



A PRODUCT SHEET OF NEPTUNE TECHNOLOGY GROUP

# Strainers

SIZES: 1½", 2", 3", 4", 6", 8", 10", 12", 16", and 20"

Neptune® strainers are designed and built for long-term, trouble-free performance in water pipeline service. They are specially designed for installation with HP Turbine or TRU/FLO® compound meters and are compatible with all other makes as well.

Neptune recommends that a strainer be installed with each HP Turbine or TRU/FLO Compound meter to prevent meter damage and to ensure accurate registration regardless of the configuration of the meter installation.

## Performance

When installed at the inlet of a turbine or compound 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 1½" through 10" sizes are made of lead free, high-copper alloy or Rilsan® nylon-coated ductile iron; the 12", 16", and 20" are epoxy-coated steel. Strainer elements and cover bolts in all sizes are stainless steel.

Neptune strainers are rated at 150 psi working pressure. Each strainer is hydrostatically tested at 300 psi before shipment to ensure hydraulic integrity.

## Warranty

Neptune provides a limited warranty with respect to its strainers for performance, materials, and workmanship. For owner maintenance purposes, Neptune offers a complete inventory of replacement parts. When required, maintenance is easily accomplished without removing the strainer from the service line.



## KEY FEATURES

Lead free, high-copper alloy or Rilsan nylon-coated ductile iron\* body ensures durability; chemical and corrosion resistant

NSF/ANSI 61 certified and NSF/ANSI 372 compliant†

Low head loss

Stainless steel strainer plate and cover bolts

Height to center line matches Neptune HP Turbines for easy installation

In-line serviceability

\*12", 16", and 20" are epoxy-coated steel  
†1½" through 10" sizes only

## Dimensions

Meter Size	A in/mm	B in/mm	C in/mm	D in/mm	E in/mm	F in/mm	No. of Holes	Hole Dia. in/mm	Weight lbs/kg
1 1/2"	7 178	6 152	5 1/4 133	2 1/8 54	4 1/2 114	3/4 19	2	3/4 19	15 6.8
2"	7 178	6 152	5 1/4 133	2 1/8 54	4 1/2 114	3/4 19	2	3/4 19	15 6.8
3"	6 152	8 1/2 216	8 3/4 222	3 3/4 95	6 152	5/8 16	4	3/4 19	30 13.6
4"	7 1/2 191	9 3/4 248	10 1/2 267	4 1/2 114	7 1/2 191	1 1/16 17	8	3/4 19	42 19.0
6"	9 229	11 3/4 298	11 1/2 292	5 1/2 140	9 1/2 241	7/8 22	8	7/8 22	70 31.8
8"	10 254	14 356	13 1/2 343	6 3/4 171	11 3/4 298	1 1/8 29	8	7/8 22	120 54.5
10"	15 381	18 1/4 464	18 1/4 464	8 203	14 1/4 362	1 3/16 30	12	1 25	160 72.6
12"	16 7/8 429	18 7/8 479	20 1/2 521	9 1/2 241	17 432	1 3/16 21	12	1 25	180 81.6
16"	25 1/4 641	28 711	20 3/4 527	11 3/4 299	21 3/4 540	1 25	16	1 1/4 29	240 108.8
20"	18 3/8 473	28 711	26 1/8 664	13 3/4 349	25 635	1 1/8 29	20	1 1/4 29	300 136.0

## Options

Rilsan nylon-coated ductile iron

Lead free, high-copper alloy

### Maximum Operating Pressure

150 psi

### Part Numbers

Lead Free, High-Copper Alloy

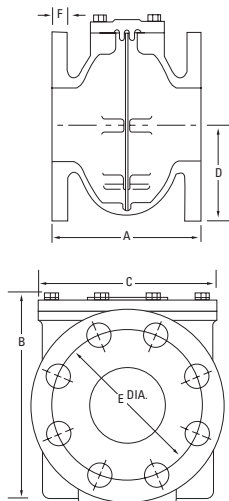
- 1 1/2" 53145-000
- 2" 53120-000
- 3" 53107-000
- 4" 53107-100
- 6" 52000-201
- 8" 52000-304
- 10" 52000-402

Lead Free, Rilsan Nylon-Coated Ductile Iron

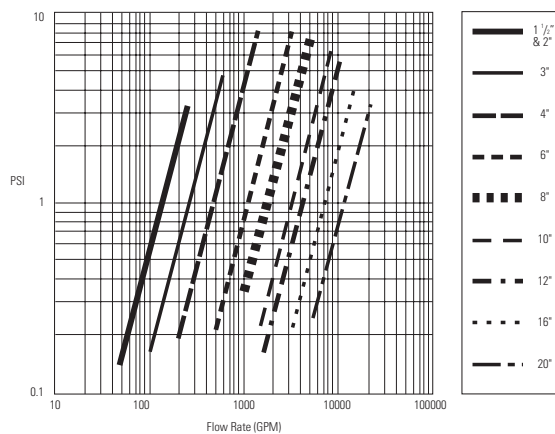
- 1 1/2" 53145-100
- 2" 53120-600
- 3" 53107-600
- 4" 53107-700
- 6" 52000-601
- 8" 52000-704
- 10" 52000-802

Epoxy-Coated Steel

- 12" 12790-000
- 16" 12790-100
- 20" 12790-200



## Pressure Loss



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