

Z-Plate Strainers



Specifications

Operation - The strainer is a vertical Z-plate design to protect cold water meters from the damaging effects of debris and foreign matter. The strainer not only improves the velocity profile of the water being metered, but also minimizes the effects of velocity distortion caused by upstream valves and fittings. Consequently, the meter's accuracy is maximized by the elimination of debris and turbulence.

Construction - The strainer consists of 5 main components; the main case, a removable strainer, a gasket, a removable top cover and stainless steel bolts. The 2" - 4" main case and top plate are bronze and come with a removable drain plug. The 6" - 12" main case and top plate are epoxy coated steel. The plate strainer is 304 stainless steel with a z-configuration to assure an effective open area more than 2 times greater than the water meter case size it precedes. The main case and top cover are assembled with a gasket and stainless steel bolts. All materials are in compliance with NSF / ANSI 61 standards and the safe Drinking Water Act (NSF 372).

Installation - The strainer must be installed upstream from the meter it is protecting. It is recommended that the strainer be installed with the removable top plate vertically accessible for flushing and maintenance.

Applications - Strainers are designed for use in potable cold water up to 120°F with working pressures not to exceed 150 psi. Used in conjunction with RG3 turbine and compound meters will extend the life of the measuring element and as a result maximize revenue.

Maintenance - The Z-strainer can be removed, cleaned or replaced without removing the main case from the service line. In order to remove the Z-strainer, the main case must be isolated from line pressure. After de-pressurizing, simply loosen and remove the bolts, lift the top plate cover and gasket from the main case, and remove the strainer. Proper maintenance should include a regular flushing program. Loosen the top cover bolts to allow internal pressure to lift the full-face gasket and top plate for flushing, without isolating the strainer from line pressure. Simply tighten the top cover to reset the top plate.

Connections - Standard 2" strainers have 2- bolt oval flanged end connections. The 3" strainer has 4-bolt round flanged end connections. The 4" - 12" have round flanged end connections. All end connections are fully compatible to ANSI B 16.1 Class 125 flanges.

Materials

2" - 4" Main Case	Bronze
2" - 4" Top Plate	Bronze
6" - 12" Main Case	Epoxy Coated
6" - 12" Top Plate	Epoxy Coated
Strainer Plate	316 Stainless Steel
Top Plate Gasket	Rubber
Top Plate Bolts	Stainless Steel

RG3 Meter Company

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Size	2"	3"	4"	6"	8"	10"	12"
No. of Flange Bolt Holes	2	4	8	8	8	12	12
No. of Top Plate Bolts	6	8	8	10	18	20	24
Optional Drain Plug (In.)	1/2	3/4	3/4	3/4	3/4	1	1
Operating Pressure P.S.I.	150	150	150	150	150	150	150
Operating Temperature °F	120°	120°	120°	120°	120°	120°	120°
Dimensions & Net Weights							
Weight	11.6	24.4	39.2	62.8	76	100.6	137
Lay Length	7"	6"	7-1/2"	11"	8-15/16"	10"	12"
Width	6"	7-1/2"	9"	14"	13-1/4"	16"	19"
Flange Width	5-7/8"	7-12"	9"	11"	13-1/2"	16"	19"

* Meets or exceeds AWWA standards.

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