

Engineering Specification

Job Name _____

Contractor _____

Job Location _____

Approval _____

Engineer _____

Contractor's P.O. No. _____

Approval _____

Representative _____

Fabricated Steel Plate Strainer

843H, Class 150
4" – 20"

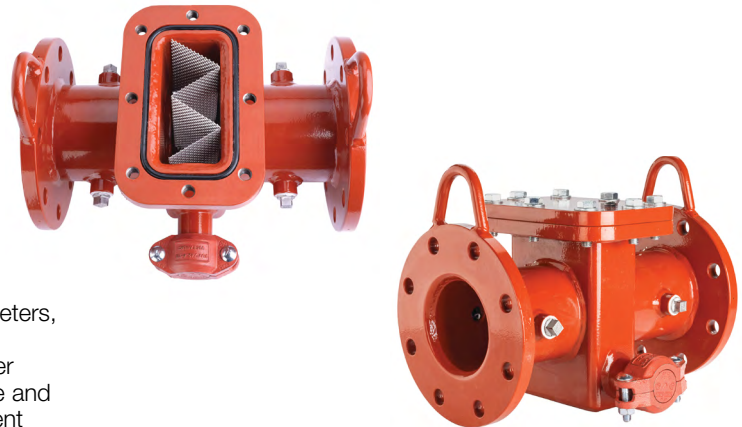
Strainers provide economical protection for costly pumps, meters, valves, and other similar mechanical equipment by straining foreign matter from the piping system. Installation of a strainer before mechanical equipment can ensure trouble free service and avoid costly shutdowns for repair or replacement of equipment damaged by debris.

The 843H plate strainers are ideal for preventing debris and particle buildup in Watts Automatic Control Valves. The plate style strainer promotes ease of maintenance requiring only the cover removal for servicing. Installation with the cover up is recommended for ease of maintenance.

This strainer is armed with ArmorTek®, a patented 3-part advanced epoxy coating system designed to limit both microbial induced (MIC) and exposed metal substrate corrosion.

Features

- Designed for low pressure drop applications.
- Grooved cleanout ports are located on both sides of the strainer for easy strainer maintenance.
- Optional accessories that can be added to the 843H strainer include manual differential pressure gauge or ACV Assure Pressure Monitoring System.
- ArmorTek® coating technology to resist corrosion of internals.



Model 843H

Call customer service if you need assistance with technical details.

| PRESSURE/TEMPERATURE–NON-SHOCK | | | |
|--------------------------------|------------|-------------------------|---|
| Model | ANSI Class | Pressure Rating at 70°F | Continuous Operating Temperature Rating |
| 843H | 150 | 175 psi | 160°F |

Materials

| | |
|--------------------|---------------------------------|
| Strainer Housing | Coated Carbon Steel |
| Housing Cover | Coated Carbon Steel |
| Housing Cover Seal | Buna-N O-Ring |
| Strainer Screen | 304 Stainless Steel (5/32"Perf) |
| Housing Bolts | Carbon Steel (Zinc Plated) |



NOTICE

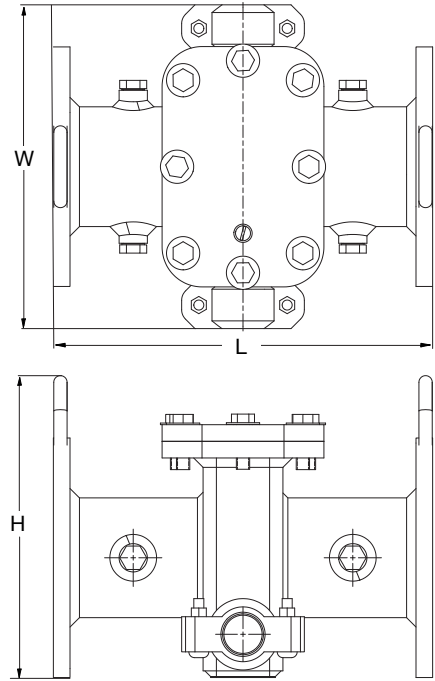
The information contained herein is not intended to replace the full product installation and safety information available or the experience of a trained product installer. You are required to thoroughly read all installation instructions and product safety information before beginning the installation of this product.

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



Dimensions and Weights

| Size | ANSI Class | L (in) | W (in) | H (in) | Cleanout Ports (groove) | Inlet/Outlet Port (NPT) | Approx. Weight (lbs) |
|------|------------|--------|--------|--------|-------------------------|-------------------------|----------------------|
| 4 | 150 | 11.8 | 12.2 | 11.3 | 1-1/4" | 1/2" | 58 |
| 6 | 150 | 15.8 | 12.5 | 13.3 | 1-1/4" | 1/2" | 85 |
| 8 | 150 | 19.7 | 14.5 | 16.2 | 2" | 1/2" | 114 |
| 10 | 150 | 22.8 | 16.6 | 18.7 | 2" | 1/2" | 163 |
| 12 | 150 | 24 | 20.2 | 21.7 | 2" | 1/2" | 244 |
| 16 | 150 | 31.5 | 23.5 | 26 | 2" | 1/2" | 447 |
| 20 | 150 | 37.4 | 28.5 | 30.2 | 2" | 1/2" | 714 |



| Velocity (fps) | 4" | | 6" | | 8" | | 10" | | 12" | | 16" | | 20" | |
|----------------|-------|------|---------|------|---------|------|---------|------|---------|------|---------|------|----------|------|
| | Flow | DP | Flow | DP | Flow | DP | Flow | DP | Flow | DP | Flow | DP | Flow | DP |
| 0 | 0.0 | 0 | - | 0 | - | 0 | - | 0 | - | 0 | - | 0 | - | 0 |
| 1 | 39.7 | 0.01 | 90.1 | 0.01 | 156.0 | 0.01 | 245.8 | 0.01 | 349.0 | 0.01 | 550.9 | 0.01 | 866.5 | 0.01 |
| 2 | 79.4 | 0.03 | 180.1 | 0.03 | 311.9 | 0.03 | 491.7 | 0.03 | 697.9 | 0.03 | 1,101.9 | 0.03 | 1,733.1 | 0.03 |
| 3 | 119.1 | 0.07 | 270.2 | 0.07 | 467.9 | 0.07 | 737.5 | 0.07 | 1,046.9 | 0.07 | 1,652.8 | 0.07 | 2,599.6 | 0.07 |
| 4 | 158.8 | 0.13 | 360.3 | 0.13 | 623.9 | 0.13 | 983.4 | 0.13 | 1,395.8 | 0.13 | 2,203.7 | 0.13 | 3,466.1 | 0.13 |
| 5 | 198.4 | 0.21 | 450.3 | 0.21 | 779.8 | 0.21 | 1,229.2 | 0.21 | 1,744.8 | 0.21 | 2,754.7 | 0.21 | 4,332.7 | 0.21 |
| 6 | 238.1 | 0.30 | 540.4 | 0.30 | 935.8 | 0.30 | 1,475.0 | 0.30 | 2,093.8 | 0.30 | 3,305.6 | 0.30 | 5,199.2 | 0.30 |
| 7 | 277.8 | 0.42 | 630.5 | 0.42 | 1,091.8 | 0.42 | 1,720.9 | 0.42 | 2,442.7 | 0.42 | 3,856.5 | 0.42 | 6,065.7 | 0.42 |
| 8 | 317.5 | 0.55 | 720.6 | 0.55 | 1,247.7 | 0.55 | 1,966.7 | 0.55 | 2,791.7 | 0.55 | 4,407.4 | 0.55 | 6,932.2 | 0.55 |
| 9 | 357.2 | 0.70 | 810.6 | 0.70 | 1,403.7 | 0.70 | 2,212.5 | 0.70 | 3,140.7 | 0.70 | 4,958.4 | 0.70 | 7,798.8 | 0.70 |
| 10 | 396.9 | 0.87 | 900.7 | 0.87 | 1,559.7 | 0.87 | 2,458.4 | 0.87 | 3,489.6 | 0.87 | 5,509.3 | 0.87 | 8,665.3 | 0.87 |
| 11 | 436.6 | 1.05 | 990.8 | 1.05 | 1,715.6 | 1.05 | 2,704.2 | 1.05 | 3,838.6 | 1.05 | 6,060.2 | 1.05 | 9,531.8 | 1.05 |
| 12 | 476.3 | 1.26 | 1,080.8 | 1.26 | 1,871.6 | 1.26 | 2,950.1 | 1.26 | 4,187.5 | 1.26 | 6,611.2 | 1.26 | 10,398.4 | 1.26 |
| 13 | 515.9 | 1.48 | 1,170.9 | 1.48 | 2,027.6 | 1.48 | 3,195.9 | 1.48 | 4,536.5 | 1.48 | 7,162.1 | 1.48 | 11,264.9 | 1.48 |
| 14 | 555.6 | 1.72 | 1,261.0 | 1.72 | 2,183.5 | 1.72 | 3,441.7 | 1.72 | 4,885.5 | 1.72 | 7,713.0 | 1.72 | 12,131.4 | 1.72 |
| 15 | 595.3 | 1.98 | 1,351.0 | 1.98 | 2,339.5 | 1.98 | 3,687.6 | 1.98 | 5,234.4 | 1.98 | 8,264.0 | 1.98 | 12,998.0 | 1.98 |

