



The Thompson Strainer is a unique, yet brilliantly simple product, used in a variety of applications to remove particles from water and other liquids.

Available in Type 304 and Type 316 stainless steel construction, the patented design features a large conical screen element with substantially more surface area compared to traditional strainers on the market.

You can select the screen that meets your needs. A large variety of screen options are available, ranging from large perforated hole-openings down to 250-mesh (approximately 50-micron).

The Thompson Strainer's internal flow patterns force heavy particles down to the large reservoir at the base of the strainer. The particles are then purged from the strainer via the flush port, either manually, or automatically with the optional **Automatic Timer Flush Package (ATF-EA-1.5)**.....



The Thompson Strainer is exceptionally efficient; all models operate with less than a 1 PSI pressure loss at maximum flow, when clean. Strainer housings come standard with two gauge ports, allowing maintenance personnel to monitor the differential pressure across the internal screen. The optional **Pressure Differential Alarm Package (PDA)** will alert maintenance personnel if the conical screen needs to be removed for manual cleaning.



At Miller-Leaman, we take pride in innovation and workmanship. Efficient, clean design. Highly polished stainless. Rigorously tested welds. Technically adept customer service technicians. Superior technology and made in the USA.

- FLUSH PARTICLES ON-LINE, VIA BOTTOM FLUSH PORT
- GREATER SCREEN SURFACE AREA, REDUCES MAINTENANCE
- LESS THAN 1 PSI PRESSURE LOSS, MINIMIZING SYSTEM OPERATING COSTS
- SIMPLE DESIGN, NO MOVING PARTS
- SPACE SAVING PROFILE TO FIT TIGHT SPACES
- HIGH QUALITY STAINLESS STEEL CONSTRUCTION

**TYPICAL APPLICATIONS INCLUDE:**

- Cooling Tower / Chilled Water
- Well Water / Surface Water
- Process Water
- Wastewater / Reclaim Water / Municipal Water
- Mining Applications
- Chemical Processing
- Food / Beverage Applications (Sanitary Design)
- Spray Nozzle Protection
- Marine (Seawater)
- Agricultural Applications (Irrigation / Liquid Fertilizer)

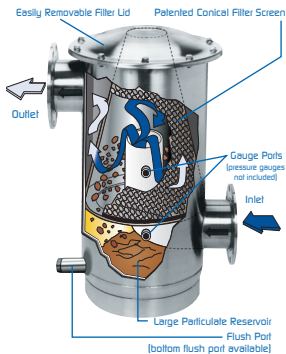
simply better

The shape and size of the conical screen are what make the Thompson Strainer more functionally efficient than the competition.

As water enters the bottom of the strainer housing and flows upward, heavier debris and particulate is accelerated downward, away from the conical screen, into the sizable reservoir at the base of the strainer. The particulate is then flushed from the reservoir, under pressure, via the 1/2" flush port, without interrupting downstream flow. The top lid of the strainer is easily removed if the internal screen requires manual cleaning.

Due to the non-tortuous flow path through the strainer, in combination with the generous amount of surface area on the conical screens, all models operate with less than a 1 PSI pressure drop.

The Thompson Strainer can be customized to fit your specific needs.



#### CONSTRUCTION MATERIALS

##### Housing & Internal Piping:

- Type 304 Stainless Steel (Type 316 is optional)
- 4"-10" models come standard with internal PVC elbow and riser pipe assembly; stainless steel internal piping is available by special order.

##### Internal Conical Screen Elements:

- Screen Support Frames:
- Type 304 Stainless Steel (Type 316 is optional)
- Screen Mesh:
- Type 316 Stainless Steel is standard

##### Gaskets:

- EPDM is standard; other compounds are available by special order

##### Lid Fasteners:

- Clamp Lid Models:
- Clamp is type 304 stainless steel
- Bolted Lid Models:
- Grade 5 bolts/nuts; zinc plated washers

#### SCREEN SIZES AVAILABLE

##### Mesh Options:

- 16, 20, 30, 40, 50, 60, 80, 100, 120, 150, 200
- 24x110", 30x150", 40x200", 50x250"

\*Heavy-duty Dutch-weave screens (lower open area %)

##### Perforated Options:

- 1/4", 1/8", 1/16"

Other mesh and perforated options available by special order

Model #	Inlet/Outlet Size & Type	Max Flow* (GPM)	Max Pressure Rating***	Lid Closure Type	Gauge Ports****	Flush Port****
MLS-2	2"/NPT	100 GPM	125 PSI	CLAMP	1/4" FPT	1/2" NPT
MLS-3	3"/NPT	200 GPM	125 PSI	CLAMP	1/4" FPT	1/2" NPT
MLS-4C	4"/FLANGED	350 GPM	125 PSI	CLAMP	1/4" FPT	1/2" NPT
MLS-4B	4"/FLANGED	350 GPM	150 PSI	BOLTED	1/4" FPT	1/2" NPT
MLS-6	6"/FLANGED	750 GPM	150 PSI	BOLTED	1/4" FPT	1/2" NPT
MLS-8	8"/FLANGED	1300 GPM	150 PSI	BOLTED	1/4" FPT	1/2" NPT
MLS-10	10"/FLANGED	2000 GPM**	150 PSI	BOLTED	1/4" FPT	1/2" NPT

\*Max flow varies depending on solids loading and screen sizing.

\*\*Manifold multiple strainers for higher flow rates.

\*\*\*High pressure models available by special order.

\*\*\*\*Pressure gauges and flush valve not included.

