



In-Tank Filters Disposable Filter Cartridge Type

Return Line Application

Model "RTF" 500, 750, 1000, 1250

Specifications

- Working pressure 150 PSI (10 bar)
- Operating temperatures -22°F to +212°F (-32°C to +100°C)
- Flows to 46 GPM, (175 LPM)
- Bypass 25 PSI (1 bar)
- Compatible with mineral oils HH, HL, HM, HR, HV, HG, water according to ISO 6743/4
- Aluminum casting - bowl
- Magnet on lid

Options

- NPT or SAE ports
- 10, 25 micron cellulose, synthetic elements
- Dual port filter 1000 and 1250 Series
- Visual or electrical indicators



**RTF-500,
750, 1000,
1250**

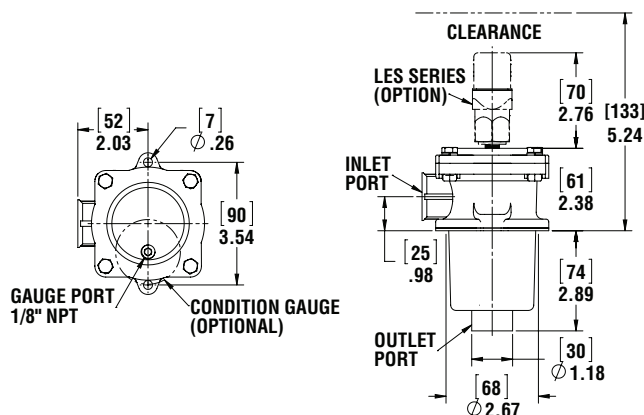


**DUAL RTF-
1000, 1250**

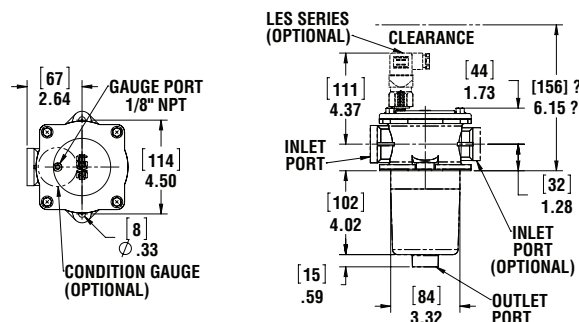


LIT-1252

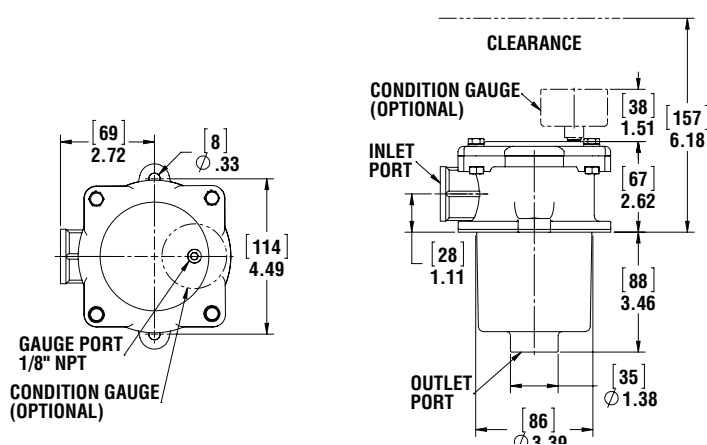
RTF-500



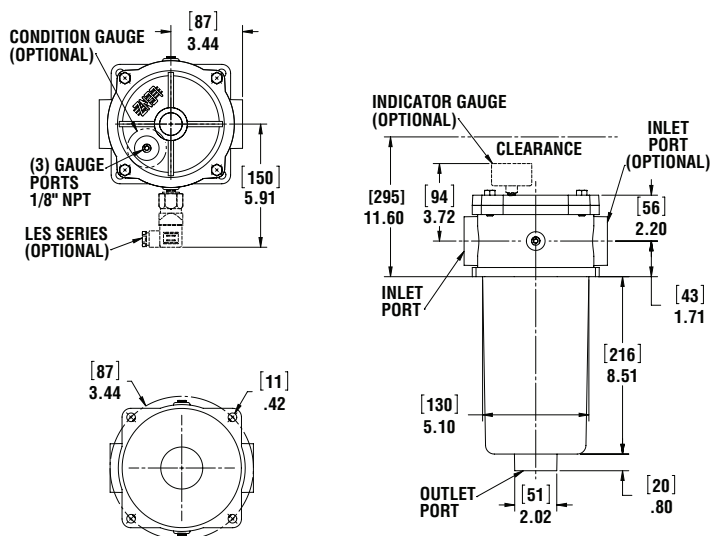
RTF-1000



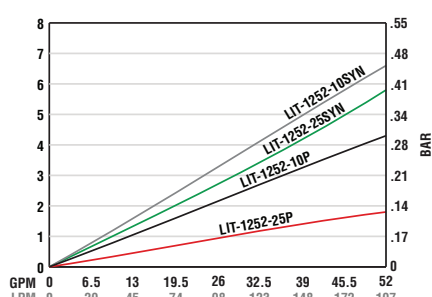
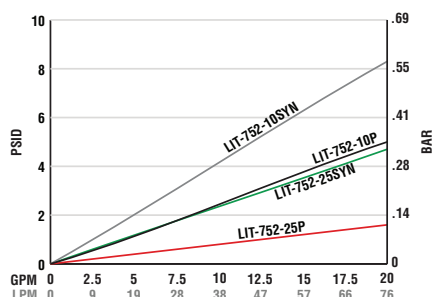
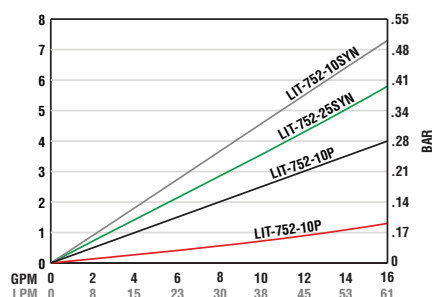
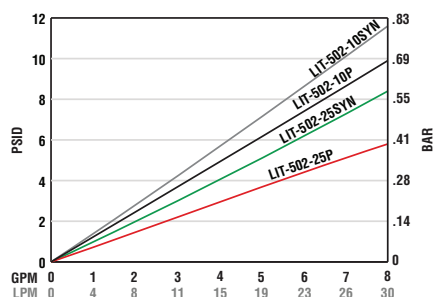
RTF-750



RTF-1250



See Technical Bulletin TB.FIL09.708, TB.FIL11.708, TB.FIL20.708, for further information at (Technical Data – www.lenzinc.com)



Temperature 100° F Viscosity 150 SUS
Average pressure drop through clean assembly

Assembly Ordering Code

RTF — 500 — 10 — R — T

Series	Model	Port Size	Media		Bypass	Ind Ports
RTF	500	1/2" Port	10	10 Micron Cellulose	*R (25 PSI)	Omit None
DUAL-RTF	750	3/4" Port	25	25 Micron Cellulose		T 1/8" NPT
	1000	1" Port	10SYN	10 Micron Synthetic		
	1250	1 1/4" Port	25SYN	25 Micron Synthetic		

*Dual port "x" available on RTF 1000, 1250 only

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

*Indicators ordered and shipped separately



Replacement Elements

Filter Model	Element Number	Media	in ²	cm ²	B(X)=2/20/75	Dirt Holding Capacity
RTF-500	LIT-502-10P	10 Micron Cellulose	110	710	6μ/8μ/13μ	3
	LIT-502-25P	25 Micron Cellulose	110	710	24μ/35μ/43μ	4
	LIT-502-10SYN	10 Micron Synthetic	78	500	3μ/5.5μ/12μ	5
	LIT-502-25SYN	25 Micron Synthetic	78	500	7μ/16μ/23μ	6
RTF-750	TIE-752-10P	10 Micron Cellulose	190	1225	6μ/8μ/13μ	6
	TIE-752-25P	25 Micron Cellulose	190	1225	24μ/35μ/43μ	8
	TIE-752-10SYN	10 Micron Synthetic	136	875	3μ/5.5μ/12μ	8
	TIE-752-25SYN	25 Micron Synthetic	136	875	7μ/16μ/23μ	9.5
RTF-1000	LIT-752-10P	10 Micron Cellulose	380	2450	6μ/8μ/13μ	11
	LIT-752-25P	25 Micron Cellulose	380	2450	24μ/35μ/43μ	15
	LIT-752-10SYN	10 Micron Synthetic	271	1750	3μ/5.5μ/12μ	16
	LIT-752-25SYN	25 Micron Synthetic	271	1750	7μ/16μ/23μ	19
RTF-1250	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 Absorption	452	2916	10μ/18μ	14 Ounces
	LIT-1252-100M	100 Mesh SS 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



General Filter Specifications

Bypasses

Differential opening set value + - 10%

Medias

Cellulose	Resin impregnated paper
Synthetic	Inorganic micro fiber
Wire Mesh	140 micron, 100 mesh stainless Steel
Water Removal	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)

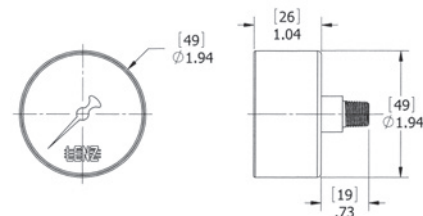


Differential Indicator DP-75

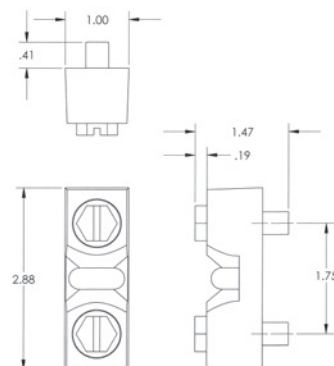
Simple differential sliding
indicator which changes from
green to red at 7 PSID.

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

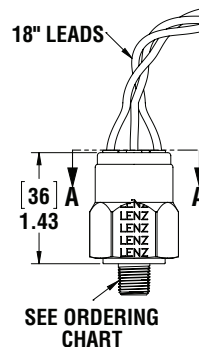
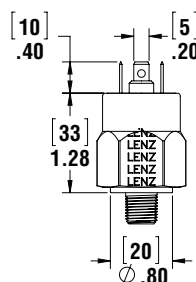
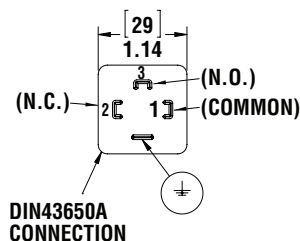
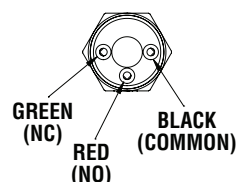
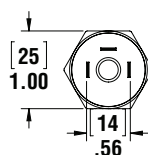


LES-FL

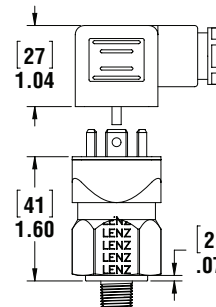


LES-HC

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 –

Series	Adjustment Range	Thread	Seals	Electrical Connection	Options
LES	P1 3-20 PSI P2 15-80 PSI V1 5-30" HG Rising	2N 1/8" NPT 4N 1/4" NPT 4S 7/16"-20 6S 9/16"-18	B Buna V Viton E EPDM	FL Flying Leads HC Din Clamp	Omit SS Stainless Housing IL Ind Light

**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)