

MODEL 728 T-STRAINER

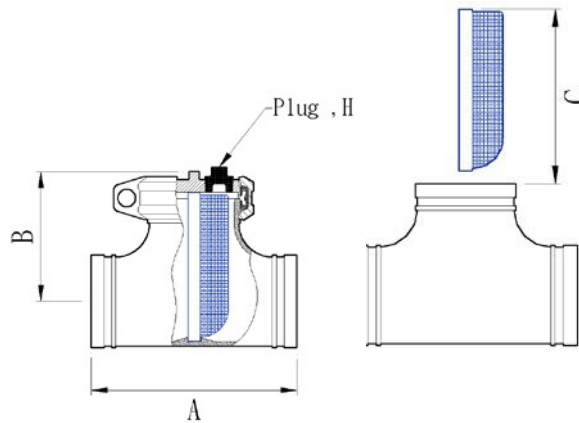
The **Shurjoint** Model 728 grooved-end T-strainers are used to remove foreign matter from pipe lines and provide inexpensive protections to pumps, meters, valves, etc. The Model 728 strainers are designed for applications where easy maintenance and large capacity of straining are needed including drinking water, cooling water, irrigation, sea water, etc. The strainer installs with two **Shurjoint** couplings, and is rated up to 750 psi (52 Bar) depending upon the installed coupling's pressure rating and size. The strainer is made of 316 stainless steel mesh fringed with a durable stainless steel frame. The standard screen is mesh 12 for 2½" 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



Full warranty terms can be found on www.shurjoint.com

Model 728 T-Strainer								
Nominal Size	Pipe O.D.	Max. Working Pressure (CWP)*	Dimensions					Weight
			A	B	C	H (Drain Plug)		
in	in	PSI	in	in	in	in	Lbs	
mm	mm	Bar	mm	mm	mm	mm	Kgs	
2	2.375	750	6.54	4.72	4.92	½	6.6	
50	60.3	52	166	120	125	15	3.0	
2½	2.875	750	7.50	5.19	5.59	½	8.8	
65	73.0	52	191	132	142	15	4.0	
3	3.500	750	8.50	5.74	6.45	½	13.2	
80	88.9	52	216	146	164	15	6.0	
4	4.500	750	10.00	6.49	7.48	1	17.7	
100	114.3	52	254	165	190	25	8.0	
5	5.563	750	11.00	7.48	8.58	1	28.6	
125	141.3	52	279	190	218	25	13.0	
6	6.625	700	13.00	8.34	10.23	1	44.0	
150	168.3	48	330	212	260	25	20.0	
8	8.625	600	15.50	9.96	12.60	1½	77.0	
200	219.1	42	394	253	320	40	35.0	

Nominal Size	Pipe O.D.	Max. Working Pressure (CWP)*	Dimensions				H (Drain Plug)	Weight
			A	B	C			
in mm	in mm	PSI Bar	in mm	in mm	in mm	in mm	Lbs Kgs	
10 250	10.750 273.0	500 35	18.00 457	11.18 284	14.96 380	1½ 40	114.6 52.0	
12 300	12.750 323.9	400 28	20.00 508	12.16 309	16.92 430	1½ 40	160.3 72.7	
14 350	14.000 355.6	250 17	22.00 559	17.75 451	21.25 540	1½ 40	186.3 84.5	

- * 1) Working pressure is based on connection with roll- or cut-grooved standard wall carbon steel pipe.
- 2) Working pressure is maximum based on **Shurjoint** Model Z07 access coupling and will be governed by couplings used for installation and related system components. Maximum differential pressure from inlet to outlet must not exceed 10 psi (0.69 Bar).
- 3) Working pressure is dependent upon the **Shurjoint** coupling used to join Model 728 to the piping system.

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 in / mm	C _v Values
2 50	190
2½ 65	230
3 80	290
4 100	425
5 125	685
6 150	950
8 200	2108
10 250	2683
12 300	3872
14 350	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 (448 MPa).

• Surface Finish:

Orange color painted or red RAL3000 color painted.
 Epoxy coated in red RAL3000 or other colors. (option)

• Screen:

316 stainless steel
 304 stainless steel (option)
 Mesh 12 (0.020" wire) for 2½" 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)*.

*EPDM gaskets for water services are not recommended for steam services unless couplings or components are accessible for frequent gasket replacement.

• Bolts & Nuts:

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

General Notes:

- **Maximum Working Pressure (CWP)** listed is the maximum cold water pressure for general piping services tested to ASTM F1476 and or AWWA C606 methods. Figures listed are based on roll- or cut-grooved standard wall carbon steel pipe. For other pipe schedules or pipe materials, contact **Shurjoint** for additional information.
- **Field Joint Test:** For one time only the system may be tested hydrostatically at 1½ times the maximum working pressure listed (AWWA C606 5.2.3).
- **Warning:** Piping systems must always be depressurized and drained before attempting disassembly and or removal of any components.
- **The 10 Year Limited Warranty** applies to manufacturing defects only and does not cover severe service/temperature applications or wear parts.
- **Shurjoint** reserves the right to change specifications, designs and or standard without notice and without incurring any obligations.

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.