



COLD WATER METERS/ WATER METER STRAINERS

SIZES: 1 1/2", 2", 3", 4", 6", 8", 10", 12", 16", and 20"

GENERAL

All strainers furnished shall be manufactured by a registered ISO 9001 quality standard facility. Acceptable strainers shall have a minimum of fifteen (15) years of successful field use. This specification covers 150 psi working pressure plate-type strainers for use with water meters of 1 1/2" through 20" pipe size. The strainer is to be mounted upstream of the meter to prevent debris such as stones or pebbles greater than 3/16" in diameter from entering or damaging the meter.

GENERAL REQUIREMENTS

The strainer shall be designed for minimum weight and pressure loss and shall be in conformance with the data shown below:

Pipe Size (in)	Laying Length (in)	Maximum Height Base to Center of Flange (in)
1 1/2"	7"	2 1/8"
2"	7"	2 1/8"
3"	6"	3 3/4"
4"	7 1/2"	4 1/2"
6"	9"	5 1/2"
8"	10"	6 3/4"
10"	15"	8"
12"	16 7/8"	9 1/2"
16"	24 1/4"	11 3/4"
20"	18 5/8"	13 3/4"

The strainer screen shall be made of perforated AISI Type 18-8 stainless steel plate and be shaped for maximum rigidity against forces exerted by the flow stream.

The effective straining area shall be at least double that of the meter maincase inlet area.

The 1 1/2" and 2" strainers shall be furnished with oval two-bolt flanged connections. Strainers 3" and larger shall be furnished with round flanged connections. Bolt circle, bolt hole diameters, and flange dimensions shall be in compliance with meter connection specifications contained in ANSI/AWWA C701.

The strainer bodies and covers in sizes 1 1/2" through 10" shall be made from NSF/ANSI 61, Annex G and Annex F certified lead free nylon-coated ductile iron or a bronze alloy containing a minimum of 85% copper. The manufacturer's name, strainer pipe size, and direction of flow (if required) shall be cast in raised letters and shall be clearly visible.

Bodies and covers for 12", 16", and 20" strainers shall be epoxy-coated steel. The manufacturer's name, strainer pipe size, and direction of flow (if required) shall be clearly marked on the strainer. Strainers of this size shall be equipped with flush ports.

Cover bolts for the 1 1/2" - 10" sizes shall be made of AISI Type 316 stainless steel.

Cover bolts for the 12" - 20" sizes shall be made of AISI Type 316 stainless steel.

Strainer cover shall be equipped with a vent screw to remove trapped air at installation.

Acceptable strainers shall be Neptune Strainers or approved equal.

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