*Instruction Sheet*
*P/N 1609316-01*

# Iso-Flo® In-line Filter

## Description

In-line fluid filters add additional protection to surface finish by filtering contaminants out of coating materials before reaching the applicator. Material flows from the pump to a regulator through the in-line filter and out of the applicator. The Iso–Flo® in-line filter can be added to an existing system in between the fluid hose and the paint outlet and is the final point of filtration before the material is dispensed by the applicator.

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

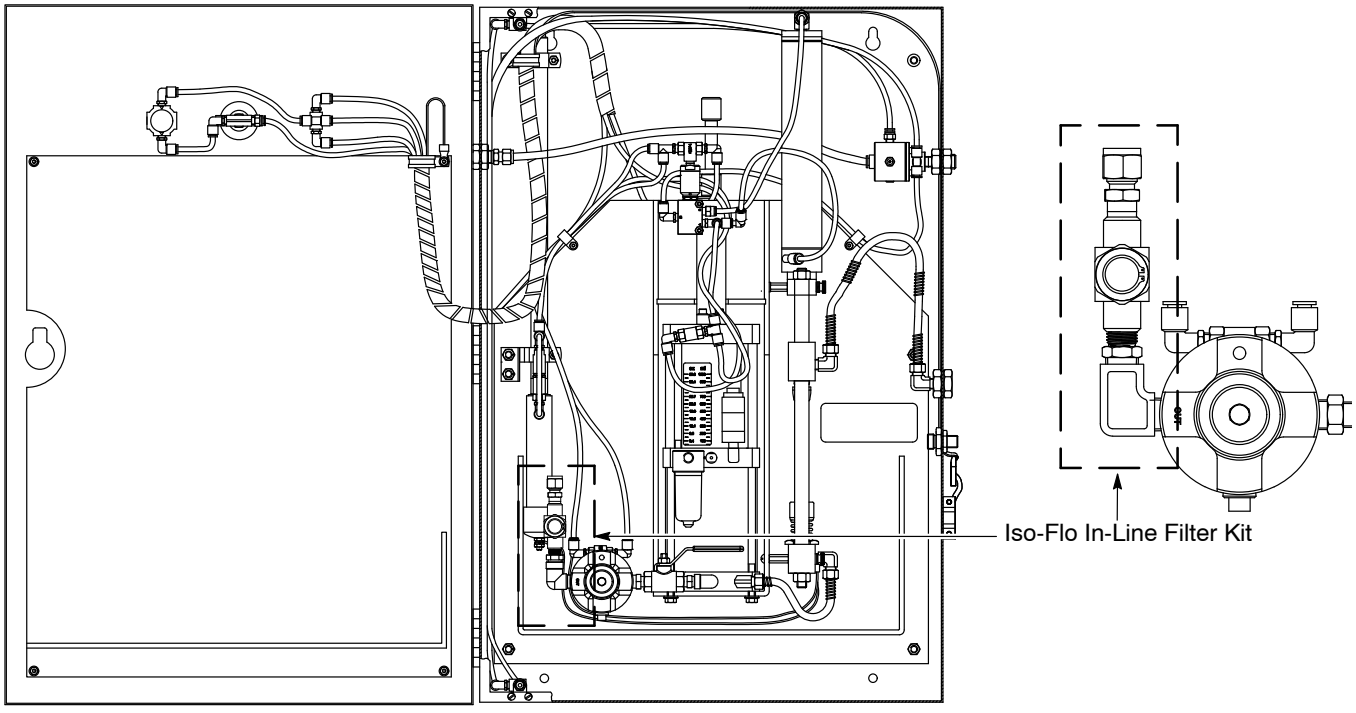



Figure 1 Iso-Flo System with Iso-Flo In-Line Filter

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# Installation

**WARNING:** Allow only qualified personnel to perform the following tasks. Incorrect adjustment can result in equipment damage or personal injury.

**WARNING:** Do not place force on the plastic fluid regulator during installation. Use caution when installing metal into plastic threads. Do not over tighten.

**NOTE:** The Iso-Flo in-line filter kit includes the 90° elbow for systems installed before 2004. If the Iso-Flo system already contains the 90° elbow, skip to step 2.

See Figure 2.

1. Carefully install the 90° elbow (5) into the output of the plastic fluid regulator (6) using PTFE tape. Skip to step 3.
2. Remove the old ⅜ in. x ⅜ in. NPT nipple from the 90° elbow (5) and discard.
3. Install the new ⅜ in. x ¼ in. NPT nipple (4) into the elbow (5) using adhesive sealant. The nipple must be installed pointing up as shown.
4. Install the connector (1) into the T-filter (3) using adhesive sealant.
5. Tightly hold the installed nipple (4) with a wrench and carefully screw the T-filter assembly (1 and 3) into the nipple using adhesive sealant. Make sure that the nut cap (2) on the T-filter is accessible for removing the filter element (8) and gasket (7).
6. Connect the fluid line to the final assembly.
7. Tighten and secure the fluid line to the connector (1).

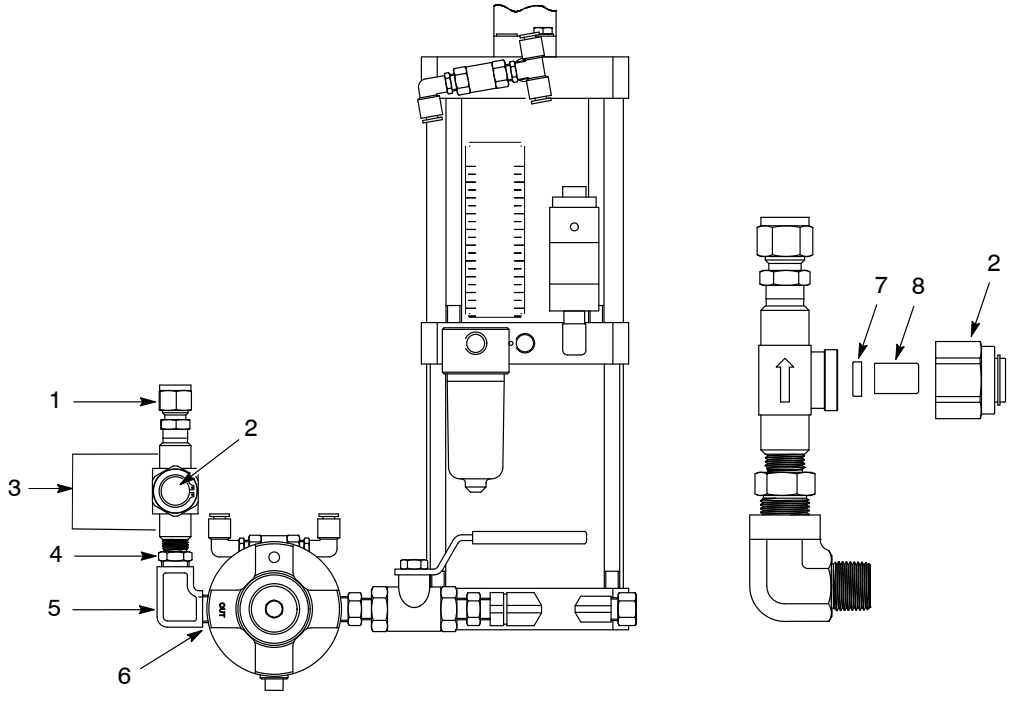



Figure 2 Iso-Flo Filter Installation

1. Connector
2. Nut cap
3. T-filter
4. Nipple coupling
5. Elbow
6. Fluid regulator
7. Gasket
8. Filter element


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# Maintenance

**WARNING:** System is 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).
3. 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.

4. 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.
5. Install the gasket on the T-filter.
6. Insert the open end of the filter element into the T-filter.
7. Install the nut and tighten it securely.

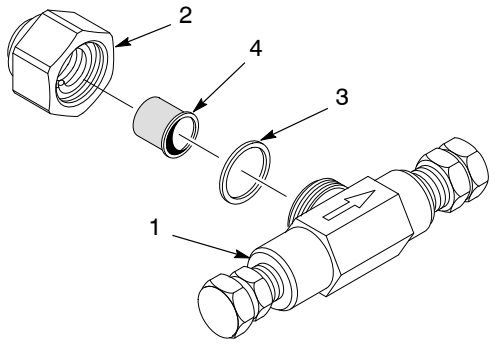



Figure 3 T-Filter Maintenance

1. T-Filter
2. Nut (with retaining ring and spring)
3. Gasket
4. Filter element

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# Parts

See Figure 4.

| Item | Part | Description | Quantity | Note |
|---|---|---|---|---|
| – | 1606140 | Kit, Iso-Flo in-line filter | 1 | |
| 1 | 971210 | • Connector, male, 0.38 tubex, ¼-in. NPT, stainless steel | 1 | |
| 2 | 179300 | • Filter, liquid, ¼-in. NPT, stainless steel, T-type | 1 | A |
| 3 | 179367 | • • Gasket, filter, liquid, stainless steel, T-type | 1 | |
| 4 | 1084451 | • • Nut, assembly filter, T-type | 1 | |
| 5 | 179498 | • Filter element, 140-micron | 1 | |
| 6 | 973971 | • Nipple, hex, ⅜ x ¼ x 1.406 in., stainless steel | 1 | |
| 7 | 973180 | • Elbow, pipe, hydraulic, 90 degree, ⅜-in., stainless steel | 1 | |
| NS | 900431 | • Adhesive, pipe thread, hydraulic sealant | 1 | B |

NOTE A: Item is pre-assembled.
B: Apply to items 1 and 6.
NS: Not Shown

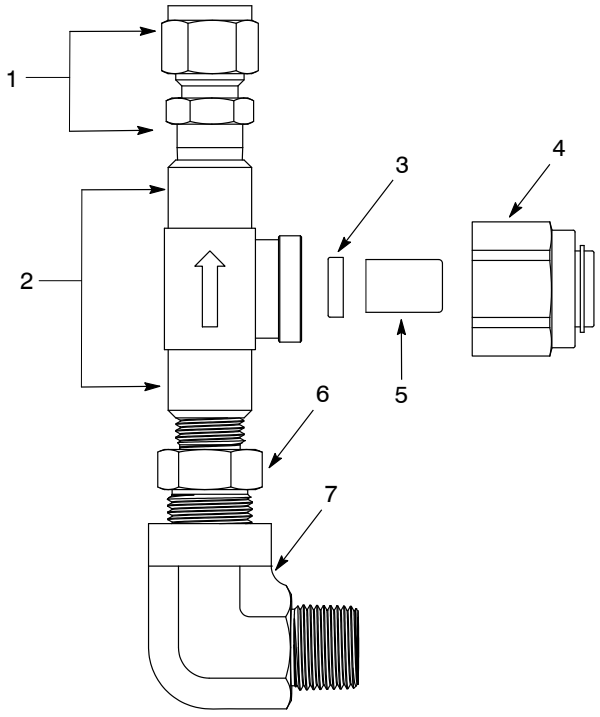



Figure 4 Iso-Flo In-Line Filter Kit

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