



A PRODUCT SHEET OF NEPTUNE TECHNOLOGY GROUP

Basket Strainers

SIZES: 3", 4", 6", 8", and 10"

Neptune® strainers are designed and built for long-term, trouble-free performance in water pipeline service. They are UL Listed and FM Approved for installation on fire protection lines and are compatible with all types of meter makes.

Neptune recommends that a strainer be installed with mechanical meters to prevent meter damage and to ensure accurate registration regardless of the configuration of the meter installation. For non-mechanical meters on fire protection lines, it is recommended to install strainers downstream of the meter to ensure peak performance.

Performance

When installed at the inlet of a mechanical meter, the strainer performs two very important functions:

- It provides protection against damage to the turbine meter measuring element from debris or foreign material in the pipeline.
- The stainless steel, plate-type strainer element is designed to improve the velocity profile of the flow stream entering the meter. This velocity profile improvement optimizes turbine meter performance. Good metering practice normally requires 8 to 10 diameters of straight pipe at the meter inlet to minimize velocity profile distortion caused by upstream valves or other fittings. The Neptune strainer reduces this long straight-run requirement and simplifies meter installation.

Construction

Neptune strainers are built of the highest-quality, time-proven materials available for water pipeline service. Strainer bodies and covers in 3" through 10" sizes are available in stainless steel or epoxy-coated ductile iron. Strainer elements and cover bolts in all sizes are stainless steel.

Basket strainers are rated at 175 psi working pressure. Each strainer is hydrostatically tested at 300 psi before shipment to ensure hydraulic integrity.



KEY FEATURES

Fire Service solution available in sizes 3" – 10"

Stainless steel or epoxy-coated ductile iron body ensures durability; chemical and corrosion resistant

NSF/ANSI 61 certified and NSF/ANSI 372 compliant

UL Listed and FM Approved

Low head loss

Stainless steel strainer plate and cover bolts

In-line serviceability

Strainer Specifications

UL Listed and FM Approved

Maximum Operating Water Pressure

- 175 psi

Stainless Steel or Epoxy-Coated

304 Stainless Steel screen element

- Diameter perforation of 0.25"

AWWA Class "D" Flanges

Applications

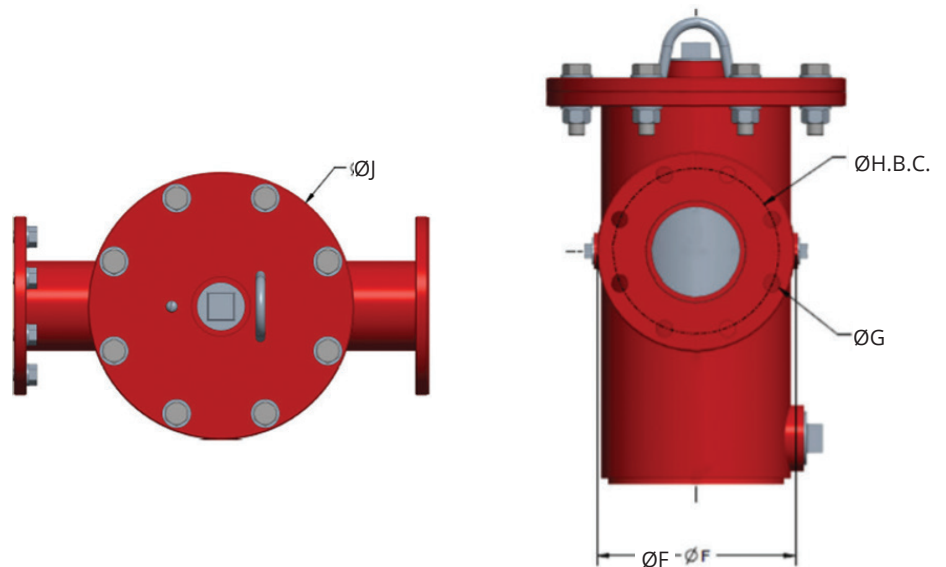
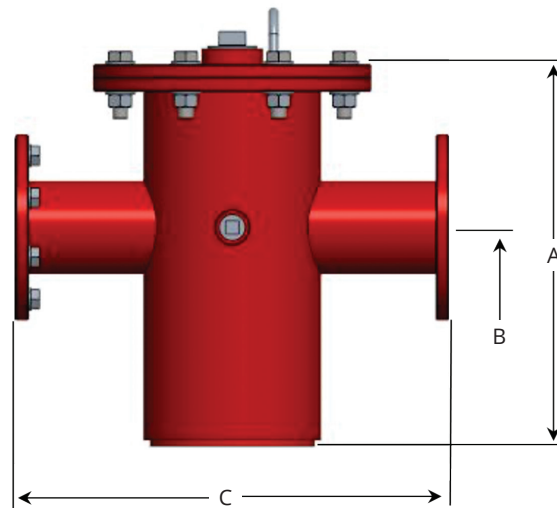
- Potable water
- Fire service

Warranty

Neptune provides a limited warranty for performance, materials, and workmanship. See warranty statement for details.

Dimensions

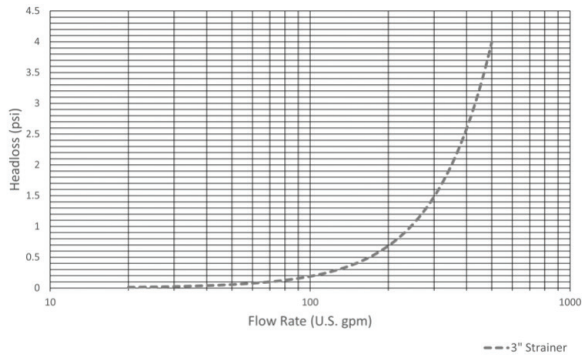
Meter Size	A	B	C	ØF	ØG	ØH.B.C	ØJ	Strainer Weight (lbs)
3"	18.94	10.63	14.12	Ø7.50	Ø.75	Ø6.00	Ø13.50	70
4"	18.94	10.63	18.88	Ø9.00	Ø.75	Ø7.50	Ø13.50	120
6"	20.75	11.06	26.88	Ø11.00	Ø.88	Ø9.50	Ø19.00	232
8"	23.75	11.81	31.31	Ø13.50	Ø.88	Ø11.75	Ø25.00	560
10"	28.12	14.81	30.00	Ø16.00	Ø1.00	Ø14.25	Ø27.50	570



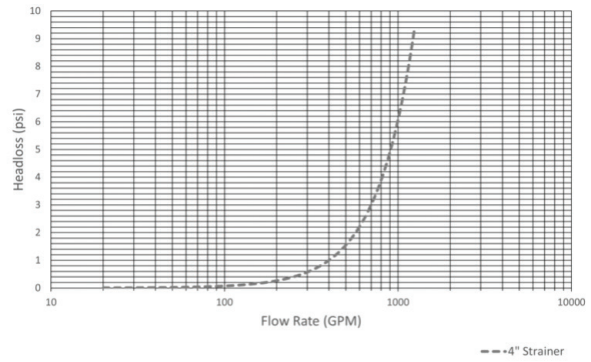
Pressure Loss

The following charts show estimated headloss for each size basket strainer. Individual results may vary.

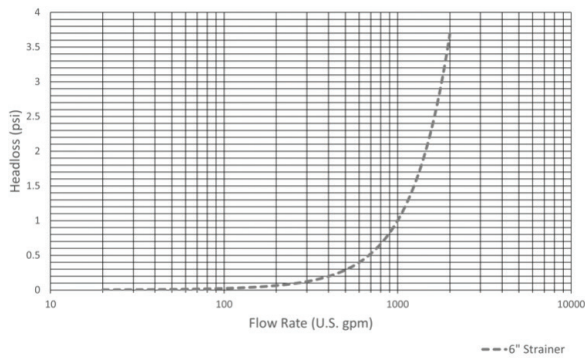
3" Headloss



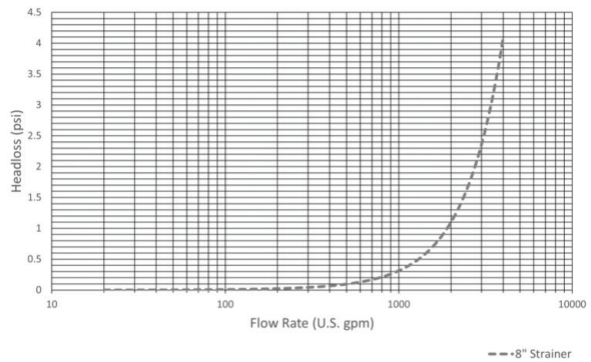
4" Headloss



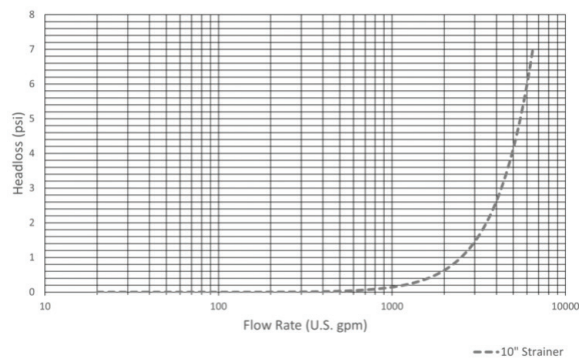
6" Headloss



8" Headloss



10" Headloss



#winyourday
neptunetg.com

Neptune Technology Group
1600 Alabama Highway 229
Tallahassee, AL 36078
800-633-8754 f 334-283-7293