



## In-Tank Filters Disposable Filter Cartridge Type

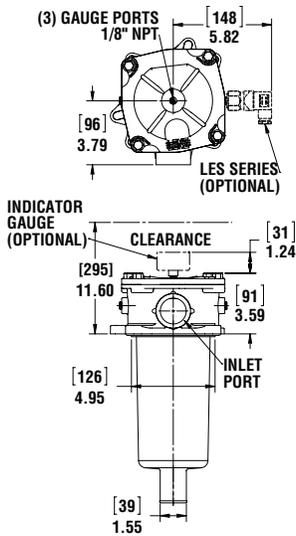
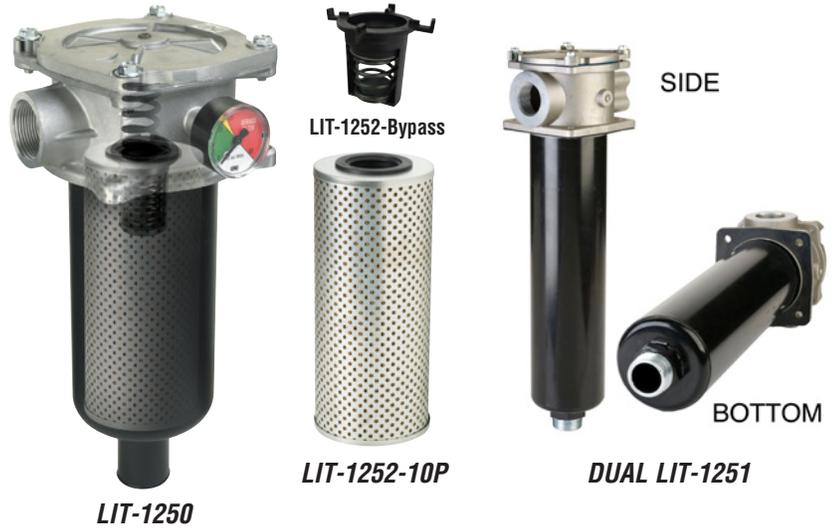
### Return Line Application Model "LIT" Series LIT-1250

#### Specifications

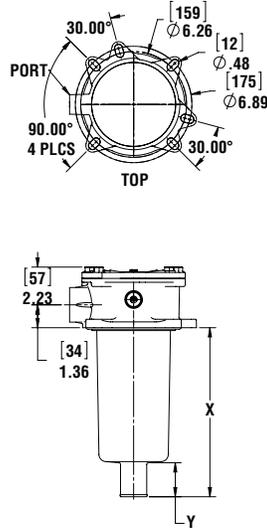
- Working pressure 100 PSI (7 Bar)
- Operating temperatures -22°F to +212°F (-32°C to +100°C)
- Flows to 55 GPM (208 LPM) return
- 1 1/4" ports aluminum casting
- Buna seals
- Compatible with mineral oils HH, HL, HM, HR, HV, HG, according to ISO 6743/4
- Steel hose bead bowl
- 25 PSD. bypass option for return
- Steel bowl 1 1/4" ports
- Magnet on lid

#### Options

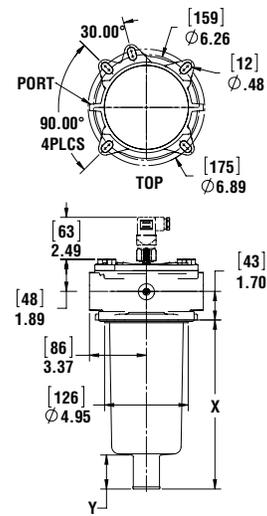
- NPT or SAE Ports
- 10, 25 micron cellulose, synthetic elements
- Water absorbing elements
- Visual or electric indicators
- 140 micron wire mesh elements
- Dual ports available on 1250
- Weld Riser available for LIT-1250  
*(see Tech Bulletin: TB.FIL.06.708)*



LIT-1250



DUAL-LIT-1250



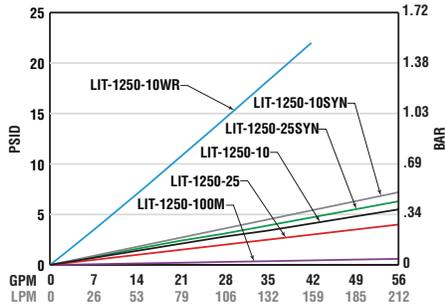
### Dual LIT Port Housing

	Inlet A	Inlet B
Dual LIT-1250	1 1/4" NPT	1 1/2" Flange - 1 1/4" NPT
Dual LITA-1250	1 5/8"-12 SAE	1 1/2" Flange - 1 5/8"-12 SAE

### Bowl Length Options

	Hose Bead	L1	L2	
X	8.9	8.9	17.4	in
	227	227	441	mm
Y	1.2	1.7	1.7	in
	30	42	42	mm

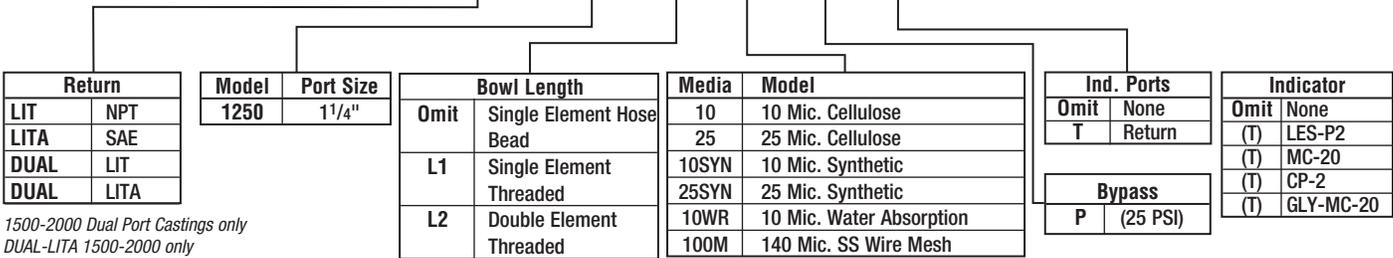
See Technical Bulletin TB.FIL9.708, TB.FIL11.708, TB.FIL20.708, for further information at [www.lenzinc.com](http://www.lenzinc.com) (Technical Data – www.lenzinc.com)



Temperature 100°F Viscosity 150 SUS  
Average pressure drop through clean assembly  
(the above data is for a single element)

## Assembly Ordering Code

LIT - 1250 - - 10 - P - T



1500-2000 Dual Port Castings only  
DUAL-LITA 1500-2000 only



For indicator gauge specifications and ordering information see pages 38a-39a

*\*Indicators ordered and shipped separately*

## Replacement Elements

Model Number	Media	in	cm	B=2/20/75	Dirt Holding
LIT-1252-10P	10 Micron Cellulose	1120	7220	6μ/8μ/13μ	34
LIT-1252-25P	25 Micron Cellulose	1120	7220	24μ/35μ/43μ	44
LIT-1252-10SYN	10 Micron Synthetic	1120	7220	3μ/5.5μ/12μ	34
LIT-1252-10WR	10 Micron Water Removal	452	2916	10μ/18μ	14 Ounces
LIT-1252-100M	140 Micron Wire Mesh	310	1991	140μ	N/A

Beta Rating of 2 = 50% Efficiency  
Beta Rating of 20 = 95% Efficiency  
Beta Rating of 75 = 98.7% Efficiency  
Note: 45 PSI Pressure Drop Maximum

LIT-1252 elements meet HF 4 specifications.  
Element area & dirt holding shown are for one element.



## General Filter Specifications

### Bypasses

Differential opening set value + - 10%

### Medias

<b>Cellulose</b>	Resin impregnated paper
<b>Synthetic</b>	Inorganic micro fiber
<b>Wire Mesh</b>	140 micron, 100 mesh stainless Steel
<b>Water Removal</b>	10 micron resin impregnated paper

### Compatibility of Fluids with Filter Heads & Bowls Per ISO 6743/4

**Mineral oils** (types HH, HL, HM, HR, HV)  
**Water based emulsions** (types HFAE, HFAS)  
**Synthetic fluids** (types HS, HFDR, HFDS, HFFU)  
**Water glycol** (types HFC)



LIT-1252-Bypass



LIT-1252-10P



CP-752-10

### Compatibility of Fluids with Filter Elements Per ISO 2943

**Mineral oils** (types HH, HL, HM, HR, HV, HG) ISO 6743/4  
**Synthetic fluids** (types A & M series only)  
**Water based emulsions** consult Lenz for further information

## Compatibility of Fluids with Seals Per ISO 6743/4

### Nitrile (Buna N)

**Mineral Oils** (HH, HL, HM, HR, HV, HG)  
**Water emulsion** (HFAE, HFAS)  
**Water glycol** (HFC)

### Viton seals

**Synthetic fluids** (types HS, HFDR, HFDS, HFDU)

### Indicator Options

**Visual** Suction & return visual gauges  
**Electrical** Suction & return electrical switches  
**Differential** Return indicators

### Mineral Oil Types

**HH** Non inhibited refined mineral oils  
**HL** Refined mineral oils with anti-oxidation and anti-rust properties  
**HM** HL fluids with improved anti wear  
**HR** HL oils with VI improvers  
**HV** Lubricants with high viscosity  
**HG** HM oils with anti-stick slip properties

### Water Based Emulsion Types

**HFAE** Oil water emulsions or aqueous fluids which are further with additional letters  
**HFAS** Solutions of chemicals containing minimum 80% of water  
**HFC** Aqueous solutions with viscosity-increasing additives and minimum 35% mass water

### Synthetic Fluid Types

**HFDU** Fire resistant fluids of other compositions  
**HFDS** HFD based upon phosphoric acid ester  
**HS** Synthetic fluids with no specific fire resistant properties  
**HFDR** HFD based on halogen-containing compounds





## 2" Diameter Filter Indicating Gauges



**MC-12**  
Return Line Indicating Gauge  
for **15 PSI** Filter Applications  
2" Multi color  
0-12 PSI Green  
12-15 PSI Yellow  
15-60 PSI Red (Service Filter)  
*(To be used with "T" Indicator Port Location)*



**MC-20**  
Return Line Indicating Gauge  
for **25 PSI** Filter Applications  
2" Multi color  
0-20 PSI Green  
21-24 PSI Yellow  
25-60 PSI Red (Service Filter)  
*(To be used with "T" Indicator Port Location)*



**CP-2**  
**Compound Indicating Gauge**  
(Suction or Return Line)  
10" to 30" Vacuum is a Red Danger Area.  
0-60 PSI  
A Red "Change Filter" Sticker for the Pressure side is included with each gauge for application after the pressure factor is determined.  
*(To be used with "T" or "S" Indicator Port Location)*



**GLY-MC-20**  
Glycerin Filled  
Return Line Indicating Gauge  
for **25 PSI** Filter Applications  
2" Multi color  
0-20 PSI Green  
21-24 PSI Yellow  
25-60 PSI Red (Service Filter)  
*(To be used with "T" Indicator Port Location)*



**135080**  
Suction Line Indicating Gauge for  
**5 PSI** vacuum filter application  
2" Multi color  
0-9" HG Green  
9-11" HG Yellow  
11-30" HG Red (Service Filter)  
*(To be used with "S" Indicator Port Location)*

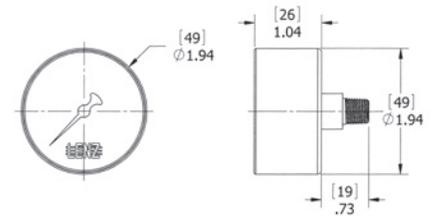


**VAC-3-20**  
Suction Line Indicating Gauge  
for **3 PSI** vacuum filter applications  
2" Multi color  
0-3" HG Green  
4-6" HG Yellow  
6-30" HG Red (Service Filter)  
*(To be used with "S" Indicator Port Location)*

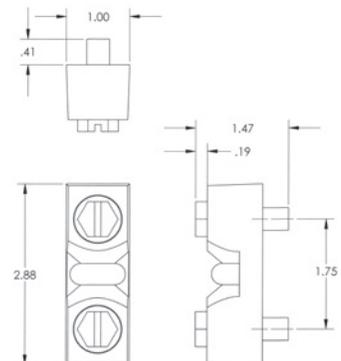


**Differential Indicator DP-75**  
Simple differential sliding indicator which changes from green to red at 7 PSID.  
0 - 7 PSID. Green Clean  
7 - 10 PSID. Red Service Filter  
CP Series (500, 750, 1010, 1280, 1580)

*\*Indicators ordered and shipped separately*



**DIAL INDICATOR**



**DP-75**



## Electrical Filter Indicators

### Field Adjustable

#### Specifications:

- 1/8 NPT connection
- 3 AMP 12/24 VDC, 125/250 VAC IP67
- +/- 2% repeatability of full set point range @ 70°F
- Operating temperature 40°F to +250°F (-40°C to 121°C)
- 1,000,000 cycles mechanical range
- Maximum pressure 500 (25 BAR) PSI
- Steel housing, zinc plated
- Buna N diaphragm
- SPDT snap action switch

#### Options:

- EPDM seals -10°F – 250°F (-23°C – 121°C)
- Viton seals 0 – 250°F (-18°C – 121°C)
- Flying leads

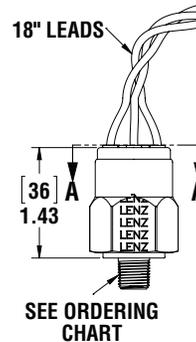
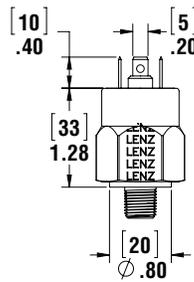
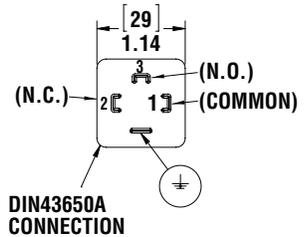
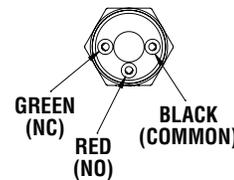
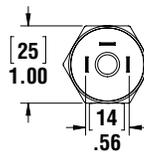


LES-FL

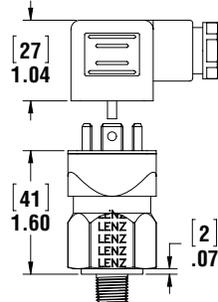


LES-HC

Model	Adjustment Range	Average Differential	Set Pressure
P1	3-20 PSI (.2-1.4 BAR)	2-5 PSI (.13-0.4 BAR)	15 PSI
P2	15-80 PSI (1.03-6 BAR)	4-7 PSI (.27-0.5 BAR)	22 PSI
V1	5-28 in Hg (160-948mb)	2-4 INHg (67-135mb)	5 Hg



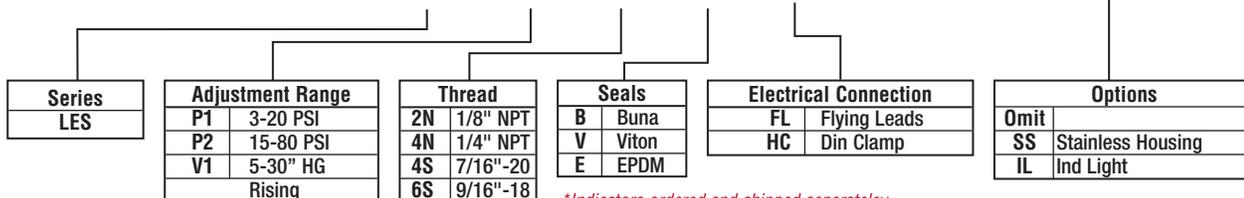
LES-FL



LES-HC

## Switch Ordering Code

LES – P1 – 2N – B – HC –



\*Indicators ordered and shipped separately

Switch can be used in AC or DC Service.  
For other options consult factory.  
Switch does not indicate differential pressure

See Technical Bulletin TB.FIL23.912, or further information at  
(Technical Data – www.lenzinc.com)