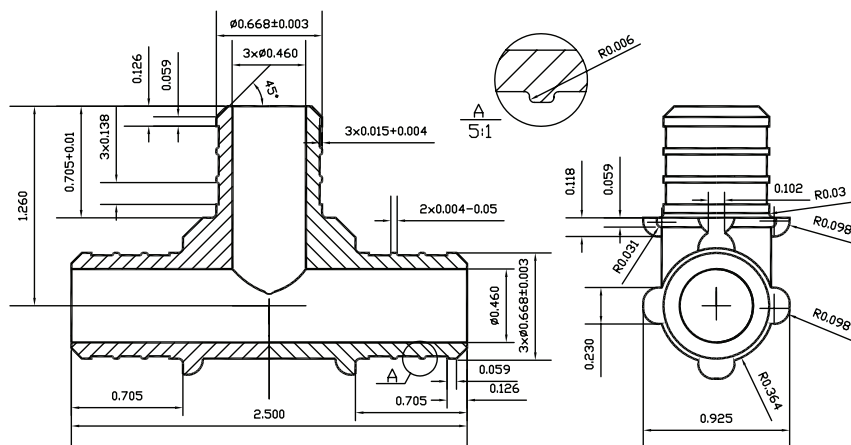
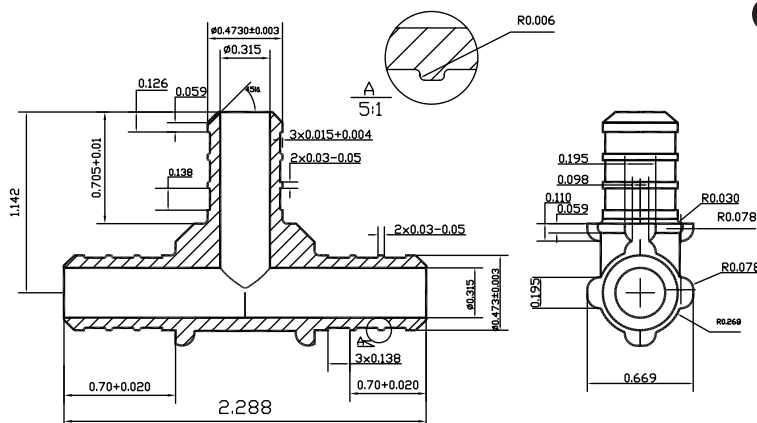
- Available in black or white
- Lead Free

Specifications & Approvals

Acudel 22000 (PPSU) by injection molding
 Working Pressure: 100 PSI
 Working Temperature: 180°F
 Conforms to ASTM F2159 & F877, CSA B137.5,
 ANSI/NSF 61

PEX Tees

Part #	Size
1. PPTE0012	1/2"
2. PPTE0034	3/4"
3. PPTE0100	1"



POLY PEX FITTINGS

SPECIFICATION SHEET

Features

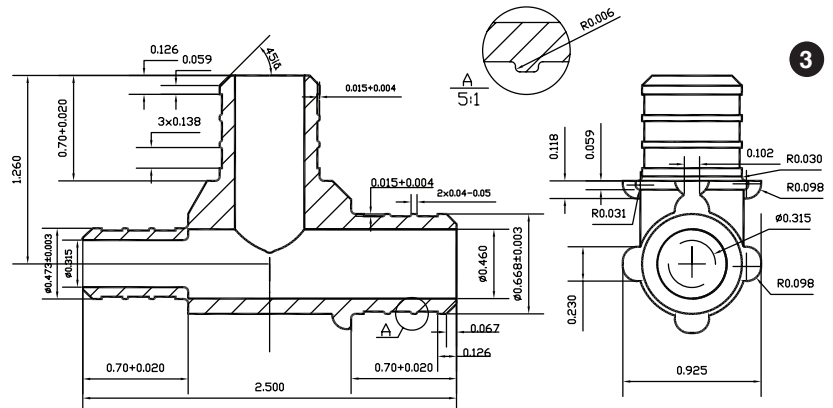
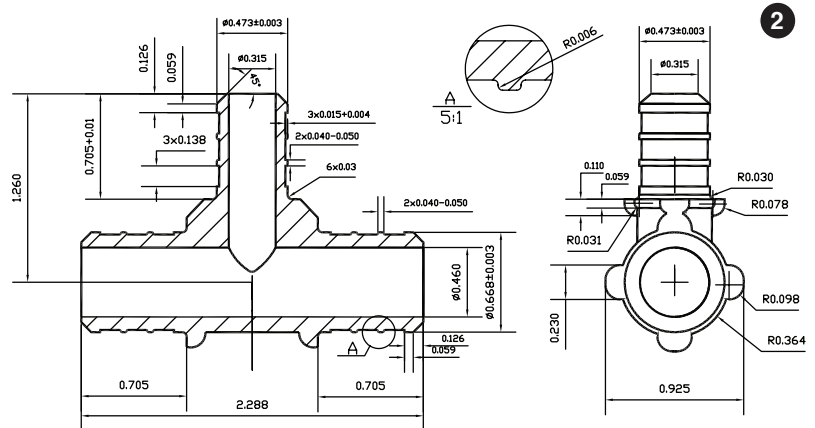
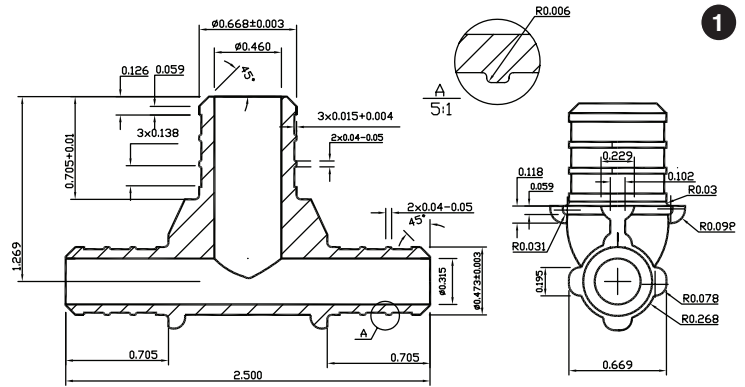
- Available in black or white
- Lead Free

Specifications & Approvals

Acudel 22000 (PPSU) by injection molding
 Working Pressure: 100 PSI
 Working Temperature: 180°F
 Conforms to ASTM F2159 & F877, CSA B137.5,
 ANSI/NSF 61

PEX Red. Tees

Part #	Size
1. PPRT1213	1/2" x 1/2" x 3/4"
2. PPRT3431	3/4" x 3/4" x 1/2"
3. PPRT3413	3/4" x 1/2" x 3/4"



POLY PEX FITTINGS

SPECIFICATION SHEET

Features

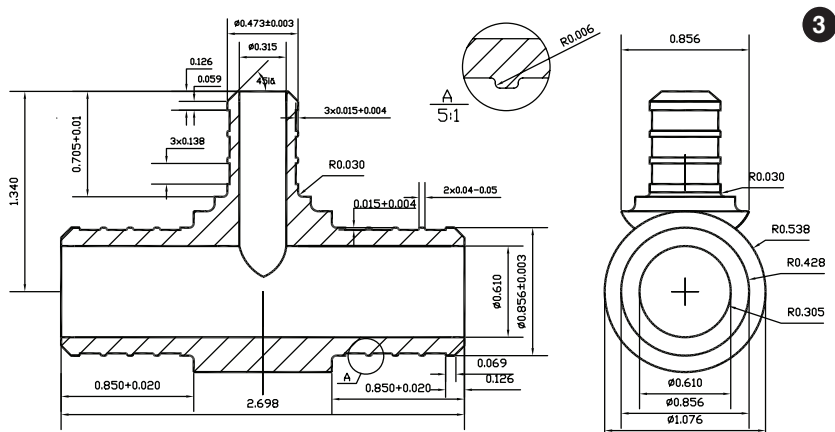
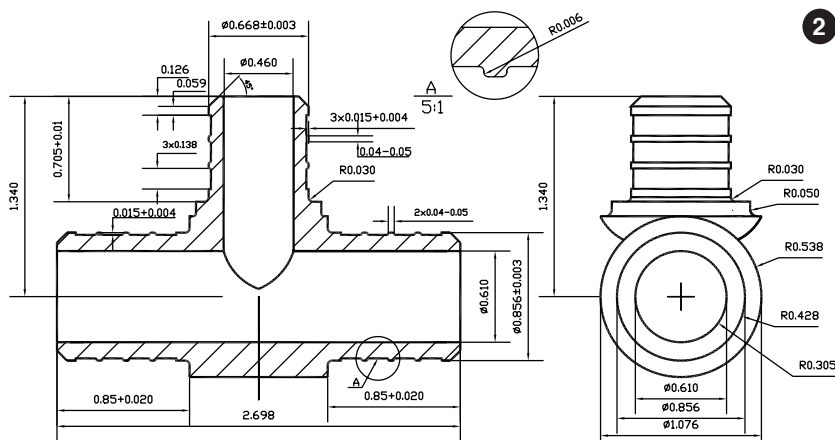
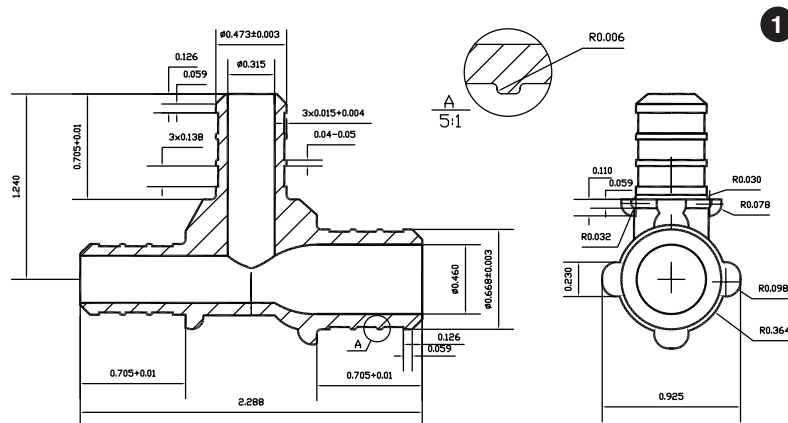
- Available in black or white
- Lead Free

Specifications & Approvals

Acudel 22000 (PPSU) by injection molding
 Working Pressure: 100 PSI
 Working Temperature: 180°F
 Conforms to ASTM F2159 & F877, CSA B137.5,
 ANSI/NSF 61

PEX Red. Tees

Part #	Size
1. PPRT3411	3/4" x 1/2" x 1/2"
2. PPRT1134	1" x 1" x 3/4"
3. PPRT1112	1" x 1" x 1/2"



POLY PEX FITTINGS

SPECIFICATION SHEET

Features

- Available in black or white
- Lead Free

Specifications & Approvals

Acudel 22000 (PPSU) by injection molding

Working Pressure: 100 PSI

Working Temperature: 180°F

Conforms to ASTM F2159 & F877, CSA B137.5,

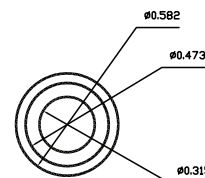
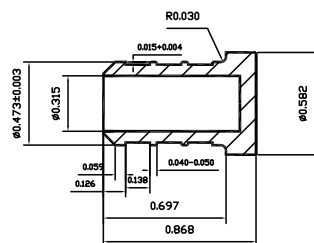
ANSI/NSF 61

PEX Plug

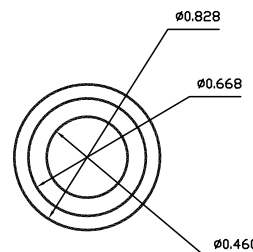
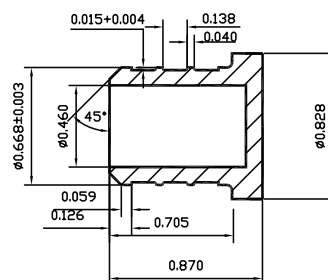
Part #	Size
1. PPPL0012	1/2"
2. PPPL0034	3/4"
3. PPPL0100	1"

PEX Adapter

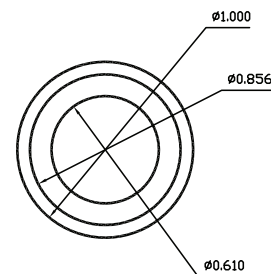
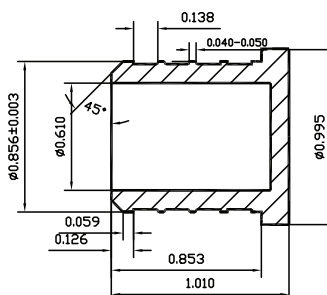
Part #	Size
1. PPMA0012	1/2"
2. PPMA0034	3/4"



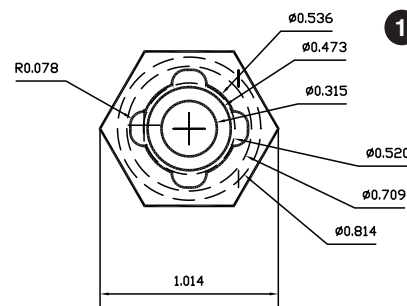
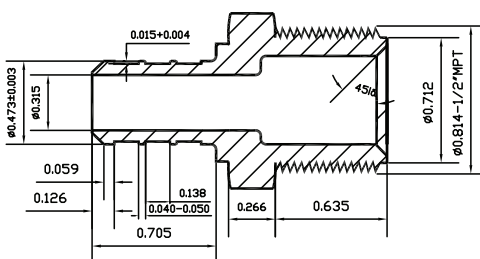
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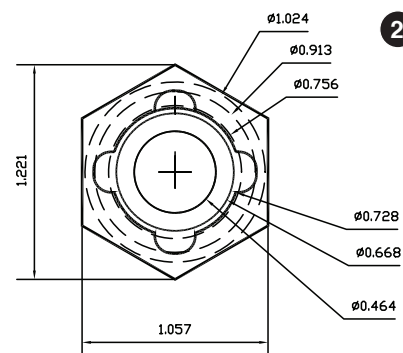
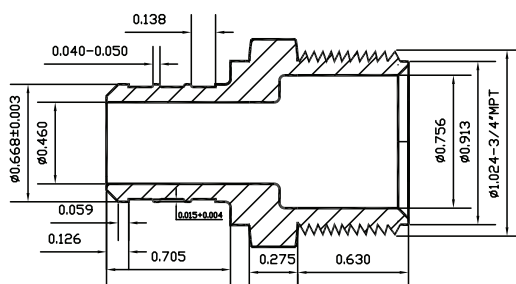
2



3



1



2

POLY PEX FITTINGS

SPECIFICATION SHEET

Features

- Available in black or white
- Lead Free

Specifications & Approvals

Acudel 22000 (PPSU) by injection molding

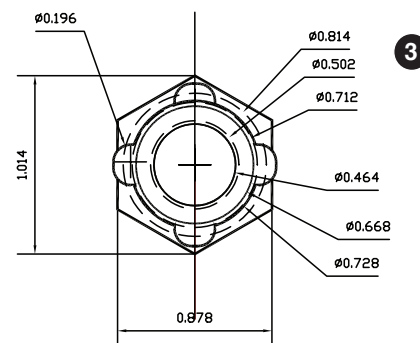
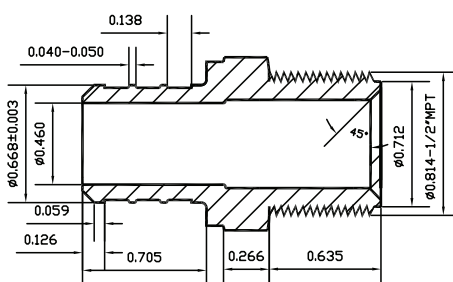
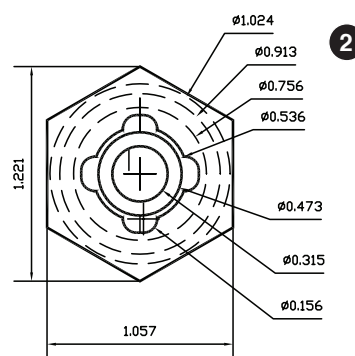
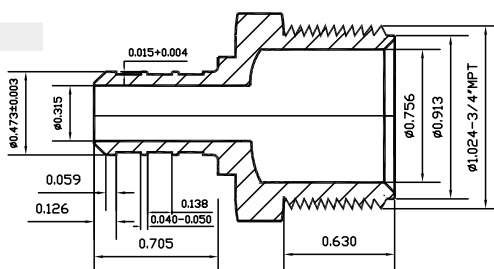
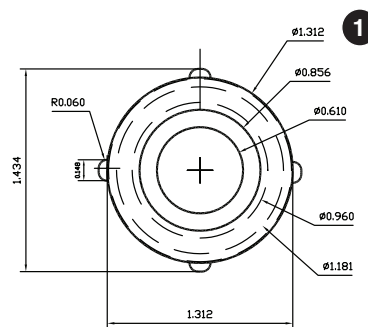
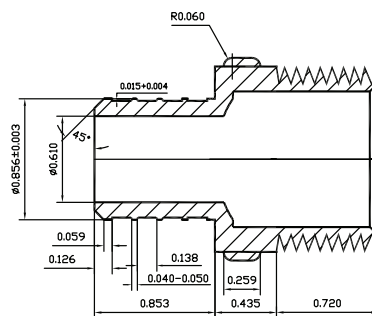
Working Pressure: 100 PSI

Working Temperature: 180°F

Conforms to ASTM F2159 & F877, CSA B137.5,
ANSI/NSF 61

PEX Adapter

Part #	Size
1. PPMA1010	1"
2. PPMA1234	1/2" x 3/4"
3. PPMA3412	3/4" x 1/2"



POLY PEX FITTINGS

SPECIFICATION SHEET

Features

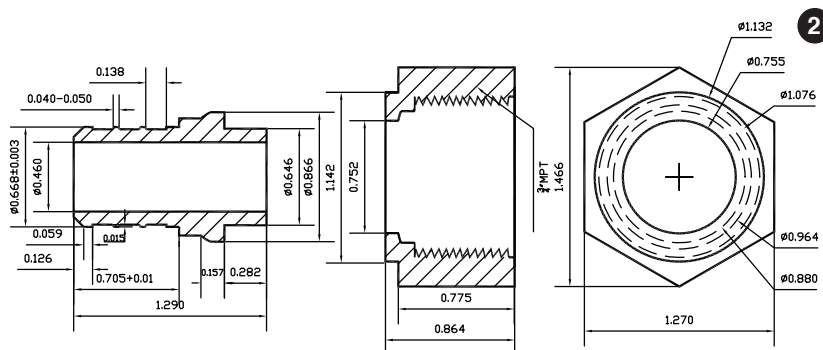
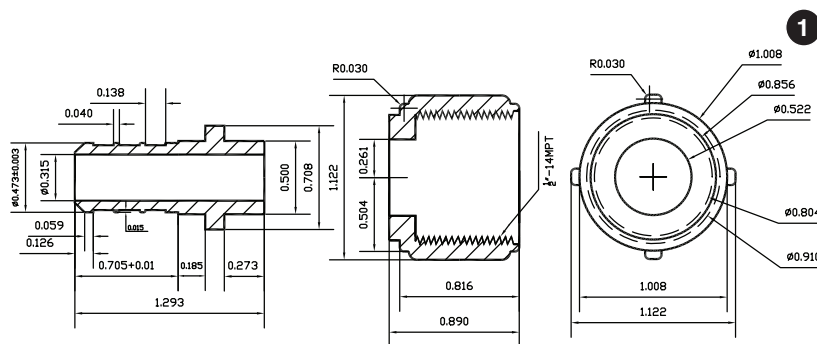
- Available in black or white
- Lead Free

Specifications & Approvals

Acudel 22000 (PPSU) by injection molding
 Working Pressure: 100 PSI
 Working Temperature: 180°F
 Conforms to ASTM F2159 & F877, CSA B137.5,
 ANSI/NSF 61

PEX Swivel Adapter

Part #	Size
1. PPCA0012	1/2" x 3/4"
2. PPCA0034	3/4"



4559970

Copper PEX Crimp Ring

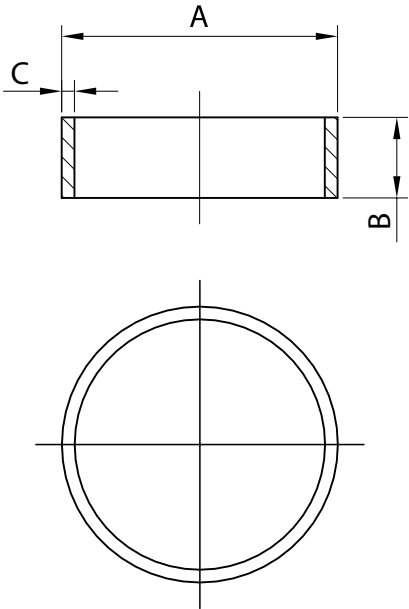
SPECIFICATION SHEET

Features

- Pure, annealed copper rings
- For use with PEX SDR9 piping only
- Not for use with PB pipe

Specifications & Approvals

Conforms to ASTM F1807



Dimensions

Part#	Size	A	B	C
EPCR0038	3/8"	16.00	8.25	1.47
EPCR0012	1/2"	19.05	8.25	1.42
EPCR0058	5/8"	22.23	8.25	1.37
EPCR0034	3/4"	25.40	8.25	1.42
EPCR0100	1"	31.75	9.27	1.24
EPCR0114	1-1/4"	38.10	13.97	1.42
EPCR0112	1-1/2"	45.08	16.50	1.65
EPCR0200	2"	58.40	19.05	1.78

4133286

SUBMITTAL FOR CHARLOTTE PIPE® PVC SCHEDULE 40 SOLID WALL PIPE AND PVC DWV FITTING SYSTEM

Date: _____

Job Name: _____

Location: _____

Engineer: _____

Contractor: _____

Scope:

This specification covers PVC Schedule 40 solid wall pipe and PVC DWV fittings used in sanitary drain, waste and vent (DWV), sewer and storm drainage applications. This system is intended for use in non-pressure applications where the operating temperature will not exceed 140° F.

Specification:

Pipe shall be manufactured from virgin rigid PVC (polyvinyl chloride) vinyl compounds with a cell class of 12454 as identified in ASTM D 1784. PVC Schedule 40 pipe shall be Iron Pipe Size (IPS) conforming to ASTM D 1785 and ASTM D 2665. Injection molded PVC DWV fittings shall conform to ASTM D 2665. Fabricated PVC DWV fittings shall conform to ASTM F 1866. All pipe and fittings shall be manufactured in the United States. All systems shall utilize a separate waste and vent system. Pipe and fittings shall conform to NSF International Standard 14.

Installation:

Installation shall comply with the latest installation instructions published by Charlotte Pipe and Foundry and shall conform to all applicable plumbing, fire, and building code requirements. Buried pipe shall be installed in accordance with ASTM D 2321 and ASTM F 1668. Solvent cement joints shall be made in a two-step process with primer conforming to ASTM F 656 and solvent cement conforming to ASTM D 2564. The system shall be protected from chemical agents, fire-stopping materials, thread sealant, plasticized-vinyl products or other aggressive chemical agents not compatible with PVC compounds. The system shall be hydrostatically tested after installation.

WARNING! Never test with or transport/store compressed air or gas in PVC pipe or fittings. Doing so can result in explosive failures and cause severe injury or death.

Referenced Standards:

- ASTM D 1784: Rigid Vinyl Compounds
 ASTM D 1785: PVC Plastic Pipe, Schedule 40
 ASTM D 2665: PVC Drain, Waste and Vent Pipe and Fittings
 ASTM D 2564: Solvent Cements for PVC Pipe and Fittings
 ASTM D 2321: Underground Installation of Thermoplastic Pipe (non-pressure applications)
 ASTM F 656: Primers for PVC Pipe and Fittings
 ASTM F 1668: Procedures for Buried Plastic Pipe
 ASTM F 1866: Fabricated PVC DWV Fittings
 NSF Standard 14: Plastic Piping Components and Related Materials



PVC Schedule 40 DWV Pipe

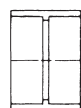
PVC Schedule 40 DWV Pipe

NSF

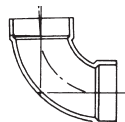
PVC SCHEDULE 40 (WHITE)		PLAIN END		PVC 1120		ASTM D 2665
PART NO.	NOM. SIZE	UPC #	QTY. PER SKID	AVG. OD (IN.)	MIN. WALL (IN.)	WT. PER 100 FT. (LBS.)
PVC 7100*	1 1/4"x10'	03945	2120'	1.660	.140	42.4
PVC 7100*	1 1/4"x20'	03946	4240'	1.660	.140	42.4
PVC 7112*	1 1/2"x10'	03947	1650'	1.900	.145	51.8
PVC 7112*	1 1/2"x20'	03948	3300'	1.900	.145	51.8
PVC 7200*	2"x10'	03949	1110'	2.375	.154	69.5
PVC 7200*	2"x20'	03950	2220'	2.375	.154	69.5
PVC 7300*	3"x10'	03951	1130'	3.500	.216	144.2
PVC 7300*	3"x20'	03952	1000'	3.500	.216	144.2
PVC 7400†	4"x10'	03953	670'	4.500	.237	205.5
PVC 7400†	4"x20'	03954	1340'	4.500	.237	205.5
PVC 7500†	5"x20'	04837	760'	5.563	.258	272.5
PVC 7600†	6"x10'	03955	330'	6.625	.280	361.2
PVC 7600†	6"x20'	03956	660'	6.625	.280	361.2
PVC 7800†	8"x10'	13087	140'	8.625	.322	543.6
PVC 7800†	8"x20'	03958	280'	8.625	.322	543.6
PVC 7910†	10"x20'	03959	220'	10.750	.365	770.7
PVC 7912†	12"x20'	03961	120'	12.750	.406	1019.0
PVC 7914†	14"x20'	04862	60'	14.000	.437	1205.0
PVC 7916†	16"x20'	04918	60'	16.000	.500	1575.7

* Dual Marked ASTM D 1785 & ASTM D 2665.

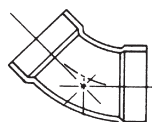
† Triple Marked ASTM D 1785 & ASTM D 2665 & ASTM F 480.



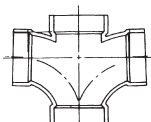
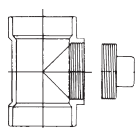
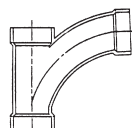
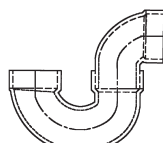
Coupling



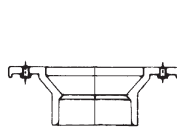
Quarter Bend



Eighth Bend

Double
Sanitary TeeCleanout Tee
w/PlugCombination Wye
& Eighth Bend

P-Trap



Closet Flange

Not all fitting patterns shown

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