

MODEL 728 T-STRAINER

The **Shurjoint** Model 728 grooved-end T-strainers are used to remove foreign matter from pipe lines and provide inexpensive protections to pumps, meters, valves, etc. The Model 728 strainers are designed for applications where easy maintenance and large capacity of straining are needed including drinking water, cooling water, irrigation, sea water, etc. The strainer is made of 316 stainless steel mesh fringed with a durable stainless steel frame. The standard screen is mesh 12 for 2 ½" to 3" sizes and mesh 6 for 4" to 14" . .



The strainer shall be cleaned periodically or before the differential pressure reaches 10 psi

Features:

- The streamline design provides lower pressure drop
- Easy installation with two mechanical couplings
- Easy removal and reinstallation of the screen by removing the two bolts and nuts of the coupling and end-cap (three bolts and nuts for 14").
- Good for horizontal or vertical installations.
- Easy access to the screen from above or side-ways
- More space-saving than the Y type strainers

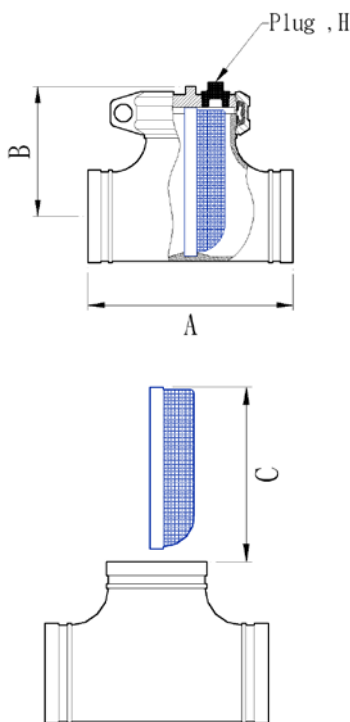
Pressure-Temperature Rating

Nom. Rating	Working Pressure	Max. Service Temperature
Class 150	300 psi @100°F 20 Bar @38°C	EPDM: 230°F / 110°C Nitrile: 180°F / 82°C

*Working pressure is based on connection with roll- or cut-grooved standard wall carbon steel pipe.

*Shell test, 1.5 times the working pressure, is the proof test pressure.

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Model 728 T-Strainer							
Nominal Size	Pipe O. D.	Max. Working Pressure	Dimensions			H (Drain Plug)	Approx. Weight
			A	B	C		
mm	mm	Bar	mm	mm	mm	mm	Kgs
in	in	psi	in	in	in	in	Lbs
50	60.3	20	166	120	125	15	3.0
2	2.375	300	6.54	4.72	4.92	½	6.6
65	73.0	20	191	132	142	15	4.0
2½	2.875	300	7.50	5.19	5.59	½	8.8
80	88.9	20	216	146	164	15	6.0
3	3.500	300	8.50	5.74	6.45	½	13.2
100	114.3	20	254	165	190	25	8.0
4	4.500	300	10.00	6.49	7.48	1	17.7
125	141.3	20	279	190	218	25	13.0
5	5.563	300	11.00	7.48	8.58	1	28.6
150	168.3	20	330	212	260	25	20.0
6	6.625	300	13.00	8.34	10.23	1	44.0
200	219.1	20	394	253	320	40	35.0
8	8.625	300	15.50	9.96	12.60	1½	77.0
250	273.0	20	457	284	380	40	52.0
10	10.750	300	18.00	11.18	14.96	1½	114.6
300	323.9	20	508	309	430	40	72.7
12	12.750	300	20.00	12.16	16.92	1½	160.25
350	355.6	20	559	451	540	40	84.5
14	14.000	300	22.00	17.75	21.25	1½	186.29

Flow Data – C_v Values

Values for flow of water at +60°F (+16°C).

$$C_v = \frac{Q}{\sqrt{\Delta P}}$$

Where: C_v = Flow coefficient
Q = Flow (GPM)
ΔP = Pressure drop (psi)

Model #728 T-Strainer C _v Values	
Nominal Size mm / in	C _v Values
50 2	190
65 2½	230
80 3	290
100 4	425
125 5	685
150 6	950
200 8	2108
250 10	2683
300 12	3872
350 14	5050

MATERIAL SPECIFICATIONS

- **Body, End-Cap and Coupling Segments:**

Ductile Iron ASTM A536, Gr. 65-45-12 and or to ASTM A395 Gr. 65-45-15, min. tensile strength: 65,000 psi (448MPa).

- **Surface Finish:**

Epoxy coated in red RAL3000 or other colors.

- **Screen:**

316 stainless steel
 304 stainless steel (option)
 Mesh 12 (0.020" wire) for 2 ½" to 3"
 Mesh 6 (0.041" wire) for 4" to 14"

- **Rubber Gasket:**

Grade "E" EPDM (Color code: Green stripe) Good for cold & hot water up to +230°F (+110°C). Also good for services for water with acid, water with chlorine, deionized water, seawater and waste water, dilute acids, oil-free air and many chemicals. **Not recommended for petroleum oils, minerals oils, solvents and aromatic hydrocarbons.**
 Maximum Temperature Range: -30°F (-34°C) to +230°F (+110°C).

- **Bolts & Nuts:**

Heat-treated carbon manganese steel track bolts to ASTM A449-83a (or A183 Gr. 2), minimum tensile strength 758 Mpa (110,000 psi), Zinc electroplated, with heavy-duty hexagonal nuts to ASTM A563.

General Notes:

- Pressure ratings listed are CWP (cold water pressure) or maximum working pressure within the service temperature range of the gasket used in the coupling. For additional information contact **Shurjoint**.
- Maximum working pressures and end loads listed are total of internal and external pressures and loads based on Sch. 40 steel pipe with roll grooves to ANSI/AWWA C606-07 specifications. For information on other pipe schedules contact **Shurjoint**.
- **For one time field test only** the maximum joint working pressure may be increased 1½ times the figures shown.
- **Warning:** Piping systems must always be depressurized and drained before attempting disassembly and or removal of any components.
- **Shurjoint** reserves the right to change specifications, designs and or standard equipment without notice and without incurring any obligations.

Job Name:	System No.	Location:
Contractor:	Approved:	Date:
Engineer:	Approved:	Date:

Shurjoint product specifications in U.S. customary units and metric are approximate and are provided for reference only. For precise measurements, please contact **Shurjoint** Technical Service. **Shurjoint** reserves the right to change or modify product design, construction, specifications, or materials without prior notice and without incurring any obligations to make such changes and modifications on **Shurjoint** products previously subsequently sold.