



Grinnell Mechanical Products

Figure S853

“Y” Strainer

General Description

The Figure S853 “Y” Strainer provides economical strainer protection for piping equipment such as pumps, meters, valves, compressors, traps and similar equipment. The inlet and outlet ends are suitable for installation with Figure 705, 707 and 772 couplings.

The Figure S853 “Y” Strainer has a standard screen, which is perforated 304 Stainless Steel with other alloys available.

All covers have an NPT blow-off outlet at location “C” (pipe plugs not included). A recessed seat in the cover ensures screen alignment.

Self cleaning is done by opening the valve (not supplied) connected to the blow-off outlet. Advise when ordering strainers that are to be mounted in vertical piping so that the cover will be rotated to position the blow-off at the lowest point.

WARNING

The Figure S853 “Y” Strainer described herein must be installed and maintained in compliance with this document, in addition to the standards of any other authorities having jurisdiction. Failure to do so may impair the performance of this device.

The owner is responsible for maintaining their system and devices in proper operating condition. The installing contractor or manufacturer should be contacted with any questions.

Technical Data

Sizes- Inches / DN
2 to 12 / DN65 to DN200

Maximum Working Pressure
640 psi (44,1 bar) at 100°F (38°C)

Body and Cover
Ductile iron conforming to
ASTM A-536, Grade 65-45-12

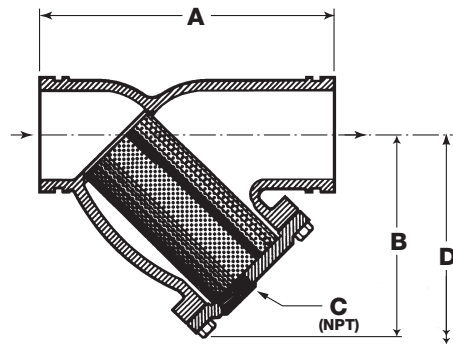
Screen
Type 304 Stainless Steel ASTM A-240
Standard perforations are listed below:

Perforations
2” - 4” (DN50 - DN100) - 1/16” (1,6mm)
5” - 12” (DN125 - DN300) - 1/8” (3,2mm)

Gasket
Non-Asbestos

Finish
Black paint

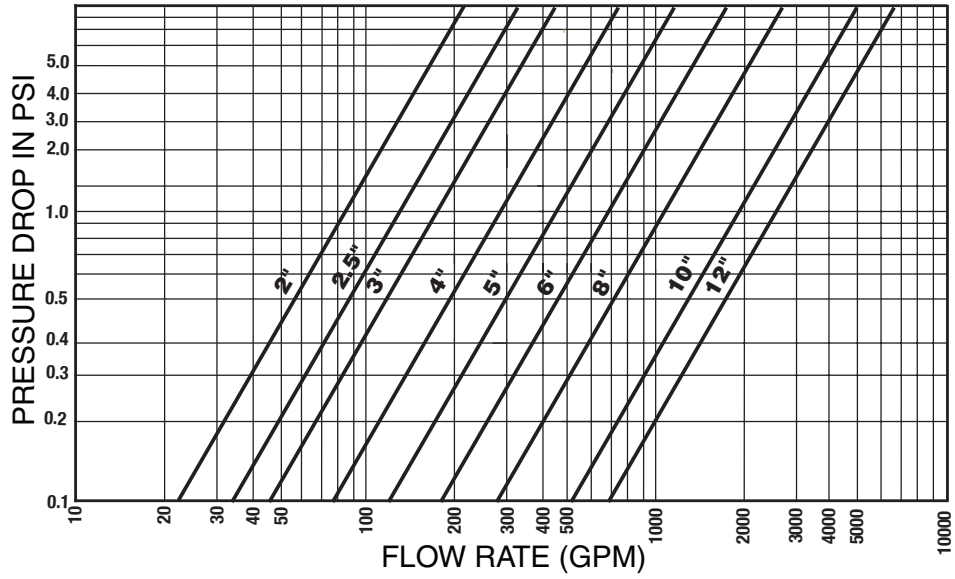




Nominal Pipe Size		Nominal Dimensions- Inches (mm)				Approx. Weight Lbs./ (kg)
ANSI Inches DN	O.D. Inches (mm)	A	B	C*	D Screen Removal	
2 DN50	2.375 (60,3)	7.88 (200,2)	5.25 (133,4)	0.50 (12,7)	7.00 (177,8)	12.0 (5,4)
2½ DN65	2.875 (73,0)	10.00 (254,0)	6.50 (165,1)	1.00 (25,4)	9.75 (247,7)	18.0 (8,2)
3 DN80	3.500 (88,9)	10.13 (257,3)	7.00 (177,8)	1.00 (25,4)	10.00 (254,0)	23.0 (10,4)
4 DN100	4.500 (114,3)	12.13 (308,1)	8.25 209.6	1.50 (38,1)	12.00 (304,8)	42.0 (19,1)
5 DN125	5.563 (141,3)	15.63 (397,0)	11.25 (285,8)	2.00 (50,8)	17.00 (431,8)	80.0 (36,3)
6 DN150	6.625 (168,3)	18.50 (469,9)	13.50 (342,9)	2.00 (50,8)	20.00 (508,0)	112.0 (50,8)
8 DN200	8.625 (219,1)	21.63 (549,4)	15.50 (393,7)	2.00 (50,8)	22.75 (577,9)	205.0 (93,0)
10 DN250	10.750 (273,1)	29.13 (739,8)	21.00 (533,4)	2.00 (50,8)	30.50 (774,7)	277.0 (125,6)
12 DN300	12.750 (323,9)	33.75 (857,3)	25.00 (635,0)	2.00 (50,8)	35.50 (901,7)	470.0 (213,2)

* Blow-off outlet threads conforming to ISO 7-1 are available upon request.
Contact Tyco Fire & Building Products.

FIGURE 1
NOMINAL DIMENSIONS
FIGURE S853 "Y" STRAINER



Note: It is good piping practice to apply a safety factor of 15% to 20% to the values in the above table for design purposes.

FIGURE 2
FIGURE S853 "Y" STRAINER PRESSURE LOSS DATA

Limited Warranty

Products manufactured by Tyco Fire & Building Products (TFBP) are warranted solely to the original Buyer for ten (10) years against defects in material and workmanship when paid for and properly installed and maintained under normal use and service. This warranty will expire ten (10) years from date of shipment by TFBP. No warranty is given for products or components manufactured by companies not affiliated by ownership with TFBP or for products and components which have been subject to misuse, improper installation or maintenance, corrosion, or other external sources of damage. Materials found by TFBP to be defective shall be either repaired or replaced, at TFBP's sole option. TFBP neither assumes, nor authorizes any person to assume for it, any other obligation in connection with the sale of products or parts of products. TFBP shall not be responsible for system design errors or inaccurate or incomplete information supplied by Buyer or Buyer's representatives.

In no event shall TFBP be liable, in contract, tort, strict liability or under any other legal theory, for incidental, indirect, special or consequential damages, including but not limited to labor charges, regardless of whether TFBP was informed about the possibility of such damages, and in no event shall TFBP's liability exceed an amount equal to the sales price.

The foregoing warranty is made in lieu of any and all other warranties, express or implied, including warranties of merchantability and fitness for a particular purpose.

This limited warranty sets forth the exclusive remedy for claims based on failure of or defect in products, materials or components, whether the claim is made in contract, tort, strict liability or any other legal theory.

This warranty will apply to the full extent permitted by law. The invalidity, in whole or part, of any portion of this warranty will not affect the remainder.

Ordering Procedure

When placing an order, indicate the full product name. Please specify the quantity, figure number, screen material and size.

Grinnell Mechanical Products, valves, accessories and other products are available throughout the U.S., Canada, and internationally, through a network of distribution centers. You may write directly or call 215-362-0700 for the distributor nearest you.

General Notes: It is the Designer's responsibility to select products suitable for the intended service and to ensure that pressure ratings and performance data are not exceeded. Always read and understand the installation instructions (IH-1000). Never remove any piping component or correct or modify any piping deficiencies without first depressurizing and draining the system. Material and gasket selection should be verified to be compatible for the specific application.



Certified Company