

# **T-Filters**

#### Introduction

See Figure 1. T-filters are used as coating material final filters to reduce nozzle clogging.

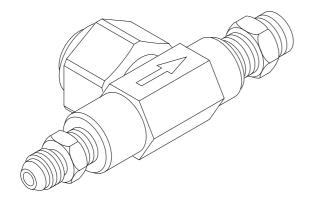


Figure 1 Typical T-Filter Assembly

### Installation

See Figure 2. Installation may differ depending on the type of application.

**NOTE:** The arrow on the T-filter designates the direction of fluid flow.

 Several connectors are provided with each T-Filter. The filter has <sup>1</sup>/<sub>4</sub> in. inlet and outlet ports. Apply the provided pipe adhesive to the threads of the inlet (5) and outlet (6) connectors and Install the connectors on the T-filter.

- Install the T-filter in the fluid line, close to the fluid inlet of the calibrated orifice, restrictor, or spray device. Make sure that the nut (2) is accessible for removing the filter element (4) and gasket (3).
- Tighten the fluid lines to the connectors securely.

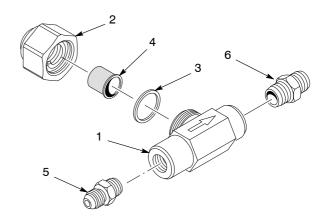


Figure 2 Installation

- 1. T-filter
- 2. Nut assembly
- 3. Gasket
- 4. Filter element
- 5. Inlet connector
- 6. Outlet connector

**NOTE:** A bypass nut with  $^{1}/_{8}$  in. NPT outlet port can be installed in place of the standard nut assembly. The bypass nut allows you to connect a dump valve to the T-filter.

Table 1 Inlet and Outlet Connectors

Item	Connector Type	Application System	Connector Size	Connector Part Number
		CanNeck I	<sup>9</sup> / <sub>16</sub> -18 x <sup>1</sup> / <sub>4</sub> -in. NPT	972688
5	Inlet	CanNeck II and Other Systems	<sup>1</sup> / <sub>2</sub> -20 x <sup>1</sup> / <sub>4</sub> -in. NPT	972029
6 (	Outlet	CanNeck I and CanNeck II	$^{3}/_{8}$ -in. tube x $^{1}/_{4}$ -in. NPT	971252
		Other Systems	<sup>3</sup> / <sub>8</sub> x <sup>1</sup> / <sub>4</sub> x 1.406-in. nipple	973971

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#### **Maintenance**



**WARNING:** System or material pressurized. Relieve pressure. Failure to observe may result in serious injury.

**NOTE:** T-filters should be disassembled and cleaned according to a maintenance schedule determined by material used, production schedules, and experience. Always keep spare filter elements on hand.

- 1. Turn off fluid and air pressure. Trigger the spray device to relieve system pressure.
- 2. See Figure 3. Remove the nut (2), filter element (4), and gasket (3) from the T-filter (1).
- Clean the filter element with a nozzle brush and compatible solvent. Inspect the filter element and gasket for wear or damage. Replace worn and damaged parts.

**NOTE:** Only mesh screen elements can be cleaned and re-used. Sintered filter elements cannot be cleaned well enough for re-use. Sintered elements should be discarded and replaced with new elements on a regular schedule.

 Before cleaning the nut, remove the external retaining ring and the internal spring. Be careful not to lose the spring. The nut, retaining ring, and spring are replaceable only as an assembly.

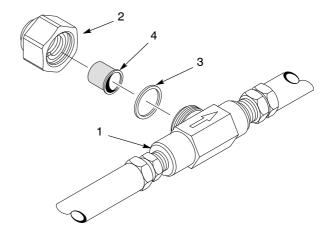


Figure 3 Maintenance

- 1. T-filter
- 3. Gasket
- Nut (w/retaining ring and spring)
- 4. Filter element
- 5. Install the gasket on the T-filter.
- Insert the open end of the filter element into the T-filter.
- 7. Install the nut and tighten it securely.

# **Parts**

See Figure 4.

NOTE: Optional Bypass Nut available. Refer to page 4 for part number.

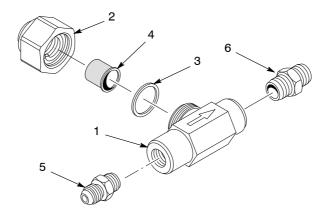


Figure 4 Parts

#### 15-Micron T-Filter

Item	Part	Description	Quantity	Note
_	179368	T-FILTER, liquid, $^{1}/_{4}$ -in. NPT, stainless steel, with 15-micron element	1	
1	179300	<ul> <li>FILTER, liquid, <sup>1</sup>/<sub>4</sub>-in. NPT, stainless steel, T-type</li> </ul>	1	
2	1084451	NUT, assembly, filter, T-type	1	
3	179367	GASKET, filter, liquid, stainless steel, T-type	1	
4	159908	FILTER ELEMENT, 15-micron, cv-0.074 max flow	1	
5	972029	<ul> <li>CONNECTOR, male, 37, <sup>1</sup>/<sub>2</sub>-20 x <sup>1</sup>/<sub>4</sub> in., stainless steel</li> </ul>	2	
6	973971	<ul> <li>NIPPLE, hex, <sup>3</sup>/<sub>8</sub> x <sup>1</sup>/<sub>4</sub> x 1.406 in., stainless steel</li> </ul>	1	

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#### 140/15-Micron T-Filter

Item	Part	Description	Quantity	Note
_	179495	T-FILTER assembly, liquid, 140/15 micron	1	
1	179300	FILTER, liquid, <sup>1</sup> / <sub>4</sub> -in. NPT, stainless steel,     T-type	1	
2	1084451	NUT, assembly, filter, T-type	1	
3	179367	GASKET, filter, liquid, stainless steel, T-type	1	
4	159908	FILTER ELEMENT, 15-micron, cv-0.074 max flow	1	
4	179498	FILTER ELEMENT, 140-micron, cv-0.37 max flow	1	
5	972029	CONNECTOR, male, 37, <sup>1</sup> / <sub>2</sub> -20 x <sup>1</sup> / <sub>4</sub> in., stainless steel	1	
5	972688	CONNECTOR, male, 37, 9/ <sub>16</sub> -18 x 1/ <sub>4</sub> in., stainless steel	1	
6	971252	• CONNECTOR, male, hydraulic, compression, $^{3}/_{8}$ -in. tube x $^{1}/_{4}$ -in. NPT	1	

## Filter Elements and Spare Parts

Part	Description		
159908	3 15-MICRON FILTER ELEMENT, cv-0.074 max flow		
163520	63520 60-MICRON FILTER ELEMENT, cv-0.22 max flow		
169636	169636 230-MICRON FILTER ELEMENT, cv-0.37 max flow		
179498	179498 140-MICRON FILTER ELEMENT, cv-0.37 max flow		
179300	179300 FILTER, liquid, <sup>1</sup> / <sub>4</sub> -in. NPT, stainless steel, T-type		
179367 GASKET, filter, liquid, stainless steel, T-type			
901905 BRUSH, nozzle			
NOTE A: For use with CanNeck, CleanSpray, and Ink Dot systems.			
B: For use with Pressure Control Conversion.			

## **Optional Bypass Nut**

Part	art Description	
1080838	NUT, bypass, 4TF series filter	Α
	Replaces 1084451 nut assembly. Outlet port of bypass nut has $^{1}/_{8}$ in. NPT threads. Use to ump valve to the T-filter.	connect a

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