



## Canister Filters/Disposable Type

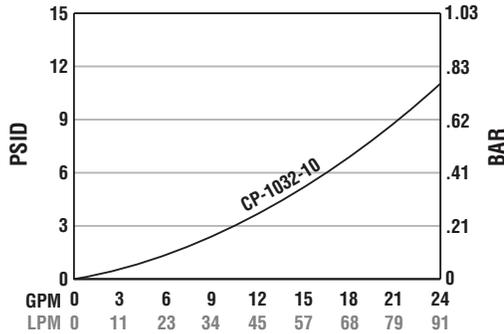
### Suction or Return Line Application Model Series CP-1030

#### Specifications

- Working pressure 200 PSI (14 Bar) 80 PSI ΔP w/o bypass
- Operating Temperatures -22°F to +212°F (-32°C to +100°C)
- Flows to 25 GPM (96 LPM) Return
- Flows to 5 GPM (19 LPM) Suction
- 1" Ports
- Aluminum Casting — Die Cast
- Buna Seals
- Compatible with mineral oils HH, HL, HM, HR, HV, HG, water according to ISO 6743/4
- Element post threads 1 1/8"-16 UNF
- 2-3 (lbs.), 1.4 (kgs.) shipping weight

#### Options

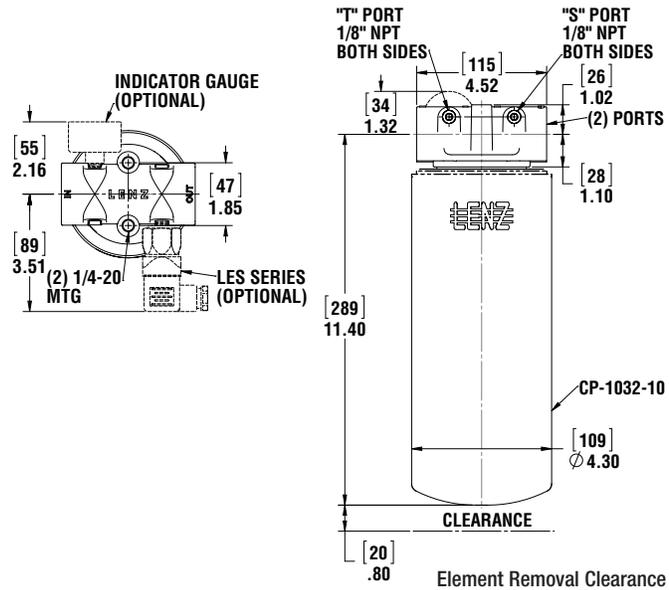
- NPT or SAE Ports
- 10, micron cellulose
- Visual or electrical indicators
- 2.5, 5, 15, 25, blocked bypass options for suction or return



CP-1030 Series



CP-1032-10



### Assembly Ordering Code

CP - 1030 - 10 - P - T

<b>Series</b> CP NPT CPA SAE	<b>Model</b> 1030	<b>Media</b> 10	<b>Model</b> 10 Micron Cellulose	<b>Bypass</b> P (15 PSI) R (25 PSI) V (5 PSI) H (2.5 PSI) B (NO Bypass)	<b>Ind. Ports</b> Omit None T 1/8 NPT Return S 1/8 NPT Suction T, S ALL PORTS
------------------------------------	----------------------	--------------------	--	--	---



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

*\*Indicators ordered and shipped separately*

### Filter Head Ordering Code

CP - 1031 - R - T -

<b>Series</b> CP NPT CPA SAE	<b>Ports</b> 1031	<b>Bypass</b> P (15 PSI) H (2.5 PSI) R (25 PSI) V (5 PSI) B None	<b>Ind. Ports</b> Omit None T 1/8 NPT Return S 1/8 NPT Suction	<b>Indicators</b> Omit (T) MC-12 (T) MC-20 (T,S) CP-2 (T) GLY-MC-20 (S) 135080 (S) VAC-3-20 DP-75 (T) LES-P1 (T) LES-P2 (S) LES-V1
------------------------------------	----------------------	---	---	---

### Replacement Elements

Model Number	Media Type Micron	In Area	CM Area	Element Thread	Rating B(X)=2/20/75	Dirt Holding Capacity (Grams)
CP-1032-10	10 Cellulose	1672	10787	1 1/8-16 UNF	8/33/53	54

Beta Rating Of 2 = 50 % Efficiency  
Beta Rating Of 20 = 95 % Efficiency  
Beta Rating Of 75 = 98.7 % Efficiency  
Note: 80 PSI Pressure Drop Maximum  
Without Bypass Valve In Filter Head



## 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)*



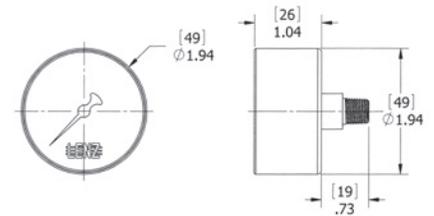
**VAC-3-20**  
Suction Line Indicating Gauge  
for 3 PSI vacuum filter applications  
2" Multi color  
0-3" HG Green  
4-6" HG Yellow  
6-30" HG Red (Service Filter)  
*(To be used with "S" Indicator Port Location)*



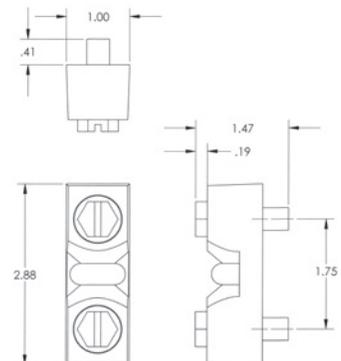
### Differential Indicator DP-75

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

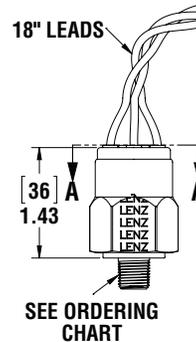
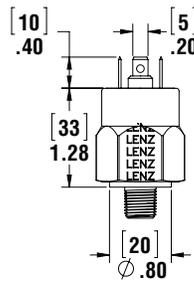
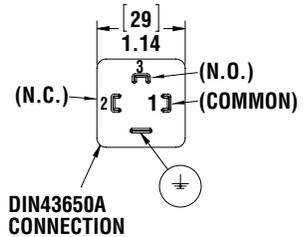
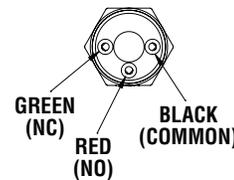
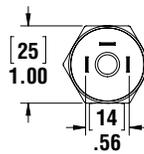


LES-FL

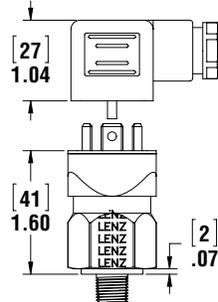


LES-HC

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



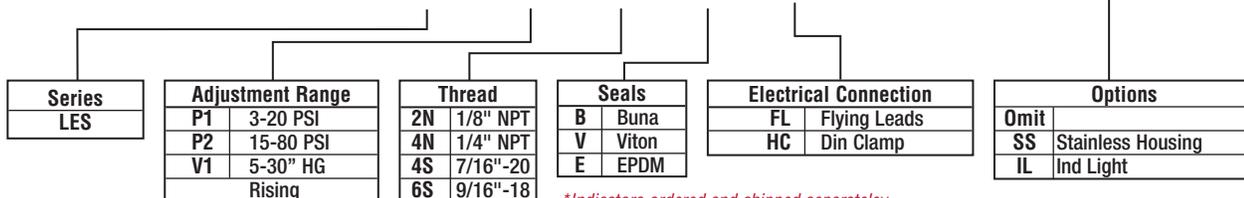
LES-FL



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](http://www.lenzinc.com))