



# STRAINERS

SIZES: 1 1/2", 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.

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.

Neptune strainers are built of the highest-quality, time-proven materials available for water pipeline service. Strainer bodies and covers in 1/2" 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.

- 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  
†1 1/2" through 10" sizes only*

**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.

- OPTIONS**
- Rilsan nylon-coated ductile iron
  - Lead free, high-copper alloy

- MAXIMUM OPERATING PRESSURE**
- 150 psi

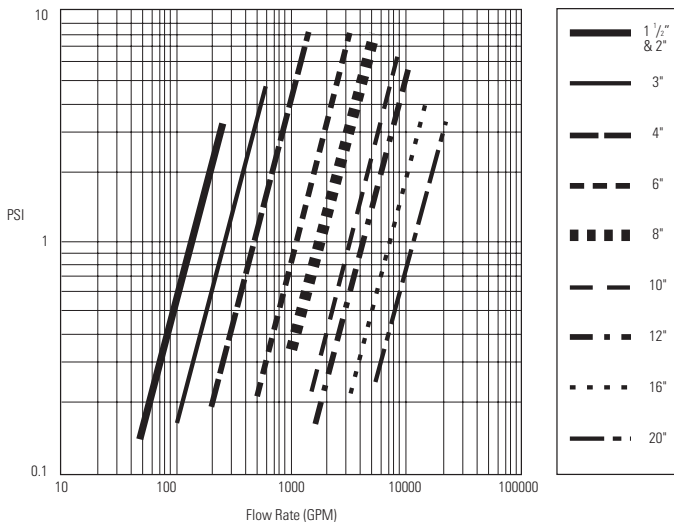
PERFORMANCE

CONSTRUCTION

**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	195 88.4
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 1/4 540	1 25	16	1 1/4 29	240 108.8
20"	18 5/8 473	28 711	26 1/8 664	13 3/4 349	25 635	1 1/8 29	20	1 1/4 29	300 136.0

**PRESSURE LOSS**



■ 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

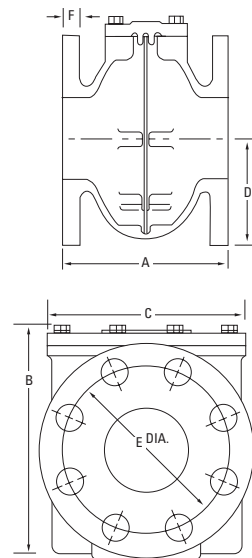
■ Lead Free, Rilsan Nylon-Coated Ductile Iron

- 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

PART NUMBERS



Neptune engages in ongoing research and development to improve and enhance its products. Therefore, Neptune reserves the right to change product or system specifications without notice.

Neptune Technology Group Inc.  
1600 Alabama Highway 229  
Tallahassee, AL 36078  
USA  
Tel: (800) 633-8754  
Fax: (334) 283-7293

Neptune Technology Group (Canada) Ltd.  
7275 West Credit Avenue  
Mississauga, Ontario  
L5N 5M9  
Canada  
Tel: (905) 858-4211  
Fax: (905) 858-0428

Neptune Technology Group Inc.  
Avenida Ejercito Nacional No 418  
Piso 12, Despacho 1203  
Colonia Polanco V Sección  
C.P. 11560  
Delegación, Miguel Hidalgo  
Mexico D.F.  
Tel: (525) 5203-4032 / (525) 5203-6204  
(525) 5203-5294  
Fax: (525) 5203-6503

