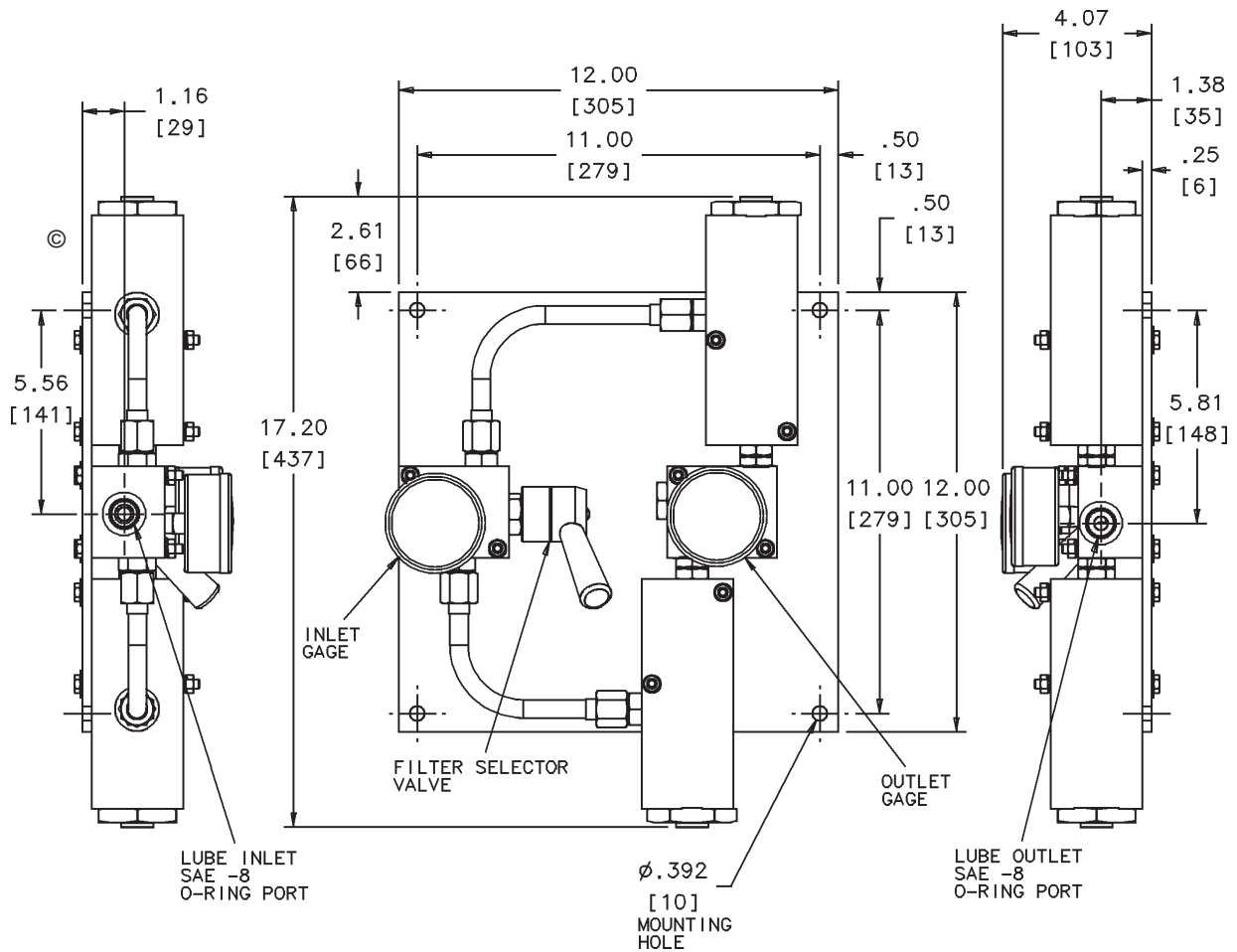


**MODEL 85419  
 DUPLEX FILTER ASSEMBLY  
 SERIES "B"**



**SPECIFICATIONS:**

- Max Operating Pressure: 3500 PSI
- ©Standard Filter Element: 238 Micron (60 Mesh)
- ©Optional Filter Element: 149 Micron (100 Mesh)
- ©Element Crush Pressure 350 PSID
- ©Materials:
  - ©Seals: Nitrile
  - ©Body & Panel: Aluminum
  - ©Filter Screen: Stainless Steel
  - ©Tubing & Fittings: Steel

**Description**

The Model 85419 Duplex Filter Assembly is a filtering system which incorporated two independent filter assemblies - only one filter is in use at any one time. Filter selection is made with a single operator handle which visually indicates the filter in use.

Two pressure gages indicate the status of the filter element in use.

The Duplex Filter Assembly utilizes the operator valve and shuttle check to:

© Indicates change

1. Allow for immediate change over to a clean filter element.
2. Isolate the filter, which is not in use, from the system pressure so that the element can be changed without shutting the system down or bleeding off the pressure.

**Operation**

**Operator Valve:** is used to select which filter is in use. The position of the operator handle will indicate the filter in use. Moving the operator handle up will select the top filter, while moving the handle down will select the lower filter.

The operator valve, with the shuttle check valve will isolate the unused filter so that a dirty filter element can be changed without the need for shutting down the lube system.

**Filter Status Indicators:** consist of two pressure gages, one on the inlet side and one on the outlet side of the filter assembly. A clogged filter will be indicated when the inlet pressure gage exceeds the outlet gage. Note that due to variations in gages there may always be a difference in gage reading. When a new filter is installed, the pressure reading should be noted as a base line for future monitoring of filter conditions.


To avoid damage to the filter elements, the maximum differential pressure across the filter elements should not

exceed 350 PSID. The filter elements should be cleaned or replaced when the inlet pressure gage exceeds the reading on the outlet pressure gage by 250-300 PSI when the pump is operating.

Operation with a dirty filter element and a high pressure differential may cause the filter element to crush or burst allowing contamination of the system with dirt or debris from the filter element.

To change filter elements be sure the operator handle is moved into the direction of the operating filter. The alternate filter element may be changed by carefully removing the end plug from the filter which is not in use. A slight amount of lubricant may seep past both valves while the panel is under pressure. This is normal. If volume of lubricant leaking through valve is substantial, service to the valve assembly or check is indicated. Refer to Service Page K1-6 series for filter elements and filter components.

**Changing Filter Elements:**

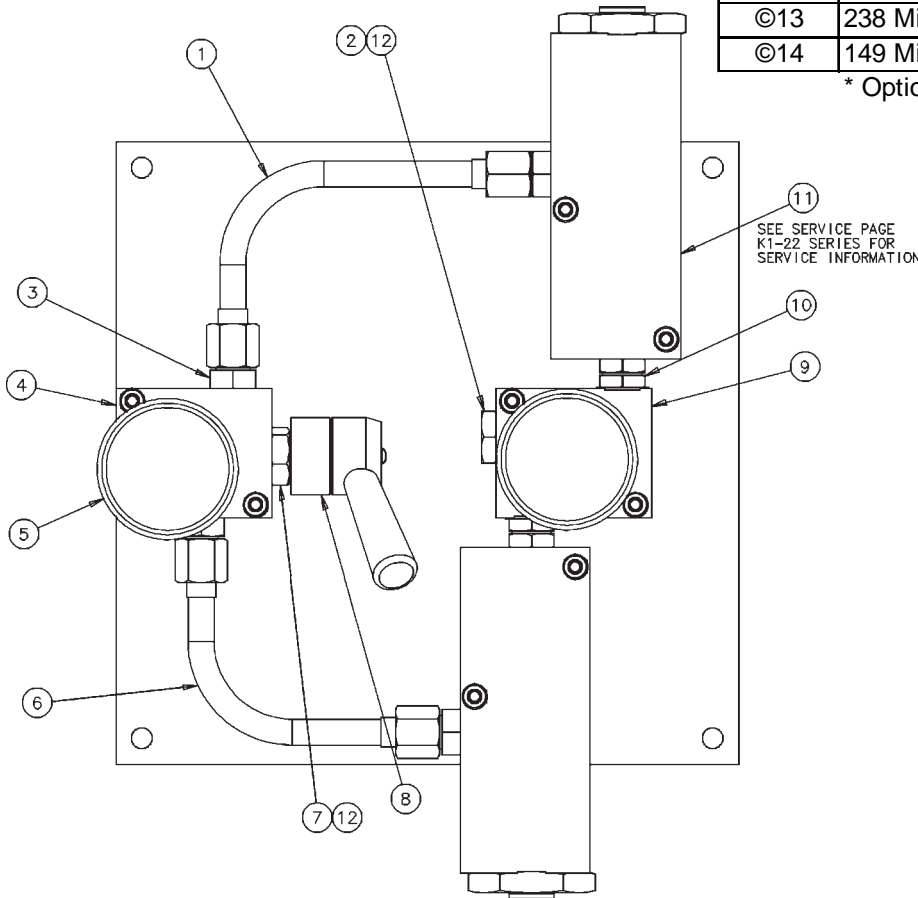

CAUTION

It is best to change filter elements when the system is not in operation and pressure is relieved. If the filter element must be changed while the system is in operation, make sure that the operator handle is moved in the direction away from the filter to be serviced. When removing the closure plug to gain access to the filter element, remove it carefully. If any pressure appears to be present on the closure plug, stop, shut down the system and bleed the pressure off the filter panel.

**SERVICE PARTS**

Item No.	Description	Part No.	Qty.
©1	Upper Tubing Assembly	272901	1
2	SHUTTLE Valve	271394	1
3	Tubing Adapter	271413	4
©4	Filter Inlet Block	272923	1
5	Pressure Gage	69910	2
©6	Lower Tubing Ass'y	272902	1
7	Selector Valve (Inc. Item 12)	271395	1
8	Valve Operator	271450	1
©9	Filter Outlet Block	272889	1
©10	SAE-8 Union	272894	2
©11	High Pressure Filter Assembly	84111	2
12	O-Ring Kit (for valves only)	271600	2
©13	238 Micron Element (Not Shown)	272896	2
©14	149 Micron Element (Not Shown)	272897	*

\* Optional Element



© Indicates change

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