



Facet Part Nos: Assembly 1732945-01  
Element 038062  
Boeing Part No: Assembly 10-61801-1

## .64 GPM Mil-F-5624 Fuel Filter Assembly

### Description of Operation

This filter consists of a housing and seals suitable for MIL-F-5624 fuel. The flow direction is as shown on the cutaway view. Foreign particles in the fuel are restricted by the element on the upstream side allowing clean fuel through the outlet. The relief valve will open at 14 or 15 pounds per square inch of differential pressure and reseal at 12 pounds per square inch.

### Specifications

**Rated Flow:** 0.64 gpm

**Fluid:** MIL-F-5624 fuel

**Pressure Drop at Rated Flow:** 0.5 psi

**Degree of Filtration:** 10 micron nominal

**Operating Pressure:** 130 psi

**Burst Pressure:** 3750 psi

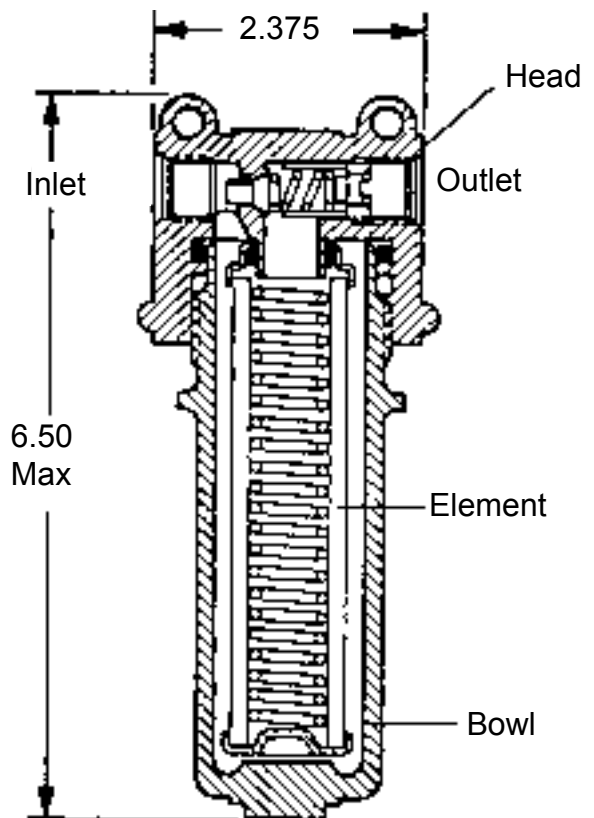
**Temperature Range:** -65°F to 165°F

**Relief Valve Cracking Pressure:** 14 to 15 psi

**Housing Material:** Aluminum alloy (anodized)

**Element Material:** Micropleat® media  
(low-collapse, Pliobonded)

**Weight:** 1.0 lb



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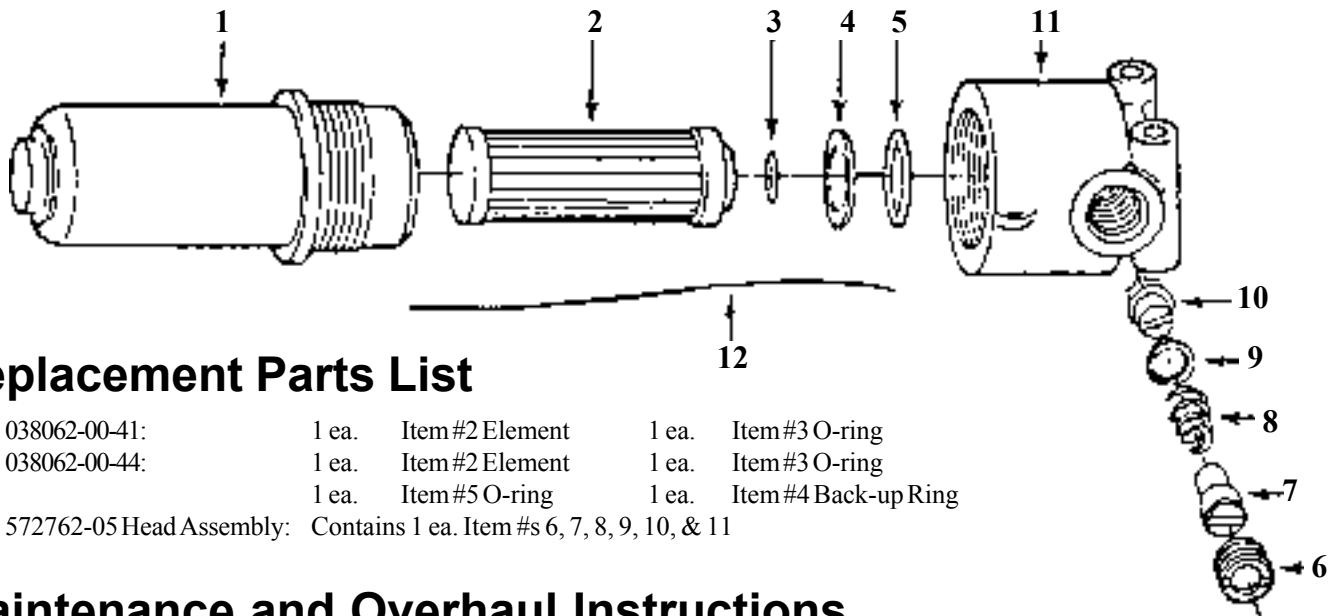
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### Parts List

Item No.	Part No.	Nomenclature	No. per Assembly	Item No.	Part No.	Nomenclature	No. per Assembly
1	572717-01	Bowl (Aluminum Anodized)	1	7	053913	Stop Valve	1
2	038062	Element	1	8	053912	Spring	1
3	7516	O-ring (MS29513-114)	1	9	055457	Washer	1
4	910786	Backup Ring (MS28774-222)	1	10	28644-02	Valve	1
5	7514	O-ring (MS29513-222)	1	11	572762	Head	1
6	28662	Retainer	1	12	568997	Lockwire	1



### Replacement Parts List

- 1) 038062-00-41: 1 ea. Item #2 Element 1 ea. Item #3 O-ring
- 2) 038062-00-44: 1 ea. Item #2 Element 1 ea. Item #3 O-ring  
1 ea. Item #5 O-ring 1 ea. Item #4 Back-up Ring
- 3) 572762-05 Head Assembly: Contains 1 ea. Item #s 6, 7, 8, 9, 10, & 11

### Maintenance and Overhaul Instructions

**Disassembly:** Disassembly of the filter follows the sequence of the assigned item numbers in exploded view.

**Cleaning-External Aluminum Parts:** Wash aluminum parts in a suitable solvent such as trichloroethylene, stoddard solvent, etc. Do not use strongly alkaline cleaners.

**Replacement Items:** Replace O-rings (Items 3 and 5), backup ring (Item 4), and element (Item 2).

**Inspection:** Head, bowl and valve should be examined for scoring or distorted threads.

**Test:** Test bypass valve for proper operation by plugging the hole in the element pilot in the head. Reassemble the filter leaving the filter element out. Gradually apply hydraulic oil pressure to the inlet. Valve must crack open at 14 to 15 psi. Cracking pressure is defined as leakage exceeding 120 drops/minute. Decrease pressure until leakage rate is less than 120 drops/min. This is the reseal pressure and shall occur at 12 psi min. Excessive leakage indicates a damaged valve or seat. This may be repaired by lapping lightly using a thin film of lapping compound, Federal Spec No. SS-C-614, and rotating valve with a screwdriver. Clean all parts thoroughly before reassembly.

**Reassembly:** Reassemble in reverse order of disassembly. Filter must be assembled dry. Bowl to head, torque should be 75 inch pounds. Lockwasher (Item B) can be reused by straightening bent tab and bending a tab into one of the 0.406 diameter inlet holes in the head after tightening nipple (Item 7). Lubricate threads and O-ring packings with a small amount of MIL-L-4343 lubricant. Replace lockwire.