



## Canister Filters/Disposable Type

Suction or Return Line Application  
Model Series-CP (NPT & SAE Ports)

CP-1500, 1520

### Specifications

- Working pressure 150 PSI (10 Bar) 80 PSI ΔP w/o bypass
- Operating Temperatures -22°F to +212°F (-32°C to +100°C)
- Flows to 120 GPM (455 LPM) Return
- Flows to 35 GPM (132 LPM) Suction
- Aluminum casting
- Buna Seals
- Compatible with mineral oils HH, HL, HM, HR, HV, HG, according to ISO 6743/4
- Element post threads 1 1/2"-16 UNF or 1 1/4" BSP
- 9-11 (lbs), 4-5 (kgs) shipping weight
- 1 1/2" NPT Ports, 1500 SAE Flange

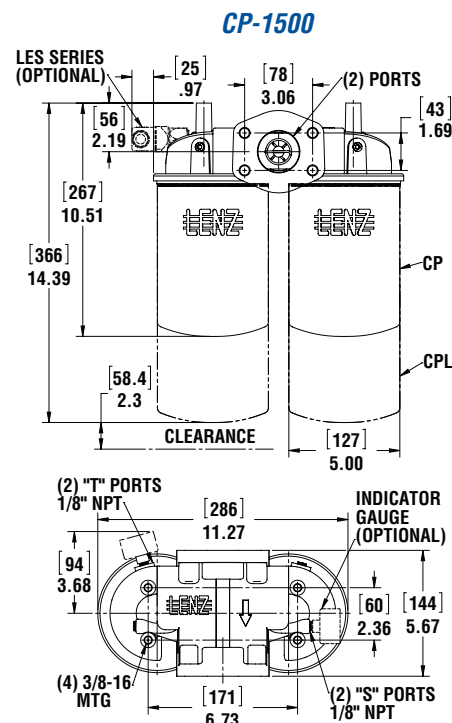
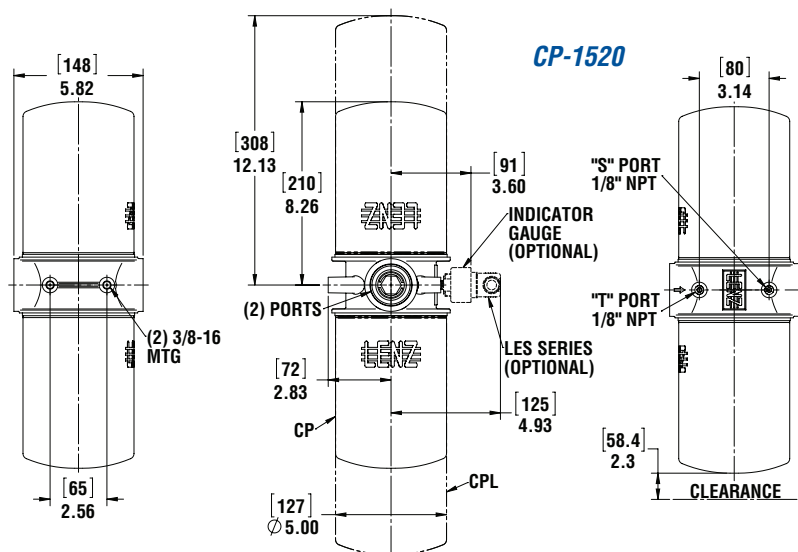
### Options

- 10, 25, 100 micron cellulose, wire mesh & 3, 6, 10, 25, synthetic elements
- Water absorbing elements
- Visual or electrical indicators
- 2.5, 5, 15, 25, PSID., blocked bypass options for suction or return
- 100 wire mesh elements



CP-1500 Series

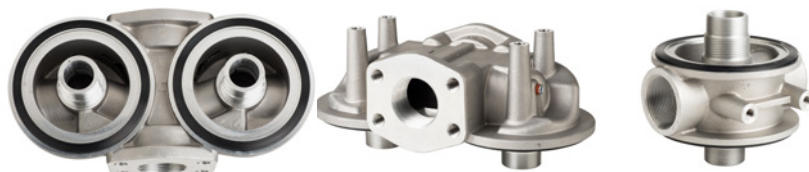
CP-1520 Series



Use LENZ Flange W43-32-32 on CP-1500,  
CPA-1500 if needed

## Filter Head Ordering Code

CP — 1521 — R — T



CP-1501

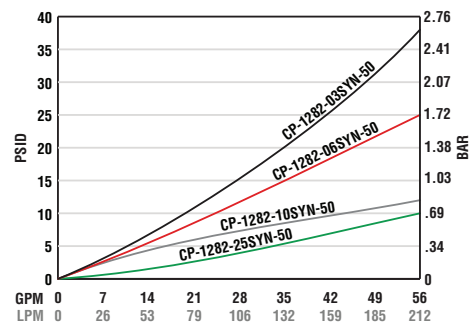
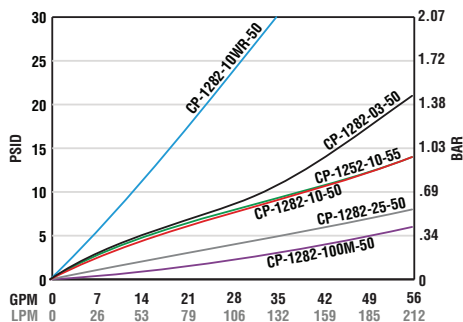
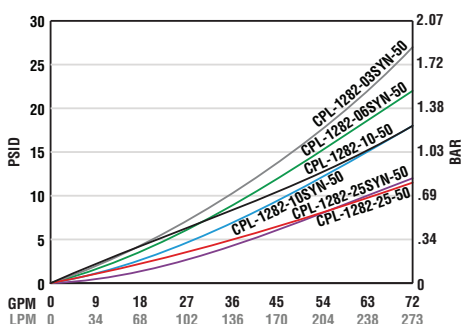
CP-1521

The dual post thread on this head accepts both  
European and North American standard filter elements.

Model	Bypass	Ind. Ports	Indicating Gauges
1521	P (15 PSI)	Omit	Omit
1501	H (2.5 PSI)	T 1/8 NPT	(T) MC-12
	R (25 PSI)	Return	(T) MC-20
	V (5 PSI)	S 1/8 NPT	(T,S) CP-2
	B (None)	Suction	(T) GLY-MC-20
		T, S ALL PORTS	(S) 135080
			(S) VAC-3-20
			(T) LES-P1
			(T) LES-P2
			(S) LES-V1

\*Indicators ordered and shipped separately

See Technical Bulletin TB.FIL01.708, TB.FIL04.708, TB.FIL09.708, TB.FIL11.708, TB.FIL13.708, TB.FIL16.708, for further information at (Technical Data – [www.lenzinc.com](http://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

CP - L - 1500 - 10 - R - T

Series	Element Length	Model	Media	Model	Length Std	Ext	Bypass	Ind. Ports
CP NPT	Omit	1500	3	3 Micron	X	X	P (15 PSI)	T Return Ports Only
*CPA SAE	L	1520	10	10 Micron	X	X	R (25 PSI)	S Suction Ports Only
	Std.		25	25 Micron	X	X	V (5 PSI)	
	Extd.		3SYN	3 Micron	X	X	H (2.5 PSI)	
			6SYN	6 Micron	X	X	B (NONE)	
			10SYN	10 Micron	X	X		
			25SYN	25 Micron	X	X		
			10WR	10 Micron	X			
			100M	140 Micron	X			

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

*\*Indicators ordered and shipped separately*



## Replacement Elements

Model Number	Media Type Micron	In Area	Cm Area	Element Thread	Rating B(X)=2/20/75	Dirt Holding Capacity
CP-1282-03-50	3 Micron Cellulose	850	5483	1 1/2-16 UNF	3μ/10μ/22μ	31
CP-1282-10-50	10 Micron Cellulose	950	6129	1 1/2-16 UNF	10μ/22μ/33μ	34
CP-1282-25-50	25 Micron Cellulose	950	6129	1 1/2-16 UNF	29μ/46μ/54μ	34
CP-1282-03SYN-50	3 Micron Synthetic	625	4032	1 1/2-16 UNF	2μ/3μ/4μ	31
CP-1282-06SYN-50	6 Micron Synthetic	625	4032	1 1/2-16 UNF	5μ/6μ/8μ	35
CP-1282-10SYN-50	10 Micron Synthetic	561	3619	1 1/2-16 UNF	4μ/10μ/12μ	38
CP-1282-25SYN-50	25 Micron Synthetic	673	4341	1 1/2-16 UNF	8μ/25μ/30μ	50
CPL-1282-10-50	10 Cellulose	1227	7916	1 1/2-16 UNF	10μ/22μ/33μ	62
CPL-1282-25-50	25 Cellulose	1227	7916	1 1/2-16 UNF	29μ/46μ/54μ	62
CPL-1282-03SYN-50	3 Micron Synthetic	1265	8161	1 1/2-16 UNF	2μ/3μ/4μ	47
CPL-1282-06SYN-50	6 Micron Synthetic	1115	7193	1 1/2-16 UNF	5μ/6μ/8μ	54
CPL-1282-10SYN-50	10 Micron Synthetic	1041	6716	1 1/2-16 UNF	4μ/10μ/12μ	59
CPL-1282-25SYN-50	25 Micron Synthetic	1246	8028	1 1/2-16 UNF	8μ/25μ/30μ	76
CP-1252-10-55	10 Micron Cellulose	946	6103	1 1/4 BSP	9μ/22μ/24μ	34
CP-1282-10WR-50	10 Water Removal	650	4193	1 1/2-16 UNF	10μ/18μ	15 OUNCES
CP-1282-100M-50	100 Ss Wire Mesh	200	1290	1 1/2-16 UNF	N/A	N/A

Areas & dirt holding filter shown are for one element.

Beta Rating of 2 = 50% Efficiency  
Beta Rating of 20 = 95% Efficiency  
Beta Rating of 75 = 98.7% Efficiency  
Note: 80 P.S.I. 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

<b>Visual</b>	Suction & return visual gauges
<b>Electrical</b>	Suction & return electrical switches
<b>Differential</b>	Return indicators

### Mineral Oil Types

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

### Water Based Emulsion Types

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

### Synthetic Fluid Types

<b>HFDU</b>	Fire resistant fluids of other compositions
<b>HFDS</b>	HFD based upon phosphoric acid ester
<b>HS</b>	Synthetic fluids with no specific fire resistant properties
<b>HFDR</b>	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)



CHANGE FILTER

### 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

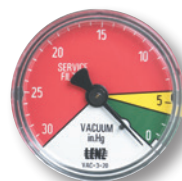
0-20 PSI Green  
21-24 PSI Yellow  
25-60 PSI Red (Service Filter)  
(To be used with "T" Indicator Port Location)



### 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)

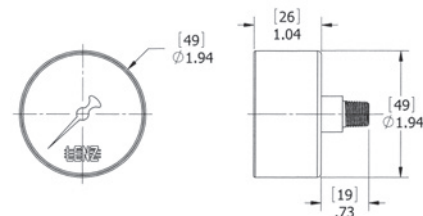


### Differential Indicator DP-75

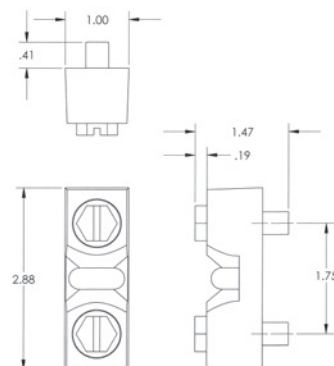
Simple differential sliding  
indicator which changes from  
green to red at 7 PSID.

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

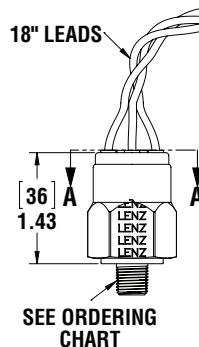
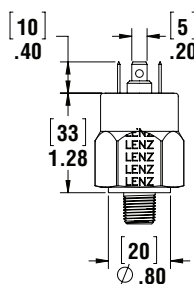
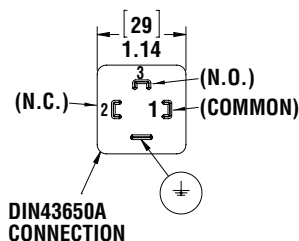
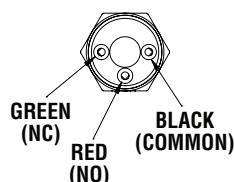
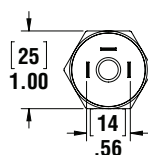


LES-FL



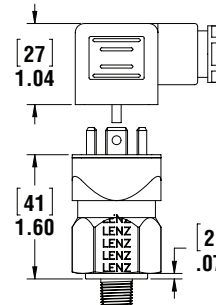
LES-HC

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



SEE ORDERING CHART

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