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With **Full Cone** Spray Nozzle Assembly Option



**ADDENDUM**  
 to  
 Thompson Strainer  
 OWNERS MANUAL  
 OPERATION AND INSTRUCTION GUIDE



**IMPORTANT:**

Please make certain that persons who are to use this filter thoroughly read and understand the **Thompson Strainer** Owners Manual Operation, Instruction Guide and this Addendum prior to operation. Should you have any questions regarding the operation of this filter, please call (386) 248-0500 and ask to speak with one of our customer service representatives.

**I. Safety Precautions**

Safety precautions are essential when any filtration equipment is involved. These precautions are necessary when using, storing, and servicing your strainer. If safety precautions are overlooked or ignored, personal injury or product damage can occur.

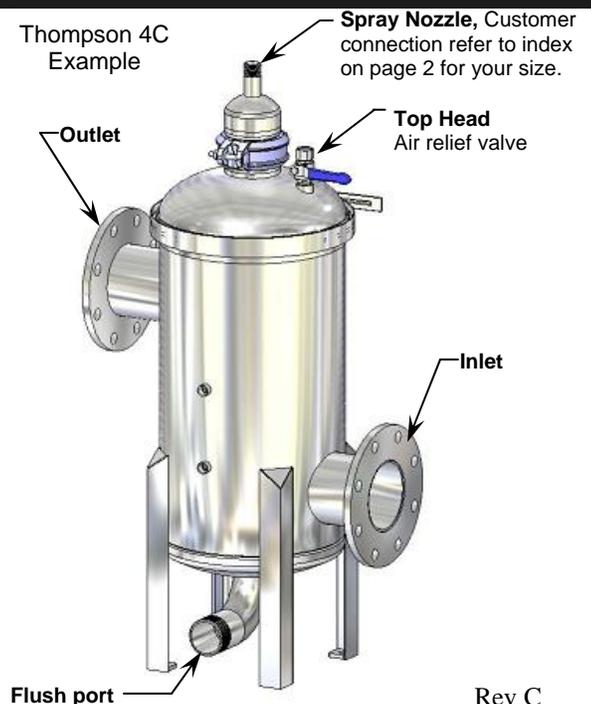
**II. Requirements**

- 1) Isolation valves must be installed at the **INLET**, **OUTLET**, **FLUSH PORT** and in-line to the **Spray Nozzle** connection.
- 2) It is recommended the minimum supply line pipe size and required pressure to the Spray Nozzle customer connection is followed for proper operation and maximum performance.
- 3) Reference Sections **IV & V** on Page 2 for the Spray Nozzle data and supply pipe line connection size.
- 4) Any connections not meeting the minimum supply line pipe size & required pressure should contact Miller Leaman Inc. for further recommendations.

**II. Strainer - Isolation for Screen Element Rinsing.**

- 1) **INLET** - Close isolation valve to the strainer inlet.
- 2) **OUTLET** - Close isolation valve to the strainer outlet.
- 3) **FLUSH PORT** - Open isolation valve to the flush port. This will allow dirty water to start draining out of the strainer.
- 4) **TOP HEAD** - Open air relief valve installed on the top head assembly. This will break the vacuum allowing the strainer to drain more rapidly out of the flush port.
- 5) **SPRAY NOZZLE** - Open valve installed in-line to the full cone spray nozzle assembly connection. This will allow water to enter the spray nozzle and start rinsing particles off the surface of the screen and down to the flush port. It is suggested that a clear section of tubing be installed in-line to the flush port if possible to visually see particulate and determine the length of time needed for proper cleaning of the internal screen element for your particular application.

(NOTE: The inlet and outlet isolation valves are to remain closed during the **Full Cone Spray Nozzle** rinsing process.)



### III. Strainer - Return to Filtration

- 1) **SPRAY NOZZLE** - Close isolation valve installed in-line to the **Full Cone Spray Nozzle** assembly.
- 2) **INLET** - Slowly open isolation valve inlet for approximately 15 seconds, close isolation valve. This will aide in flushing particulate out of the riser pipe and screen assembly.
- 3) **OUTLET** - Open isolation valve to the strainer outlet.
- 4) **INLET** - Slowly open isolation valve to inlet.
- 5) **FLUSH PORT** - Close isolation valve to the flush port.
- 6) **TOP HEAD** - Close air relief valve after air has vented from the strainer.

### IV. Spray Nozzle Data

Thompson Strainer	Customer Connection	Spray Nozzle Pipe Size	Spray Angle	CAPACITY SIZE	ORIFICE DIA	FREE PASSAGE DIA	CAPACITY-GPM		
							50 PSI	60 PSI	100 PSI
<b>2"</b>	3/4" (3/4"-Tri-clamp)	3/8"	60°	82	5/16"	1/8"	<b>18</b>	•	•
<b>3" &amp; 4"</b>	3/4" (3/4"-Tri-clamp)	1/2"	60°	120	3/8"	3/16"	•	<b>28</b>	•
<b>6"</b>	1"	3/4"	60°	210	1/2"	3/16"	•	<b>50</b>	•
<b>8" &amp; 10"</b>	1"	1"	60°	340	5/8"	1/4"	•	•	<b>108</b>

### V. Customer Connection Requirements

- 1) These connection requirements are based on a velocity of  $8 \pm 1.5$  FPS (feet per second) and/or with head loss / pressure to the customer connection of  $3 \pm 1$  PSI.
- 2) Any fittings installed prior to the customer connection (elbows, tees, valves) can add to the head loss / pressure. Increasing the minimum supply line pipe connection size required.
- 3) The use of various Piping or Tubing material types can add to the head loss / pressure to the spray nozzle assembly. Please contact customer service for any questions specific to your application.

#### PVC - Sch 80

##### 2" Strainer

0 - 25 ft: 1" pipe  
26 - 100 ft: 1-1/2" pipe

##### 3" & 4" Strainers

0 - 100 ft: 1-1/2" pipe

##### 6" Strainer

0 - 25 ft: 1-1/2" pipe  
26 - 100 ft: 2" pipe

##### 8" & 10 Strainers

0 - 75 ft: 2-1/2" pipe  
76 - 100ft: 3" pipe

#### TUBING (.065 Wall) (Stainless Steel)

##### 2" Strainer

0 - 100 ft: 1-1/2" tubing

##### 3" & 4" Strainers

0 - 40 ft: 1-1/2" tubing  
41 - 100 ft: 2" tubing

##### 6" Strainer

0 - 50 ft: 2" tubing  
51 - 100 ft: 2-1/2" tubing

##### 8" & 10 Strainers

0 - 50 ft: 2-1/2" tubing  
51 - 100 ft: 3" tubing