



## Lubricant Filters and Strainers

NOTES

## INTRODUCTION

### DESCRIPTION

Lubriquip's Trabon and Manzel lubricant filters are available in a variety of configurations, pressure ratings, and filtering capabilities. They are typically used for removing potentially harmful contaminants from the lubricant before they are dispensed into the lubrication points.

### FILTRATION REQUIREMENTS

Proper filtration of the lubricant is essential to avoid system and equipment damage. Some machine components, such as high speed bearings, may require higher levels of lubricant filtration than others. Lubriquip's filters are available in several efficiency and pressure ratings to satisfy a variety of system filtration requirements. It is recommended that the oil in any Series-Progressive lubrication system be maintained at a level less than or equal to an ISO 18/14 rating. The machine tool manufacturer should be consulted for his recommendations regarding the proper lubricant, as well as the minimum filtration level required, for the machine's various rotating and moving components.

### OPERATION

Lubriquip filters can be installed in reservoir-fill lines as well as in the lubrication system's pump output line in order to maximize lubricant cleanliness, and thereby minimize machine down-time caused by lubricant contamination of vital machine moving parts. Additional specialized filters are also available from Lubriquip for use on downstream lubrication system componentry to serve as a final filter that removes any particles that may dislodge from the walls of the lubricant distribution lines.

### SPECIFICATIONS

The Selection Guide table on pages 3 and 4 offers an overview of the various types of filters and strainers available from Lubriquip and an abbreviated list of specifications for them. The remaining pages in this bulletin then provide additional detailed information for each type of filter or strainer.

**NOTE:** In the following pages, dimensional and operational specifications are presented in English units followed by the metric equivalent in parentheses.

Part Number	Type	Max Pressure Rating - psi	Inlet Port	Outlet Port	Replacement Filter Element	Micron Rating	Page
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## IN-LINE OIL FILTERS

473-000-234	<b>MSP</b> Standard Inlet (NPT) Filter - Oil	3500 (241 bar)	¼ -18 NPSF	¼ -18 NPTF	Element not replaceable	10	6
473-000-265	<b>MSP</b> Standard/ Z-L / Shunt Valve Inlets (NPT) Filter-Oil	3500 (241 bar)	¼ -18 NPSF	¼ -18 NPTF	Element not replaceable	90	6
473-410-180	<b>MSP</b> Z-L & Shunt Valves (SAE) Inlet Filter - Oil	3500 (241 bar)	9/16 -18 SAE	9/16 -18 SAE	Element not replaceable	90	7
473-000-290	<b>MSP</b> Standard Inlet & Zero-Lk Valve (BSPP) Filter - Oil	3500 (241 bar)	¼ -19 BSPP	¼ -19 BSPP	Element not replaceable	90	6
463-410-204	<b>MSP</b> Standard & Z-L Inlets (NPT) Filter + Restrictor- Oil	3500 (241 bar)	¼ -18 NPSF	¼ -18 NPTF	Element not replaceable	90	6
463-410-203	<b>MSP</b> Z-L & Shunt Valves (SAE) Inlet Filter +Restrictor	3500 (241 bar)	9/16 -18 SAE	9/16 -18 SAE	Element not replaceable	90	7
463-001-618	<b>MSP</b> Std./ Z-L / Shunt Valve Inlets (NPT) Filter+Ck Valve	3500 (241 bar)	¼ -18 NPSF	¼ -18 NPTF	Element not replaceable	90	6
463-001-605	<b>MSP</b> Standard Inlet (SAE) Filter + Check Valve -Oil	3500 (241 bar)	7/16 -20 SAE	7/16 -20 SAE	Element not replaceable	90	6
463-001-604	<b>MSP</b> Z-L & Shunt Valves (SAE) Inlet Filter+Chk Valve	3500 (241 bar)	9/16 -18 SAE	9/16-18 SAE	Element not replaceable	90	7
527-005-760 +527-005-740	<b>MSP</b> Divider Assembly Modular Oil Filter Section	3000 (207 bar)	NA	NA	Element not replaceable	25	8
527-101-150	<b>Piston Distributor</b> System Filter (BSPP) - Oil	2900 (200 bar)	¼ -19 BSPP	¼ -19 BSPP	Element not replaceable	10	7
527-101-160	<b>Piston Distributor</b> System Filter (BSPP) - Oil	2900 (200 bar)	¼ -19 BSPP	¼ -19 BSPP	Element not replaceable	28	7

## CARTRIDGE OIL FILTERS

183-000-001	Dual Cartridge Filter Unit – Standard Length - Oil	800 (55 bar)	3/8 -18 NPSF	3/8 -18 NPSF	540-271-001	10	9 - 10
183-000-011	Dual Cartridge Filter Unit – Standard Length - Oil	800 (55 bar)	3/8 -18 NPSF	3/8 -18 NPSF	540-272-001	25	9 - 10
183-000-041	Dual Cartridge Filter Unit – Standard Length -Non Bypass- Oil	800 (55 bar)	3/8 -18 NPSF	3/8 -18 NPSF	540-271-001	10	9 - 10
183-000-051	Dual Cartridge Filter Unit – Standard Length -Non Bypass- Oil	800 (55 bar)	3/8 -18 NPSF	3/8 -18 NPSF	540-272-001	25	9 - 10
183-000-071	Dual Cartridge Filter Unit – Extra Length - Oil	800 (55 bar)	3/8 -18 NPSF	3/8 -18 NPSF	540-274-001	10	9 - 10
183-000-081	Dual Cartridge Filter Unit – Extra Length - Oil	800 (55 bar)	3/8 -18 NPSF	3/8 -18 NPSF	540-275-001	25	9 - 10
183-000-111	Dual Cartridge Filter Unit – Extra Length-Oil -Non Bypass	800 (55 bar)	3/8 -18 NPSF	3/8 -18 NPSF	540-274-001	10	9 - 10
183-000-121	Dual Cartridge Filter Unit – Extra Length-Oil -Non Bypass	800 (55 bar)	3/8 -18 NPSF	3/8 -18 NPSF	540-275-001	25	9 - 10
183-000-141	Single Cartridge Filter Unit – Standard Length - Oil	800 (55 bar)	3/8 -18 NPSF	3/8 -18 NPSF	540-271-001	10	9 - 10
183-000-151	Single Cartridge Filter Unit – Standard Length - Oil	800 (55 bar)	3/8 -18 NPSF	3/8 -18 NPSF	540-272-001	25	9 - 10
183-000-201	Single Cartridge Filter Unit – Extra Length - Oil	800 (55 bar)	3/8 -18 NPSF	3/8 -18 NPSF	540-274-001	10	9 - 10
183-000-211	Single Cartridge Filter Unit – Extra Length - Oil	800 (55 bar)	3/8 -18 NPSF	3/8 -18 NPSF	540-275-001	25	9 - 10

Part Number	Type	Max Pressure Rating - psi	Inlet Port	Outlet Port	Replacement Filter Element	Micron Rating	Page
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## SPIN-ON OIL FILTERS

473-000-261	Oil- Spin On Filter Assembly with internal 25 psi bypass	200 (14 bar)	3/4 NPT	3/4 NPT	473-000-262	10	11
473-000-271	Oil- Spin On Filter Assembly with external 150 psi relief	200 (14 bar)	3/4 NPT	3/4 NPT	473-000-262	10	11
473-000-296	Oil – Remote Mount Spin-On Filter Ass'm w/Fill Stud	200 (14 bar)	3/4 NPT	3/4 NPT	473-000-262	10	11
473-000-275	Oil- Spin On Filter Assembly with external 150 psi relief	200 (14 bar)	3/4 NPT	3/4 NPT	473-000-276	25	11
473-000-282	Oil- Spin On Filter Assembly with external 150 psi relief	200 (14 bar)	7/8 -14 SAE	7/8 -14 SAE	473-000-276	25	11

## OIL AND GREASE STRAINERS

473-020-468	Oil/Grease Fill-Point Strainer	3000 (207 bar)	1/4 -18 NPSF	1/4 -18 NPTF	473-020-465	149 (100 mesh)	13
473-020-469	Oil only Fill-Point Strainer	3000 (207 bar)	1/4 -18 NPSF	1/4 -18 NPTF	473-020-466	40 (325 mesh)	13
500-585-001	Oil/Grease Block Strainer	2000 (138 bar)	1/4 NPT	1/4 NPT	529-093-000	350 (40 mesh)	12
506-942-000	Oil/Grease Y Strainer	1500 (103 bar)	1/2 NPT	1/2 NPT	527-101-210	700 (20 mesh)	13

## IN-LINE OIL AND GREASE STRAINERS – HIGH PRESSURE

527-100-380	Oil/Grease – High Pressure In-Line Block Strainer	7500 (517 bar)	1/4 -18 NPTF	1/4 -18 NPTF	525-766-010	149 (100 mesh)	12
527-100-390	Oil only – High Pressure In-Line Block Strainer	7500 (517 bar)	1/4 -18 NPTF	1/4 -18 NPTF	525-766-015	40 (325 mesh)	12
527-100-750	Oil/Grease – High Pressure In-Line Block Strainer	7500 (517 bar)	9/16 -18 SAE	9/16 -18 SAE	525-766-010	149 (100 mesh)	12
527-100-760	Oil only – High Pressure In-Line Block Strainer	7500 (517 bar)	9/16 -18 SAE	9/16 -18 SAE	525-766-015	40 (325 mesh)	12
527-101-130	Oil/Grease – High Pressure In-Line Block Strainer	7500 (517 bar)	1/4 -19 BSPP	1/4 -19 BSPP	525-766-010	149 (100 mesh)	12
527-101-220	Oil only – High Pressure In-Line Block Strainer	7500 (517 bar)	1/4 -19 BSPP	1/4 -19 BSPP	525-766-015	40 (325 mesh)	12

## IN-LINE OIL FILTERS – HIGH PRESSURE

527-100-581 (Replaces 527-100-230)	Oil – High Pressure In-Line Filter	7500 (517 bar)	1/4 -18 NPTF	1/4 -18 NPTF	527-100-540 (Replaces 542-045-000)	10	14 -15
527-100-591 (Replaces 527-100-240)	Oil – High Pressure In-Line Filter	7500 (517 bar)	1/4 -18 NPTF	1/4 -18 NPTF	527-100-550 (Replaces 541-168-000)	25	14 -15
527-100-780	Oil – High Pressure In-Line Filter	7500 (517 bar)	9/16 -18 SAE	9/16 -18 SAE	527-100-540 (Replaces 542-045-000)	10	14 -15
527-100-790	Oil – High Pressure In-Line Filter	7500 (517 bar)	9/16 -18 SAE	9/16 -18 SAE	527-100-550 (Replaces 541-168-000)	25	14 -15
527-101-120	Oil – High Pressure In-Line Filter	7500 (517 bar)	1/4 -19 BSPP	1/4 -19 BSPP	527-100-540 (Replaces 542-045-000)	10	14 -15
527-100-830	Oil – High Pressure In-Line Filter	7500 (517 bar)	1/4 -19 BSPP	1/4 -19 BSPP	527-100-550 (Replaces 541-168-000)	25	14 -15

## IN-LINE OIL FILTER – LOW PRESSURE - THRIF-T-LUBER ORIFICE SYSTEM

473-000-232	Oil – Low Pressure In-Line Filter	500 (34 bar)	1/8-27 NPSF	1/8 -27 NPSF	473-000-231	25	15
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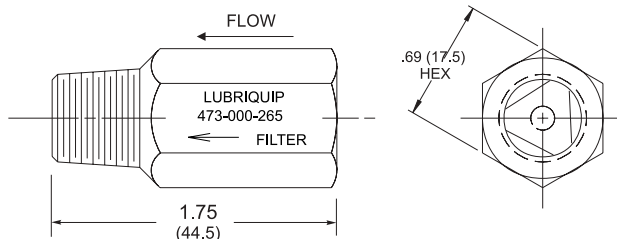
### SERIES-PROGRESSIVE DIVIDER VALVE INLET FILTERS

These in-line inlet filters are designed to fit into the NPT, SAE, or BSPP inlet ports of MSP Series-Progressive divider valve assembly standard inlet sections for the purpose of filtering the incoming lubricant a final time before entering the proportioning valve mechanisms.

**MSP Standard Inlet with NPT Ports**

**Filter: 473-000-234**

Inlet Threads (English)..... 1/4-18 NPSF  
 Outlet Threads (English)..... 1/4-18 NPTF  
 Filtration rating (Nominal)..... 10 micron  
 Filter Element: ..... Not Replaceable



**MSP Standard Inlet with NPT Ports**

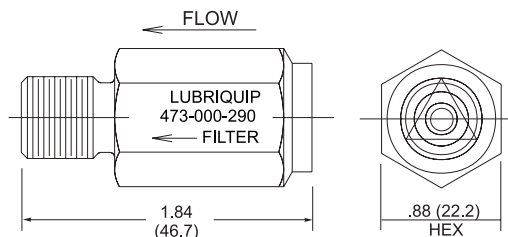
**Filter: 473-000-265**

Inlet Threads (English)..... 1/4-18 NPSF  
 Outlet Threads (English)..... 1/4-18 NPTF  
 Filtration rating (Nominal)..... 90 micron  
 Filter Element: ..... Not Replaceable

**MSP Standard Inlet with BSPP Ports**

**Filter: 473-000-290**

Inlet Threads (English)..... 1/4-19 BSPP  
 Outlet Threads (English)..... 1/4-19 BSPP  
 Filtration rating (Nominal)..... 90 micron  
 Filter Element: ..... Not Replaceable



**MSP Standard Inlet with NPT Ports**

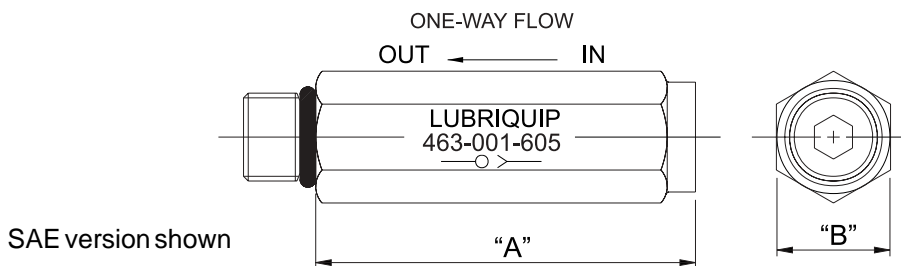
**Filter + Check Valve: 463-001-618**

Inlet Threads (English)..... 1/4-18 NPSF  
 Outlet Threads (English)..... 1/4-18 NPTF  
 Filtration rating (Nominal)..... 90 micron  
 Filter Element: ..... Not Replaceable  
 "A" Dimension..... 2.000 (51)  
 "B" Dimension..... 11/16 (17)  
 Check Valve Cracking Pressure..... 35 psi

**MSP Standard Inlet with SAE Ports**

**Filter + Check Valve: 463-001-605**

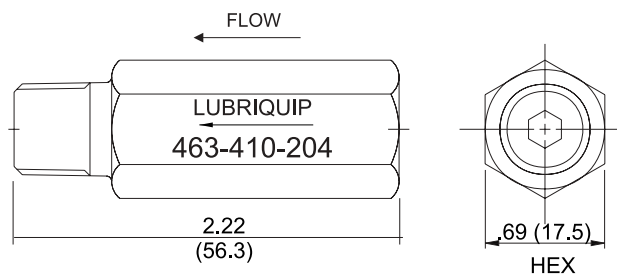
Inlet Threads (English)..... 7/16-20 SAE  
 Outlet Threads (English)..... 7/16-20 SAE  
 Filtration rating (Nominal)..... 90 micron  
 Filter Element: ..... Not Replaceable  
 "A" Dimension..... 1.89 (48.0)  
 "B" Dimension..... 0.56 (14.2)  
 Check Valve Cracking Pressure..... 35 psi



**MSP Standard Inlet with NPT Ports**

**Filter + Restrictor: 463-410-204**

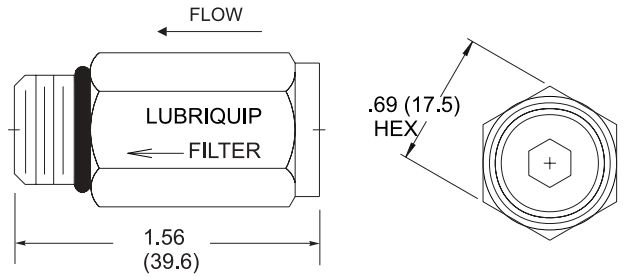
Inlet Threads (English)..... 1/4-18 NPSF  
 Outlet Threads (English)..... 1/4-18 NPTF  
 Filtration rating (Nominal)..... 90 micron  
 Filter Element: ..... Not Replaceable



**MSP Zero-Leak & Shunt Valves**

**Inlet Filter: 463-410-180**

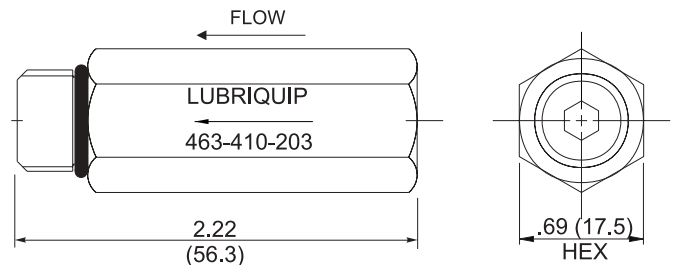
Inlet Threads (English)..... 9/16-18 SAE  
 Outlet Threads (English)..... 9/16-18 SAE  
 Filtration rating (Nominal)..... 90 micron  
 Filter Element: ..... Not Replaceable



**MSP Zero-Leak & Shunt Valves**

**Inlet Filter + Restrictor: 463-410-203**

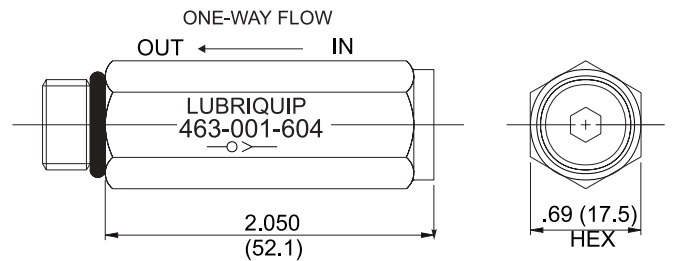
Inlet Threads (English) ..... 9/16-18 SAE  
 Outlet Threads (English) ..... 9/16-18 SAE  
 Filtration rating (Nominal)..... 90 micron  
 Filter Element: ..... Not Replaceable



**MSP Zero-Leak & Shunt Valves**

**Inlet Filter + Check Valve: 463-001-604**

Inlet Threads (English) ..... 9/16-18 SAE  
 Outlet Threads (English) ..... 9/16-18 SAE  
 Filtration rating (Nominal)..... 90 micron  
 Filter Element: ..... Not Replaceable  
 Check Valve Cracking Pressure ..... 35 psi



**PISTON DISTRIBUTOR SYSTEM IN-LINE FILTERS**

**Piston Distributor**

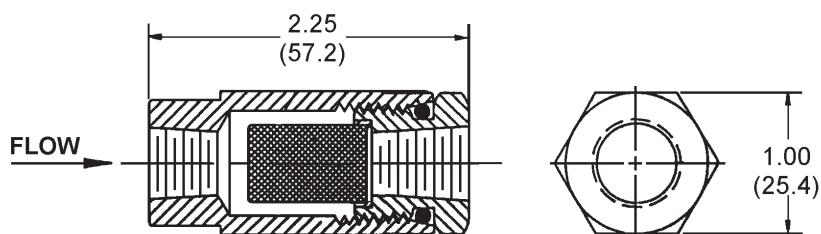
**In-Line Filter: 527-101-150**

Inlet Threads (English) ..... 1/4-19 BSPT  
 Outlet Threads (English) ..... 1/4-19 BSPT  
 Filtration rating (Nominal)..... 10 micron  
 Filter Element: ..... Non Replaceable Screen

**Piston Distributor**

**In-Line Filter: 527-101-160**

Inlet Threads (English) ..... 1/4-19 BSPT  
 Outlet Threads (English) ..... 1/4-19 BSPT  
 Filtration rating (Nominal)..... 28 micron  
 Filter Element: ..... Non Replaceable Screen



# MODULAR FILTER SECTION FOR MSP DIVIDER VALVE

## DESCRIPTION

The MSP Modular Filter Section is a high-pressure, in-line oil-only filter which prevents solid contaminants as small as 25 micron from entering the modular MSP Zero-Leak Valve, if used, MSP working sections, and downstream lubrication points. This filter is designed to trap contaminants introduced downstream of the outlet filter which may affect the operation of critical lube system components or contaminate the bearings and other lube points.

Its two-piece construction includes a base block and a replaceable filter block containing the 25 micron filter element. The base block is compatible with the MSP stackable sub-plate design. It is installed as the first section within the divider valve stack of metering valve sections, the entire assembly secured by tie rods.

A pressure-differential indicator is included to indicate when the modular filter section should be replaced.

## FEATURES/BENEFITS

- The filter provides additional filtering protection from contaminants when installed immediately upstream of the new MSP Modular inlet and/or especially Zero-Leak Valve Sections; usage is recommended in conjunction with each Zero-Leak Section.
- The capability to include the MSP Modular Filter Section within the divider valve stack eliminates the need for separate mounting and plumbing connections.
- The base block/filter block design allows the removal and replacement of the MSP Modular Filter Section without breaking line connections and introducing air or other contamination into the lubrication lines.
- A filter section can be used during initial purging and cleaning of a new system, then replaced with a clean filter section for normal operation.

- The pressure-differential indicator/monitor detects filter blockage and encourages filter replacement to prevent interference with normal system operation.

## OPERATION

The filter section is ported so that all oil entering the inlet must pass through the filter. Filter elements are replaced via replacement of the entire Modular Filter Section Block.

A spring-loaded sensing piston within the filter block operates in a bore which connects the inlet side of the filter element with the outlet side. As the pressure difference between the inlet side and the outlet side increases due to accumulation of filtered contaminants, the pressure differential overcomes the spring force and the piston shifts position. The cleanliness state of the filter is visually indicated by a red indicator pin.

When the indicator pin is extended, the entire used filter section must be replaced with a new one. Since there is no bypass or relief, increasing back pressure will be generated by the dirty filter until it is replaced.

## SPECIFICATION

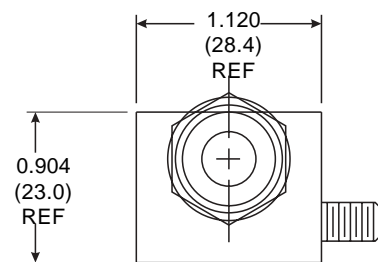
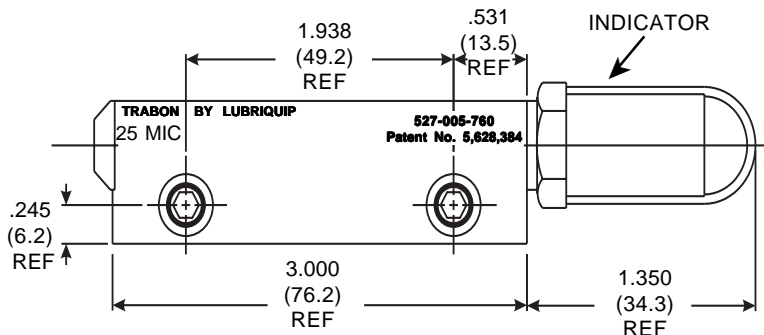
Standard Material ..... Yellow Zinc Chromated Steel  
 Pressure (Max.) ..... 3,000 psi (207 bar)  
 Maximum Oil Flow Rate ..... 9 cubic/inches per minute

Filtration Rating ..... 25 microns nominal  
 $\beta_{25} = 2.0$  (50% Efficiency)  
 $\beta_{50} = 7.0$  (86% Efficiency)

Lubricant ..... ISO VGA 32-220  
 Torque: Filter Block Mounting Screw  
 ..... p/n 419-140-070 (8-9 ft-lbs)

## COMPONENT ORDERING INFORMATION

DESCRIPTION NUMBER	PART
MSP Modular Filter Base Section	527-005-740
MSP Modular Filter Block	527-005-760





## SINGLE & DUAL CARTRIDGE TYPE FILTERS

### DESCRIPTION

Trabon® Single and Dual Cartridge Type Filter assemblies are available with 10 or 25 micron nominal filtration elements for oil lubrication systems with up to 1-1/2 gpm flow and operating pressures up to 800 psi steady state. Both single and dual filter assemblies are available with either standard or extra-length cartridges.

The Dual Filter assembly provides a face-mounted flow selector lever that directs oil to be filtered through one or the other cartridge. This provides a clean filter at the flip of the lever.



### FEATURES

- Filter elements are easily replaceable.
- Dual Filter unit's design allows either filter cartridge to be replaced while oil flow is channeled through the other filter cartridge. Eliminates downtime for filter cartridge replacement.
- Bypass relief valve is standard with both units. Reduces risk of system damage in the event the filter cartridge becomes fully contaminated.
- Non bypass units are also available (for dual cartridge type filters only.)
- Optional extra-length filter cartridge provides longer filter cartridge life. Extends intervals between filter cartridge replacement.
- Optional gauges and differential pressure indicators provide filter status monitoring capability.

### SPECIFICATION

Material: Housing .....	Cast aluminum and steel
Material: Element.....	Pleated Cellulose/Microglass
Rated pressure (steady state) .....	800 psi maximum (55 bar)
Bypass relief valve .....	Factory-set to open at 50 psi (3.4 bar)
Filter ratings .....	10 and 25 micron nominal
Lubricant .....	Oil only, 5,000 SSU max.
Weight (approx.)	
Single unit, standard element .....	5 lbs. (2.3 kg)
extra-length element .....	9 lbs. (4.1 kg)
Dual unit, standard element .....	12 lbs. (5.5 kg)
extra-length element .....	19 lbs. (8.6 kg)
Tie Bolt Assembly Torque .....	50-55 ft lbs (68-74Nm)

### OPERATION

Both the single and dual units operate in the same manner. Oil from the inlet is directed to the outside of the filter element, through the element, and then to the outlet port. The bypass relief valve opens when a pressure differential of 50 psi exists between the inlet and outlet side of the filter cartridge. This differential indicates that the filter is completely contaminated. With the bypass open, oil flows directly from the inlet to the outlet, bypassing the filter element. Non-bypass versions are also available for dual cartridge types.

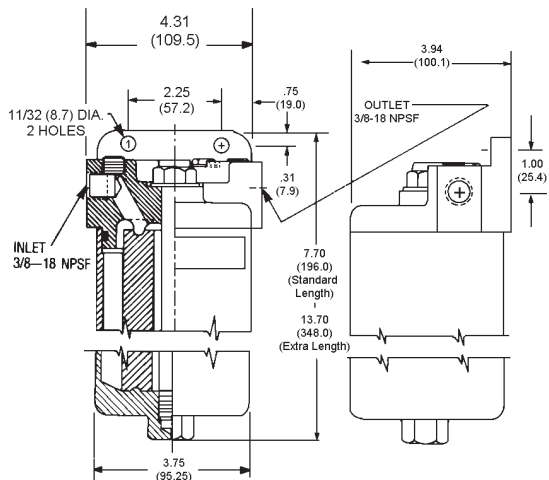
It is recommended that optional gauges be installed in both gauge ports to allow quick determination of the pressure differential. When these gauges indicate a pressure differential of 40 psi, the active filter element should be changed immediately.

When complete clogging of the filter element occurs in a single cartridge unit, **the lubricating system must be shut down and all pressure on both sides of the filter element must be totally relieved before changing the element.**

When complete clogging of a filter cartridge occurs in the dual cartridge unit, the flow selection lever should be moved to direct flow through the other filter. The clogged cartridge can then be replaced without shutting down the lubricating system. To replace a cartridge, turn the handle toward the cartridge to be replaced. This diverts lubricant flow through the opposite filter as indicated by arrow.

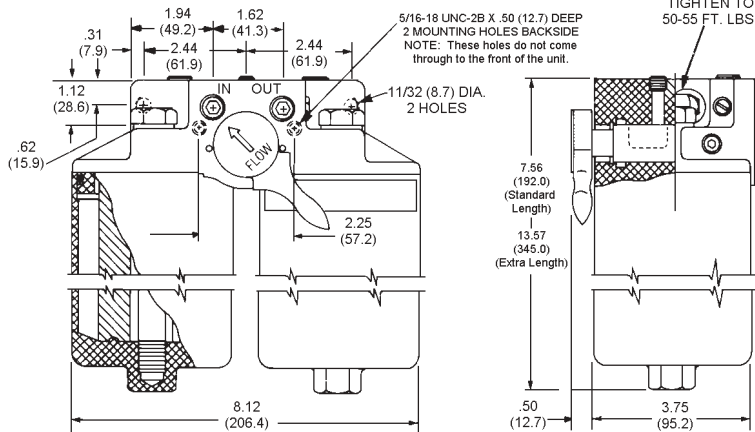
With the handle pointing down, both filters are in operation. However, this mode of operation is not recommended because both filter elements will become contaminated simultaneously, eliminating one as a clean reserve.

**SINGLE CARTRIDGE FILTER**

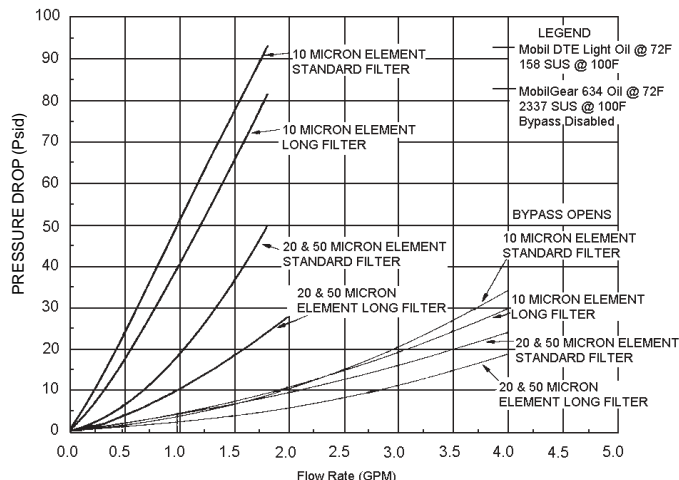


\*NOTE: Dimensions for extra-long cartridge unit only.

**DUAL CARTRIDGE FILTER**



**LUBRIQUIP CANISTER FILTER  
PRESSURE DROP vs FLOW RATE**



**MOUNTING INSTRUCTIONS**

1. Be sure to mount the filter assembly securely to a flat surface, and in an upright position. Two sets of mounting holes are provided, as shown in the dimensional drawings.
2. Be certain to allow adequate room below the assembly for removal of the filter cartridge for inspection or replacement.
3. Seal all pipe connections.  
**DO NOT USE TEFLON TYPE TAPE.**

Optional mounting bracket available for the standard length filter units. (Mounting hardware is not included.)

**HOW TO ORDER**

Gauges and mounting brackets must be ordered separately. Order a complete filter assembly using the following Part Numbers.

<b>Single Filter Assembly</b> with standard length:	
10-micron element .....	183-000-141
25-micron element .....	183-000-151
<b>Single Filter Assembly</b> with extra-length	
10-micron element .....	183-000-201
25-micron element .....	183-000-211
<b>Dual Filter Assembly</b> with standard length:	
10-micron element .....	183-000-001
25-micron element .....	183-000-011
10-micron element (non-bypass) .....	183-000-041
25-micron element (non-bypass) .....	183-000-051
<b>Dual Filter Assembly</b> with extra-length	
10-micron element .....	183-000-071
25-micron element .....	183-000-081
10-micron element (non-bypass) .....	183-000-111
25-micron element (non-bypass) .....	183-000-121

**Accessories:**

Pressure Gauge, 0 - 1,500 psi: (See Bulletin No. 15326) .....	493-020-025
Differential Pressure Indicators:	
For single filter assemblies .....	540-833-490
For dual filter assemblies .....	540-833-500

**Accessories Con't:**

Mounting Bracket (Standard Length Units) ..... 540-217-000

**Spare Parts:**

**Filter Repair Kits for Single Filter Assemblies:**

Standard filter with quad ring seal .....	560-002-840
Standard filter with o-ring seal .....	560-002-850
Extra length filter with quad ring seal .....	560-002-860
Extra length filter with o-ring seal .....	560-002-870

**Filter Repair Kits for Dual Filter Assemblies:**

Standard dual filter with quad ring seal .....	560-002-880
Standard dual filter with o-ring seal .....	560-002-890
Extra length dual filter with quad ring seal ..	560-002-900
Extra length dual filter with o-ring seal .....	560-002-910

**Replacement cartridges (Pleated Cellulose/Microglass)**

**for all current and obsolete filter Assemblies:**

10-micron standard 3.75 (95) .....	540-271-001
10-micron extra-length..9.75 (248) .....	540-274-001
25-micron standard .....3.75 (95) .....	540-272-001
25-micron extra-length..9.75 (248) .....	540-275-001
50-micron standard .....3.75 (95) .....	540-273-001
50-micron extra-length..9.75 (248) .....	540-276-001
1-2 micron standard .....3.75 (95) .....	540-690-001
1-2 micron extra-length .9.75 (248) .....	540-686-001

\* Teflon is a registered trademark of E.I. DuPont de Nemours.

# SPIN ON FILTER ASSEMBLY

## DESCRIPTION

The Trabon Spin On Filter Assemblies incorporate inexpensive and easy maintenance filters for applications up to 20 GPM (76 L/min.). Trabon's Spin On Filter is designed to provide high flow capacity filtration for filling oil tanks. It can also be used for lower flow suction line applications and return lines. It is compatible with petroleum-based oil in mobile and industrial equipment. A mere 3/4" clearance is all that is needed for removal and replacement of the cartridge.

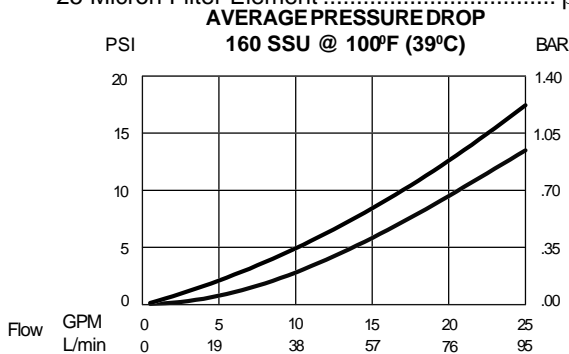
## OPERATION

Contaminated oil enters the inlet port and permeates the filtering medium causing contaminants to be trapped on its outer surface. Filtered oil then passes through the outlet port. The 10 micron assembly with integral bypass valve protects the element against line surges and high differential pressure due to contamination.

## SPECIFICATIONS

Operating Pressure ..... 200 PSI (13.8 BAR) Maximum  
 Operating Temperature ..... 250°F (121°C) Maximum  
 Standard Seals ..... Buna-N  
 Element Area ..... 450 in.<sup>2</sup> (2903 cm<sup>2</sup>)  
 Beta Rating

10 Micron Filter Element .....  $\beta_{10} = 2.2$   
 $\beta_{20} > 100$   
 25 Micron Filter Element .....  $\beta_{30} = 4$

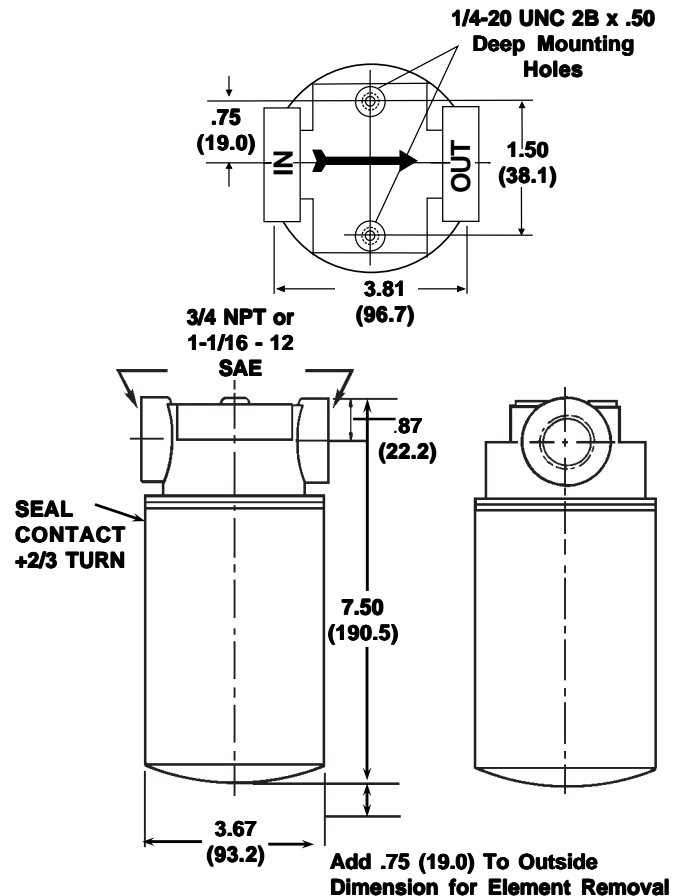


## ORDERING INFORMATION

Description	Part Number
10 Micron Spin On Filter Ass'y with Internal 25 PSI Bypass (3/4" NPT) .....	473-000-261
10 Micron Spin On Filter Ass'y with External 150 PSI Relief (3/4" NPT) .....	473-000-271
473-000-271 Spin On Filter with remote mounting kit and fill stud .....	473-000-296



10 Micron Remote Mount .....	473-000-271
Spin-on Filter Assembly with Fill Stud .....	473-000-296
25 Micron Spin On Filter Ass'y with External 150 PSI Relief (3/4" NPT) .....	473-000-275
25 Micron Spin On Filter Ass'y with External 150 PSI Relief (1-1/16 - 12 SAE) .....	473-000-282
Replacement Filter Element	
10 Micron .....	473-000-262
25 Micron .....	473-000-276
150 Micron .....	473-000-304



# LUBRICANT STRAINERS

Strainers are available in Block-Type and Y-Type configurations and are typically utilized in heavy oil and grease lubrication systems for protecting pumps, divider valves, and machine tool components.

## DESCRIPTION

These Trabon strainers are simple, compact, durable and feature readily removable, cleanable, and replaceable filtering screens.

Easily installed in new or existing lubrication systems, they can protect the entire system including the pump

against contaminants. If they are used to protect the entire system, they should be located at the reservoir fill point. In this case, pressure filling will be required. If a strainer is to protect only the divider valve, it should be installed just downstream of the pump discharge.

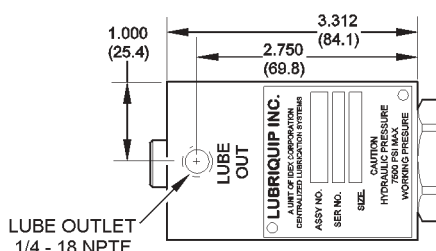
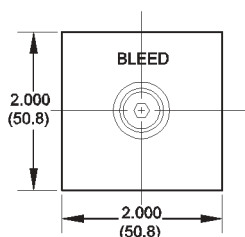
## STEEL BLOCK STRAINER WITH BLEED PORT

Rated pressure ..... 7,500 psi (517 bar)  
 Thread size ..... 1/4 inch female pipe  
 Net weight (approx.) ..... 3 lbs. (1.4 kg)



**Order Part No.**

Grease Strainer with 100-mesh (149 micron) screen SAE Ports .....	527-100-750
Grease Strainer with 100-mesh (149 micron) screen NPTF Ports .....	527-100-380
Replacement screen for above .....	525-766-010
Oil Strainer with 325-mesh (40 micron) screen SAE Ports .....	527-100-760
Oil Strainer with 325-mesh (40 micron) screen NPTF Ports .....	527-100-390
Replacement screen for above .....	525-766-015
Grease Strainer with 100-mesh (149 micron) screen BSPP Ports .....	527-101-130
Replacement screen for above .....	525-766-010
Oil Strainer with 325-mesh (40 micron) screen BSPP Ports .....	527-101-220
Replacement screen for above .....	525-766-015
Grease Strainer with 100 mesh (149 micron) screen ISO 6149 (M14x1.5) ports .....	527-101-255

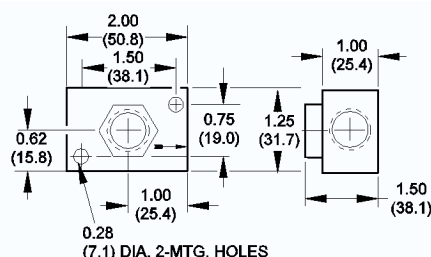


## STEEL BLOCK GREASE STRAINER

Rated pressure ..... 2,000 psi (138 bars)  
 Thread size ..... 1/4 inch female pipe  
 Net weight ..... 0.625 lbs. (0.283 kg)

**Order Part No.**

Block strainer with 40-mesh (350 micron) screen ..... 500-585-001  
 Replacement screen for above ..... 529-093-000

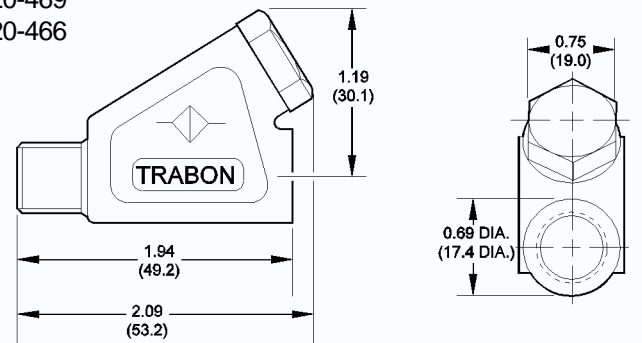


**BRASS FILL POINT STRAINER  
(with removable element)**

Rated pressure ..... 3,000 psi (207 bar)  
 Thread size ..... 1/4 NPT  
 Net weight (approx.) ..... 2 oz. (0.06 kg)

**Order Part No.**

Grease Strainer with 100-mesh (149 micron) screen ----- 473-020-468  
 Replacement screen for above ----- 473-020-465  
 Oil Strainer with 325-mesh (44 micron) screen ----- 473-020-469  
 Replacement screen for above ----- 473-020-466

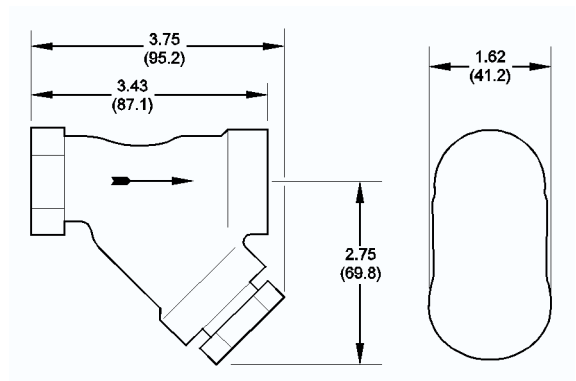


**CAST STEEL Y-STRAINER**

Rated pressure ..... 1,500 psi (103 bar)  
 Thread size ..... 1/2 NPT female pipe  
 Net weight (approx.) ..... 1.13 lbs. (0.51 kg)

**Order Part No.**

Grease Strainer with 20-mesh (700 micron) screen ----- 506-942-000  
 Replacement screen for above ----- 527-101-210



## HIGH - PRESSURE IN-LINE OIL FILTERS

### DESCRIPTION

The Lubriquip High Pressure Line Filter is designed for hydraulic or oil lubrication systems with pressures up to 7,500 psi (510 bar). It removes particles from systems larger than 10 or 25 microns and reduces downtime for a system due to inadequate filtering or contaminated lubricant.

### FEATURE/BENEFITS

- Replaceable filter assembly.
- Simple and compact in design.
- Easy to install on any new or existing system.
- Filter assembly can be changed without disturbing piping or tubing.
- Filter is permanently mounted to end plug, ensuring system operation only with filter element installed in line.
- Integral air-bleed port for installation and maintenance convenience.
- Alternative inlet and outlet ports for piping convenience.

### OPERATION

Install the filter in the output line of the pump to provide filtration of the oil entering the system. The oil passes through the filter assembly from the inlet port to the outlet port. Recommended mounting position is with the bleed port on top. See outline drawing with mounting dimensions on page 14.

This filter is designed to allow contaminated filter elements to be changed without removing existing piping or tubing. Simply remove the used filter assembly and replace with a new clean assembly. Refer to the drawing on page 14.

NOTE: Do not attempt to replace filter assembly with any residual pressure in system.

### SPECIFICATIONS

Material (Body) .....	Steel
Filter Rating (Nominal Filtration) .....	10 or 25 microns
Maximum Pressure .....	7,500 psi (510 bar)
Net Weight .....	Approx. 3 lbs. (1.4 kg)



### ORDERING INFORMATION

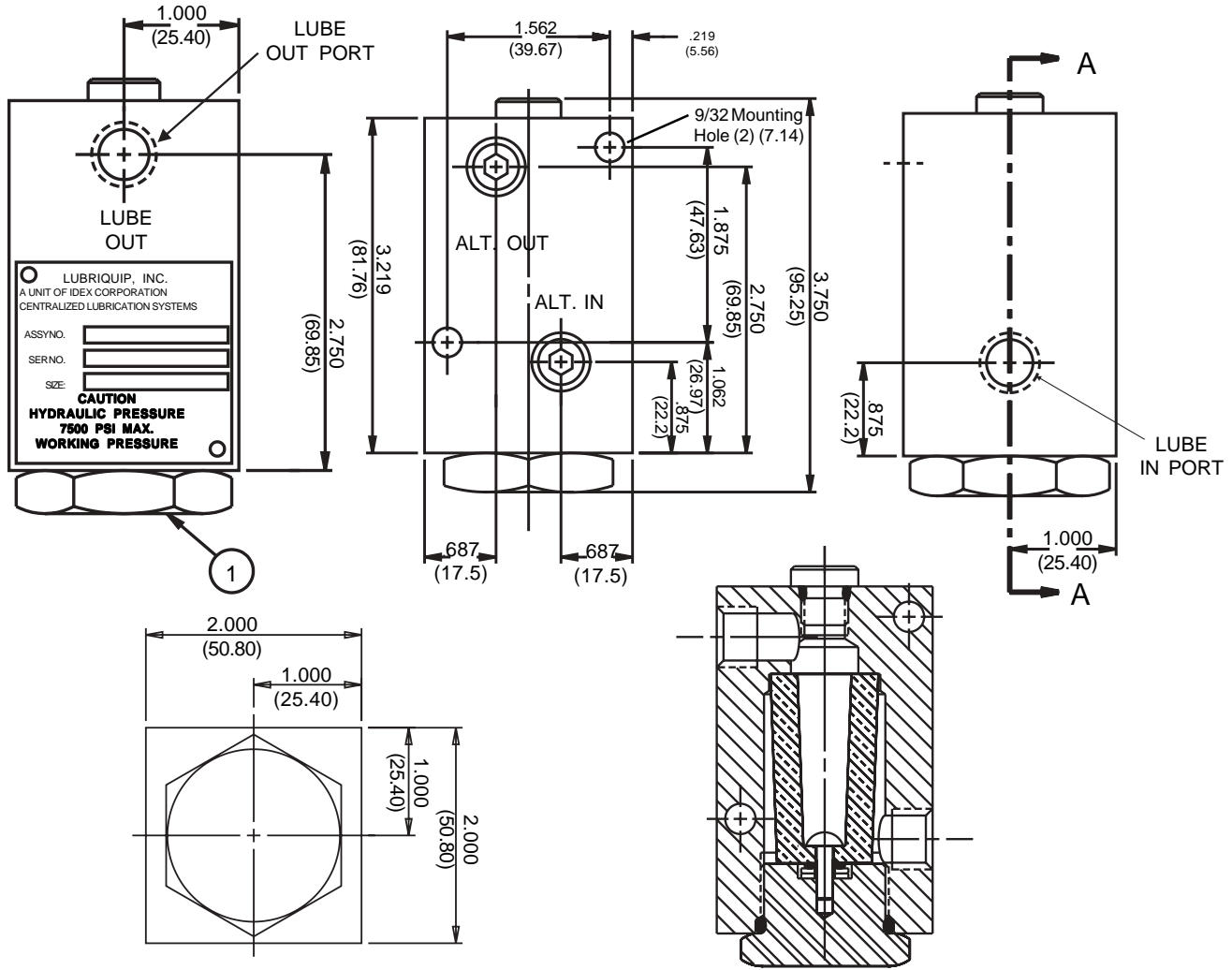
#### FILTER ASSEMBLY WITH 10 MICRON FILTER ELEMENT

- 1/4-18 N.P.T.F. Inlets/Outlets: 527-100-581  
(Filtration Ratios:  $\beta_{10} = 7$ ;  $\beta_{25} = 390$ )
- 9/16-18 SAE O-Ring Inlets/Outlets: 527-100-780  
(Filtration Ratios:  $\beta_{10} = 7$ ;  $\beta_{25} = 390$ )
- 1/4-19 BSPP Inlets/Outlets: 527-101-120  
(Filtration Ratios:  $\beta_{10} = 7$ ;  $\beta_{25} = 390$ )
- 14 mm x 1.5 (ISO 6149): 527-101-223  
(Filtration Ratios:  $\beta_{10} = 7$ ;  $\beta_{25} = 390$ )

#### FILTER ASSEMBLIES WITH 25 MICRON FILTER ELEMENT

- 1/4-18 N.P.T.F. Inlets/Outlets: 527-100-591  
(Filtration Ratios:  $\beta_{25} = 4$ ;  $\beta_{50} = 138$ )
- 9/16-18 SAE O-Ring Inlets/Outlets: 527-100-790  
(Filtration Ratios:  $\beta_{25} = 4$ ;  $\beta_{50} = 138$ )
- 1/4-19 BSPP Inlets/Outlets: 527-100-830  
(Filtration Ratios:  $\beta_{25} = 4$ ;  $\beta_{50} = 138$ )
- 14 mm x 1.5 (ISO 6149): 527-101-224  
(Filtration Ratios:  $\beta_{25} = 4$ ;  $\beta_{50} = 138$ )
- 14 mm x 1.5 (ISO 6149), 40 Micron: 527-101-225
- 14 mm x 1.5 (ISO 6149), 90 Micron: 527-101-226

**DIMENSIONS Inches (mm)**



**PARTS LIST**

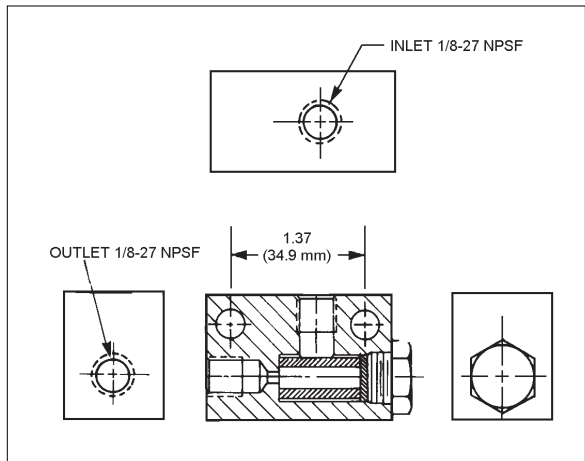
ITEM	PARTNO.	DESCRIPTION
1	527-100-540	End Plug / Filter Assembly with 10 Micron Filter Element
1	527-100-550	End Plug / Filter Assembly with 25 Micron Filter Element
1	521-100-560	End Plug / Filter Assembly with 40 Micron Filter Element
1	521-100-570	End Plug / Filter Assembly with 90 Micron Filter Element

**THRIF-T LUBER  
LOW-PRESSURE IN-LINE OIL FILTER**

In-Line Filter - Helps keep contaminants that get past the pump's screen/strainer from clogging orifice filters. Comes complete with filter body, 25-micron filter element, gaskets and closure plug. Measures 2.06 in. (52.4 mm) long, 1.00 in. (25.4 mm) deep and 1.25 in. (31.8 mm) high.

Model: TLLF-00. Part No. 473-000-232.

Replacement Element 473-000-231  
Replacement Plug Gasket 500-130-000



# LUBRIQUIP MISSION STATEMENT

Lubriquip  
is dedicated to  
being the leading  
worldwide provider  
of high quality  
lubrication and  
dispensing solutions.

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*Lubrication & Dispensing Solutions*

