**WATER-HAMMER ARRESTERS**

For additional information on Precision Plumbing Products Water-Hammer arrestors,

 <https://www.pppinc.net/products/water-hammer-arrestors/>

Basis-of-Design Product: Subject to compliance with requirements, provide Precision Plumbing Products SC/SWA series or comparable product.

Standard Certifications: ASSE 1010 or PDI-WH 201. NSF-61, NSF-372.

Description: Shock absorber/Water Hammer Arrestor with hydro-pneumatic cushion of nitrogen gas.

Connection: [Male threaded pipe nipple] [sweat connection].

Type: [Copper tube with piston] [Stainless Steel with Piston] [Stainless Steel Bellows].

Size: AA and A through F, or PDI-WH 201, Sizes A through F.

 **TRAP-SEAL PRIMER DEVICE**

For information on Precision Plumbing Products Trap Primer products, refer to,

<https://www.pppinc.net/products/trap-primers>

1. Supply-Type, Trap-Seal Primer Device:

Basis-of-Design Product: Subject to compliance with requirements, provide Precision Plumbing Products PR-500/P1-500/P2-500:

Standard Certifications: ASSE 1018, NSF 372

Description: Lead free brass body for installation in a cold-water service line to a plumbing fixture with trap connection for maintaining trap seal, valve with NPT 1/2 (DN 15) inlet, vacuum breaker ports and FNPT 1/2 (DN 15) outlet for connection to plastic distribution unit for two to four plumbing fixtures.

Pressure Rating: 125 psig (860 kPa) minimum.

Body: Lead Free Brass.

Inlet and Outlet Connections: NPS 1/2 (DN 15) <Insert connection type>.

Gravity Drain Outlet Connection(s): NPS 1/2 (DN 15) threaded joint.

Service Type: [In-line type for service to single trap/fixture] [Install on branch line with distribution unit to service two to four traps/fixtures].

Finish: Chrome plated, or rough bronze for units used with pipe or tube that is not chrome finished.

Copy "Drainage-Type, Trap-Seal Primer Device" Paragraph below and re-edit for each type of primer valve required. If only one type is required, drawing designation may be omitted.

1. Drainage-Type, Trap-Seal Primer Device:

Basis-of-Design Product: Subject to compliance with requirements, provide Precision Plumbing Products LTP-1500 lavatory P-trap with NPS 3/8 (DN 10) minimum, trap makeup connection.

Standard: ASSE 1044.

Description: 1 1/2" Tail Piece floor drain trap priming assembly is provided with a braided 3/8" stainless steel flexible priming make up water line with 5/8" compression fittings, and chrome plated escutcheons for both the wall tube and the make-up water line.

Size: 1-1/2”.

Material: Chrome-plated, cast brass.

1. Electronic TRAP-SEAL PRIMER SYSTEMS

Basis-of-Design Product: Subject to compliance with requirements, provide Precision Plumbing Products PT/PTS

Standard: ASSE 1044.

Piping: NPS 3/4, ASTM B88, Type L (DN 20, ASTM B88M, Type B); copper, water tubing.

Cabinet: [Recessed] [Surface]-mounted steel box with [stainless] [steel] cover.

Recessed: <https://www.pppinc.net/pdf/TPV_Prime_Time_Flush_150_.pdf>

Surface: <https://www.pppinc.net/pdf/TPV_Prime_Time_Surface_150-.pdf>

Electric Controls: 24-hour timer, solenoid valve, and manual switch for [24v EMS], [120] [220]-V ac power.

Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.

Vacuum Breaker: ASSE 1001.

Number Outlets: [4] [6] [8] [10] [12] [13-20] [21-30]

Size Outlets: [ ½ O.D. Brass Compression (DN 15)] [5/8” O.D. Brass Compression (DN 18)] [Pex} [Pex19]

 **Dielectric Nipples:**

For information on Precision Plumbing ClearFlow Dielectric Waterway Fittings, refer to,

<https://www.pppinc.net/pdf/WDU_Clear_Flow150.pdf>

Basis-of-Design Product: Subject to compliance with requirements, provide Precision Plumbing Products, ClearFlow® Dielectric Waterway Fittings

Standard: IAPMO PS 66.

Electroplated steel nipple complying with ASTM F 1545.

Pressure Rating and Temperature: [300 psig (2070 kPa) at 225 deg F (107 deg C)] <Insert values>.

End Connections: Male threaded or grooved. [1/2”- 4”]

Lining: Inert and noncorrosive, propylene.

 **OUTLET BOXES**

1. Mini-Max Plastic Laundry with Arrestors:

For information on Precision Plumbing Mini-Max Plastic Laundry with Arrestors, refer to,

<https://www.pppinc.net/pdf/FHA_Laundry_box_plastic_Pexes_Specifications_150.pdf>

Basis-of-Design Product: Subject to compliance with requirements, provide Precision Plumbing Products, [Metal] [Plastic] [Fire Rated] Mini-Max Laundry Box with Arrestor:

Standard: NSF-61, ASSE 1010

Mounting: Recessed.

Material and Finish: [Epoxy-painted-steel] [Plastic] [Fire Rated] box and faceplate.

Faucet: Combination valved fitting or separate hot- and cold-water valved fittings complying with ASME A112.18.1. ¾” garden-hose thread complying with ASME B1.20.7 on outlets.

Supply Shutoff Fittings: ½” ball valves.

Inlet Fittings: [Pex] [Pex19] [NPS ½ Sweat]

Drain: NPS 2 (DN 50) outlet connection to drainage piping.

1. Icemaker Outlet Boxes :

For information on Precision Plumbing Mini-Max Plastic Laundry with Arrestors, refer to,

<https://www.pppinc.net/pdf/Plastic_ice_maker_Submittal_150.pdf>

Basis-of-Design Product: Subject to compliance with requirements, provide Precision Plumbing Products, [Metal] [Plastic] [Fire Rated] Mini-Max Icemaker Box:

Standard: NSF-61, NSF-372, ASSE 1010,

Mounting: Recessed.

Material and Finish: [Epoxy-painted-steel] [Plastic] [Fire Rated] box and faceplate.

Faucet: Valved fitting complying with ASME A112.18.1. ¼” compression copper tube outlet.

Supply Shutoff Fittings: NPS 1/2 ball valves and NPS 1/2 copper tubing.

Inlet Fittings: [Pex] [Pex19] [NPS ½ Sweat]

**Distribution Units:**

For information on Precision Plumbing Distribution Units, refer to,

<https://www.pppinc.net/pdf/WDU_Floor_Trap_Distr_150-08_18.pdf>

Basis-of-Design Product: Subject to compliance with requirements, provide Precision Plumbing Products, Distribution Unit [DU-U] [DU-4]:

Standard: IAPMO IGC 178-2002 (R2014)

Mounting: ½”npt to connect to: [MP], [MPB], [SP], [SMP], [PR-500], [P1-500], [P2-500], [CPO-500], [PRO1-500], [PO-500].

Material and Finish: [Plastic] [Copper Body].

Outlet Fittings: [1/2” O.D. Compression-500] [5/8” O.D Compression-625] [5/8” O.D. Push to Connect-625PTC] [3/8”fpt]

**Priming Adapter:**

For information on Precision Plumbing Distribution Units, refer to,

[**https://www.pppinc.net/pdf/WDU\_Pecision\_Priming\_Adapter150.pdf**](https://www.pppinc.net/pdf/WDU_Pecision_Priming_Adapter150.pdf)

Basis-of-Design Product: Subject to compliance with requirements, provide Precision Plumbing Products, Precision Priming Adapter [PPA]:

Standard: IAPMO PS 76-2012A

Mounting: The PPA will cement inside P-trap and is available in [2”] [3”] [4”].

Material: Supply in [ABS] [PVC]

Outlet Fittings: Make-up line fitting [1/2 brass compression] [5/8” brass compression] [5/8” PTC Push to Connect]