PTI Technologies Inc.

F1L 025 Series

Medium Pressure Filter Assembly

Parts Matrix

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F1L025 Parts Matrix

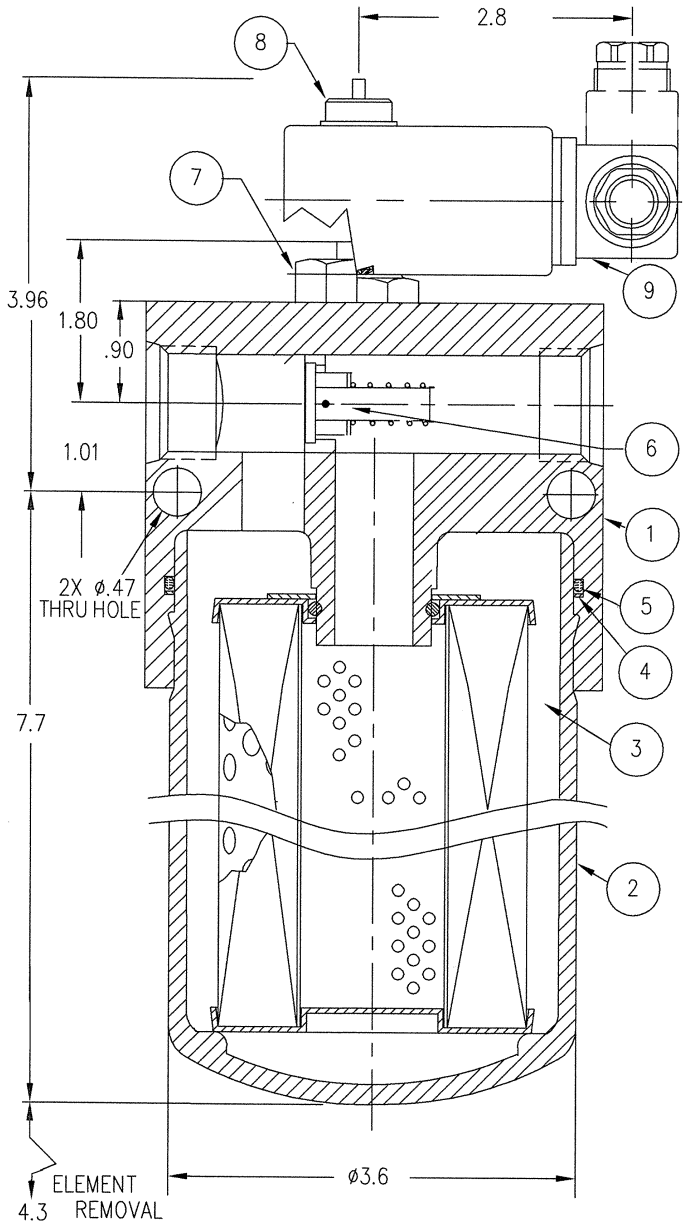
For use with the "**F1L Pictorial**" document

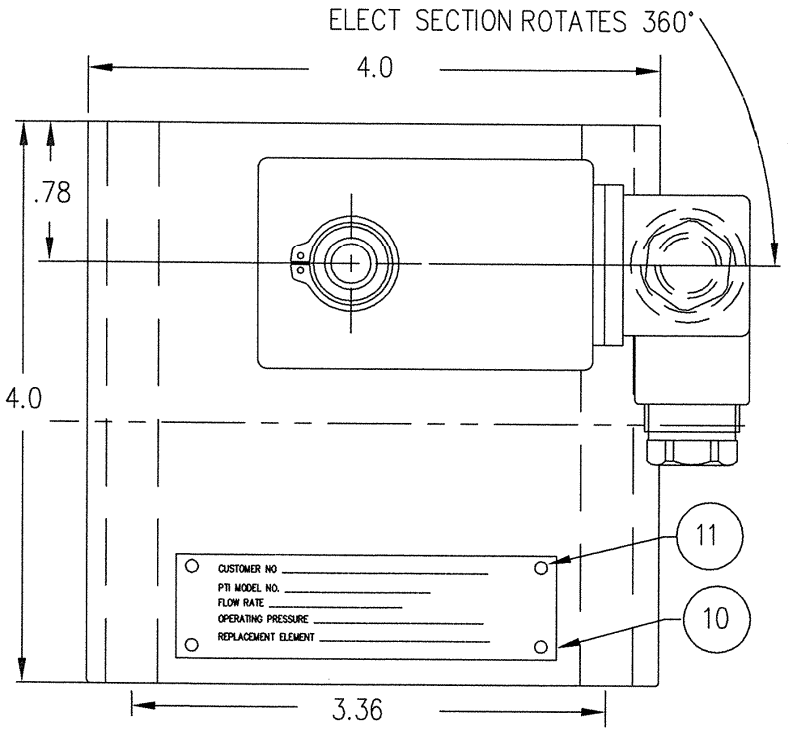
Item	PART NAME	Part No - Buna	Part No - Viton	Part No - EPR	QTY	Comments and Notes
1	Head	9322434	9322434	9322434	1	**1**
2	Bowl	6667592	6667592	6667592	1	
3	Element				1	See the F1L025 brochure
4	Back-up Ring	62506-29	62506-29	62506-29	1	MS27595-238
5	O Ring	238-B	238-V	238-E	1	
6	Bypass Valve Assembly	6667581	9325949	9314781	1	**2**
7	Visual Indicator-Self-resetting	CF-440-0004	CF-440-0005	CF-440-0006	1	Use item #7 or #8
8	Visual Indicator – Manual reset	851 0936 000	9314770	9324576	1	Use item #7 or #8
9a	Elect Section – no Thermal Lockout	851 9530 000	851 9530 000	851 9530 000	1	**3**
9b	Elect Section with Thermal Lockout	PiS3003	PiS3003	PiS3003	1	Normally Closed **4**
9c	Elect Section with Thermal Lockout	PiS3002	PiS3002	PiS3002	1	Normally Open **4**
10	Nameplate (Blank)	9327158	9327158	9327158	1	**5**
11	Drive Screw	MS21318-14	MS21318-14	MS21318-14	4	

Note 1. The Bypass Valve Assembly (Item #6) must be ordered along with this head. See note 2 below.

2. The bypass valve **must** be installed as shown on "F1L025 Bypass Vlv Installation" document. If it is rotated 90° from the proper orientation then the flat side of the bypass valve housing with interfere with the flow through the assembly. This will result in a higher pressure drop through the filter assembly.
3. Item #8 is required for this option. The non-thermal lockout electrical section is either **Normally Closed** or **Normally Open**. See additional information in the "Electrical Section" document.
4. Item #8 is required for this option. Select either the Normally Closed or the Normally Open Electrical Section.
5. Using epoxy is an alternate method of attaching the nameplate to the head.

F1L025 Filter Assembly - Pictorial





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F1L025 Bypass Valve Installation Instruction

PURPOSE

The following information is provided to enable a person to install the bypass valve assembly into the F1L025 filter assembly. Use F1L Bypass Valve Pictorial on page 2 as a guide.

PREPARATION

To install the bypass valve assembly will require removing the filter assembly from the hydraulic system. The bowl will then have to be removed, along with the element. The Bypass Valve Assembly and the following tools will be required:

Adjustable wrenches to remove the filter assembly.
Strap wrench to remove the bowl (18" with a 1-3/4" strap is best)
Center punch (6" or longer – to stake the bypass valve assembly)
Hammer

INSTALLATION INSTRUCTIONS

1. Remove the pressure from the hydraulic system prior to performing any work.
2. Using the strap wrench loosen the bowl.
3. Remove the fittings from the filter assembly and remove it from the hydraulic system. Drain the fluid out of the filter assembly.
4. Remove the bowl and the filter element. Protect the element from contamination.
5. Examine the housing to determine if any bypass valve assembly parts are still in the head. If so, remove them.
6. Review the blueprint on page 2. Install the valve assembly into the head as shown on the blueprint. It is very important that the sides of the valve be orientated as shown on the blueprint. Improper orientation will result in a high-pressure drop through the filter assembly. Using a suitable tool make sure that the valve assembly is properly seated into the head. When you look into the element flow hole you must see the spring part of the valve assembly. If you see the flat side of the valve assembly then it is installed improperly.
7. Using the punch, upset the head material in at least three places so that the valve assembly is retained. Take care not to damage the threads in the inlet port.
8. Remove any contamination from the head. Remove the bowl O Ring. Replace if required (size –238). Lubricate and install the O Ring, the element and the bowl. Install the filter assembly back into the hydraulic system. Tighten the bowl with the strap wrench.
9. Pressurize and check for leaks.

A pictorial of the F1L025 Bypass Valve is shown on page 2

F1L025 Bypass Valve Pictorial –

The bypass valve **must** be installed in the position shown. Incorrect installation will cause high pressure through the filter assembly.