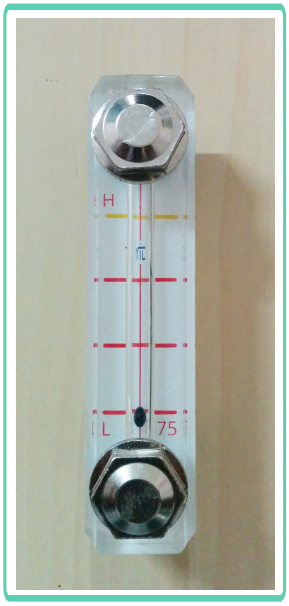
YLG Series Oil Level Indicator

These oil level indicator are used for non pressurized tanks in hydraulic systems to indicate oil level inside tank.



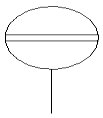
Features

- Polycarbonate body.
- Inbuilt float for clear indication.
- Good sealing against leakage.
- Suitable for petroleum and mineral based oils.

Specifications

Model Numbers	Max.Operating Temp. °C	Mass kg (Approx)
YLG-75-10	80	0.09
YLG-100-10		0.095
YLG-125-10		0.100
YLG-250-10		0.380

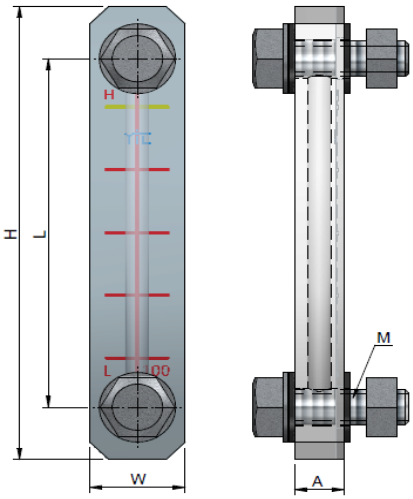
Graphical symbol



Model Number Designation

YLG	-75	-10
Series Number	Oil Level Indicator Length (mm)	Design Number
YLG : Oil Level Indicator	**75 :** 75	10
	100 : 100	
	125 : 125	
	250 : 250	

Dimensions in Millimeters



YLG-*-10

Model	W	A	L	H	M Bolt Size
YLG-75-10	25	13	75	105	M10
YLG-100-10	25	13	100	130	M10
YLG 125-10	25	13	125	155	M10
YLG-250-10	30	25	250	290	M12

NOTE : Bolt tightening torque 0.5 kgf/cm².

Ordering Information

Example: Oil level indicator having measuring length of 100 mm :**YLG-100-10,**

Material Number : **88000000001**

Sl.No	Model code	Material Number
1	YLG-75-10	88000000000
2	YLG-100-10	88000000001
3	YLG-125-10	88000000002
4	YLG-250-10	88000000003

PRESSURE GAUGE

YPG Series Pressure Gauge

These pressure gauges are used for accurate and reliable measurement of hydraulic pressure. They are constructed from mechanical bourdon tube.

Pressure gauges are built for highest standard of quality, performance, reliability and durability.

Features

- SS304, polished case.
- SS316/ PB bourdon tube.
- Brass connections.
- IP65 protection.
- Twin O-ring for leak tight enclosure.
- Overload protection up to 130%.

Graphical Symbol

Specifications

Model Numbers	Max.Pressure Range kgf/cm²*	Accuracy % of FSD	Process Connection	Mass (kg) (Approx.) Mounting Type	
				FB	SB
YPG-63-G-*-*-*-10	400	1.6	G02	0.27	0.20
YPG-100-G-*-*-*-10			G02	0.50	0.43
			G03	0.53	0.45
			G04	0.55	0.48

Note : * Outside Scale– kgf/cm² , Inside Scale -psi.

Model Number Designation

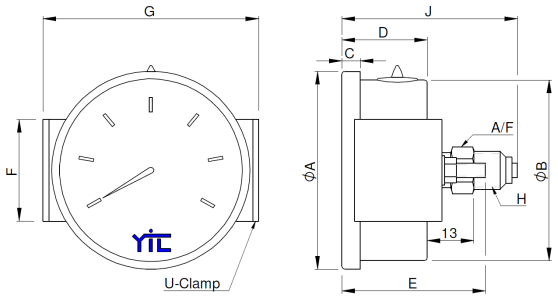
YPG	-63	- G	- 100	- G02	- FB	- 10
Series Number	Dial Size	Case Filling	Pressure Range kgf/cm²	Process Connection	Connection Orientation	Design Number
YPG : Pressure Gauge	**63** : Ø63mm	**G :** Glycerin	**16 :** 0 to 16 **25 :** 0 to 25 **40 :** 0 to 40 **60 :** 0 to 60 **70 :** 0 to 70 **100** : 0 to 100 **140 :** 0 to 140 **160 :** 0 to 160 **210** : 0 to 210 **250 :** 0 to 250 **280 :** 0 to 280 **400 :** 0 to 400	**G02 :** G1/4	**FB :** Face Mounting Back Entry **SB :** Surface Mounting Bottom Entry	10
	100 : Ø100mm			**G02 :** G1/4 **G03 :** G3/8 **G04** : G1/2		

PRESSURE GAUGE

YPG-*-*-*-*-FB-10

- **Face Mounting-Back Entry**

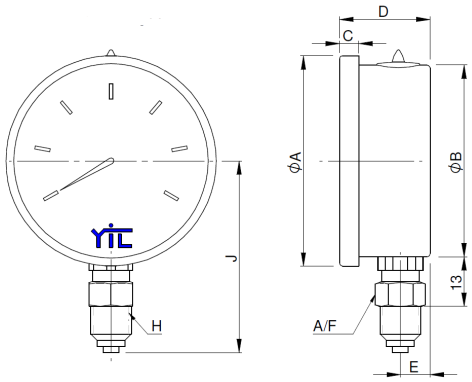
Dimensions in Millimeters



Model	ØA	ØB	C	D	E	F	G	H (Thread Size)	A/F	J
YPG-63	68	61.5	7.5	32.5	52.0	32.0	71.5	G1/4	14.0	60.5
YPG-100	108	98.5	7.5	33.5	60.5	32.5	111.5	G1/4	14.0	61.5
								G3/8	17.0	65.5
								G1/2	22.0	69.5

YPG-*-*-*-*-SB-10

- **Surface Mounting-Bottom Entry**



Model	ØA	ØB	C	D	E	H (Thread Size)	A/F	J
YPG-63	68	61.5	7.5	32.5	10.3	G1/4	14.0	58.5
YPG-100	108	98.5	7.5	33.5	10.3	G1/4	14.0	63.0
						G3/8	17.0	81.5
						G1/2	22.0	85.0

Ordering Information

Example : Pressure gauge having 100 mm dail size with Glycerin filled, measuring range of 0 ~ 100 kgf/cm², face mounting back entry with G3/8" Process connection : **YPG-100-G-100-G03-FB-10,** Material Number : **88000000261**

Preferred Series List

Sl.No	Model code	Material Number
1	YPG-63-G-25-G02-FB-10	88000000017
2	YPG-63-G-40-G02-FB-10	88000000025
3	YPG-63-G-70-G02-FB-10	88000000041
4	YPG-63-G-100-G02-FB-10	88000000049
5	YPG-63-G-160-G02-FB-10	88000000065
6	YPG-63-G-210-G02-FB-10	88000000073
7	YPG-63-G-280-G02-FB-10	88000000089
8	YPG-63-G-400-G02-FB-10	88000000097
9	YPG-63-G-25-G02-SB-10	88000000019
10	YPG-63-G-40-G02-SB-10	88000000027
11	YPG-63-G-70-G02-SB-10	88000000043
12	YPG-63-G-100-G02-SB-10	88000000051

Preferred Series List

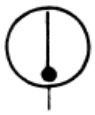
Sl.No	Model code	Material Number
13	YPG-63-G-160-G02-SB-10	88000000067
14	YPG-63-G-210-G02-SB-10	88000000075
15	YPG-63-G-280-G02-SB-10	88000000091
16	YPG-63-G-400-G02-SB-10	88000000099
17	YPG-100-G-100-G02-FB-10	88000000257
18	YPG-100-G-160-G02-FB-10	88000000281
19	YPG-100-G-280-G02-FB-10	88000000317
20	YPG-100-G-400-G02-FB-10	88000000329
21	YPG-100-G-100-G02-SB-10	88000000259
22	YPG-100-G-160-G02-SB-10	88000000283
23	YPG-100-G-280-G02-SB-10	88000000319
24	YPG-100-G-400-G02-SB-10	88000000331

TEMPERATURE GAUGE

YTM Series Temperature Gauge

These temperature gauges are used for accurate and reliable measurement of temperature in a hydraulic system. Temperature gauges are built for highest standard of quality, performance, reliability and durability. These are rugged stainless steel construction having an excellent accuracy and good sensitivity against temperature change.

Graphical symbol



Features

- SS304 cylindrical case with bayonet ring.
- SS316 stem and connection.
- SS316 stem and connection.
- Toughened glass window.
- Adjustable compression gland.
- Overload protection up to 130%.

Specifications

Model Numbers	Max.Temperature Range °C	Accuracy % of FSD	Mass kg(Approx)		
			L	B	E
YTM-D-63-*-G04-*-*-10	120	± 1	0.20	0.15	0.20
YTM-D-100-*-G04-*-*-10			0.60	0.50	0.60
YTM-D-150-*-G04-*-*-10			1.20	1.00	1.20
YTM-C-100-*-G04-*-*-10			1.00	1.00	-
YTM-C-150-*-G04-*-*-10			1.30	1.30	-

Model Number Designation

YTM	**-D**	**-63**	**-100**	**-G04**	**-300**	**-L**	**-10**
Series Number	Mounting Type	Dial Size	Temperature* Range °C	Process* Connection	Stem Length*	Connection Orientation	Design Number
YTM : Temperature Gauge	**D** : Direct	**63**	**50** : 0 ~ 50 **60** : 0 ~ 60 **80** : 0 ~ 80 **100** : 0 ~ 100 **120** : 0 ~ 120	**G04** : G1/2"	**63** : 63 mm **150** : 150 mm **200** : 200 mm **300** : 300 mm **400** : 400 mm	**L** : Lower **B** : Back **E** : Every Angle	10
		100			**400** : 400 mm **500** : 500 mm **600** : 600 mm **800** : 800 mm		
		150			**500** : 500 mm **600** : 600 mm **800** : 800 mm **1000** : 1000 mm		
	C : Capillary tube	**100**			**3000** : 3000 mm	**L** : Lower **B** : Back	
		150					

Note : ∗ Other Temperature ranges , stem lengths are on request.
∗ Consult YIL For special process connection (NPT, Metric & other).

TEMPERATURE GAUGE

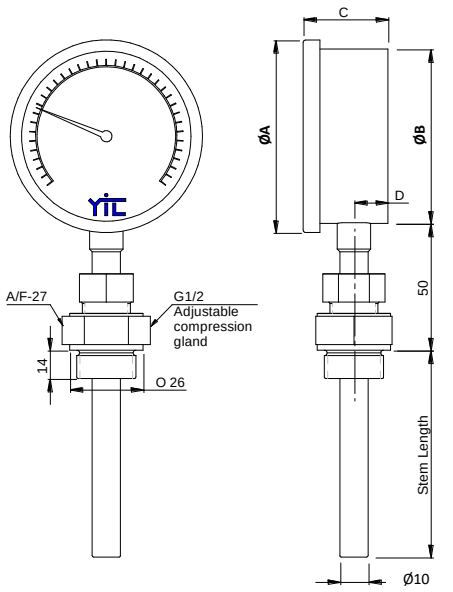
YTM-D-*-*-G04-*-L-10

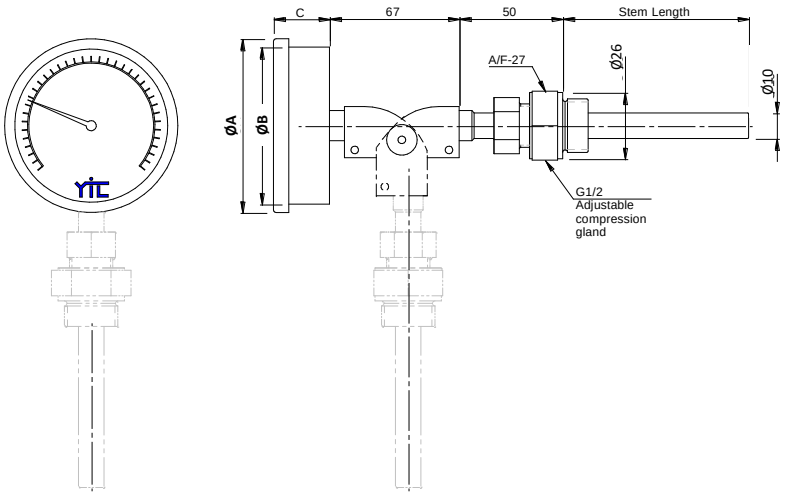
- **Direct Mounting-Lower Entry**

YTM-D-*-*-G04-*-E-10

- **Direct Mounting-Every Angle**

Dimensions in Millimeters



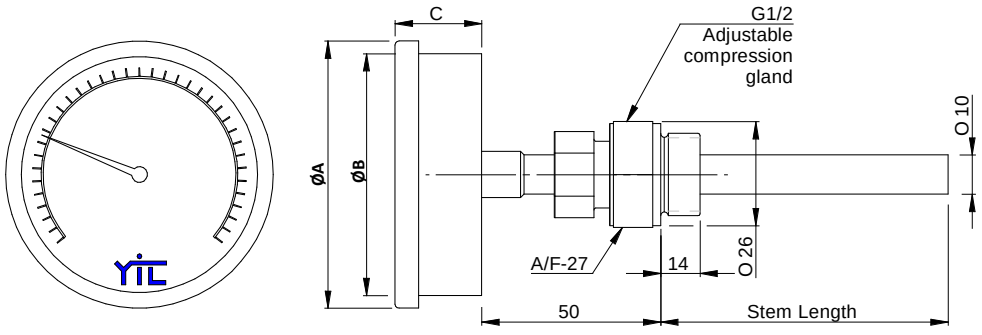


Model	ØA	ØB	C	D
YTM-D-63	69.5	62.0	44.0	8.0
YTM-D-100	109.0	98.5	48.5	16.0
YTM-D-150	168.0	152.0	48.5	15.5

Model	ØA	ØB	C
YTM-D-63	69.5	62.0	44.0
YTM-D-100	109.0	98.5	48.5
YTM-D-150	168.0	152.0	48.5

YTM-D-*-*-G04-*-B-10

- **Direct Mounting-Black Entry**

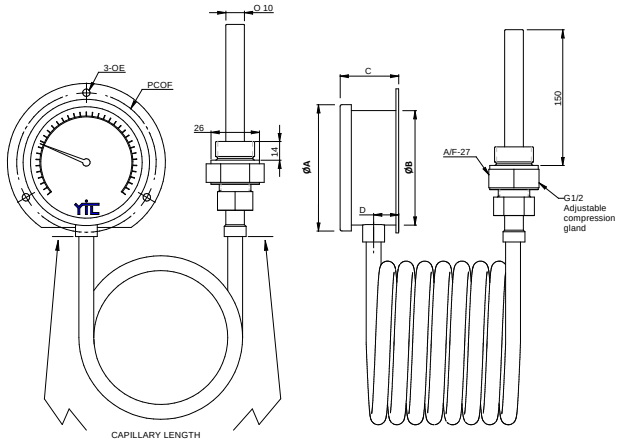


Model	ØA	ØB	C
YTM-D-63	69.5	62.0	44.0
YTM-D-100	109.0	98.5	48.5
YTM-D-150	168.0	152.0	48.5

TEMPERATURE GAUGE

YTM-C-*-*-G04-*-L-10

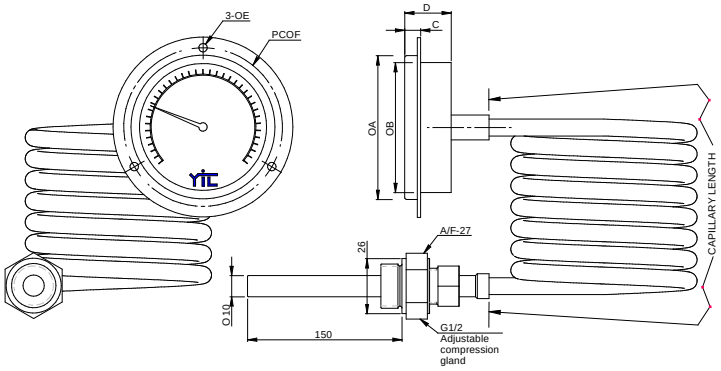
- **Capillary tube-Lower Entry**



Model	ØA	ØB	C	D	ØE	PCØF
YTM-C-100	109	98.5	52	21.5	6	118
YTM-C-150	168	152.0	52	21.5	6	168

YTM-C-*-*-G04-*-B-10

- **Capillary tube-Back Entry**



Model	ØA	ØB	C	D	ØE	PCØF
YTM-C-100	109	98.5	19	48.5	6	118
YTM-C-150	168	152.0	19	48.5	6	168

Ordering Information

Example : Temperature gauge of direct mounting type having 63 dial size , temperature range is 0 ~ 100 °C & stem length of 300 with back entry : **YTM-D-63-100-G04-300-L-10,** Material Number : **88000000538**

Preferred Series List

Sl.No	Model code	Material Number
1	YTM-D-63-100-G04-63-L-10	88000000529
2	YTM-D-63-120-G04-400-L-10	88000000556
3	YTM-D-100-100-G04-400-L-10	88000000595
4	YTM-D-100-120-G04-400-L-10	88000000607

SPIN-ON RETURN LINE FILTER

YRF Series Spin-on Return Line Filters

These filters are used to improve the reliability of a lube or hydraulic system to eliminate failure due to contamination.

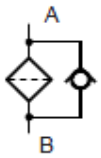
Features

- Sub-plate mounting type return line filter.
- Paper element filtration media.
- Spin-on disposable canisters.
- Suitable for petroleum and mineral based oils.
- In built by-pass valve.

Specifications

Model Number	Max. Working pressure kgf/cm²	Flow handling capacity l/min
YRF-P-16-M-25-**-10	7	40 (Nominal)

Graphical symbol



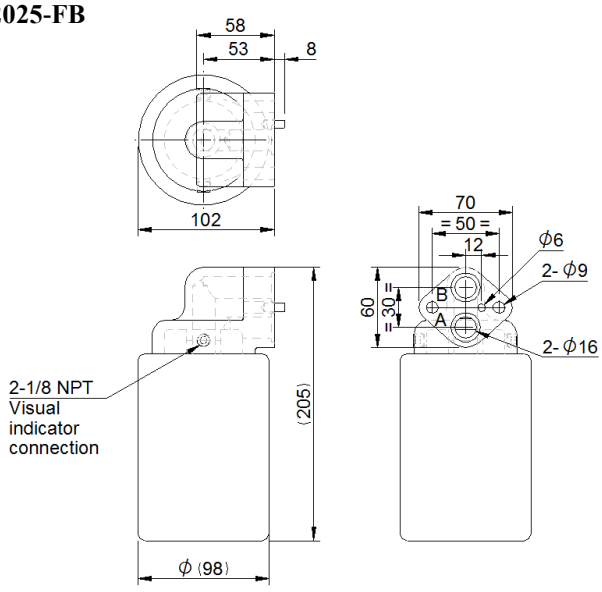
Model Number Designation

YRF	- P	- 16	- M	- 25	- VI	- 10
Series Number	Element Media	Prot Size (mm)	Mounting Type	Filtration Rating	Clogging Indicator	Design Number
YRF: Return Line Filter	**P :** Paper	**16 :** Ø16	**M :** Sub-Plate Mounting	**25 :** 25µm	**VI** : Visual clogging indicator * **None** : Without visual clogging indicator	**10**

* Visual clogging indicator model: **VI-2025-FB**

YRF-P-16-M-25-*-10

Dimensions in Millimeters



Ordering Information

Example: spin-on return line filter with paper media having port size of 16mm, sub plate mounting type , filtration rating of 25µm with visual clog indicator : **YRF-P-16-M-25-VI-10**, Material code : **88000000729.**

Sl.No	Model code	Material Number
1	YRF-P-16-M-25-10	88000000730

SPIN-ON RETURN LINE FILTER

Spin-on Canister

These are used to improve the reliability of a lube or hydraulic system to eliminate failure due to contamination. And these are consists of a filter bowel, filter element, threaded mounting plate with bypass check valve. Generally the flow direction of oil is from out side to inside of filter element.

Features

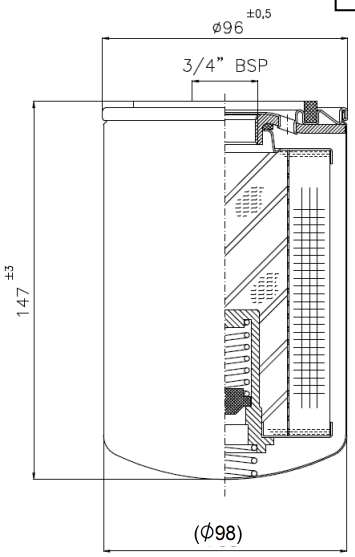
- Disposable spin-on element.
- By-pass setting—1.7 kgf/cm^2

Model Number Designation

YRFE	-P	-6
Series Number	Element Media	Port Size
YRFE : Spin-on canister	**P** : Paper	**06 :** G3/4"

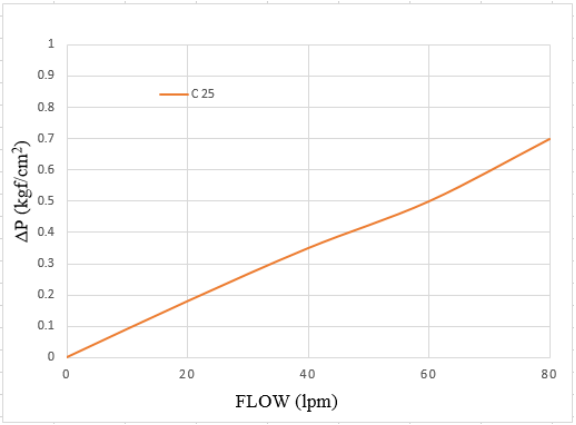
Dimensions

Dimensions in Millimeters



Pressure drop through clean filter element

The pressure drop of spin-on canister is based on both the internal diameter of the canister and to the filter media and this value is affected by the oil viscosity. Example: when the Δp value from the curve is 0.3 bar and oil of 46 cSt grade is used the corresponding value is 0.46(0.3x46/30)bar.



Instructions

These canister should be replaced when the differential set pressure on the maintenance indicator is reached, if the canister does not have the clogging indicator, exchange the spin-on canister at least every 5 months or of 850 hours of operation .

Replacing the spin-on canister : switched off the system before unscrewing the canister & make sure that there is no pressure in the spin-on filter.

Ordering Information

Example : Spin-on canister with paper media having port size of G3/4", filtration rating of 25µm.
YRFE-P-06-C25, Material code : **88000000731**

Sl.No	Model code	Material Number
1	YRFE-P-06-C25	88000000731

YSS Series Suction Strainers

These suction strainers are used to trap contaminates from fluid flowing through it, this can be located in hydraulic system on a suction port of the pump or sub merged in the hydraulic tank and attached to the suction line leading to the pump. These suction strainers consists of stainless steel wire mesh, zinc plated top aluminum nut and end cap.

Features

- Reusable stainless steel wire mesh.40µ element standard
- Excellent filtration efficiency Synthetic element.
- 100 mesh standard (149µ).
- Suitable for petroleum and mineral based oils.

Graphical symbol

Specifications

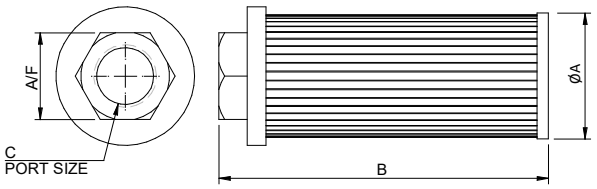
Model Numbers	Max.Working Temperaure ° C	Max.Flow Rate L/min
YSS-*-20	80	800

Model Number Designation

YSS	-15G	-20
Series Number	Flow Rate L/min	Design Number
YSS : Suction Strainer	**5G** : 20	20
	7G : 30	
	10G : 40	
	13G : 50	
	15G : 60	
	16G : 65	
	20G : 80	
	30G : 120	
	40G : 160	
	50G : 200	
	65G : 250	
	75G : 300	
	100G : 400	
	150G : 600	
	200G : 800	

YSS-*-20

Dimensions in Millimeters



Model	ØA	B	C (Port Size)	A/F (Across Flat)
YSS-5G-20	47	105	G 1/2	30
YSS-7G-20	65	109	G 3/4	35
YSS-10G-20	65	139	G 1	46
YSS-13G-20	65	158	G 1	46
YSS-15G-20	87	139	G 1 1/4	51
YSS-16G-20	65	170	G 1	65
YSS-20G-20	87	168	G 1 1/2	60
YSS-30G-20	87	200	G 1 1/2	60
YSS-40G-20	101	235	G 2	70
YSS-50G-20	101	260	G 2	70
YSS-65G-20	101	287	G 2	82
YSS-75G-20	151	211	G 2 1/2	90
YSS-100G-20	151	272	G 3	100
YSS-150G-20	151	345	G 3	100
YSS-200G-20	151	405	G 3	100

Ordering Information

Example : Suction strainer having flow rate of 60 L/min : **YSS-15G-20**, Material Number : **88000000753**

Sl.No	Model code	Material Number
1	YSS-5G-20	88000000749
2	YSS-7G-20	88000000750
3	YSS-10G-20	88000000751
4	YSS-15G-20	88000000753
5	YSS-20G-20	88000000755

Sl.No	Model code	Material Number
6	YSS-30G-20	88000000756
7	YSS-40G-20	88000000757
8	YSS-50G-20	88000000758
9	YSS-75G-20	88000000760
10	YSS-150G-20	88000000762

YTTRF Series Tank Top Return Line Filter

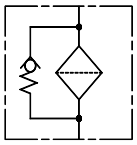
These tank top return line filters are used to improve the reliability of a lube or hydraulic system to eliminate failure due to contamination.

This can be mounted directly on the tank top and they provide the optimum removal of contaminate from the system.

Features

- Built in by-pass check valve setting at 1.05 kgf/cm²(15 psi).
- Powerful ceramic magnets fixed on the filter head, it will attract iron particles, increase pump and system life.
- Suitable for petroleum and mineral based oils.
- High grade impregnated paper element.
- Adjustable compression gland.

Graphical symbol



Specifications

Model Numbers	Max.Working Pressure kgf/cm²	Max.Operating Temp. ℃	Port Size	Mass kg(Approx)
YTTRF-04-50L-*-*-10	7	80	G 1/2"	0.58
YTTRF-06-115L-*-*-10			G 3/4"	1.05
YTTRF-08-160L-*-*-10			G 1"	1.30
YTTRF-10-240L-*-*-10			G 1 1/4"	2.40

Model Number Designation

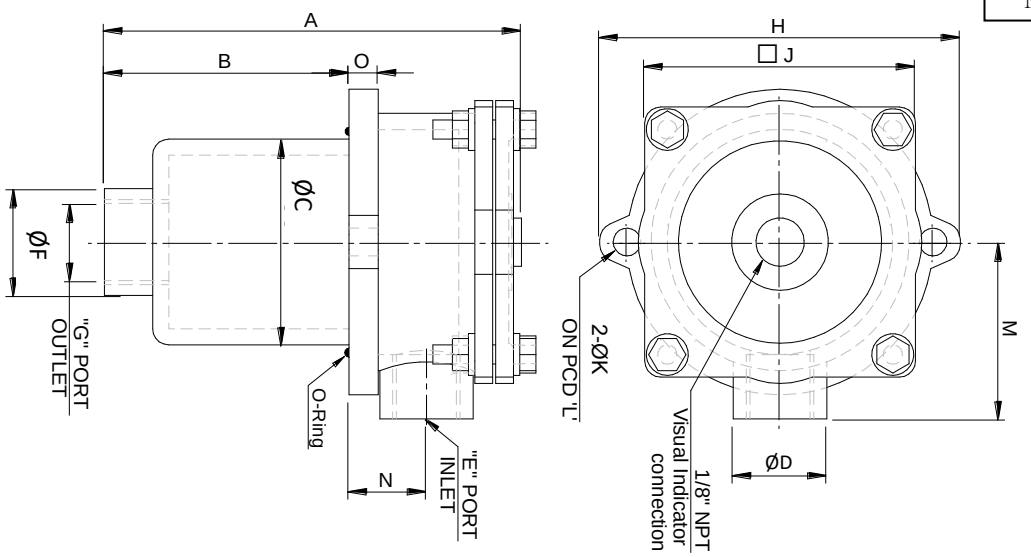
YTTRF	**-04**	**-50L**	**-25M**	**-VI**	**-10**
Series Number	Inlet Port Size	Flow Rate L/min	Filtration Rating	Clogging Indicator	Design Number
YTTRF : Tank Top Return Line Filter	**04** : G 1/2"	**50L** : 50	**10M :** 10μm **25M :** 25μm	**VI** : Visual clogging indicator * **None** : Without clogging indicator	10
	06 : G 3/4"	**115L** : 115			
	08 : G 1"	**160L** : 160			
	10 : G 1 1/4"	**240L** : 240			

Note: Visual clogging indicator model : **VI-R-1015-SB**

YTTRF-06-*-*-*-10

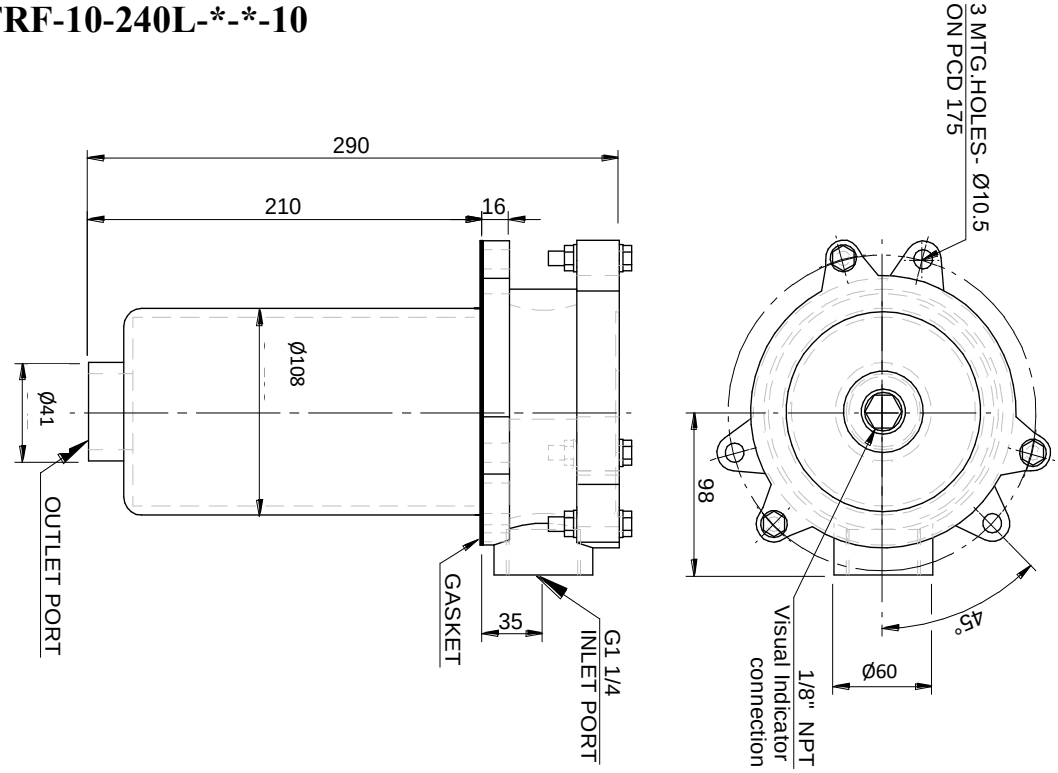
04
08

Dimensions in Millimeters



Model	A	B	ØC	ØD	E (Inlet Port)	ØF	G (Outlet Port)	H	J	ØK	L	M	N	O
YTTRF-04-50L-*-*-10	133	75	66	34	G1/2"	30	G1/2"	109	79	6.8	96	52	23	7.5
YTTRF-06-115L-*-*-10	155	90.0	85	35.5	G3/4"	33	G3/4"	134	104	8.5	114	68	27	6
YTTRF-08-160L-*-*-10	190	118	87	46	G1"	33	G3/4"	136	104	8.5	114	70	31	6

YTTRF-10-240L-*-*-10



Filter Element

Instructions

These Filter elements should be replaced when the differential set pressure on the maintenance indicator is reached, if the filter does not have the clogging indicator, exchange the filter element at least every 5 months or of 850 hours of operation .

Replacing the filter element: Switch off the system before unscrewing the filter head & make sure that there is no pressure in the filter.

Model Number Designation

YTTRFE	-04	-25M	-10
Series Number	Size	Filtration Rating	Design Number
YTTRFE: Tank Top Return Line Filter Element	**04** **06** **08** **10**	**10M :** 10µm **25M :** 25µm	10

Ordering Information

Example : Tank top return line filter having a flow rate of up to 50 lpm, filtration rating of 25µ without visual clogging indicator : **YTTRF-04-50L-25M-10,** Material Number:**88000000767**

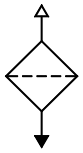
Sl.No	Model code	Material Number
1	YTTRF-04-50L-25M-10	88000000767
2	YTTRF-06-115L-25M-10	88000000771
3	YTTRF-08-160L-25M-10	88000000775
4	YTTRF-10-240L-25M-10	88000000779

YFB Series Filler Breather

These filler breathers are used to enclose oil filler port in hydraulic reservoir, and to protect oil in the tank from contaminates or foreign particles entering the system from air. These are made to be directly mounted, either on the tank top or side of the tank .

Features

- Excellent dirt holding capacity due to special filtration media
- 40µ element standard
- Rugged cast aluminum housing (for side mounting model).
- Synthetic element.



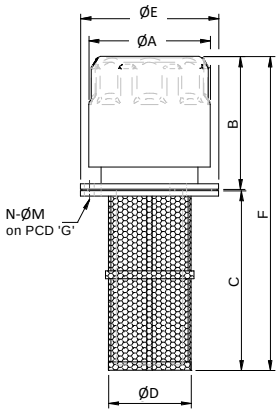
Graphical symbol

Model Number Designation

YFB	-TT	-150	-40
Series Number	Mounting Type	Air Flow Rate L/min	Filtration Rating
YFB : Filler Breather	**TT** : Tank Top	**150** L: 150 **700** L: 700	**40** : 40 µm
	TM : Threaded		
	SM : Tank Side		

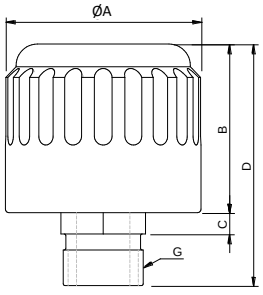
YFB-TT-**-40-10

Dimensions in Millimeters



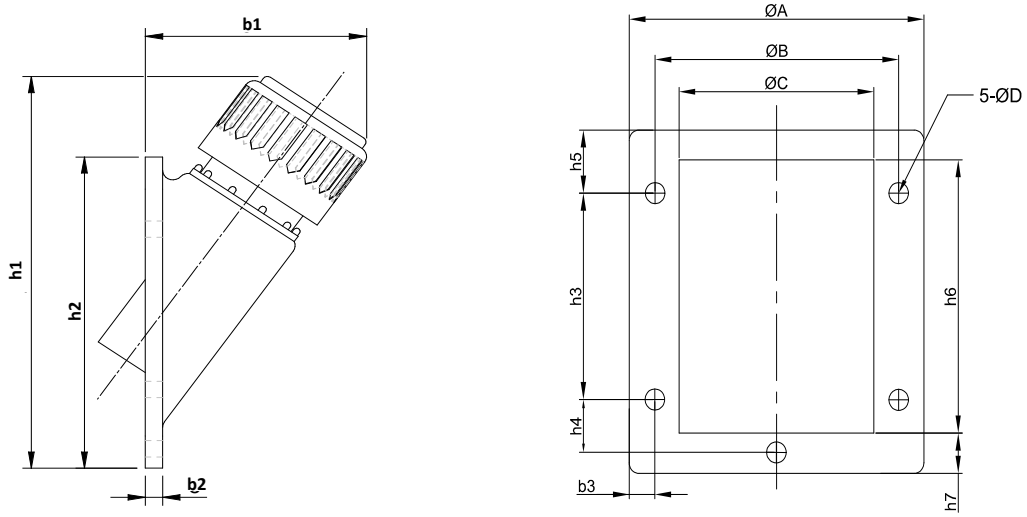
Model	ØA	B	C	ØD	ØE	F	'G' PCD	N No.of Holes	ØM
YFB-TT-150-40-10	45.0	48	62.5	28	51	112	41.3	3	5.1
YFB-TT-700-40-10	76.2	57	93.5	48	83	152	71.5	6	7.0

YFB-TM-**-40-10



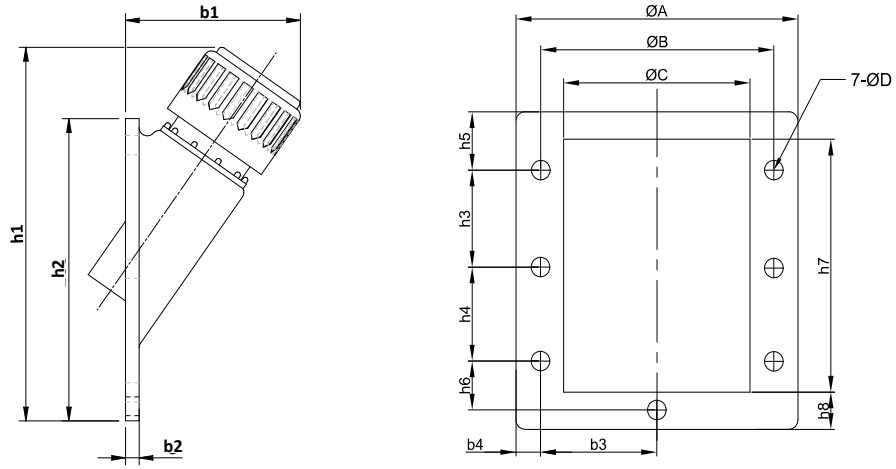
Model	ØA	B	C	D	G
YFB-TM-150-40-10	46	40	10	63	G 1/2
YFB-TM-700-40-10	76	50	8	72	G 3/4

YFB-SM-150-40-10



Model	ØA	ØB	ØC	ØD	h1	h2	h3	h4	h5	h6	h7	b1	b2	b3
YFB-SM-150-40-10	91.0	76.5	40	5.5	130	98	50	20	20	69	22	67	6	7.25

YFB-SM-700-40-10



Model	ØA	ØB	ØC	ØD	h1	h2	h3	h4	h5	h6	h7	h8	b1	b2	b3	b4
YFB-SM-700-40-10	120	102	67	7	173	135	50.8	50.8	13.8	10.5	102	22	100	6	50.8	9.2

Ordering Information

Example : Filler Breather having maximum air flow rate of 150 L/min, tank top mounted type with filtration rating of 40µm : **YFB-TT-150-40**, Material Number : **88000000780**

Sl.No	Model code	Material Number
1	YFB-TT-150-40	88000000780
2	YFB-TT-700-40	88000000781
3	YFB-TM-780-40	88000000782
4	YFB-SM-150-40	88000000784

VI Series Clogging Indicator

Clogging indicators are warning devices which indicate visually that the filter element is clogged with contaminants and should be changed or cleaned.

Features

Three color indication for easy reading.

- Green Range : OK
- Yellow Range : WARNING
- Red Range : DANGER

Graphical symbol

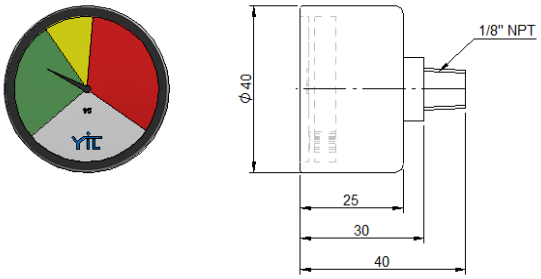
Specifications

Model Numbers	Indication			Mass kg(Approx)
	Green Range(psi)	Yellow Range(psi)	Red Range(psi)	
VI-R-1015-*	0 ~ 10	10 ~ 15	15 ~ 60	0.70
VI-R-2025-*	0 ~ 20	20 ~ 25	25 ~ 60	0.75
VI-S-0207-*	(-15) ~ 02	02 ~07	07 ~ 45	0.75

Model Number Designation

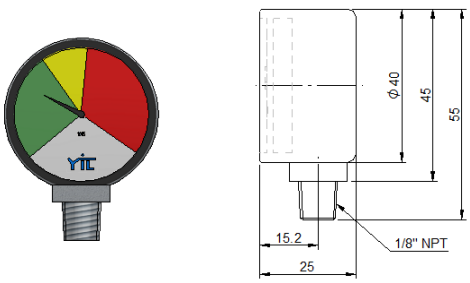
VI	R	-1015	-FB
Series Number	Application	Pressure Range PSI	Mounting Type
VI : Visual Clogging Indicator	**R** : Return line	**1015 :** G : 0 ~ 10 Y : 10 ~ 15	**FB :** Face Mounting Back Entry **SB :** Surface Mounting Bottom Entry
		2025 : G : 0 ~ 20 Y : 20 ~ 25	
	S : Suction line	**0207 :** G : (-15) ~ 02 Y : 02 ~ 07	

VI- R/S -*-FB



VI- R/S -*-SB

Dimensions in Millimeters



Ordering Information

Example : Clogging indicator of return line side having pressure range of 0 ~ 15 psi with face mounting back entry : **VI-R-1015-FB,** Material Number : **88000000786**

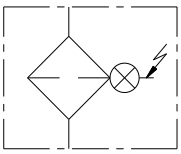
PLFM Series Pressure Line Filter

These filters are used to improve the reliability of a hydraulic system by removing/reducing contamination of the fluid media directly in the pressure line of the system. For ease of mounting and reliability, they are designed to be mounted directly on a hydraulic manifold with matching mounting interface

Features

- Filter head is bolted onto the hydraulic manifold, while the screw-in bowl allows the element to be easily removed for replacement.
- The filter housing is designed to withstand pressure surges as well as high static pressure loads.
- Fatigue pressure rating equals maximum allowable working pressure.
- High grade inorganic Fiberglass (FG) element.

Graphical symbol



Specifications

Model Number	Max.Working Pressure kgf/cm²	Max.Flow Rate L/min	Max.Operating Temp. ℃	Approx. Mass kg
PLFM-30-*-*-20	250	30	80	8
PLFM-60-*-*-20		40		9
PLFM-110-*-*-20		100		10
PLFM-160-*-*-20		120		18
PLFM-240-*-*-20		150		19
PLFM-330-*-*-20		300		24
PLFM-500-*-*-20		450		27

Model Number Designation

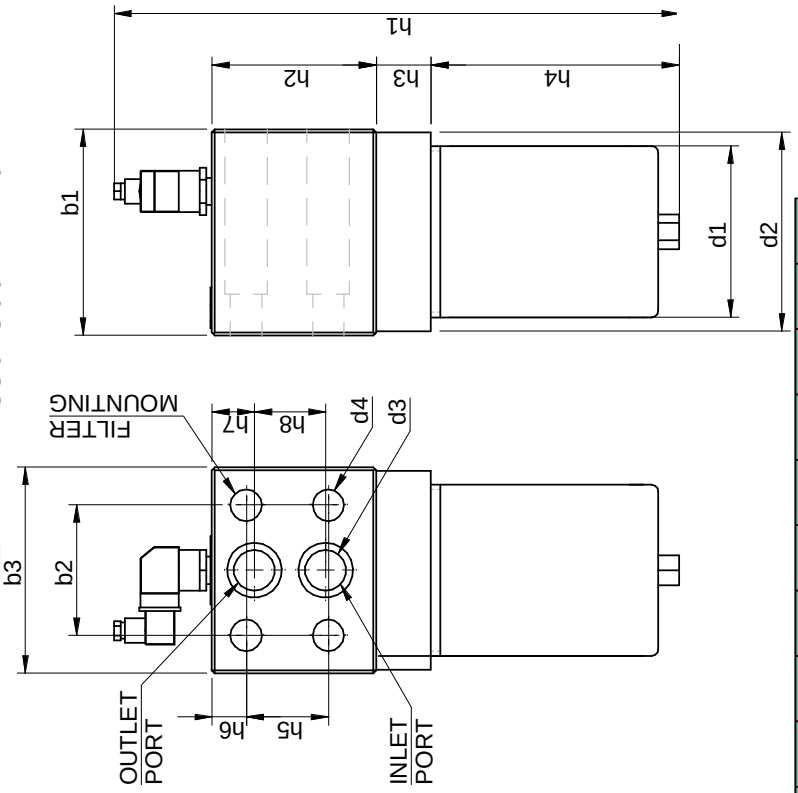
PLFM	-60	-03	-EI	-20
Series Number	Size	Filtration Rating	Clogging Indicator	Design Number
PLFM : Pressure Line Filter - Manifold Mount	**30** : 30	**03 :** 03μm **05 :** 05μm **10 :** 10μm	**EI** : Electrical Clogging Indicator **None** : Without Clogging Indicator	20
	60 : 40			
	110 : 100			
	160 : 120			
	240 : 150			
	330 : 300			
	500 : 450			

Note : Electrical clogging indicator model : **EI-E05-20**

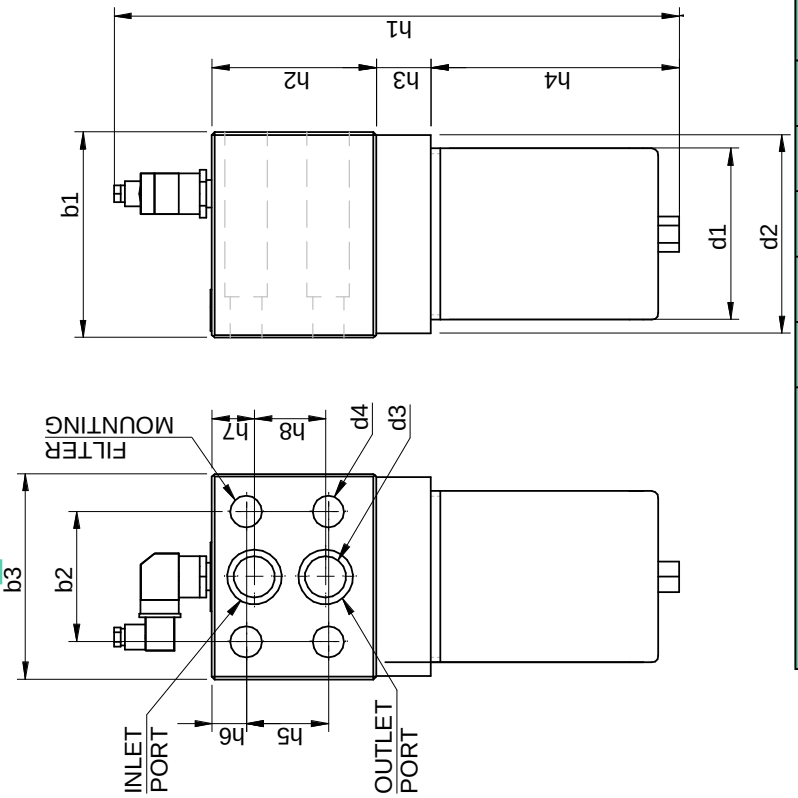
PRESSURE LINE FILTER

Dimensions in Millimeters

PLFM-330~500-*-*-20



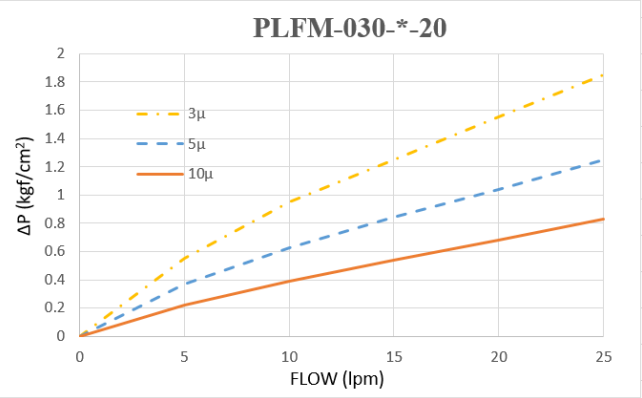
PLFM-30 ~ 240-*-*-20

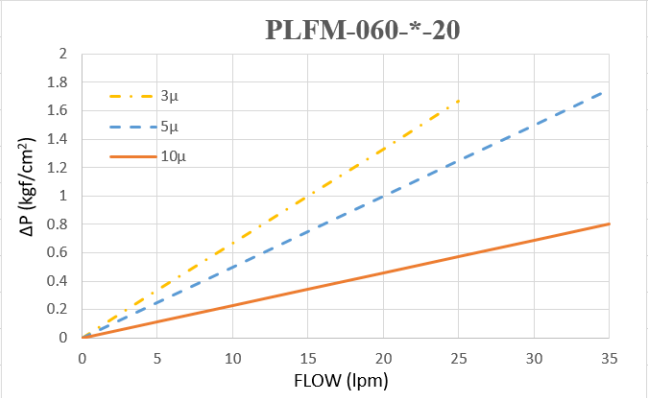


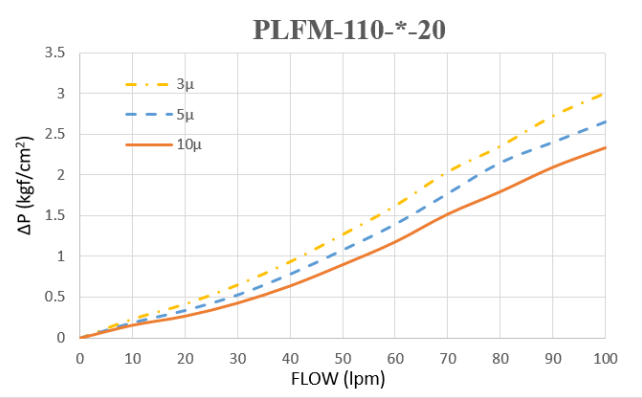
Model	b1	b2	b3	d1	d2	d3	d4	h1	h2	h3	h4	h5	h6	h7	h8	SW
PLFM-30-*-*-20	90	57	82	60	70	14	13	277	82	35	96	45	16	31	28	27
PLFM-60-*-*-20	111	72	110	75	90	20	18	274	94	35	78	55	20	35	35	27
PLFM-110-*-*-20	111	72	110	75	90	20	18	343	94	35	147	55	20	35	35	27
PLFM-160-*-*-20	159	95	140	95	116	32	22	325	110	40	108	60	25	31	52	32
PLFM-240-*-*-20	159	95	140	95	116	32	22	383	110	40	166	60	25	31	52	32
PLFM-330-*-*-20	154	95	150	135	150	30	23	385	110	60	148	58	26	32	52	32
PLFM-500-*-*-20	154	95	150	135	150	30	23	476	110	60	239	58	26	32	52	32

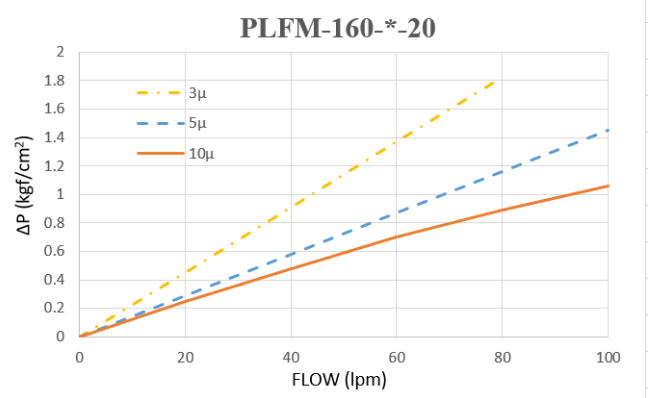
Pressure Drop Curve

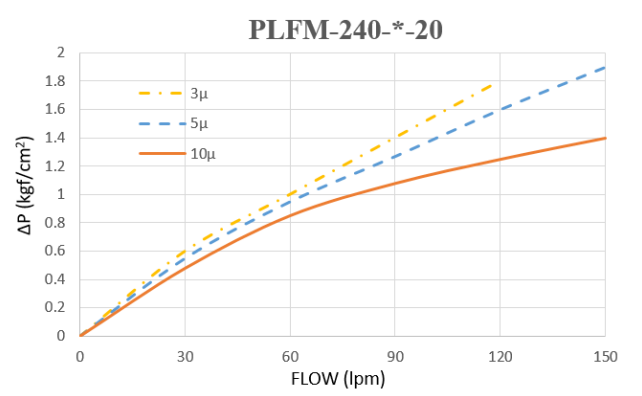
Pressure drop characteristics based on oil viscosity of 35 cSt and specific gravity of 0.850.

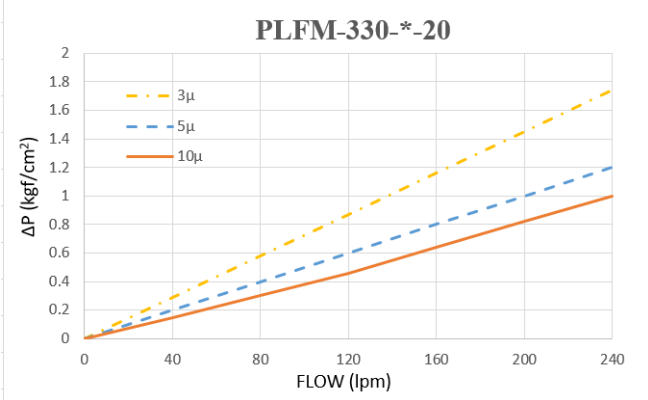


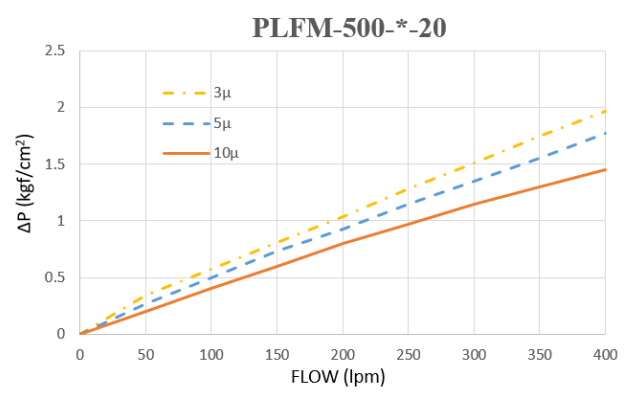












Instructions

The filter element should be replaced when the differential set pressure on the maintenance indicator is reached, if the filter does not have the clogging indicator, exchange the filter element at least every 6 months or after 500 hours of operation .

Replacing the filter element: Switch off the system before unscrewing the filter bowl & make sure that there is no pressure in the system or in the filter.

Filter Element Model Number Designation

E	-P	F	-60	-03	-20
Series Number	Type	Element Media	Size	Filtration Rating	Design Number
E : Filter Element	**P :** Pressure line	**F :** Inorganic Fiber Glass	**30 :** 30 **60** : 40 **110 :** 100 **160 :** 120 **240 :** 150 **330 :** 300 **500 :** 450	**03 :** 03µm **05 :** 05µm **10 :** 10µm	**20**

Ordering Information of Filter Element

Example : Pressure line filter having a flow rate of up to 100 lpm , filtration rating of 10µ with electrical clogging indicator : **PLFM-110-10-EI-20,** Material Number : **88000000871**

*** Refer filter element catalogue for full model code list & material number**.

Preferred Series List

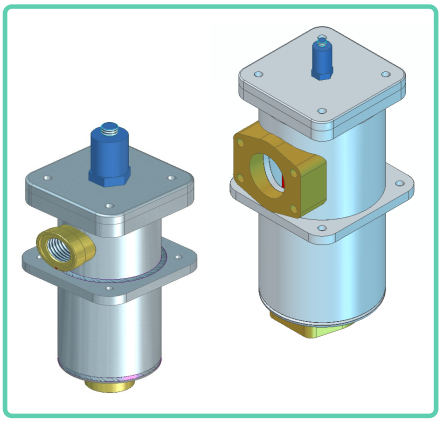
Sl.No	Model code	Material Number
1	PLFM-30-05-EI-20	88000001023
2	PLFM-30-10-EI-20	88000001024
3	PLFM-60-05-EI-20	88000000864
4	PLFM-60-10-EI-20	88000000865
5	PLFM-110-05-EI-20	88000000870
6	PLFM-110-10-EI-20	88000000871
7	PLFM-160-05-EI-20	88000000876

Preferred Series List

Sl.No	Model code	Material Number
8	PLFM-160-10-EI-20	88000000877
9	PLFM-240-05-EI-20	88000000882
10	PLFM-240-10-EI-20	88000000883
11	PLFM-330-05-EI-20	88000000888
12	PLFM-330-10-EI-20	88000000889
13	PLFM-500-05-EI-20	88000000894
14	PLFM-500-10-EI-20	88000000895

RLF Series Tank Top Return Line Filter

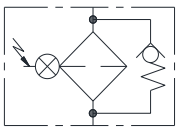
Tank top return line filters are used to improve the reliability of a lubrication or hydraulic system by removing/reducing contamination of the fluid media. This series of filters can be mounted directly on the tank top and provide the optimum protection to the system.



Features

- Built in by-pass check valve setting at 3 bar.
- Suitable for petroleum and mineral based oils
- High grade Inorganic Fiberglass (FG) element.

Graphical symbol



Specifications

Model Numbers	Max.Working Pressure kgf/cm²	Max.Flow Rate L/min	Max.Operating Temp. ℃	Port Size	Approx. Mass kg
RLF-30-G-*-*-20	25	30	80	G 1/2"	2
RLF-60-A-*-*-20		50		G 3/4"	2
RLF-110-A-*-*-20		60			3
RLF-160-B-*-*-20		110		G 1 1/4"	4
RLF-240-B-*-*-20		220			5
RLF-330-D-*-*-20		240		SAE 2"	10
RLF-660-E-*-*-20		600		SAE 3"	18
RLF-950-F-*-*-20		1100		SAE 3 1/2"	33

Model Number Designation

RLF	-60	-B	-03	-EI	-20
Series Number	Size	Port Size	Filtration Rating	Clogging Indicator	Design Number
RLF : Tank Top Return line filter	30	**G :** G 1/2"	**03 :** 03μm **05 :** 05μm **10 :** 10μm **20 :** 20μm	**EI** : Electrical Clogging Indicator **None** : Without Clogging Indicator	20
	60	**A** : G 3/4"			
	110				
	160	**B :** G 1 1/4"			
	240				
	330	**D :** SAE 2"			
	660	**E :** SAE 3"			
	950	**F :** SAE 3 1/2"			

Note : Electrical clogging indicator model: **EI-R13-20**

RETURN LINE FILTER

RLF – 30 ~ 240-*-*-*-20

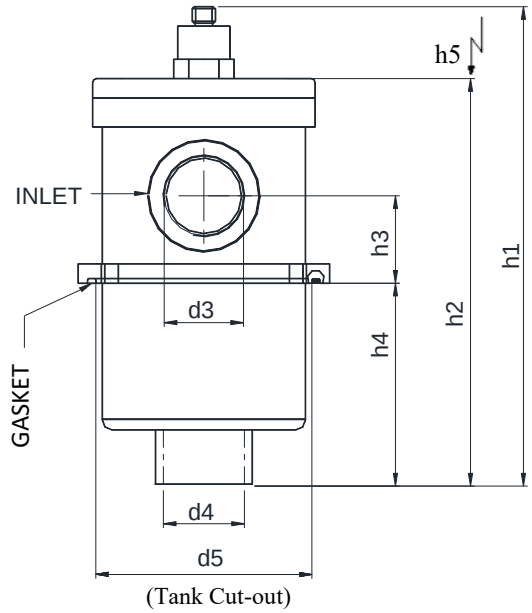
Dimensions in Millimeters

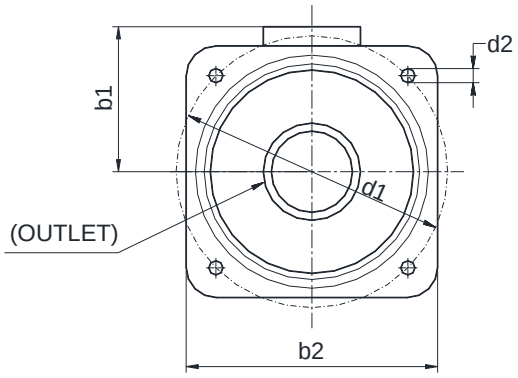
Model	b1	b2	d1	d2	d3	d4	d5	h1	h2	h3	h4	h5
RLF-30-G-*-*-20	38	75	78	5	G 1/2”	G 1/2”	63	204	133	27	72	90
RLF-60-A-*-*-20	55	95	100	6	G 3/4”	G 3/4”	80	221	150	44	60	80
RLF-110-A-*-*-20	55	95	100	6	G 3/4”	G 3/4”	80	289	218	44	128	145
RLF-160-B-*-*-20	72	125	135	7	G 1 ¼”	G 1 ¼”	108	265	194	52	89	120
RLF-240-B-*-*-20	72	125	135	7	G 1 ¼”	G 1 ¼”	108	325	254	63	136	180

RLF - 330 ~ 950-*-*-*-20

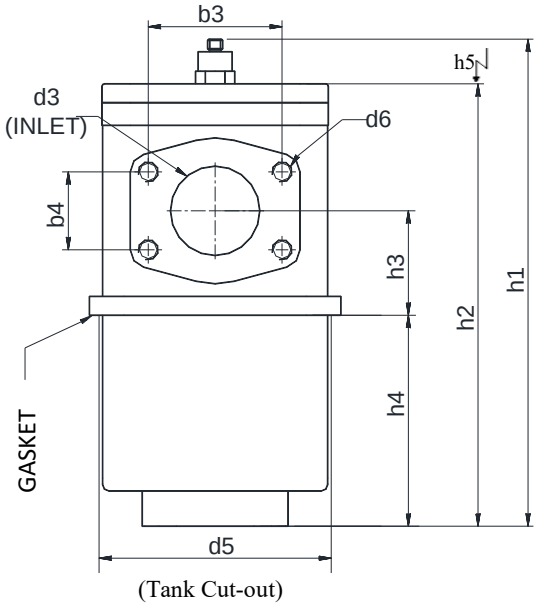
Model	b1	b2	b3	b4	d1	d2	d3	d4	d5	d6	h1	h2	h3	h4	h5
RLF-330-D-*-*-20	85	145	77.8	43	170	10	SAE 2”	SAE 2”	140	M12	323	252	63	126	180
RLF-660-E-*-*-20	110	190	106	62	220	14	SAE 3”	SAE 3”	182	M16	459	388	83	200	320
RLF-950-F-*-*-20	135	250	121	70	290	18	SAE 3 ½”	SAE 3 ½”	220	M16	513	442	93	226	385

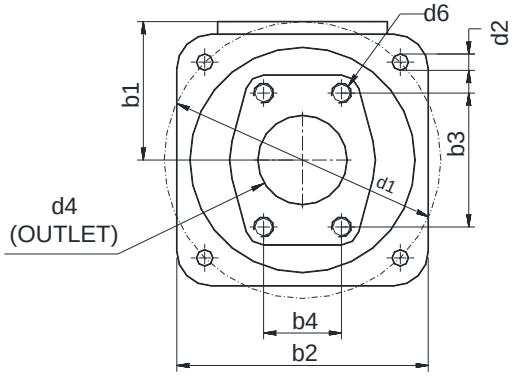
RLF– 30 ~ 240-*-*-*-20





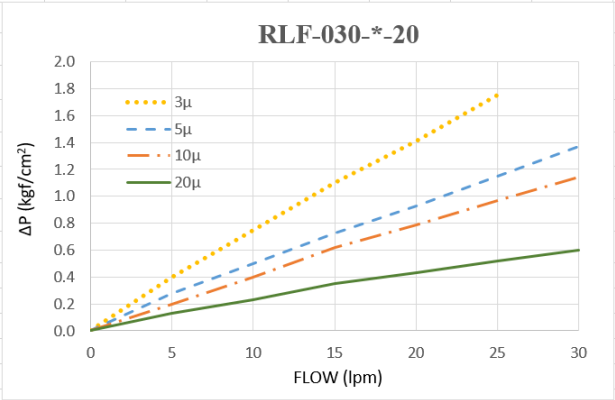
RLF- 330~ 950-*-*-*-20

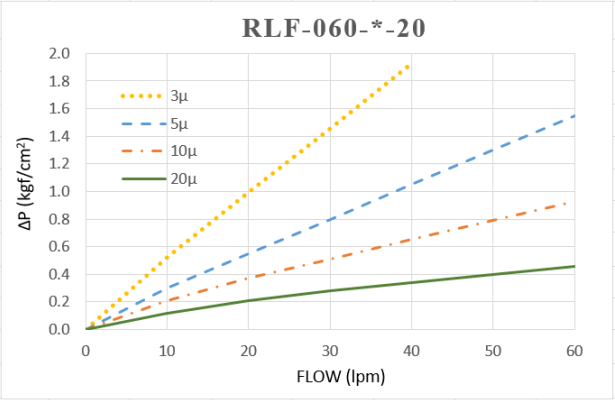


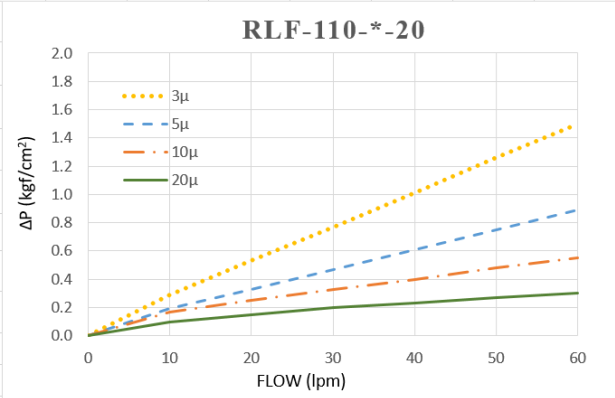


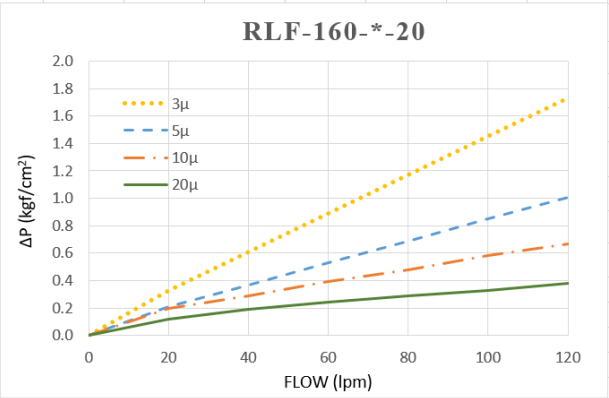
Pressure Drop Curve

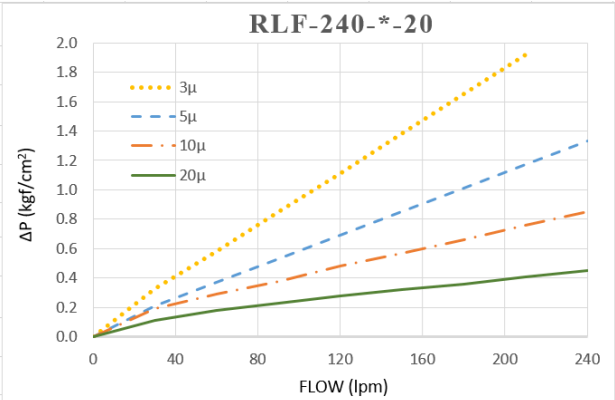
Pressure drop characteristics based on oil viscosity of 35 cSt and specific gravity of 0.850

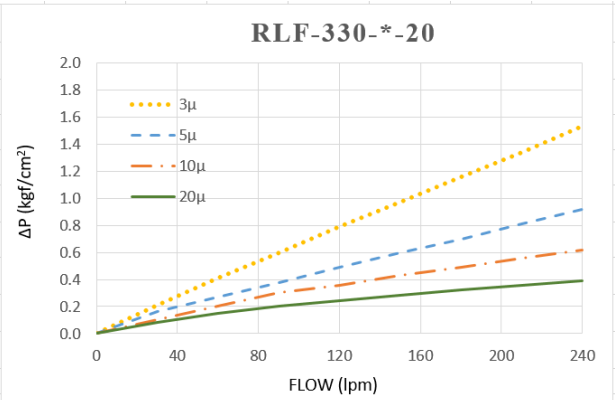


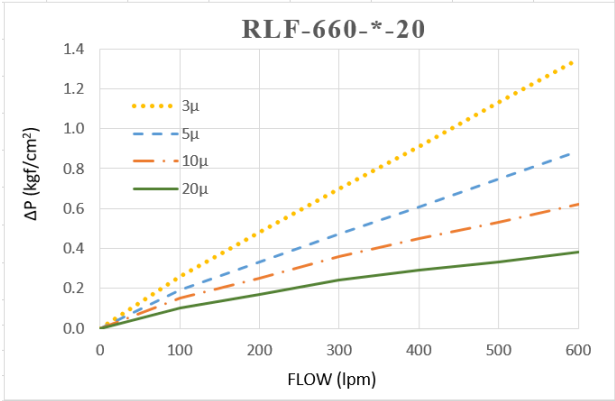


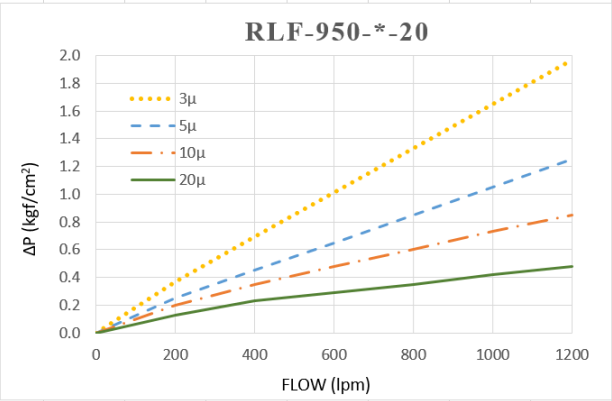












Instructions

The filter element should be replaced when the differential set pressure on the maintenance indicator is reached, if the filter does not have the clogging indicator, exchange the filter element at least every 6 months or after 500 hours of operation .

Replacing the filter element: switch off the system before unscrewing the filter head & make sure that there is not pressure in the system is no pressure in the filter.

Filter Element Model Number Designation

E	-R	F	-60	-03	-20
Series Number	**Type**	**Element Media**	**SIZE**	**Filtration Rating**	**Design Number**
E : Filter Element	**R :** Return line	**F :** Inorganic Fiber Glass	**30 :** 60 **60** : 60 **110 :** 110 **160 :** 160 **240 :** 240 **330 :** 330 **660 :** 660 **950 :** 950	**03 :** 03µm **05 :** 05µm **10 :** 10µm **20 :** 20µm	20

Ordering Information

Example : Tank top return line filter having a flow rate of up to 50 lpm , filtration rating of 10 µ with electrical clogging indicator: **RLF-60-A-10-EI-20,** Material Number : **88000000901**

Refer filter element catalogue for full model code list & material number .

Preferred Series List

Sl.No	Model code	Material Number
1	RLF-60-A-10-EI-20	88000000901
2	RLF-110-A-10-EI-20	88000000909
3	RLF-160-B-10-EI-20	88000000917

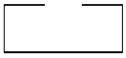
Preferred Series List

Sl.No	Model code	Material Number
4	RLF-240-B-10-EI-20	88000000925
5	RLF-330-D-10-EI-20	88000000933
6	RLF-660-E-10-EI-20	88000000949

YAT Series Aluminum Tank

Aluminum tanks are used in hydraulic systems to store the hydraulic oils. These are non pressurized tanks, it has versatile design of pins on side walls of tank leads to high heat dissipation capacity.

Graphical symbol



Features

- Good heat loss capacity due to high caloric conductibility and large heat dissipating surface.
- O-ring seals is used for tank top plate sealing.
- Tanks are 100% tight and may be stacked without jamming.
- Tanks with drain plug similar to DIN 908

Specifications

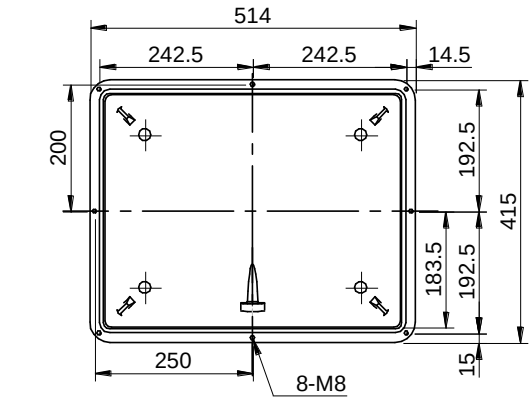
Model Numbers	Max.Operating Temp. °C	Mass kg (Approx)
YAT-40-10	100	6.25

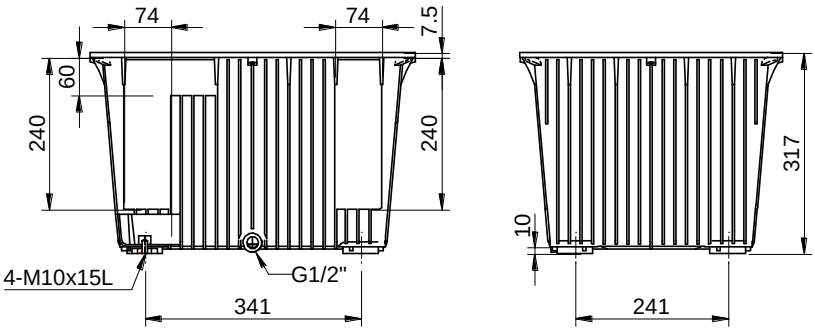
Model Number Designation

YAT	-40	-10
Series Number	Capacity - Liters	Design Number
YAT : Aluminum Tank	**40** : 40	10

YAT-40-10

Dimensions in Millimeters





Ordering Information

Example : Aluminum tank of 40 liters capacity

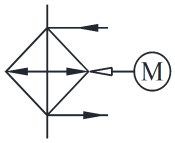
Sl.No	Model code	Material Number
1	YAT-40-10	88000000964

AIR COOLED OIL COOLER

AMC Series Air Cooled Oil Cooler

AMC series air-cooled oil cooler are used in drain lines, mainly for variable displacement pumps. And this are used in application where there is a constant oil flow of up to 10 lpm.

Graphical symbol



Features

- Good heat loss capacity due to D Shaped radiator design.
- Low operating cost.
- Highest level of performances and reliability
- Power consumption (w) : 35~37 w
- Rated Current (Amps) : 0.23/0.20 a.
- Frequency (Hz) : 50/60 Hz.
- Speed of fan (rpm) : 2600 ~ 2900 rpm..
- Air Volume: 6.6m³, Ambient Air Temperature : 35°C

Specifications

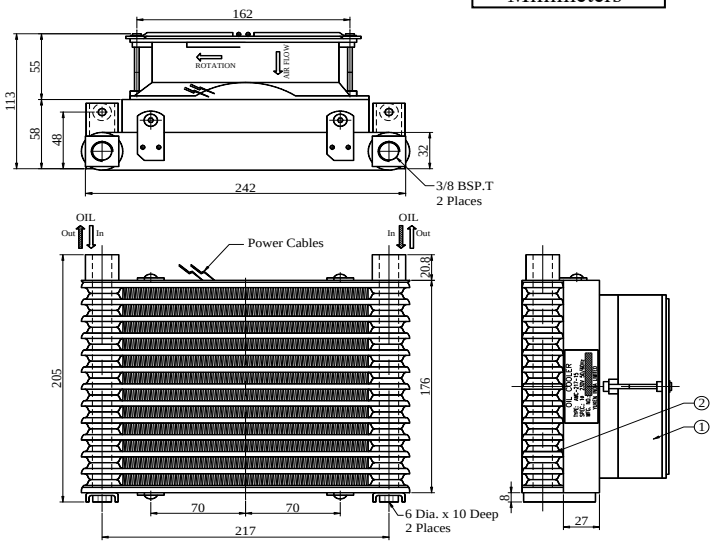
Model Numbers	Max.Operating Temp. °C	Max.Operating pressure Kgf/cm²	Max.Flow Rate lpm	Supply Voltagae volts-Ac	Air Flow rate CFM	Mass kg (Approx)
AMC-217-15	60	10	10	230	180~200	10.00

Model Number Designation

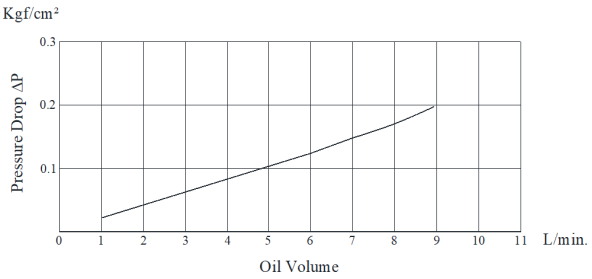
AMC	-217	-15
Series Number	AC Axial Fan	Design Number
AMC : Air Cooled Oil Cooler	**217 :** 21725 B2 MW	15

AMC-217-15

Dimensions in Millimeters



Pressure Drop Curve



Ordering Information

Example : Air Cooled Oil Cooler of maximum flow rate of 10 lpm, AC Axial fan : **AMC-217-15**, Material Number : **8800000963**

Part No.	Model code	Name
1	21725 B2 M W	AC axial fan
2	3A92-001	Radiator unit

Sl.No	Model code	Material Number
1	AMC-217-15	88000000963

Filter Element

Filter elements are used as a replacement/spares commonly in hydraulic oil filters. It characterizes the main filter variables, such as filtration ability, dirt retention capacity, and pressure loss.

Features

- High contamination retention through multi-layer fiberglass technology.
- Glass fiber material with water-absorbing function and electrically conductive non-woven medium for increased dirt holding capacity.

Model Number Designation

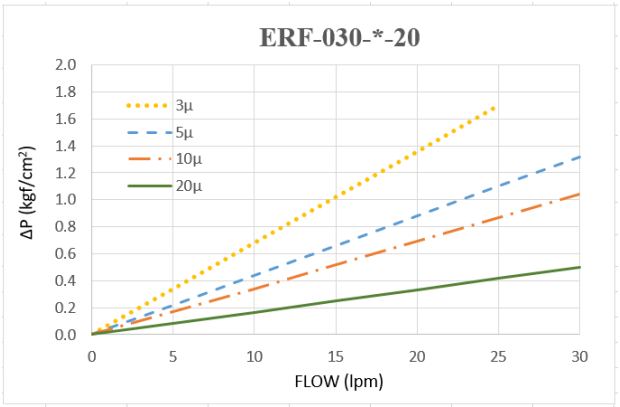
E	-R	F	-60	-03	-10
Series Number	**Type**	**Element Media**	**Size (Nominal flow*)**	**Filtration Rating**	**Design Number**
E : Filter Element	**R :** Return line	**F :** Inorganic Fiber Glass	**30 :** 30	**03 :** 03μm **05 :** 05μm **10 :** 10μm **20 :** 20μm	20
			60 : 60		
			110 : 110		
			160 : 160		
			240 : 240		
			330 : 330		
			660 : 660		
			950 : 950		
	P : Pressure line		**30 :** 30	**03 :** 03μm **05 :** 05μm **10 :** 10μm	
			60 : 40		
			110 : 100		
			160 : 120		
			240 : 150		
			330 : 300		
			500 : 450		

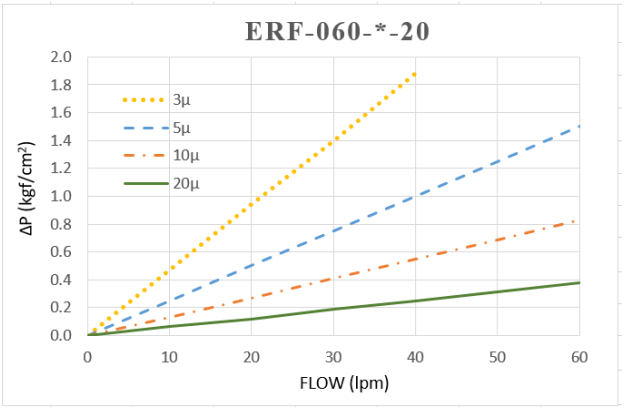
* Note: Refer to the chart for exact values of flow.

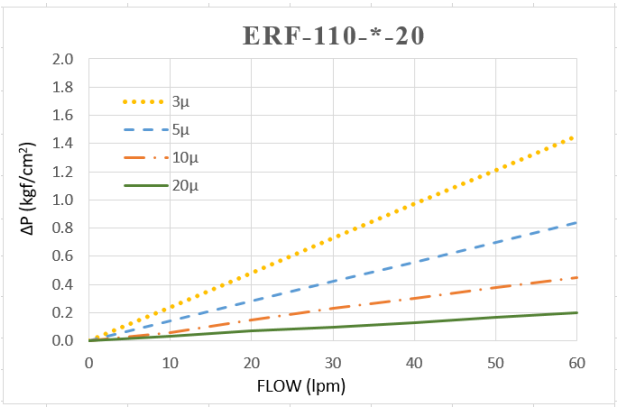
Pressure Drop Curve

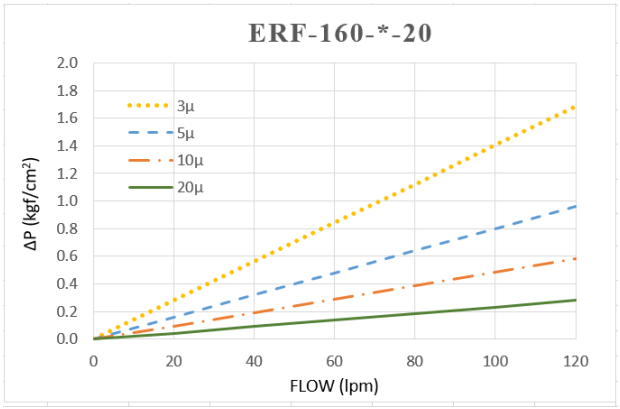
• Return line filter

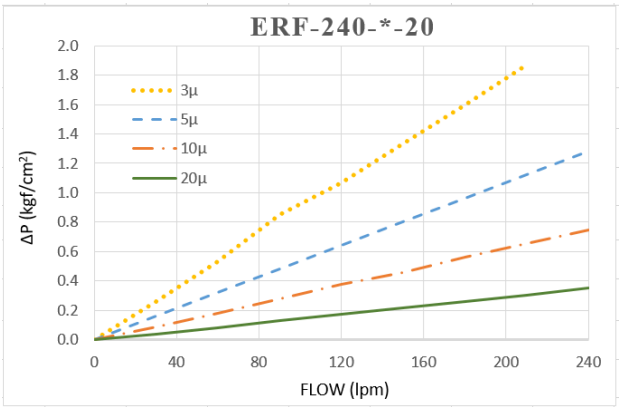
Pressure drop characteristics based on oil viscosity of 35 cSt and specific gravity of 0.850.

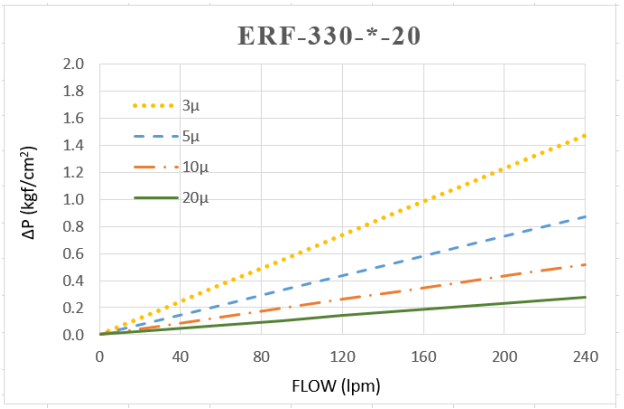


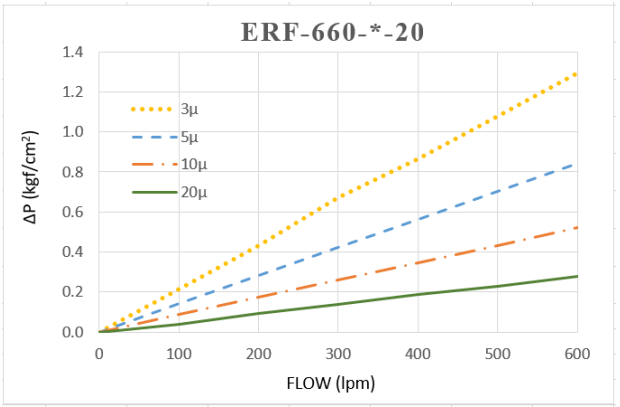


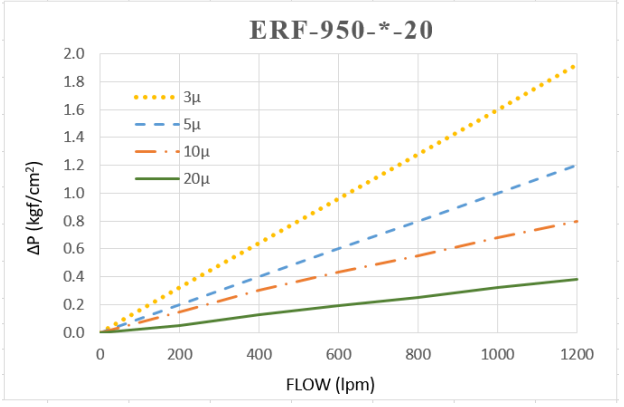






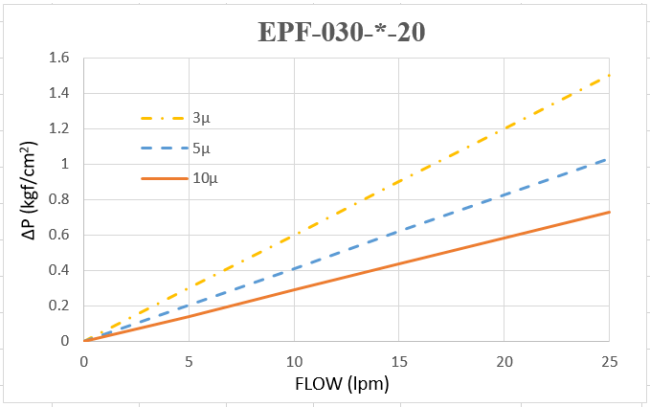


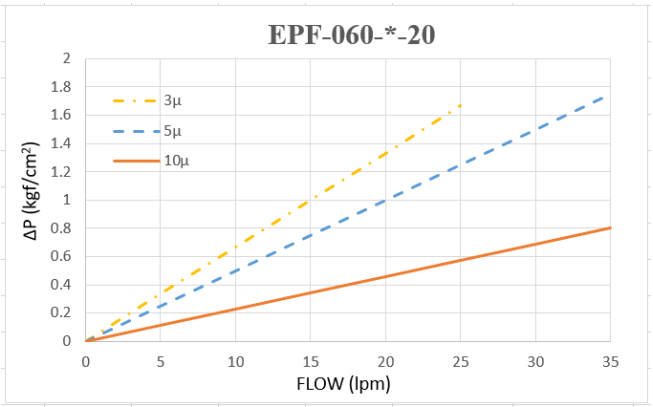


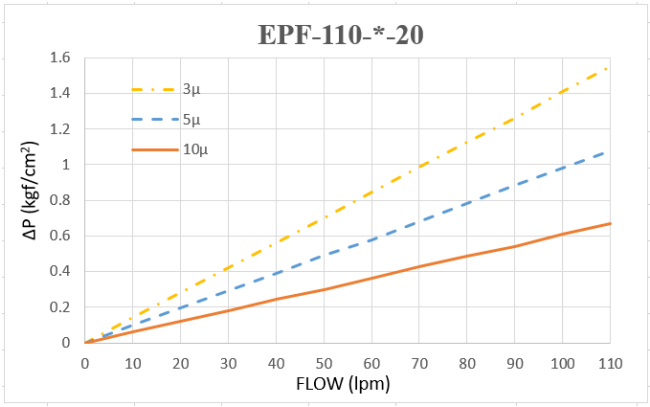


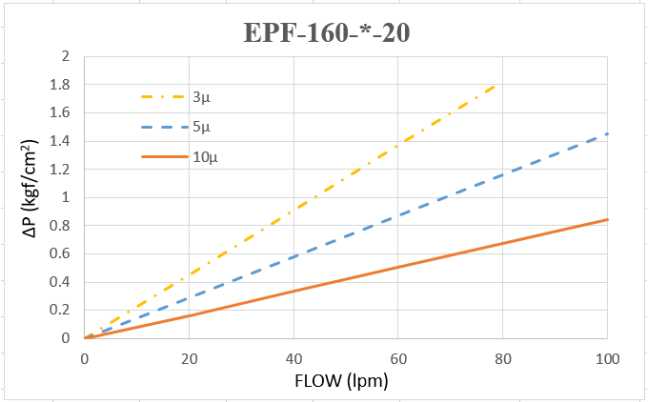
- **Pressure line filter**

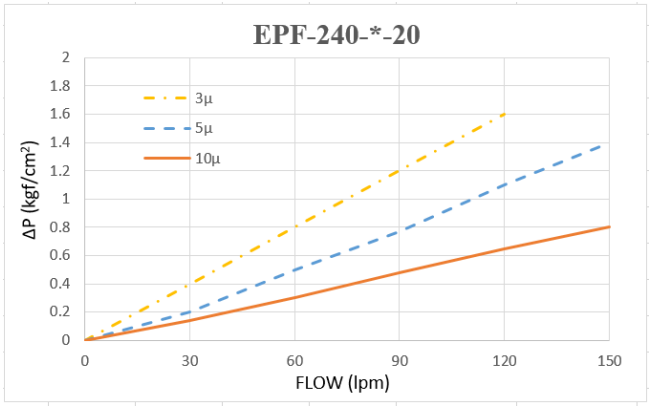
Pressure drop characteristics based on oil viscosity of 35 cSt and specific gravity of 0.850.

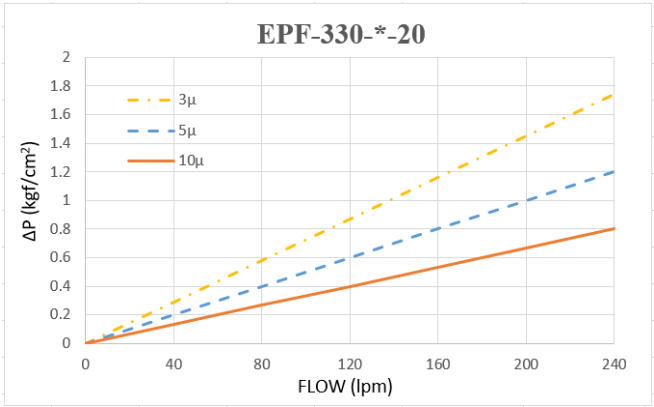


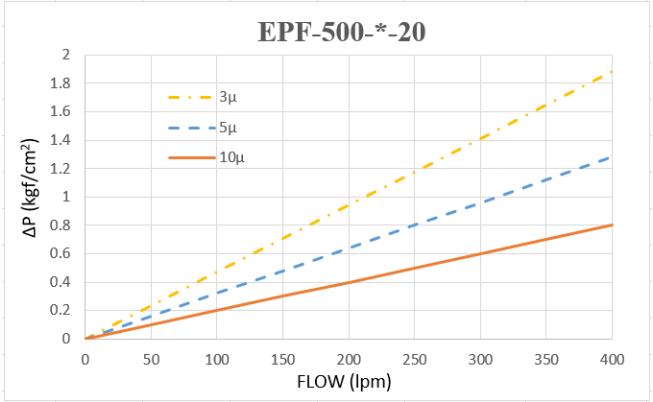






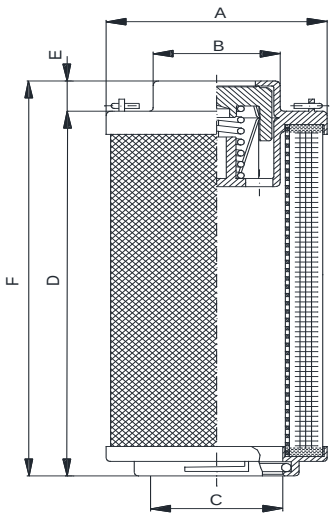






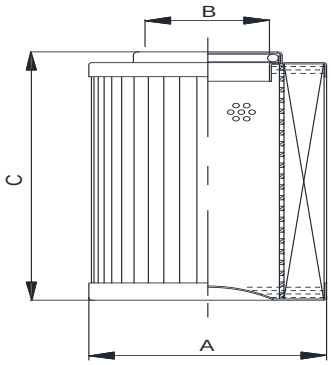
ERF-*-*-20

Dimensions in Millimeters



Model	A	B	C	D	E	F
ERF-30-*-20	35	17.9	12.2	94.5	10.5	105
ERF-60-*-20	51.5	24	22.2	90.5	10.5	101
ERF-110-*-20	51.5	24	22.2	160	10.5	170.5
ERF-160-*-20	73.5	36	34.2	130.5	13.5	144
ERF-240-*-20	73.5	36	34.2	189.5	13.5	203
ERF-330-*-20	94.5	45.8	48.2	180.5	13.5	194
ERF-660-*-20	114	65.5	68.5	314.5	18.5	333
ERF-950-*-20	143.5	95.5	96.5	338.5	24.5	363

EPF-*-*-20



Model	A	B	C
EPF-30-*-20	35	12.5	93
EPF-60-*-20	47	22.4	84
EPF-110-*-20	47	22.4	153
EPF-160-*-20	69	34.2	115
EPF-240-*-20	69	34.2	173
EPF-330-*-20	90.5	48.2	162
EPF-500-*-20	90.5	48.2	253

Instructions

These filter element should be replaced when the differential set pressure on the maintenance indicator is reached, if the filter does not have the clogging indicator, exchange the filter element at least every 6 months or around 950 hours of operation.

Replacing the filter element: Switch off the system before unscrewing the filter head & make sure that there is no pressure in the filter.

Ordering Information of Filter Element

Example: Return line filter element of up to 32 lpm, filtration rating of 10µ: **ERF-60-10-20,** Material Number : **88000001056.**

Preferred Series List

Sl.No	Model code	Material Number
1	ERF-60-10-20	88000001056
2	ERF-110-10-20	88000001060
3	ERF-160-10-20	88000001064
4	ERF-240-10-20	88000001068
5	ERF-330-10-20	88000001072
6	ERF-660-10-20	88000001076

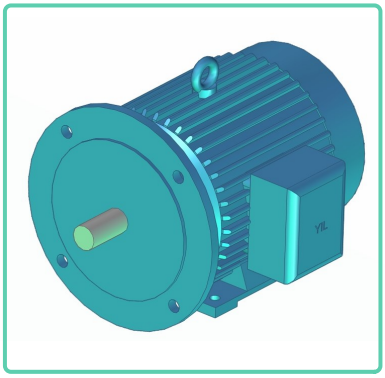
Preferred Series List

Sl.No	Model code	Material Number
1	EPF-30-05-20	88000001030
2	EPF-60-05-20	88000001033
3	EPF-110-05-20	88000001036
4	EPF-160-05-20	88000001039
5	EPF-240-05-20	88000001042
6	EPF-330-05-20	88000001045
7	EPF-500-05-20	88000001048
8	EPF-30-10-20	88000001031
9	EPF-60-10-20	88000001034
10	EPF-110-10-20	88000001037
11	EPF-160-10-20	88000001040
12	EPF-240-10-20	88000001043
13	EPF-330-10-20	88000001046
14	EPF-500-10-20	88000001049

Interchangeability with previous versions

EPF**20D and ERF**20D are perfectly interchangeable with all previous versions (YFE-PFG and YFE-RFG series) of YIL filters. There could be differences in the form due to changes to the ,construction and manufacturing process, but rest assured, fit and function interchangeability is maintained.

ELECTRIC MOTOR - SQUIRREL CAGE INDUCTION



YIL-Squirrel-Cage Induction Electric Motors are suitable for most industrial applications, these motors are precision-balanced, low vibration & low noise motors. These motors are available in the range of 63 to 132M frame size.

These are designed and manufactured to meet all the requirement of **IS 12615:2018**, the efficiency level in this standard are based on test methods specified in IS 15999 and are classified as efficiency class of IE2 (High efficiency).

Graphical symbol

Features

- Motors are designed for continuous(S1) Duty cycle and these can safely withstand a starting time of 5 to 7 sec for 2 consecutive starts from cold condition.
- These are provided with Class 'F' Insulation.
- These motors are designed for ambient temperature of 50°c max.
- Two Earthing- terminals are provided, one on the body & other in the terminal box.
- Conformance to standards- IS:325, IS:12615, IS:15999.

Specifications

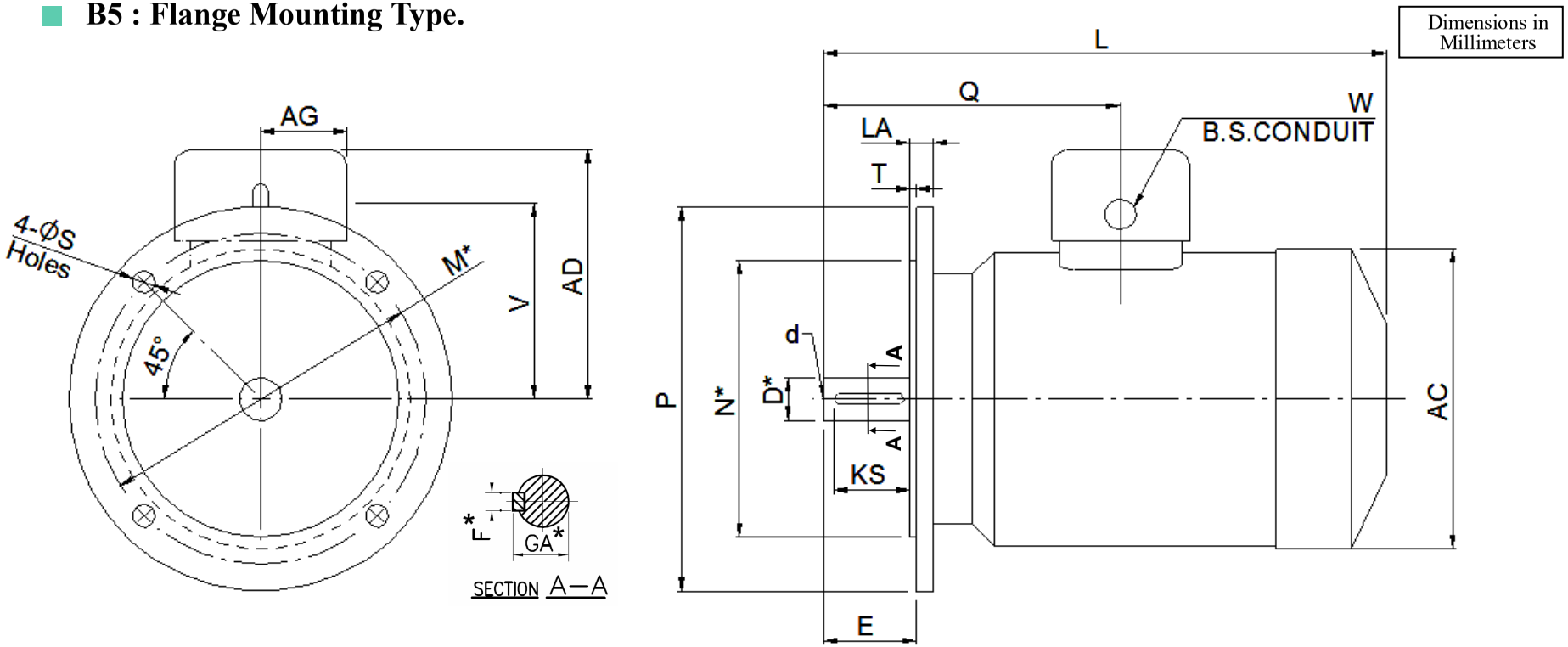
Model code	Voltage V	Degree of Protection	Class of Insulation	Frequency Hz	Ambient Temperature °C	Appx weight Kg
YEM-0.55KW-***	415v±10%	IP-55	Class-F:155°c	50Hz±5%	50°C	7.5
YEM-0.75KW-***						8
YEM-1.1KW-***						10.5
YEM-1.5KW- ***						13
YEM-2.2KW-***						18
YEM-3.7KW-***						24

Model Number Designation

YEM	-1.5KW	-4P	3PH	415V	50HZ	-B35	-F	-IP55	IE2	S1
Series Number	Motor Rating	Pole	Phase	Voltage V	Frequency Hz	Mounting Type	Insulation	Degree of protection	Eff. Class	Duty Class
YEM : ELECTRIC MOTOR	**0.55KW :** 0.55 kW **0.75KW :** 0.75 kW **1.1KW :** 1.1 kW **1.5KW :** 1.5 kW **2.2KW :** 2.2 kW **3.7KW :** 3.7 kW	**4P :** 1500 RPM	**3PH :** 3 Phase	**415V:** 415 V	**50HZ :** 50Hz	**B3 :** Foot mounting **B5 :** Flange Mounting **B35 :** Foot cum Flange Mounting	**F :** Class-F - upto 155°c	**IP55 :** IP55	**IE2 :** High Eff.	**S1 :** Cont. Duty

B5 : Flange Mounting Type.

Dimensions in Millimeters

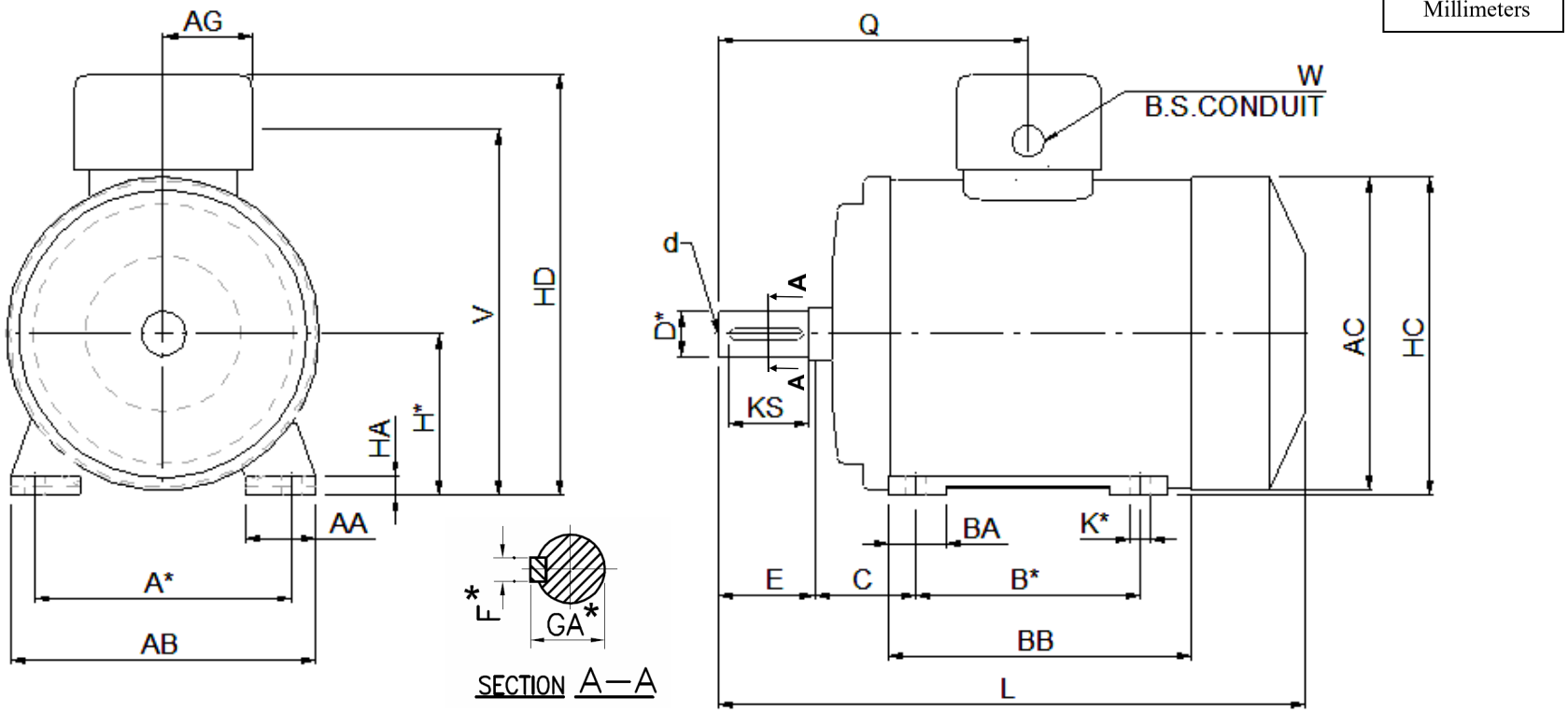


Motor details		Fixing				General					Terminal box				Shaft					
Model Code	Frame Size	P	N*	M*	S	T	LA	AD	AC	L	V	Q	AG	W-B.S. Conduit	D*	E	F*	GA*	KS	d
YEM-0.55KW-**	80	200	130	165	12	4	10	134	157	267	105	112	40	3/4"	19	40	6	22	35	M6
YEM-0.75KW-**																				
YEM-1.1KW-**	90S	200	130	165	12	4	10	140	174	302	109	139	52	3/4"	24	50	8	27	45	M8
YEM-1.5KW- **	90L	200	130	165	12	4	10	140	174	327	109	153	52	3/4"	24	50	8	27	45	M8
YEM-2.2KW-**	100L	250	180	215	15	4	11	157	195	366	125	152	56	1"	28	60	8	31	55	M10
YEM-3.7KW-**	112M	250	180	215	15	4	11	170	220	388	137	157	56	1"	28	60	8	31	55	M10

Note: * Refer Table-T For Tolerance

B3 : Foot Mounting Type.

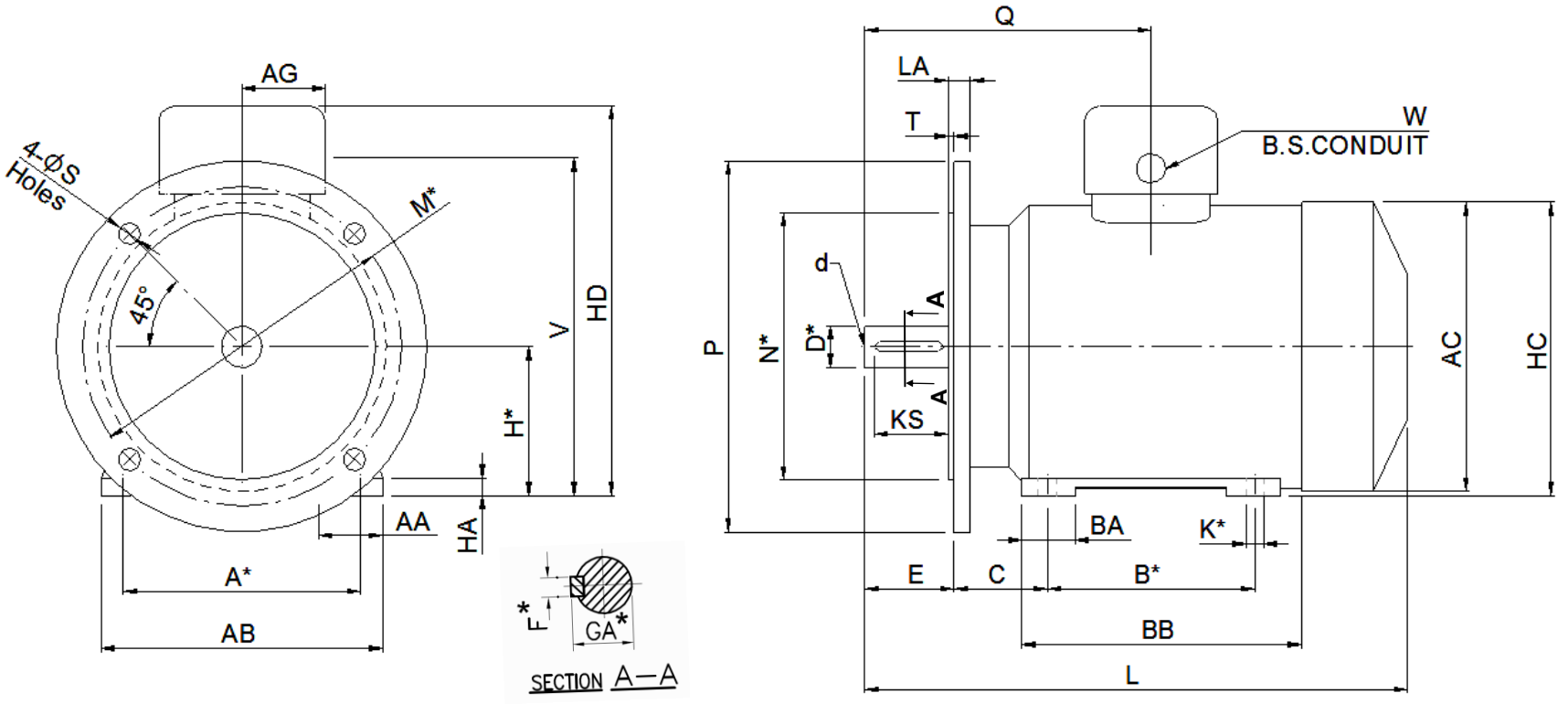
Dimensions in Millimeters



Motor Details		Fixing					General									Terminal Box				Shaft					
Model Code	Frame Size	A*	B*	C	H*	K*	AB	BB	AA	BA	HA	HC	HD	L	AC	V	Q	AG	W-B.S. Conduit	D*	E	F*	GA*	KS	d
YEM-0.55KW-**	80	125	100	50	80	10	150	124	31	35	9	159	214	267	157	185	112	40	3/4"	19	40	6	21.5	35	M6
YEM-0.75KW-**																									
YEM-1.1KW-**	90S	140	100	56	90	10	168	125	34	31.5	12	177	230	320	174	199	139	52	3/4"	24	50	8	27	45	M8
YEM-1.5KW- **	90L	140	125	56	90	10	168	150	34	31.5	12	177	230	327	174	199	153	52	3/4"	24	50	8	27	45	M8
YEM-2.2KW-**	100L	160	140	63	100	12	190	174	43.3	36	12	198	257	366	192	225	152	56	1"	28	60	8	31	55	M10
YEM-3.7KW-**	112M	160	140	70	112	12	220	174	47	36	12	222	282	388	220	250	157	56	1"	28	60	8	31	55	M10

Note: * Refer Table-T For Tolerance

B35 : Foot cum Flange Mounting Type



Motor Details		Fixing					General									Terminal Box				SHAFT					
Model Code	Frame Size	A*	B*	C	H*	K*	AB	BB	AA	BA	HA	HC	HD	L	AC	V	Q	AG	W-B.S. Conduit	D*	E	F*	GA*	KS	d
YEM-0.55KW-**	80	125	100	50	80	10	150	124	31	35	9	159	214	267	157	185	112	40	3/4"	19	40	6	21.5	35	M6
YEM-0.75KW-**																									
YEM-1.1KW-**	90S	140	100	56	90	10	168	125	34	31.5	12	177	230	320	174	199	139	52	3/4"	24	50	8	27	45	M8
YEM-1.5KW- **	90L	140	125	56	90	10	168	150	34	31.5	12	177	230	327	174	199	153	52	3/4"	24	50	8	27	45	M8
YEM-2.2KW-**	100L	160	140	63	100	12	190	174	43.3	36	12	198	257	366	192	225	152	56	1"	28	60	8	31	55	M10
YEM-3.7KW-**	112M	160	140	70	112	12	220	174	47	36	12	222	282	388	220	250	157	56	1"	28	60	8	31	55	M10

Note: * Refer Table-T For Tolerance

Table-T (Tolerance Table)

Dimension	Tolerance		Specification
A, B	±0.75		--
H	-0.5		IS:1231
K	+0.360	Ø7, Ø10	
	+0.43	Ø12	
D	j6	Ø19, Ø24, Ø28	
	k6	Ø38	

Dimension	Tolerance	
GA, F	--	
N	j6	Up to Ø230
M	±0.3	Up to Ø265
KEY WAY FIT	h9/N9	

Operating Conditions

- Environmental Conditions : Non– Hazardous, Relative Humidity : less that 90% RH.
  Altitude : less than 1000 meters.
- Power Source Conditions : voltage ± 10 %, Frequency ± 5 % (10% max. combined voltage and frequency).
- Method of Starting : Direct Online starting.
- Direction of Rotation : Suitable for Bi– Directional operation.
- Test Procedure : As per std. IS:325, IS:12615, IS:15999

Ordering Information

Example : Electric motor having a 1.5kW,4Pole,3 phase & 415 V AC With Foot cum Flange mounting type & S1 Duty cycle : **YEM-1.5KW-4P3PH415V50HZ-B35-F-IP55IE2S1 ,** Material Number : **88000001109**

SL.No	Model Code	Material Number
1	YEM-0.55KW-4P3PH415V50HZ-B3-F-IP55IE2S1	88000001098
2	YEM-0.55KW-4P3PH415V50HZ-B5-F-IP55IE2S1	88000001099
3	YEM-0.55KW-4P3PH415V50HZ-B35-F-IP55IE2S1	88000001100
4	YEM-0.75KW-4P3PH415V50HZ-B3-F-IP55IE2S1	88000001101
5	YEM-0.75KW-4P3PH415V50HZ-B5-F-IP55IE2S1	88000001102
6	YEM-0.75KW-4P3PH415V50HZ-B35-F-IP55IE2S1	88000001103
7	YEM-1.1KW-4P3PH415V50HZ-B3-F-IP55IE2S1	88000001104
8	YEM-1.1KW-4P3PH415V50HZ-B5-F-IP55IE2S1	88000001105
9	YEM-1.1KW-4P3PH415V50HZ-B35-F-IP55IE2S1	88000001106
10	YEM-1.5KW-4P3PH415V50HZ-B3-F-IP55IE2S1	88000001107
11	YEM-1.5KW-4P3PH415V50HZ-B5-F-IP55IE2S1	88000001108
12	YEM-1.5KW-4P3PH415V50HZ-B35-F-IP55IE2S1	88000001109
13	YEM-2.2KW-4P3PH415V50HZ-B3-F-IP55IE2S1	88000001110
14	YEM-2.2KW-4P3PH415V50HZ-B5-F-IP55IE2S1	88000001111
15	YEM-2.2KW-4P3PH415V50HZ-B35-F-IP55IE2S1	88000001112
16	YEM-3.7KW-4P3PH415V50HZ-B3-F-IP55IE2S1	88000001113
17	YEM-3.7KW-4P3PH415V50HZ-B5-F-IP55IE2S1	88000001114
18	YEM-3.7KW-4P3PH415V50HZ-B35-F-IP55IE2S1	88000001115

ELECTRICAL CLOGGING INDICATOR

EI Series Electrical Clogging Indicator

Electrical Clogging indicators are warning devices which gives electrical signals that the filter element is exceeding a pressure or back pressure in the filter and it indicates that filter element is clogged with contaminants and should be changed or cleaned.

Graphical symbol

Features

- Electrical connection as per DIN 43650
- Max. switching voltage : DC: 30 V, AC: 250 V

Specifications

Model Numbers	Max. Operating Pressure (bar)	Max.Temperature Range (°C)	Switching Type	Mass kg(Approx)
EI-R13-20	12	-25 to +100	N/C or N/O	0.124
EI-E05-20	420	-25 to +100	N/C or N/O	0.178

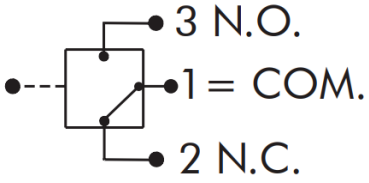
Model Number Designation

EI	R13*	-20
Series Number	Pressure Setting & Type of Indication	Design Number
EI : Electrical Clogging Indicator	**R13** : 1.3 bar (Electrical switch) **E05** : 5 bar (Differential Electrical switch)	**20**

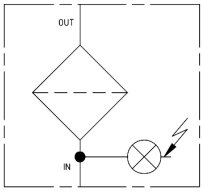
* EI-R13-20 : For Return and Suction line filters.

* EI-E05-20 : For Inline and Pressure line filters.

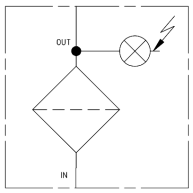
EI-R13-20 (For Return & Suction Line Filters)



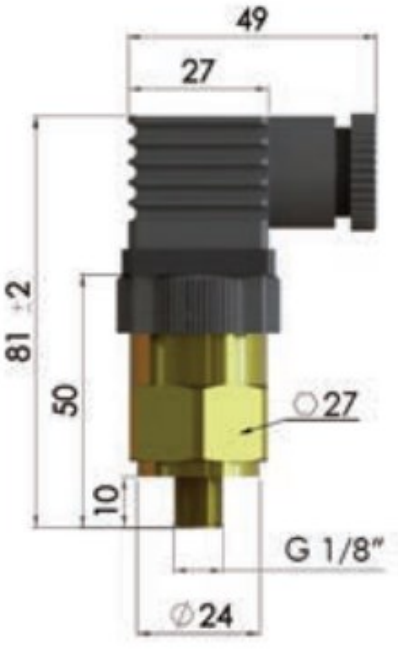
Return filters



Suction filters



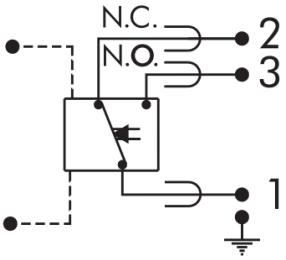
Dimensions in Millimeters



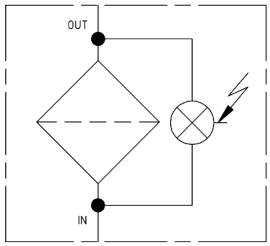
Description	Specification
Type of indication	Pressure switch
Max operating pressure	12 bar
Thread size	1/8" BSP
Max.torque	10Nm
Switching type	N/C or N/O
Max.switching voltage	DC : 30V
	AC : 250V
Max.current @ resistive load	DC : 30V - 4 A inductive,3 A resistive
	AC : 250V - 3A inductive, 2 A resistive

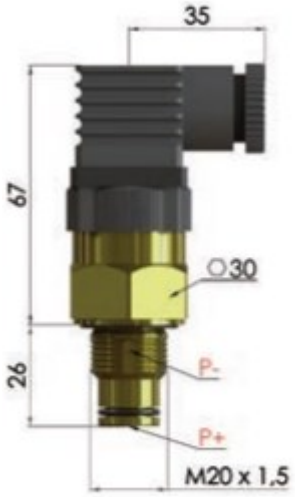
ELECTRICAL CLOGGING INDICATOR

EI-E05-20 (For Inline Filters)



Inline filters

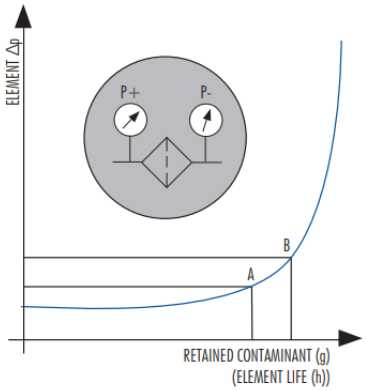




Description	Specification
Type of indication	Differential Electrical Switch
Max operating pressure	420 bar
Thread size	M20x1.5
Max.torque	50Nm
Switching type	N/C or N/O
Max.switching voltage	DC : 30V
	AC : 250V
Max.current @ resistive load	1A inductive, 5 A resistive

NOTE :-

1. The electrical clogging indicator measures the pressure in one point only:
   - For suction application it must be located downstream the filter element (P-)
   - For return application it must be located upstream the filter element (P+)
2. The Differential indicator measures the Dp between upstream and downstream of the filter element,
   - It is the ideal indicator for in line application.
3. The Pressure Drop (Dp = differential pressure) through the filter increases during the system operation due to the contaminant retained by the filter element.
4. The filter element must be replaced when the indicator shows an alarm and before the Dp reaches the by-pass set value (i.e. the set value A of the clogging indicator must always be lower that the set value B of the by-pass valve).



WARNING: In cold start conditions a false alarm can be caused by higher oil viscosity due to low temperature; the indicator alarm must be considered at normal working temperature only .

Ordering Information

Example : Electrical Clogging indicator of return line side having pressure range of 0 ~ 15 psi.:**EI-R13-20**
Material Number : **88000001082**

Sl.No	Model code	Material Number
1	EI-R13-20	88000001082
2	EI-E05-20	88000001083