



The Thompson Filter is a unique, yet brilliantly simple product used in a variety of applications to remove particles from irrigation water and other liquids. Whether the need is to protect irrigation sprinklers or drip emitters from plugging with particles or straining particles and other contaminants out of liquid fertilizer, the Thompson Filter is a quality product you can depend on.

Available in Type 304 and Type 316 construction, the patented design features a large conical screen element with substantially more surface area compared to traditional screen filters and 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 200-mesh. Let our experienced customer service technicians help you optimally size the screen to protect the spray orifices/nozzles in your system.

The Thompson Filter's internal flow patterns force heavy particles down to the large reservoir at the base of the filter. The particles are then purged from the filter via the flush port, without interrupting downstream flow. Unlike centrifugal separators, there are no minimum flow requirements for optimal performance.

The Thompson Filter is exceptionally efficient; all models operate with less than a 1 PSI pressure loss at maximum flow, when clean. The efficiency of the Thompson Filter, due to the low pressure loss, translates into lower operating/energy costs, which results in more profit to your bottom line. Filter housings come standard with two gauge ports, allowing maintenance personnel to monitor the differential pressure across the internal screen.



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
- NO MINIMUM FLOW REQUIREMENTS
- HIGH QUALITY STAINLESS STEEL CONSTRUCTION

#### IRRIGATION APPLICATIONS INCLUDE:

- Well Water
- Reclaim Water
- Surface Water
- Protection of Micro-Sprinklers
- Protection of Drip Emitters

#### LIQUID FERTILIZER APPLICATIONS INCLUDE:

- Install as Load-Out Strainer at Fertilizer Facility
- Install on Fertilizer Applicator Equipment
- Strain Clear Liquid Fertilizer
- Strain Suspension Fertilizer
- Strain Other Agricultural Chemicals (Telone, etc.)

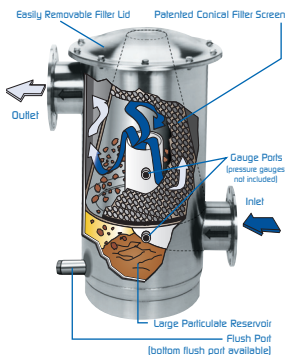
simply better

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

As water enters the bottom of the filter housing and flows upward, heavier debris and particulate (sand, sediment, etc.) is accelerated downward, away from the conical screen, into the sizable reservoir at the base of the filter. The particulate is then flushed from the reservoir, under pressure, via the 1 1/2" flush port, without interrupting downstream flow. A bottom flush port is optional (on 4" through 10" models) for applications where it is desired. The top lid of the filter is easily removed if the internal screen requires manual cleaning.

Due to the non-torturous flow path through the filter, in combination with the generous amount of surface area on the conical screens, all models operate with less than a 1 PSI pressure drop at maximum flow. No minimum flow is required.

The Thompson Filter 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***
MLJ-2	2"/NPT	100 GPM	125 PSI	CLAMP	1/4" FPT	1 1/2" NPT
MLJ-3	3"/NPT	200 GPM	125 PSI	CLAMP	1/4" FPT	1 1/2" NPT
MLJ-4C	4"/FLANGED	350 GPM	125 PSI	CLAMP	1/4" FPT	1 1/2" NPT
MLJ-4B	4"/FLANGED	350 GPM	150 PSI	BOLTED	1/4" FPT	1 1/2" NPT
MLJ-6	6"/FLANGED	750 GPM	150 PSI	BOLTED	1/4" FPT	1 1/2" NPT
MLJ-8	8"/FLANGED	1300 GPM	150 PSI	BOLTED	1/4" FPT	1 1/2" NPT
MLJ-10	10"/FLANGED	2000 GPM**	150 PSI	BOLTED	1/4" FPT	1 1/2" NPT

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

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

\*\*\*Bottom flush ports available on 4"-10" models.

Also larger flush ports available (example: 2")

#### PRESSURE LOSS CURVES

