

# PLENUMLINE MECHANICAL JOINT ACID WASTE SYSTEM

1-1/2" - 4"

## PLENUMLINE™

Plenumline mechanical joint acid waste systems easily displace costly and difficult-to-install glass and metal systems. With Plenumline, time-consuming methods associated with conventional heavy and brittle systems are replaced by a time proven mechanical joint that takes only 30 seconds to complete. Once the Plenumline nut is locked in place, the end-user is assured of many years of trouble-free service. In addition, mechanical joint systems can easily be dismantled and re-used, making Plenumline ideal for modular designs and future expansions.

### STANDARDS



IAPMO-listed  
Meets ASTM F1673  
Standard specification for Polyvinylidene Fluoride (PVDF) Corrosive Waste Drainage Systems.

### ADVANTAGES

- 1 **Ideally suited to plenum applications**
- 2 **30-second joints shorten installation time**
- 3 **Manufactured from Flame Retardant PVDF**, which has an operating temperature range from -40°F (-40°C) to 285°F (140°C). With this high upper limit, Plenumline systems can be flushed with boiling water.
- 4 **All-plastic construction eliminates galvanic action, electrolysis and corrosion in the joint.**
- 5 **Easy to install**, even in tight areas, by using simple, inexpensive tools. Mechanical joints are mastered by plumbers in minutes; no pre-heating is required to install the new blue elastolive.
- 6 **Modularized design** means Plenumline components can be disassembled and re-used. In addition, system modifications during installation can be performed without damaging fittings.
- 7 **High-quality pipe and fittings** are matched to simplify installation and extend long-term reliability.
- 8 **Flame Retardant PVDF** material exhibits a flame spread index of 5 and smoke development index of 35 as tested in accordance with ASTM E84 and UL723.



## **i DID YOU KNOW?**

IPEX Plenumline is a robust acid waste system, made from flame-retardant PVDF thermoplastic, designed for challenging conditions, including highly restrictive return air plenum applications and high-temperature corrosive chemical waste situations.



## **SHORT FORM SPECIFICATIONS**

### **GENERAL**

Acid waste drain and vent system, as shown on drawings, shall be IAPMO listed, Schedule 40, FR-PVDF as manufactured by IPEX to include pipe supplied in 10 ft. lengths and matched fittings, traps and neutralization tanks from the same manufacturer. It shall also include recommended adapters to connect to other piping materials, where applicable.

### **MATERIAL**

Pipe and fittings shall be made from Kynar 740-02, flame retardant PVDF conforming to ASTM F 1673, with a limiting oxygen index (LOI) of 60, Resin must have a vertical burn rating of 94 V-0. Kynar 740-02 resin based on testing to ASTM E84 (UL 723) must have surface burning characteristics greater than or equal to a flame spread 5 and smoke development 35.


### **FITTINGS**

Fittings shall be third party certified to ASTM F 1673 and ASTM E84, and IAPMO approved, be of all plastic construction and a tapered elastic retaining ring shall be designed to lock into a machined groove on the mating piping. All fittings shall have integrally molded union connections. No metallic grab rings or clamps shall be allowed. Fittings shall be Plenumline™ or approved equal.


### **INSTALLATION AND TESTING**


Installation and testing shall be in accordance with the contract drawings, the manufacturer's recommendations and the local plumbing codes. Testing with compressed air including air booster over water is prohibited. The entire system shall be installed free of stress and in proper alignment. Horizontal supports shall provide a wide bearing area and be free of burrs or sharp edges. Support spacings shall be in accordance with the manufacturer's recommendations and local plumbing codes. Vertical piping shall have riser clamps at each floor. Pipe supports shall be installed so that horizontal piping is in uniform alignment and with a uniform slope of at least 1/8" per foot, or in accordance with the local plumbing code requirements.

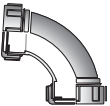
## PRODUCT SELECTION CHART – PLENUMLINE


	Dimension Inches	Product Code	
	1-1/2	W001P	147045
	2	W002P	147046
	3	W003P	147047
	4	W004P	147048
	6	W006P	147049

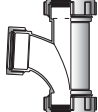
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	1-1/2	W161P	157006
	2	W162P	157007
	3	W163P	157008
	4	W164P	157009

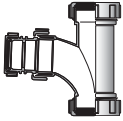
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	1-1/2	W191P	157014
	2	W192P	157015
	3	W193P	157016
	4	W194P	157017

	Dimension Inches	Product Code	
	1-1/2	W211P	157024
	2	W212P	157025
	3	W213P	157026
	4	W214P	157027

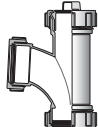
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	1-1/2	W181P	157010
	2	W182P	157011
	3	W183P	157012
	4	W184P	157013


	Dimension Inches	Product Code	
	1-1/2	W291P	157032
	2	W292P	157033
	3	W293P	157034
	4	W294P	157035

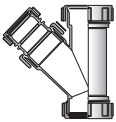
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	1-1/2	W201P	157018
	2	W202P	157019
	3	W203P	157020
	4	W204P	157021

	Dimension Inches	Product Code	
	* 2 x 1-1/2	W2021P	157022
	* 3 x 1/12	W2031P	157065
	* 3 x 2	W2032P	157023
	* 4 x 2	W2042P	157067
	* 4 x 3	W2043P	157068

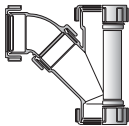
\* Assembled

	Dimension Inches	Product Code	
	1-1/2	W2015P	157061
	2	W2025P	157062
	3	W2035P	157063
	4	W2045P	157064

	Dimension Inches	Product Code	
	1-1/2	W371P	157036
	2	W372P	157037
	3	W373P	157038
	4	W374P	157039

	Dimension Inches	Product Code	
	* 2 x 1-1/2	W3721P	157069
	* 3 x 1/12	W3731P	157073
	* 3 x 2	W3732P	157070
	* 4 x 2	W3742P	157071
	* 4 x 3	W3743P	157072

\* Assembled

	Dimension Inches	Product Code	
	* 1-1/2	W3715P	157074
	* 2	W3725P	157075
	* 3	W3735P	157076
	* 4	W3745P	157077

\* Assembled

All fittings are furnished assembled with Olives and Union Nuts. IPEX components are dimensionally matched; do not install system of mixed brands without our expressed written consent.