

■ YLG Series Oil Level Indicator

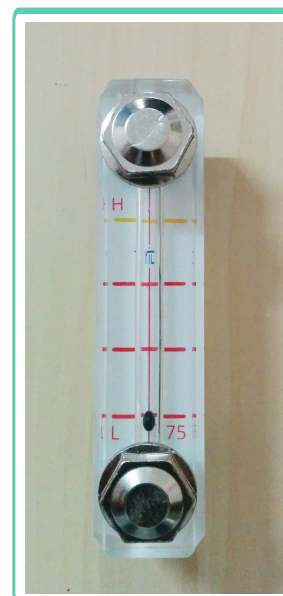
These oil level indicator are used for non pressurized tanks in hydraulic systems to indicate oil level inside tank.

■ 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



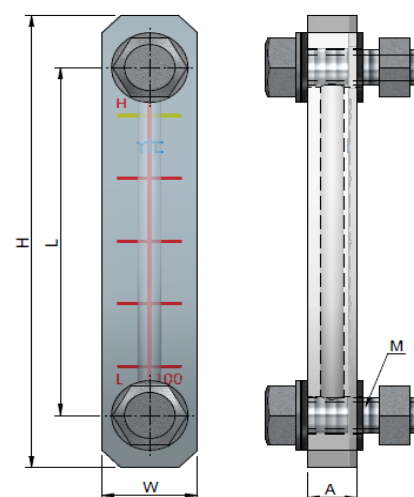
Graphical symbol



■ 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.

■ 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/cm ²	Accuracy % of FSD	Process Connection	Mass (kg) (Approx.)			
				Mounting Type			
				FB	SB	FB-F	SB-S
YPG-63-G-*-*-10	400	1.6	G01	0.25	0.18	0.22	0.24
			G02	0.27	0.20	0.24	0.26
			G02	0.50	0.43	0.48	0.46
			G03	0.53	0.45	0.51	0.48
YPG-100-G-*-*-10			G04	0.55	0.48	0.52	0.50

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

■ Model Number Designation

YPG	-63	- G	- 100	- G02	- FB	- F	- 10
Series Number	Dial Size	Case Filling	Pressure Range kgf/cm ²	Process Connection	Connection Orientation	Mounting Type	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	G01 : G1/8 G02 : G1/4	# FB : Face Mounting Back Entry	(None): Omit if not required F : Panel Plate for FB type S : Panel Plate for SB type	10
	100 : Ø100mm			G02 : G1/4 G03 : G3/8 G04 : G1/2	* SB : Surface Mounting Bottom Entry		

Note : # F Mounting type is not applicable for 'SB' type. Eg:- YPG-63-G-70-G01-SB-F-10 is not valid code

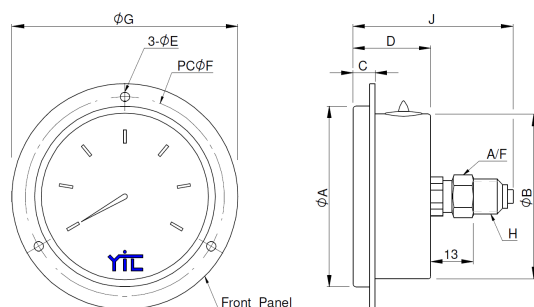
* S Mounting type is not applicable for 'FB' type. Eg:- YPG-63-G-70-G01-FB-S-10 is not valid code

■ YPG-*-**-FB-F-10

- Face Mounting-Back Entry Front Panel

Note : * S Mounting type is not applicable for 'FB' type.

Eg:- YPG-63-G-70-G01-FB-S-10 is not valid code



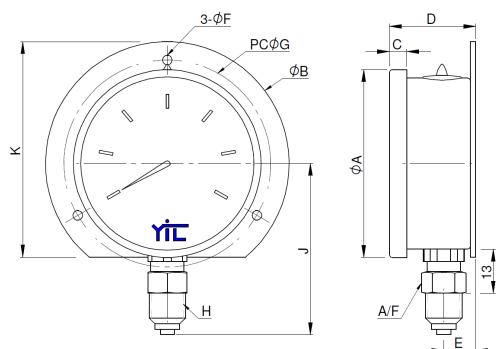
Model	ØA	ØB	C	D	ØE	PCØF	ØG	H (Thread Size)	A/F	J
YPG-63	68	61.5	11.5	32.5	3.6	75	85	G1/8	14.0	55.5
								G1/4	14.0	60.5
YPG-100	108	98.5	11.5	33.5	5.0	118	132	G1/4	14.0	61.5
								G3/8	17.0	65.5
								G1/2	22.0	69.5

■ YPG-*-**-SB-S-10

- Surface Mounting-Bottom Entry-Surface Plate

Note : # F Mounting type is not applicable for 'SB' type.

Eg:- YPG-63-G-70-G01-SB-F-10 is not valid code

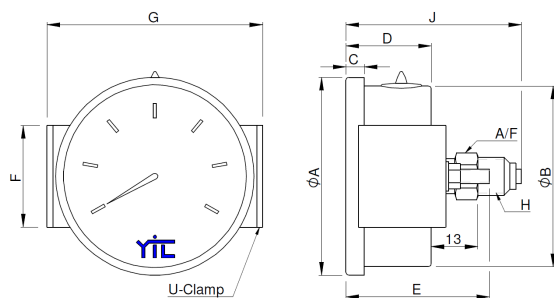


Model	ØA	ØB	C	D	E	ØF	PCØG	H (Thread Size)	A/F	J	K
YPG-63	68	85	7.25	36.5	13.3	3.6	75	G1/8	14.0	53.5	78
								G1/4	14.0	58.5	78
YPG-100	108	132	7.85	37.5	13.3	5.0	116	G1/4	14.0	63.0	122
								G3/8	17.0	81.5	122
								G1/2	22.0	85.0	122

■ YPG-*-**-*-FB-10

• Face Mounting-Back Entry

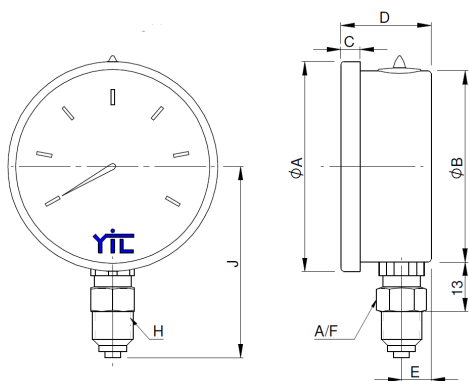
Dimensions in
Millimeters



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	G1/8	14.0	55.5
								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



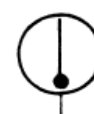
Model	ØA	ØB	C	D	E	H (Thread Size)	A/F	J
YPG-63	68	61.5	7.5	32.5	10.3	G1/8	14.0	53.5
						G1/4	14.0	58.5
YPG-100	108	98.5	7.5	33.5	10.3	G1/4	14.0	63.0
						G3/8	17.0	81.5
						G1/2	22.0	85.0

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

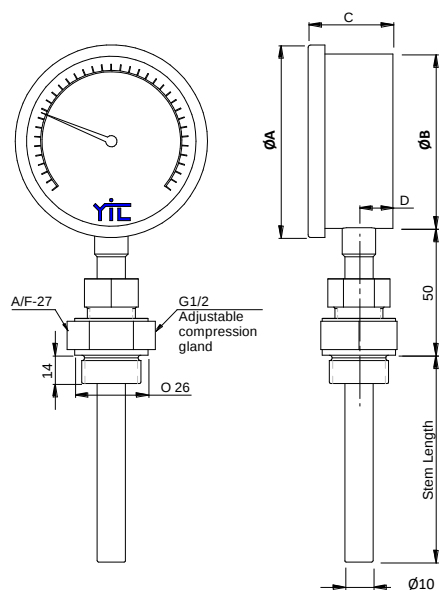
YTM	-D	-63	-100	-G04	-300	-L	-10
Series Number	Mounting Type	Dial Size	Temperature * Range °C	Process * Connection	Stem Length*	Connection Orientation	Design Number
YTM : Temperature Gauge	D : Direct	63	50 : 0 ~ 50 60 : 0 ~ 60 80 : 0 ~ 80 100 : 0 ~ 100 120 : 0 ~ 120	G04 : G1/2"	63 : 63 mm 150 : 150 mm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

* Consult YIL For special process connection (NPT, Metric & other).

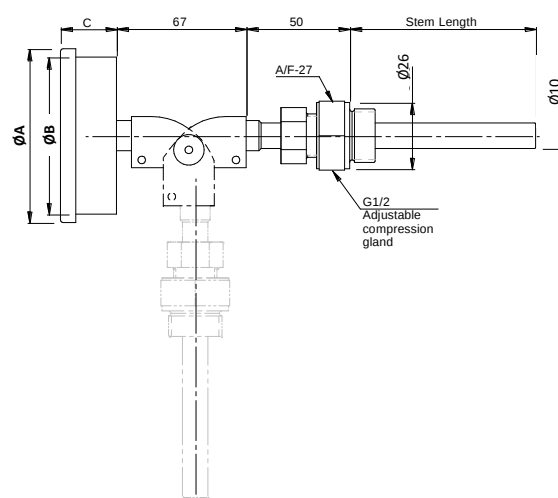
■ YTM-D-*-G04-*-L-10

- Direct Mounting-Lower Entry



■ YTM-D-*-G04-*-E-10

- Direct Mounting-Every Angle



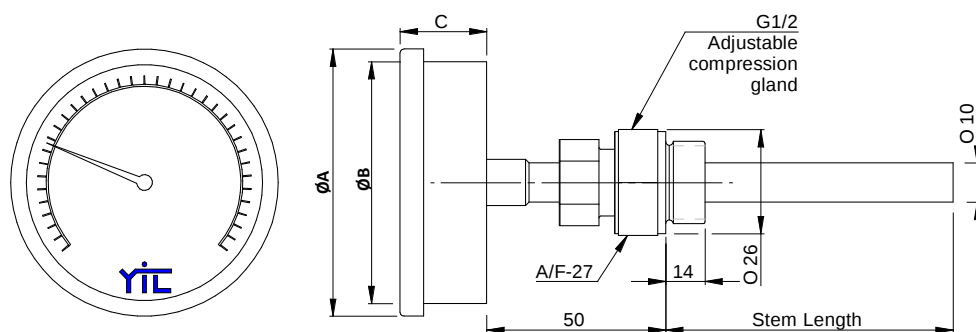
Dimensions in
Millimeters

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

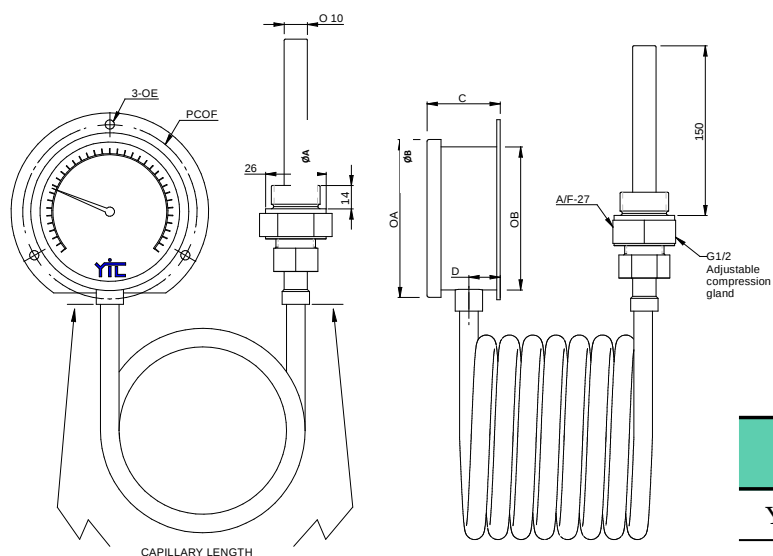
- Direct Mounting-Black Entry



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

■ YTM-C-*-G04-*-L-10

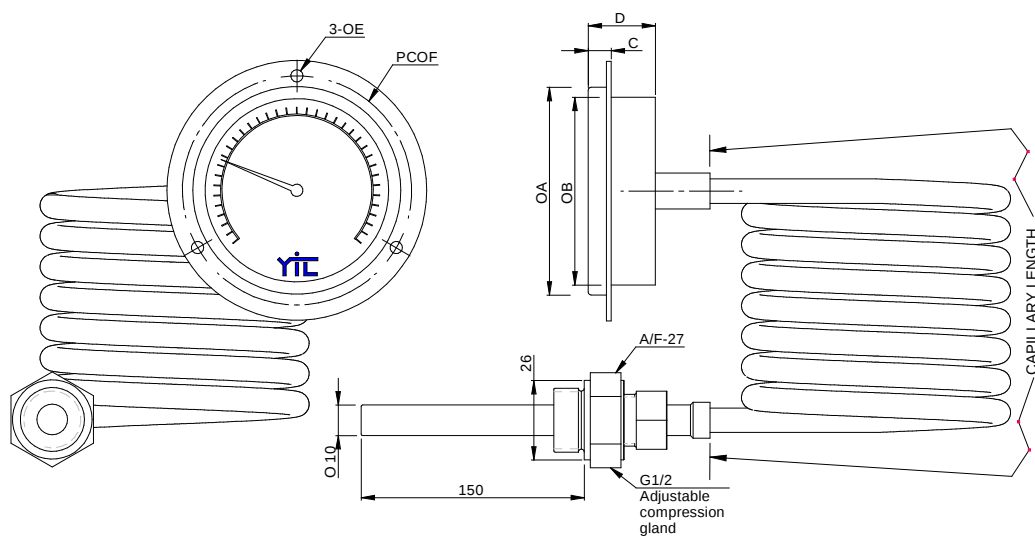
- Capillary tube-Lower Entry



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

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

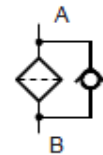
- Sub-plate mounting type return line filter.
- Paper element filtration media.
- Spin-on disposable canisters.
- Suitable for petroleum and mineral based oils.
- In built by-pass valve.

Specifications

Model Number	Max. Working pressure kgf/cm ²	Flow handling capacity l/min	Mass kg(Approx)
YRF-P-16-M-25-**-10	7	40 (Nominal)	1.2



Graphical symbol

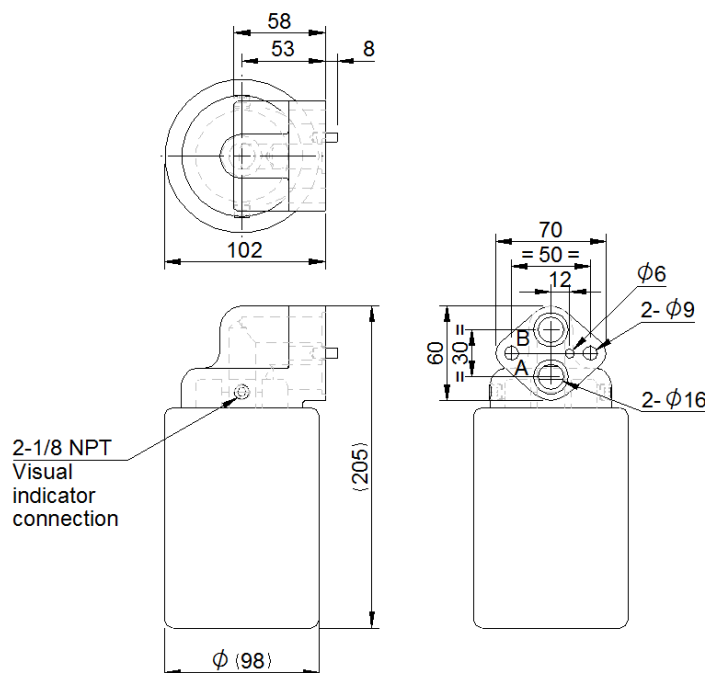


Model Number Designation

YRF	- P	- 16	- M	- 25	- VI	- 10
Series Number	Element Media	Port 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



Spin-on Canister

These are used to improve the reliability of a lube or hydraulic system to eliminate failure due to contamination. And these consists of a filter bowl, 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

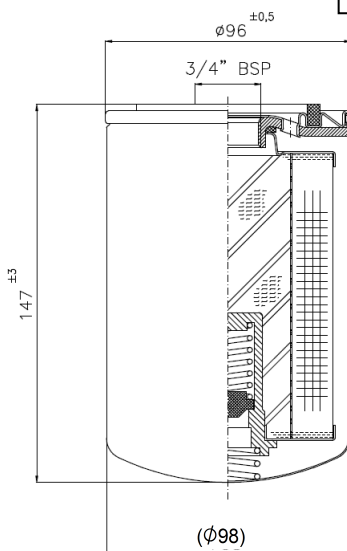
- Disposable spin-on element.
- By-pass setting— 1.7 kgf/cm^2

Model Number Designation

YRFE	-P	-6	C25
Series Number	Element Media	Port Size	Filtration Rating
YRFE : Spin-on canister	P : Paper	06 : G3/4"	C25 : $25 \mu\text{m}$

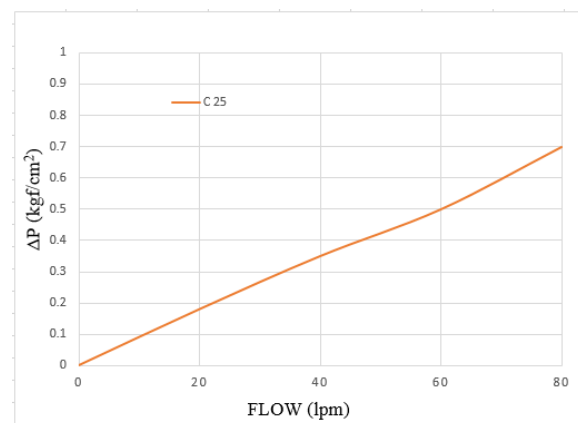
Dimensions

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 $0.46(0.3 \times 46/30)$ 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 after 400 hours of operation .

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

■ YSS Series Suction Strainers

These suction strainers are used to trap contaminants 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

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

■ Specifications

Model Numbers	Max.Working Temperature ° C	Max.Flow Rate L/min
YSS-*-10	80	800

■ Model Number Designation

YSS	-15G	-10
Series Number	Flow Rate L/min	Design Number
YSS : Suction Strainer	5G : 20	10
	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	

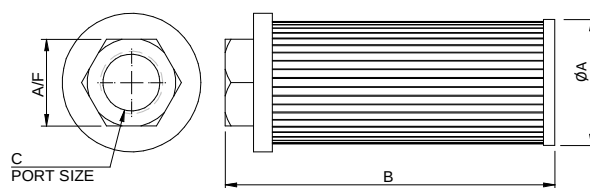


Graphical symbol



Dimensions in Millimeters

■ YSS-*-10



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

■ 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.

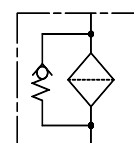
■ Features

- Built-in bypass 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.

■ Specifications



Graphical symbol



Model Numbers	Max.Working Pressure kgf/cm ²	Max.Operating Temp. °C	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

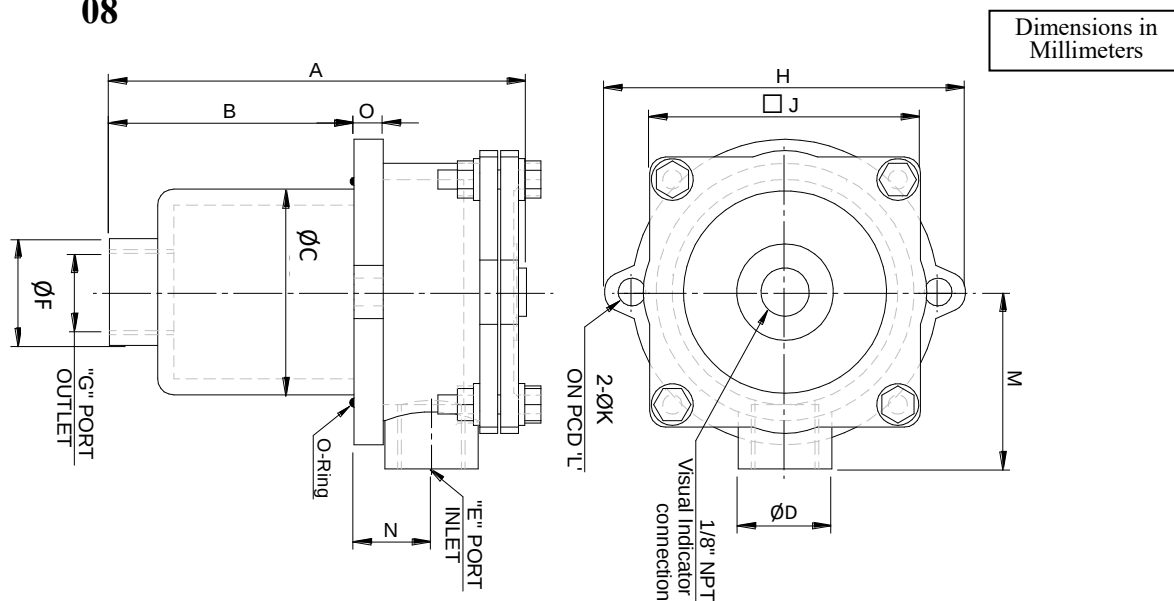
■ Model Number Designation

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: 1. Visual clogging indicator model : **VI-R-1015-SB**

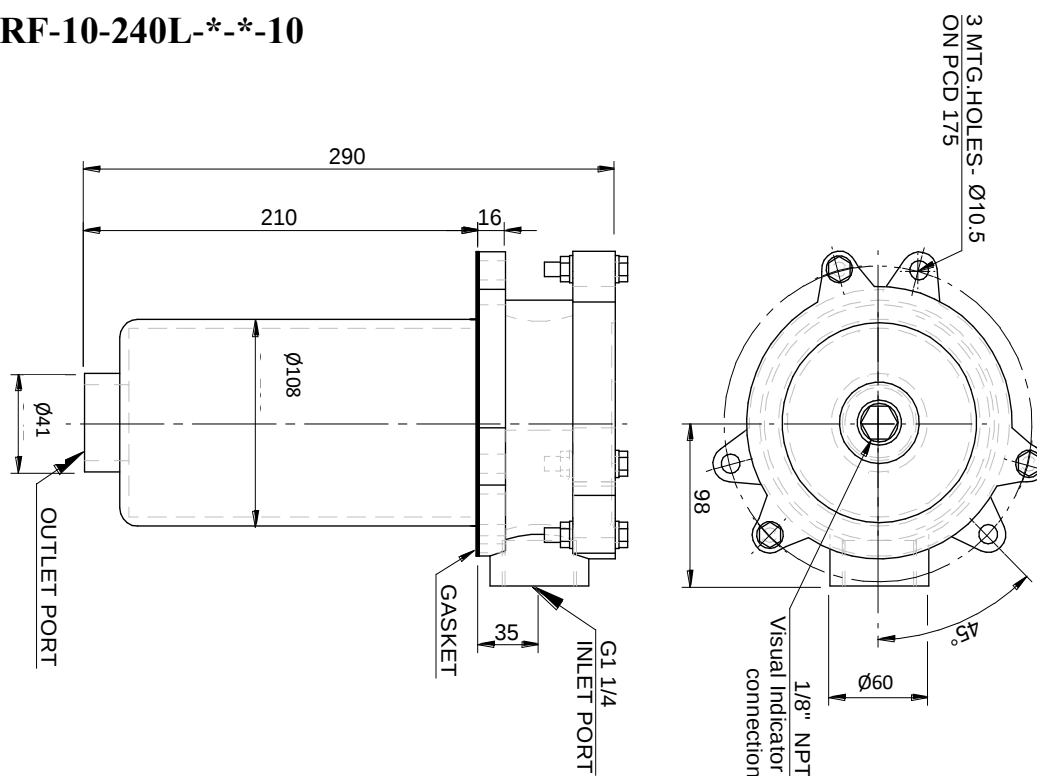
2. Customized filters available upon request.

04
YTTRF-06-*-*-10
 08



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 after 400 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

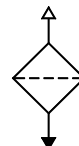
YTTRFE	-04	-25M	-10
Series Number	Size	Filtration Rating	Design Number
YTTRFE: Tank Top Return Line Filter Element	04 06 08 10	10M : 10µm 25M : 25µm	10

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 contaminants 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

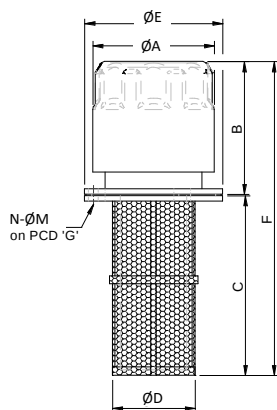


Model Number Designation

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		

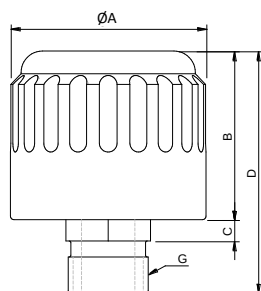
YFB-TT-**-40-10

Dimensions in
Millimeters



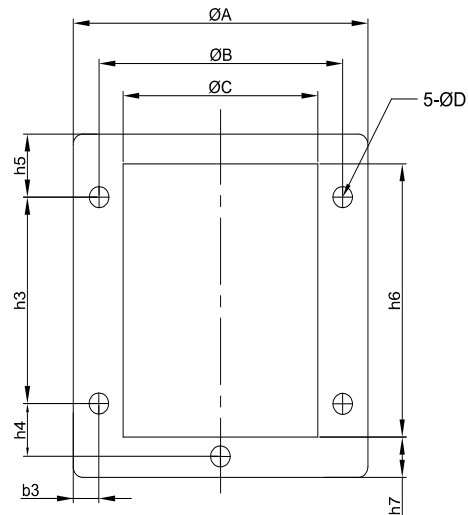
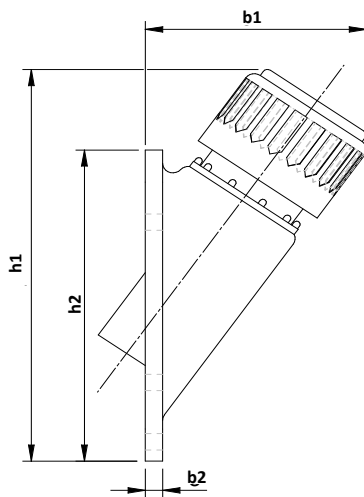
Model	ØA	B	C	ØD	ØE	F	'G' PCD	N No. of Holes	ØM
YFB-TT-150-40-10	45.0	48	62.5	28	51	112	41.3	3	5.1
YFB-TT-700-40-10	76.2	57	93.5	48	83	152	71.5	6	7.0

YFB-TM-**-40-10



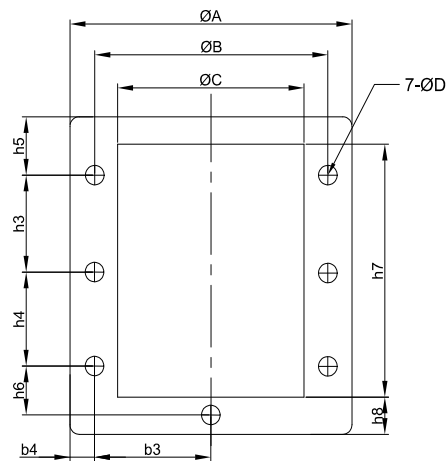
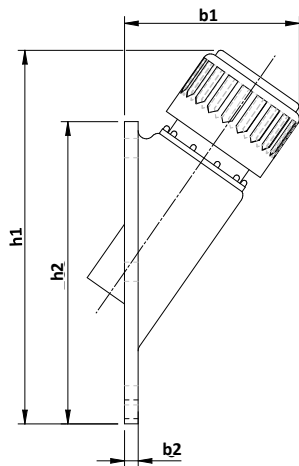
Model	ØA	B	C	D	G
YFB-TM-150-40-10	46	40	10	63	G 1/2
YFB-TM-700-40-10	76	50	8	72	G 3/4

■ 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

■ 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

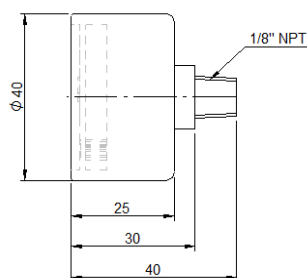
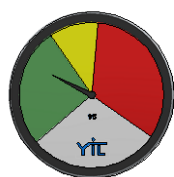
■ Specifications

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

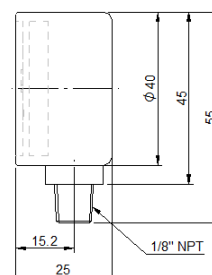
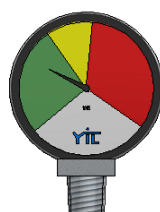
■ Model Number Designation

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 2025 : G : 0 ~ 20 Y : 20 ~ 25	FB : Face Mounting Back Entry SB : Surface Mounting Bottom Entry
	S : Suction line	0207 : G : (-15) ~ 02 Y : 02 ~ 07	

■ VI- $\frac{R}{S}$ -*-FB



■ VI- $\frac{R}{S}$ -*-SB



Dimensions in
Millimeters

■ 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

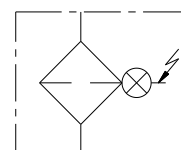
■ Features

- 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.

■ Specifications



Graphical symbol



Model Number	Max.Working Pressure kgf/cm ²	Max.Flow Rate L/min	Max.Operating Temp. °C	Approx. Mass kg
PLFM-30-*-22	250	30	80	8
PLFM-60-*-22		40		9
PLFM-110-*-22		100		10
PLFM-160-*-22		120		18
PLFM-240-*-22		150		19
PLFM-330-*-22		240		24
PLFM-500-*-22		450		27

■ Model Number Designation

PLFM	-60	-03	-EI	-22
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	22
	60 : 40			
	110 : 100			
	160 : 120			
	240 : 150			
	330 : 300			
	500 : 450			

Note : 1. Electrical clogging indicator model : **EI-E05-20**

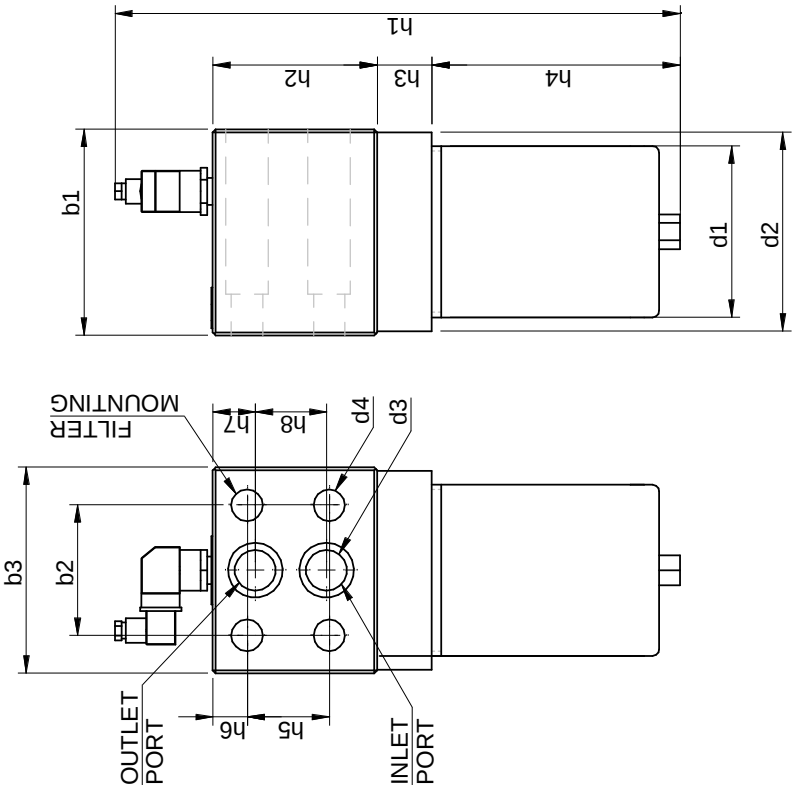
2. Customized filters are available upon request.



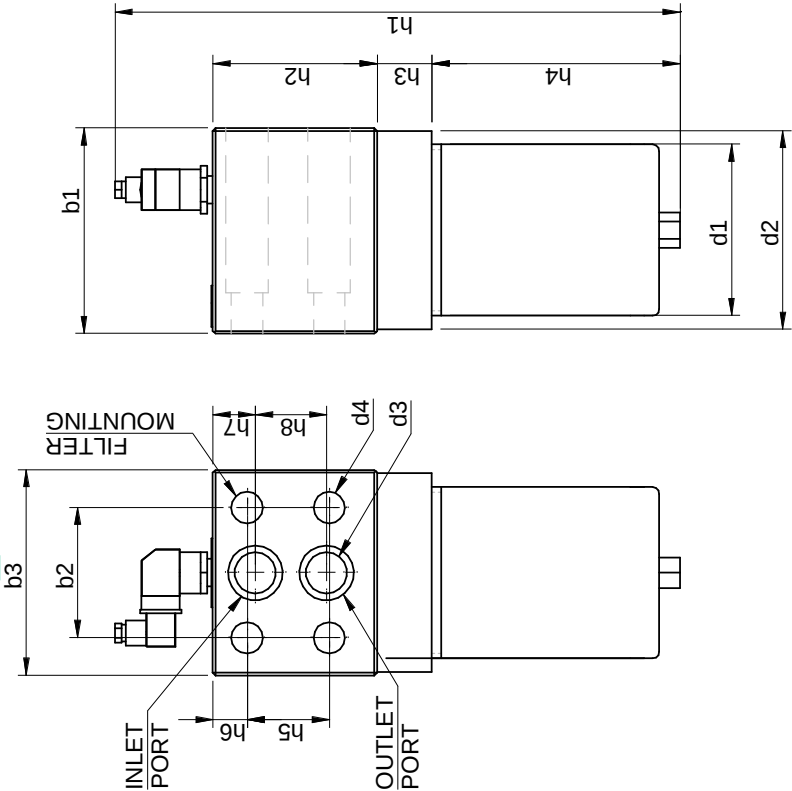
PRESSURE LINE FILTER

Dimensions in
Millimeters

PLFM-330~500-*-*22



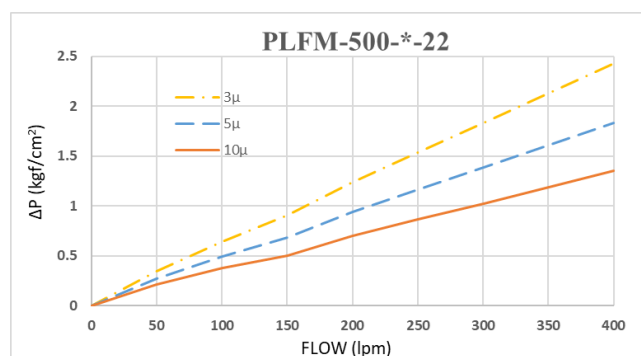
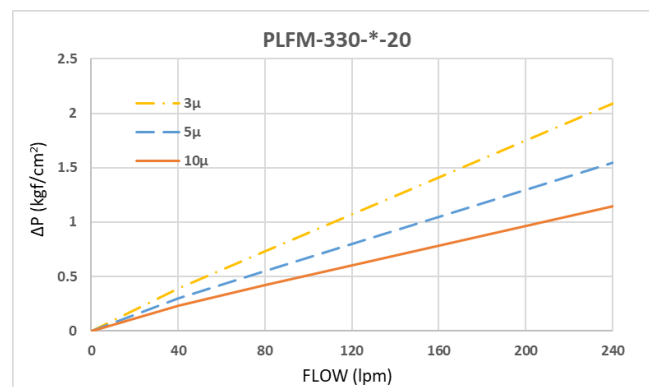
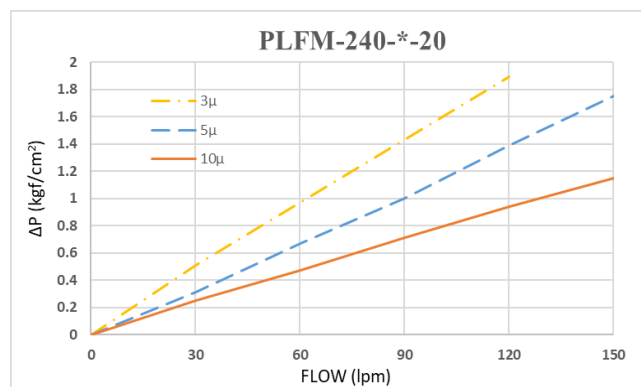
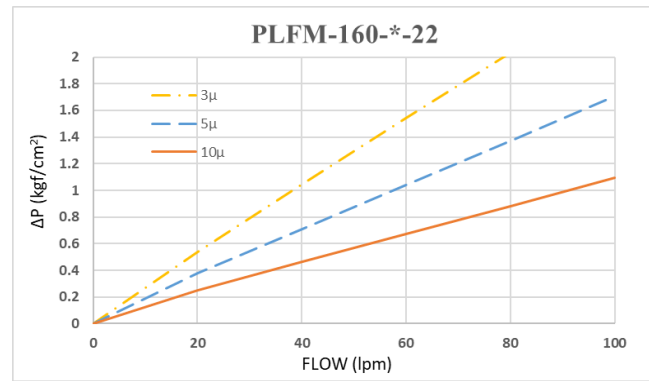
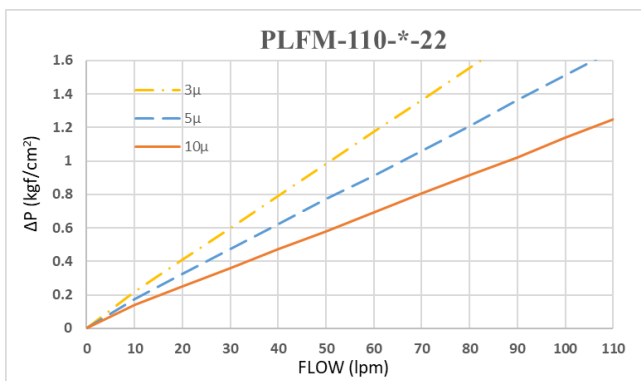
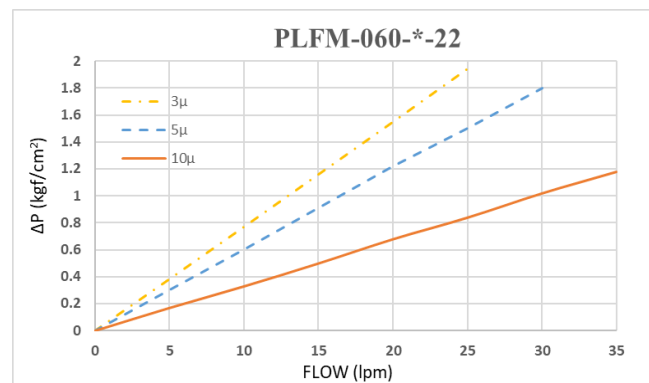
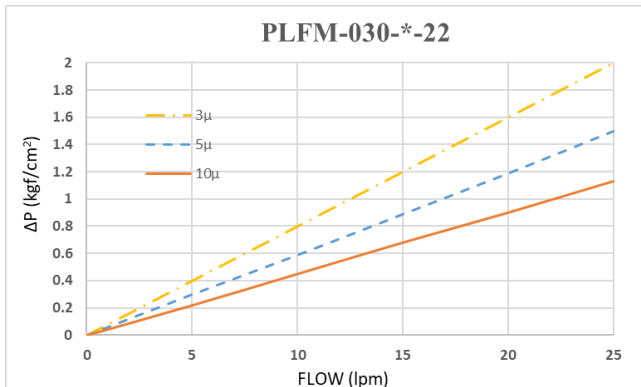
PLFM-30 ~ 240-*-*22



Model	b1	b2	b3	d1	d2	d3	d4	h1	h2	h3	h4	h5	h6	h7	h8	SW
PLFM-30-*-*22	90	57	82	65	70	14	13	288	82	40	99	45	15.5	31	28	27
PLFM-60-*-*22	111	72	110	80	90	20	18	285	96	40	82	55	19.5	35	35	27
PLFM-110-*-*22	111	72	110	80	90	20	18	354	96	40	151	55	19.5	35	35	27
PLFM-160-*-*22	155	95	140	100	116	32	22	337	116	45	109	60	25	31	52	32
PLFM-240-*-*22	155	95	140	100	116	32	22	399	116	45	171	60	25	31	52	32
PLFM-330-*-*22	154	95	150	140	150	30	23	404	116	65	176	58	26	32	52	32
PLFM-500-*-*22	154	95	150	140	150	30	23	495	116	65	267	58	26	32	52	32

Pressure Drop Curve

Pressure drop characteristics based on oil viscosity of 30 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

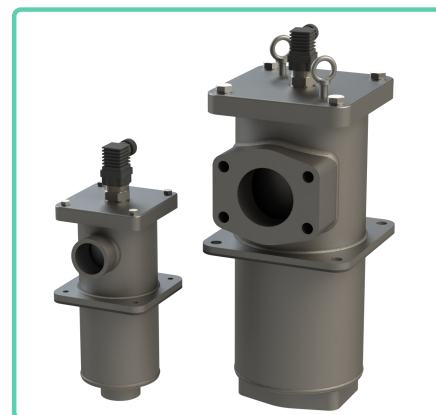
E	-P	F	-60	-03	-20
Series Number	Type	Element Media	Size	Filtration Rating	Design Number
E : Filter Element	P : Pressure line	F : Inorganic Fiber Glass	30 : 30	03 : 03µm 05 : 05µm 10 : 10µm	20
			60 : 40		
			110 : 100		
			160 : 120		
			240 : 150		
			330 : 240		
			500 : 450		

■ RLF Series Tank Top Return Line Filter

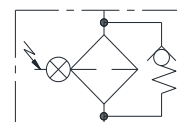
Tank top return line filters are used to improve the reliability of a lubrication or hydraulic system by removing/reducing contamination of the fluid media. This series of filters can be mounted directly on the tank top and provide the optimum protection to the system.

■ Features

- Built-in bypass 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/cm ²	Max.Flow Rate L/min	Max.Operating Temp. °C	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 : 30	G : G 1/2"	03 : 03µm 05 : 05µm 10 : 10µm 20 : 20µm	EI : Electrical Clogging Indicator None : Without Clogging Indicator	20
	60 : 50	A : G 3/4"			
	110 : 60				
	160 : 110	B : G 1 1/4"			
	240 : 220				
	330 : 240	D : SAE 2"			
	660 : 600	E : SAE 3"			
	950 : 1100	F : SAE 3 1/2"			

Note : 1. Electrical clogging indicator model: **EI-R13-20**
2. Customized filters are available upon request.

■ RLF - 30 ~ 240-*-*-20

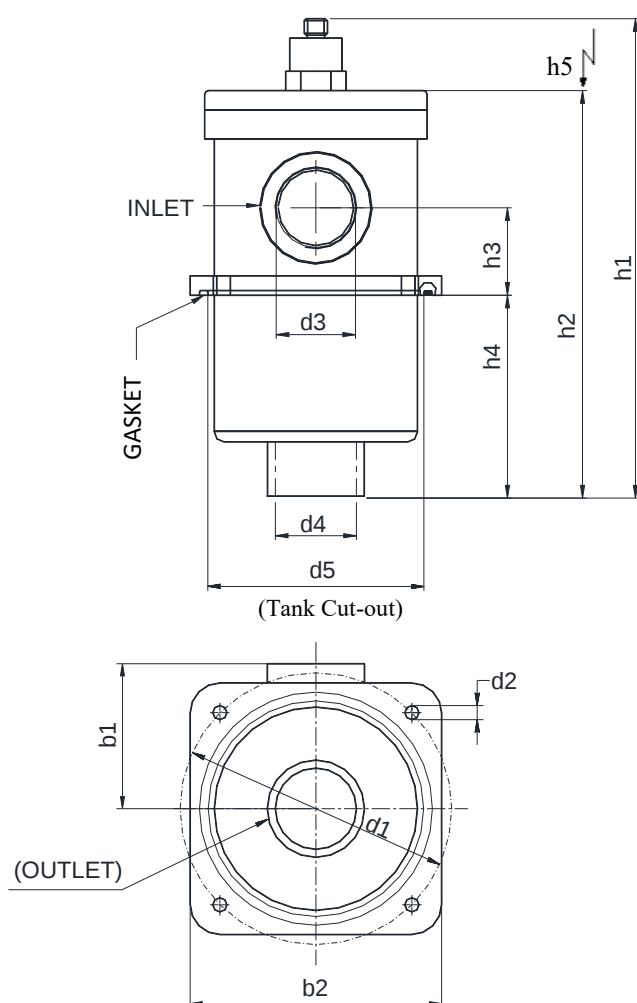
Dimensions in
Millimeters

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 1/4"	G 1 1/4"	108	265	194	52	89	120
RLF-240-B-*-20	72	125	135	7	G 1 1/4"	G 1 1/4"	108	325	254	63	136	180

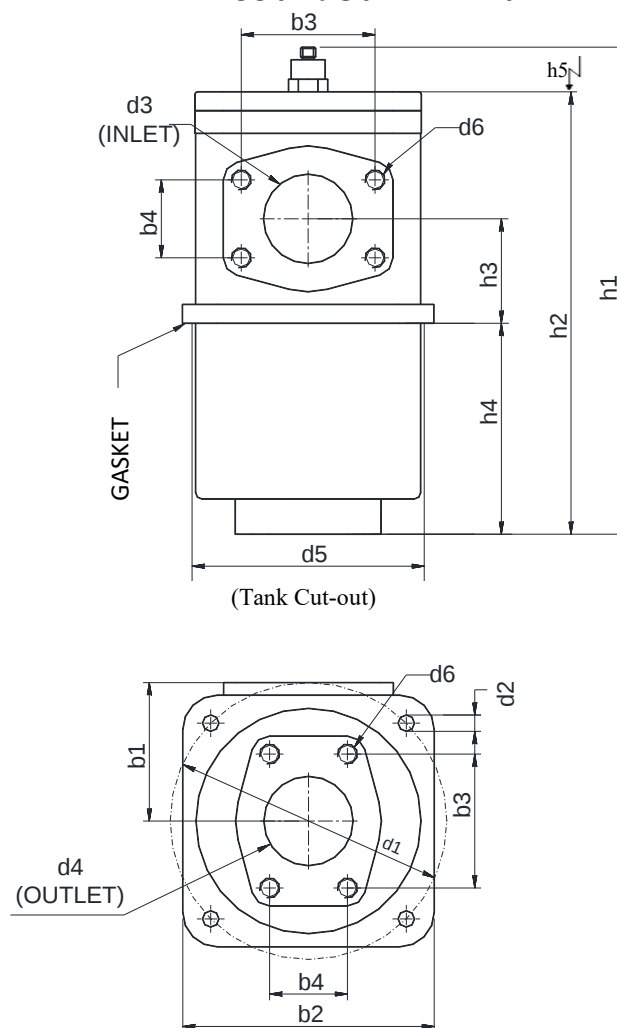
■ RLF - 330 ~ 950-*-*-20

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 1/2"	SAE 3 1/2"	220	M16	513	442	93	226	385

■ RLF- 30 ~ 240-*-*-20

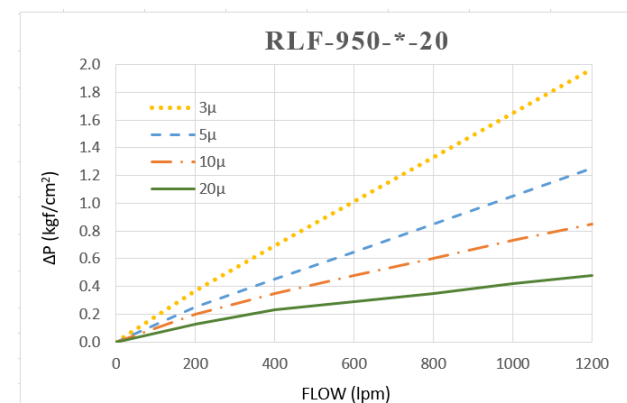
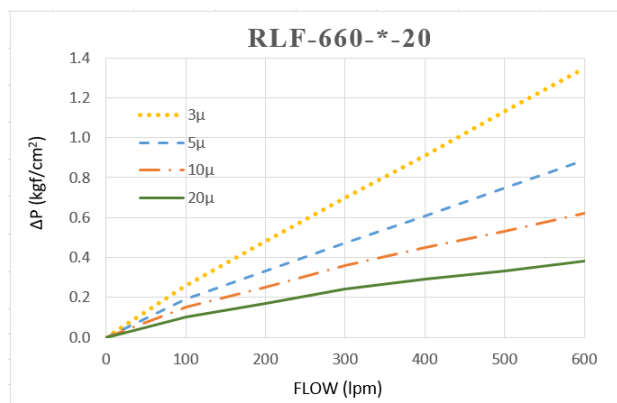
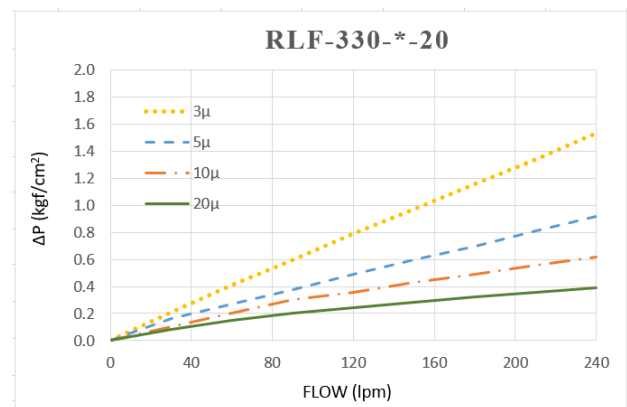
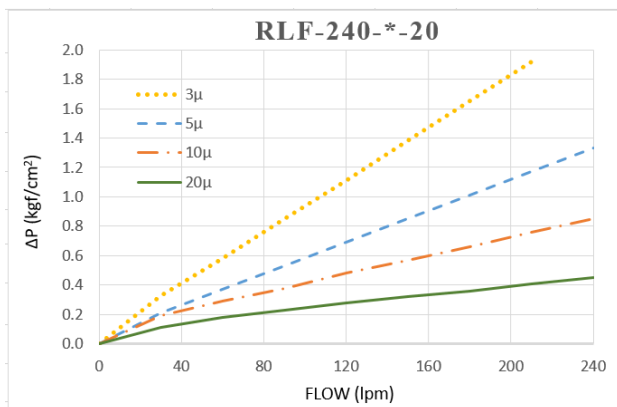
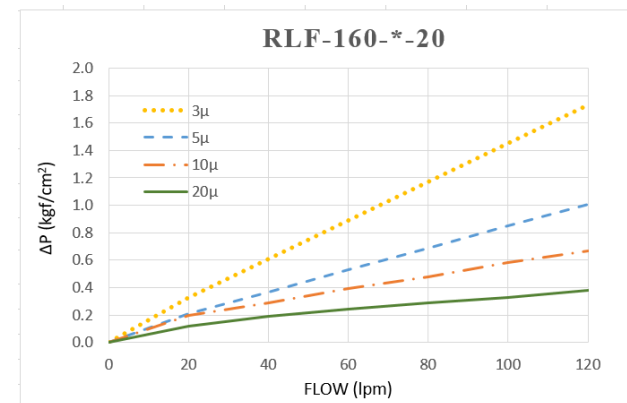
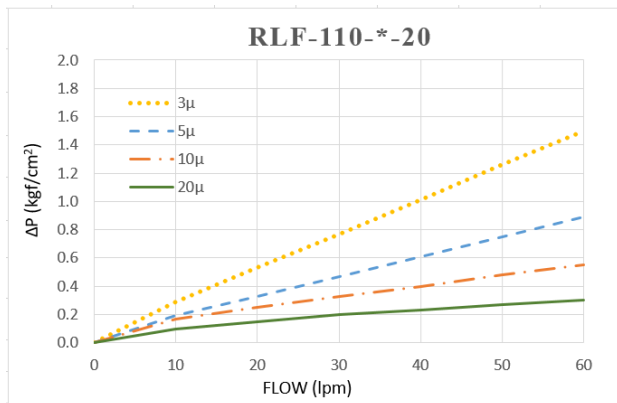
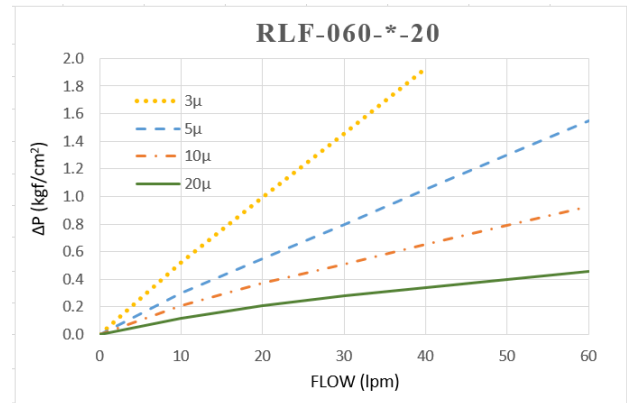
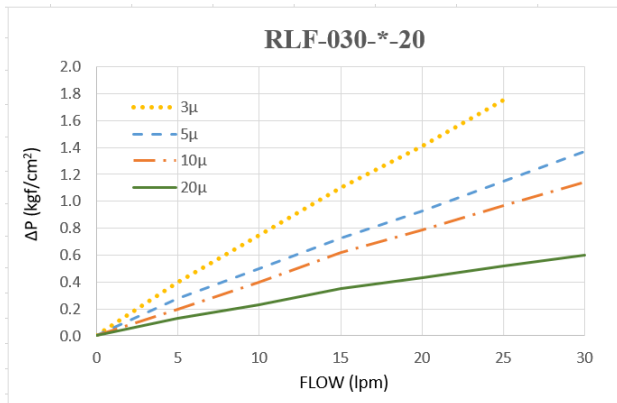


■ RLF- 330~ 950-*-*-20



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 no pressure in the system or 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 : 30	03 : 03µm 05 : 05µm 10 : 10µm 20 : 20µm	20
			60 : 50		
			110 : 60		
			160 : 110		
			240 : 220		
			330 : 240		
			660 : 600		
			950 : 1100		

■ 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.

■ Features

- Good heat loss capacity due to high conductivity and large heat dissipating surface.
- O-ring is used for tank top plate sealing.
- Tanks with drain plug similar to DIN 908



■ Specifications

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

Graphical symbol

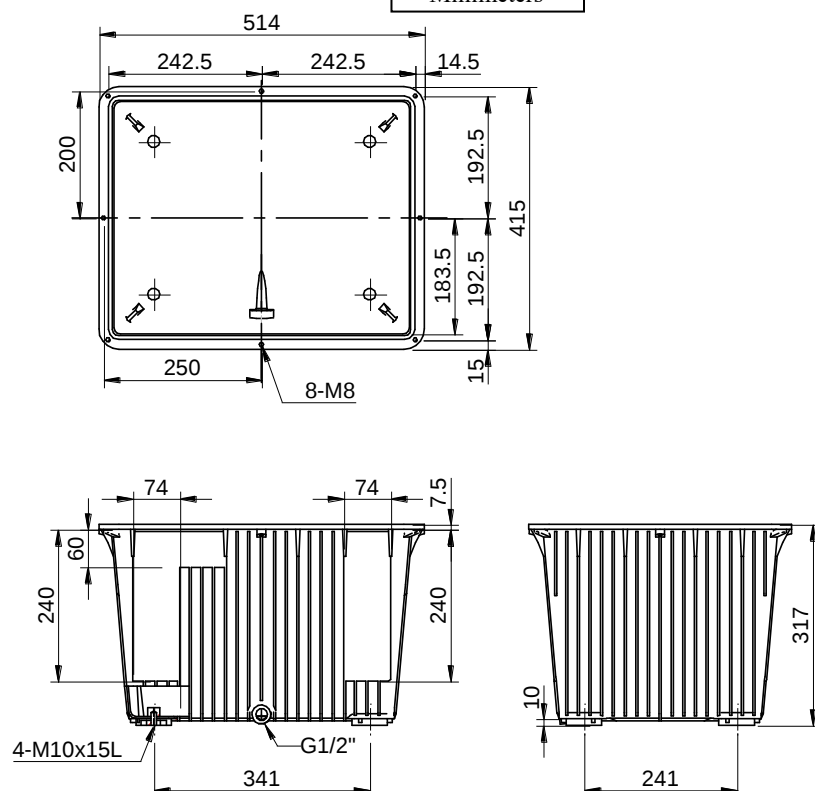


■ Model Number Designation

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

■ YAT-40-10

Dimensions in
Millimeters



■ 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.

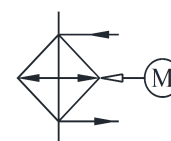
■ Features

- 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



Graphical symbol



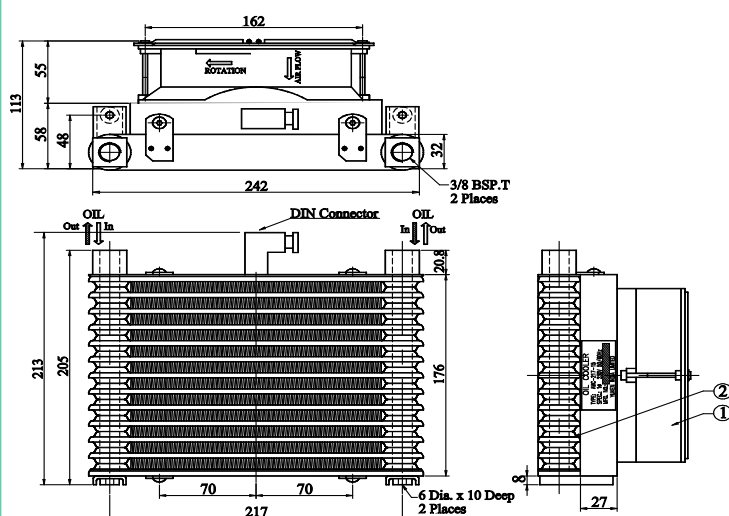
Model Numbers	Max.Operating Temp. °C	Max.Operating pressure Kg/cm ²	Max.Flow Rate lpm	Supply Voltage volts-Ac	Air Flow rate CFM	Mass kg (Approx)
AMC-217-15	60	10	10	230	180~200	10.00

■ Model Number Designation

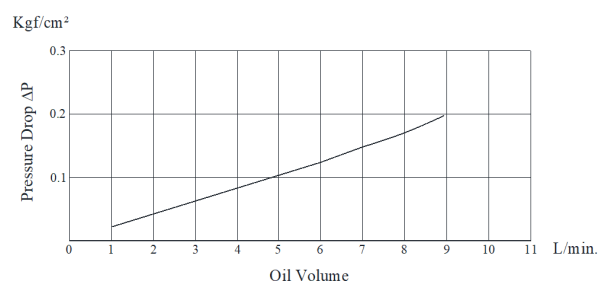
AMC	-217	-DC	-15
Series Number	AC Axial Fan	Conction	Design Number
AMC : Air Cooled Oil Cooler	217 : 21725 B2 MW	None: Power Cable	15
		DC: Din Connector	

■ AMC-217-15

Dimensions in Millimeters



■ Pressure Drop Curve



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

■ 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

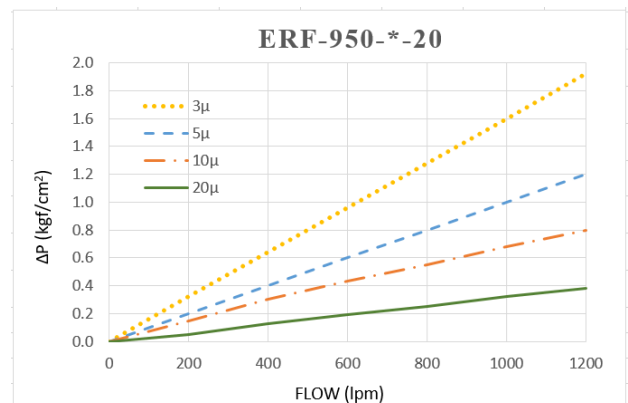
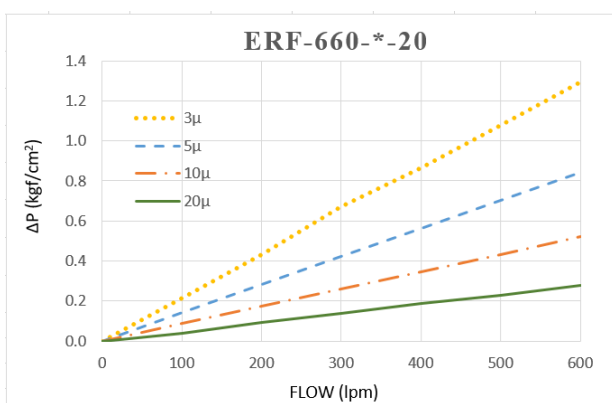
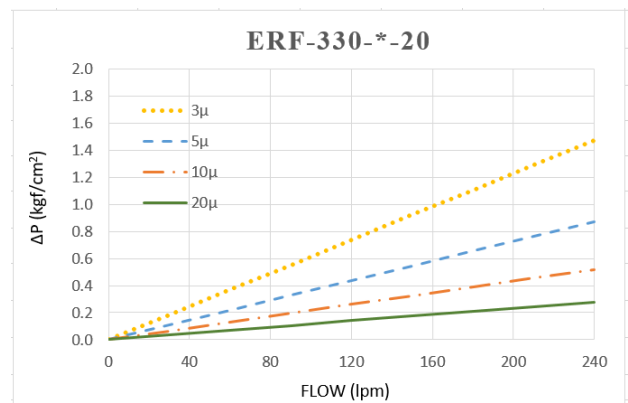
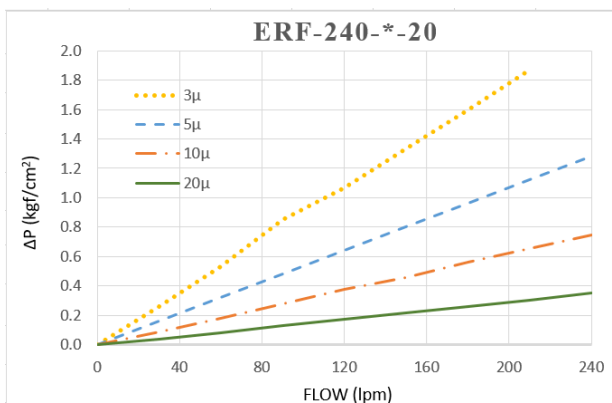
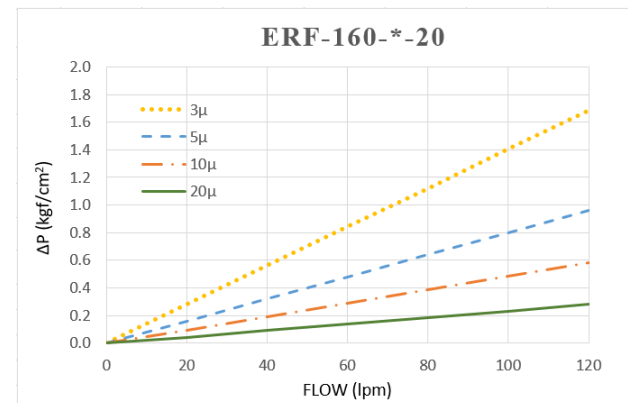
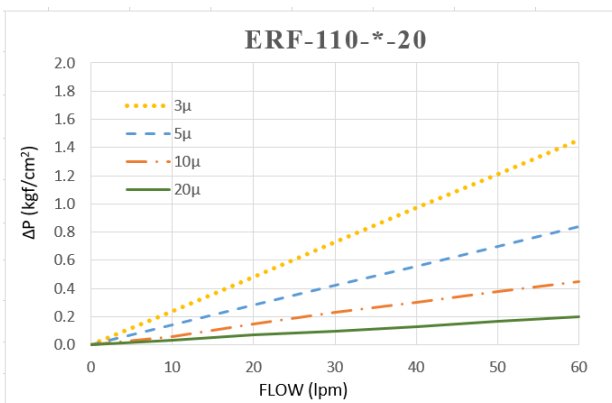
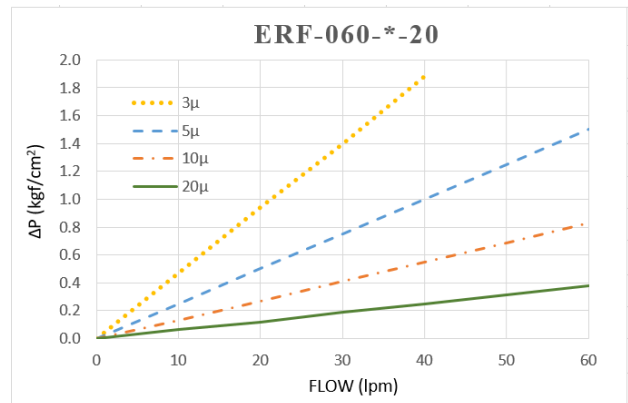
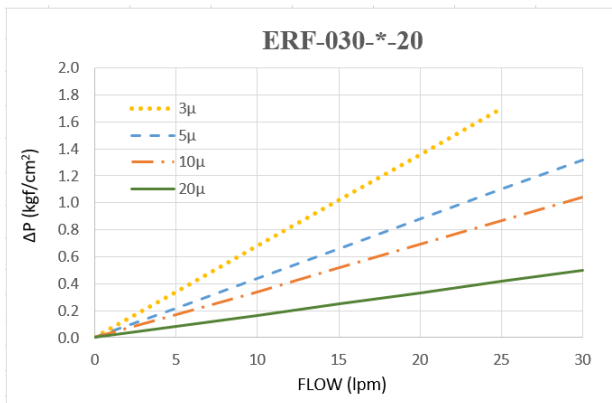
E	-R	F	-60	-03	-10
Series Number	Type	Element Media	Size (Nominal flow*)	Filtration Rating	Design Number
E : Filter Element	R : Return line	F : Inorganic Fiber Glass	30 : 30	03 : 03μm 05 : 05μm 10 : 10μm 20 : 20μm	20
			60 : 50		
			110 : 60		
			160 : 110		
			240 : 220		
			330 : 240		
			660 : 600		
			950 : 1100		
	P : Pressure line		30 : 30	03 : 03μm 05 : 05μm 10 : 10μm	
			60 : 50		
			110 : 60		
			160 : 120		
			240 : 220		
			330 : 240		
			500 : 450		

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

Pressure Drop Curve

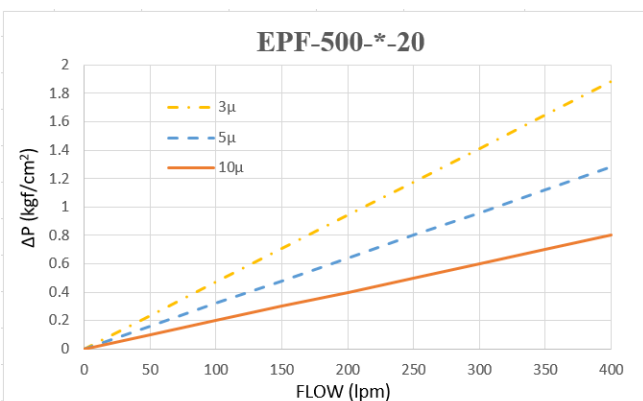
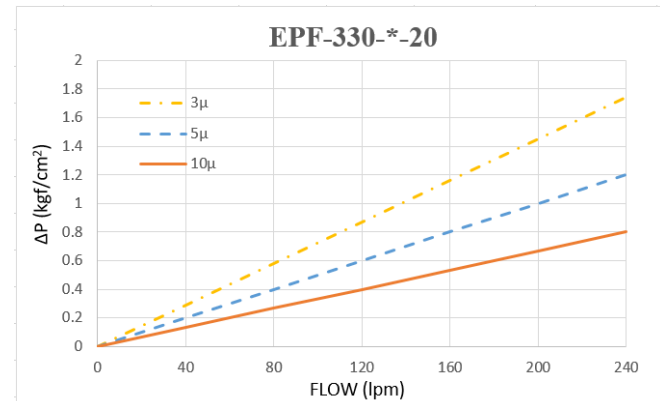
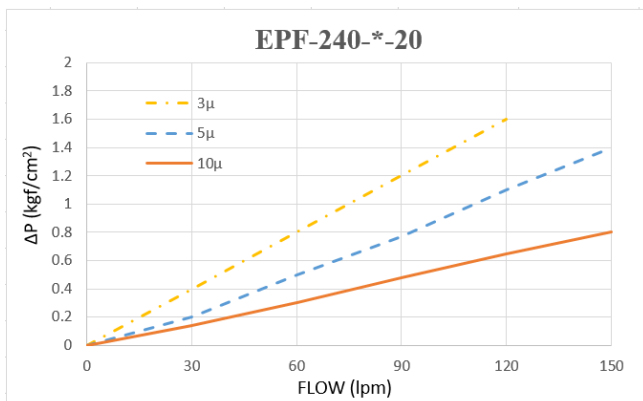
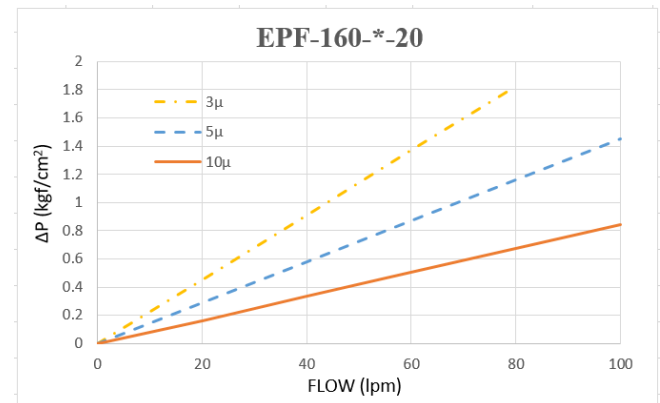
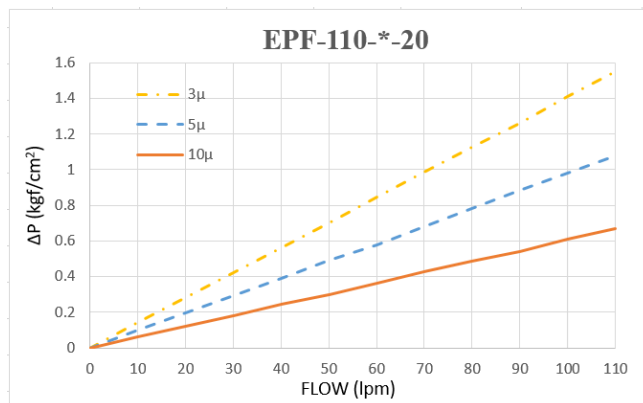
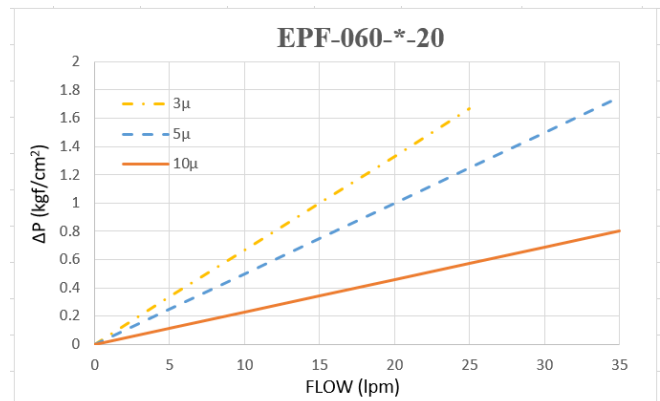
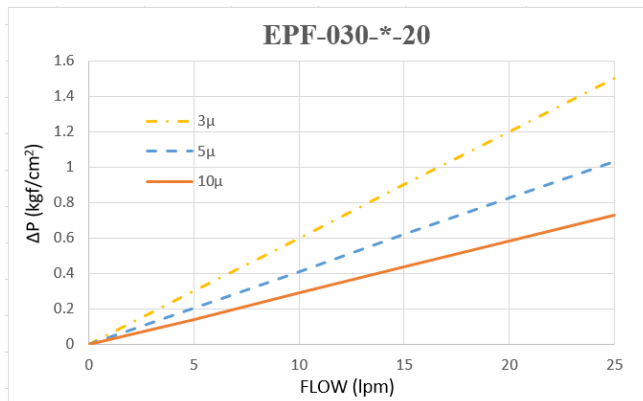
Return line filter

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

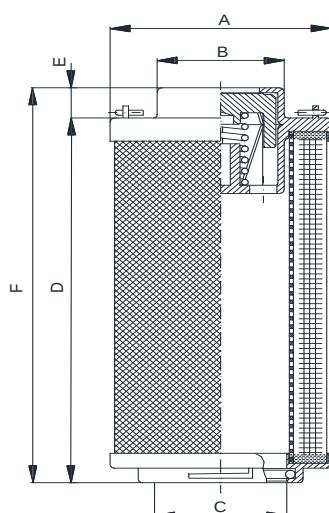


- Pressure line filter**

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

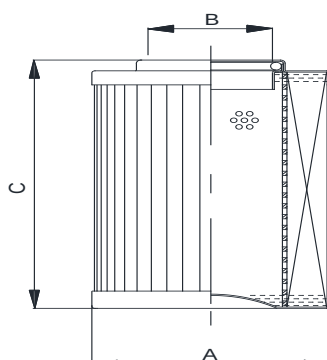


■ ERF-*-*-20

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 after 500 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 system.

■ 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.

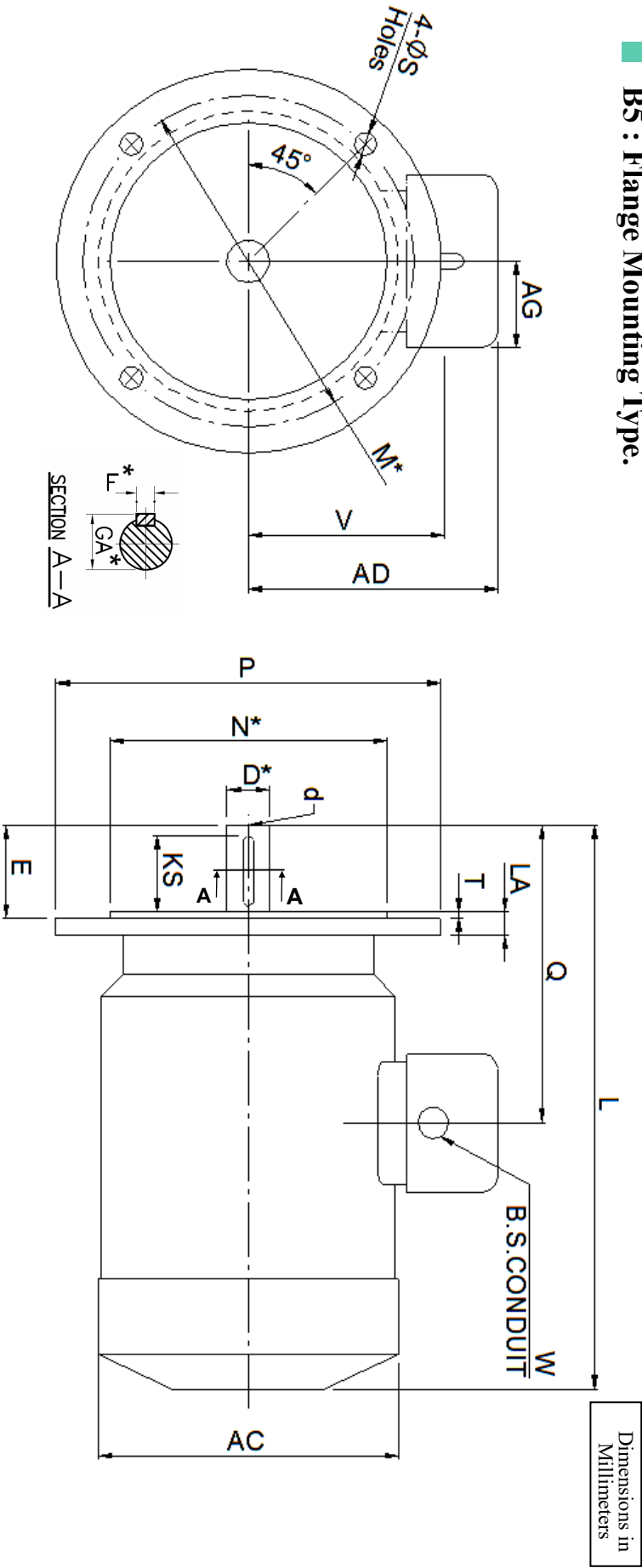
■ Specifications

Model code	Voltage V	Degree of Protection	Class of Insulation	Frequency Hz	Ambient Temperature °C	Appx weight Kg
YEM-0.55KW-***	415 V±10%	IP-55	Class-F:155°C	50Hz±5%	50°C	14
YEM-0.75KW-***						14
YEM-1.1KW-***						19
YEM-1.5KW-***						20
YEM-2.2KW-***						28
YEM-3.7KW-***						35

■ 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	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
	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									

B5 : Flange Mounting Type.



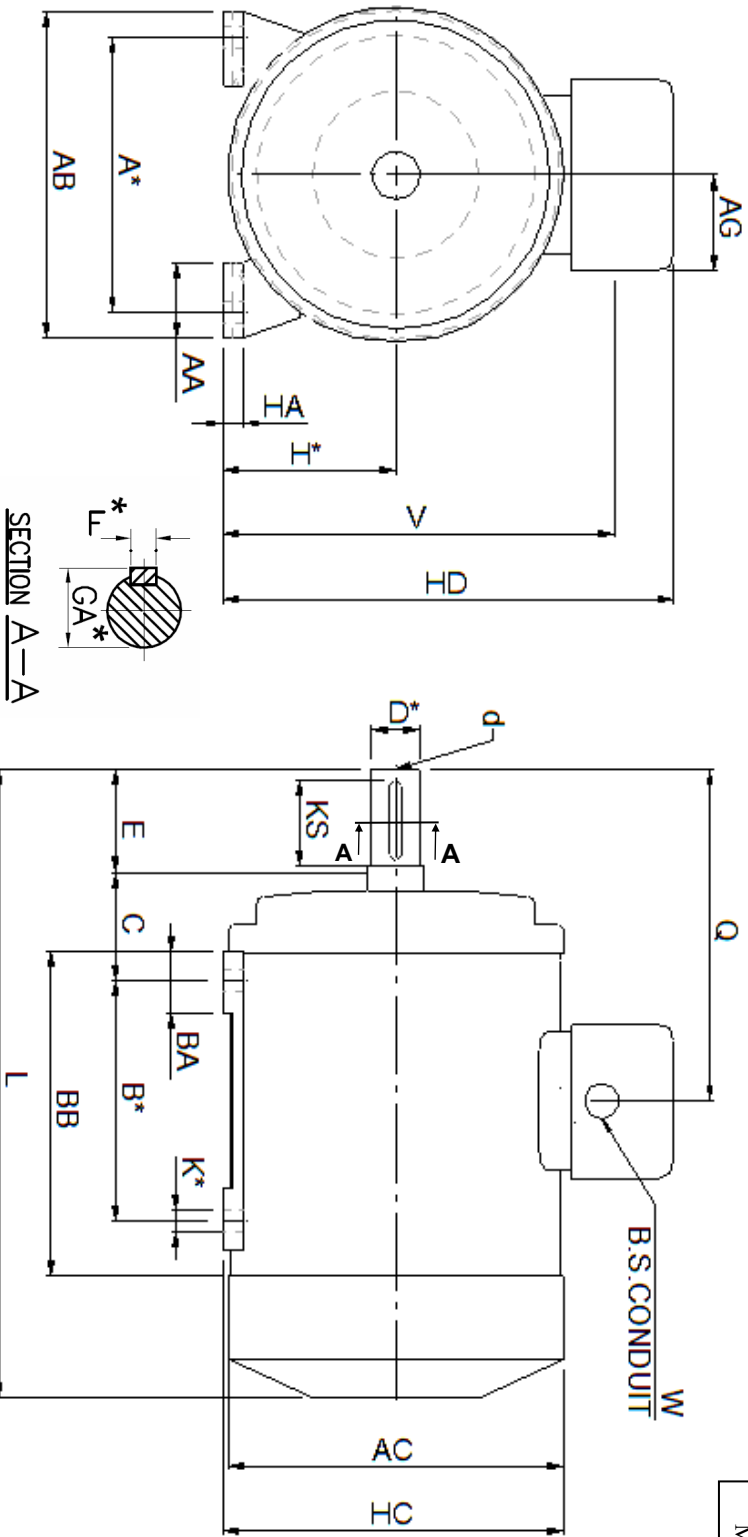
Motor details		Fixing			General					Terminal box				Shaft						
Model Code	Frame Size	P	N*	M*	S	T	LA	AD	AC	L	V	Q	AG	W-B.S. Conduit	D*	E	F*	GA*	KS	d
YEM-0.55KW-***	80	200	130	165	12	3.5	13.5	134	157	278	105	112	40	3/4"	19	40	6	22	35	M6
YEM-0.75KW-***																				
YEM-1.1KW-***	90S	200	130	165	12	3.5	13.5	140	177	334	109	139	50	3/4"	24	50	8	27	45	M8
YEM-1.5KW-***	90L	200	130	165	12	3.5	13.5	140	177	324	109	153	50	3/4"	24	50	8	27	45	M8
YEM-2.2KW-***	100L	250	180	215	15	4	15	157	198	372	125	152	56	1"	28	60	8	31	55	M10
YEM-3.7KW-***	112M	250	180	215	15	4	15	170	220	395	137	157	56	1"	28	60	8	31	55	M10

Note: * Refer Table-T For Tolerance



ELECTRIC MOTOR

■ B3 : Foot Mounting Type.

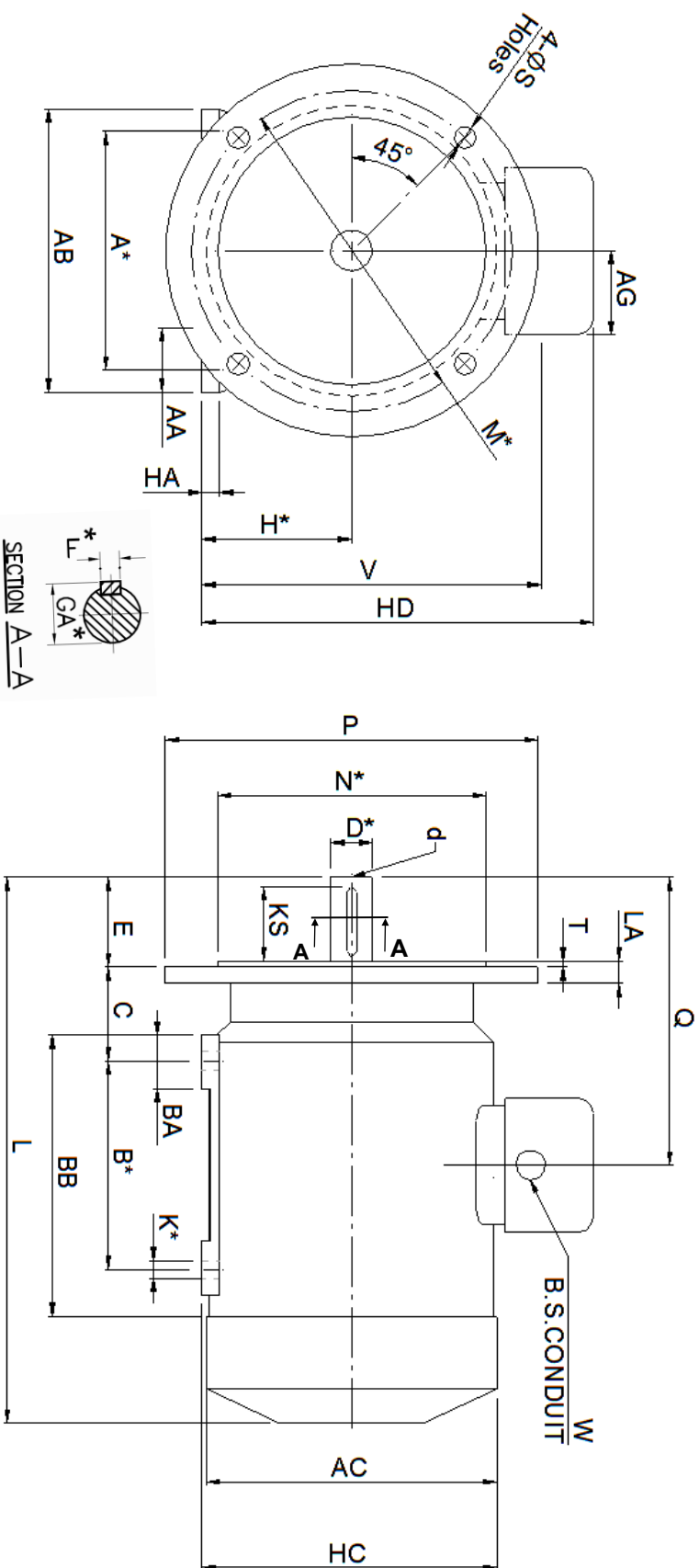


Dimensions in
Millimeters

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	278	157	185	112	40	3/4"	19	40	6	21.5	35	M6
YEM-0.75KW-**		125	100	50	80	10	150	124	31	35	9	159	214	278	157	185	112	40	3/4"	19	40	6	21.5	35	M6
YEM-1.1KW-**	90S	140	125	56	90	10	168	125	34	31.5	12	177	230	334	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	334	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	372	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	395	220	250	157	56	1"	28	60	8	31	55	M10

Note: * Refer Table-T For Tolerance

B35 : Foot cum Flange Mounting Type



YEM Series Electric Motor

Motor Details		Fixing					General										Terminal Box					SHAFT					
Model Code	Frame Size	A*	B*	C	H*	K*	T	L/A	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	3.5	13.5	150	124	31	35	9	159	214	278	157	185	112	40	3/4"	19	40	6	21.5	35	M6
YEM-0.75KW-***		140	125	56	90	10	3.5	13.5	168	125	34	31.5	12	177	230	334	177	199	139	52	3/4"	24	50	8	27	45	M8
YEM-1.1KW-***		140	125	56	90	10	3.5	13.5	168	150	34	31.5	12	177	230	334	177	199	153	52	3/4"	24	50	8	27	45	M8
YEM-1.5KW-***		140	125	56	90	10	3.5	13.5	168	150	34	31.5	12	177	230	334	177	199	153	52	3/4"	24	50	8	27	45	M8
YEM-2.2KW-***	100L	160	140	63	100	12	4	15	190	174	43.3	36	12	198	257	372	198	225	152	56	1"	28	60	8	31	55	M10
YEM-3.7KW-***	112M	160	140	70	112	12	4	15	220	174	47	36	12	222	282	395	220	250	157	56	1"	28	60	8	31	55	M10

Note: * Refer Table-T For Tolerance

Table-T (Tolerance Table)

Dimension	Tolerance		Specification	Dimension	Tolerance	
A, B	± 0.75		--	GA, F	--	
H	-0.5		IS:1231	N	j6	Up to $\varnothing 230$
K	+0.360	$\varnothing 7, \varnothing 10$		M	± 0.3	Up to $\varnothing 265$
	+0.43	$\varnothing 12$		KEY WAY FIT	h9/N9	
D	j6	$\varnothing 19, \varnothing 24, \varnothing 28$				

■ Operating Conditions

- Environmental Conditions : Non– Hazardous, Relative Humidity : less than 90% RH.
Altitude : less than 1000 meters.
- Power Source Conditions : Voltage $\pm 10\%$, Frequency $\pm 5\%$ (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

■ 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.

■ Features

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



Graphical symbol

■ 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

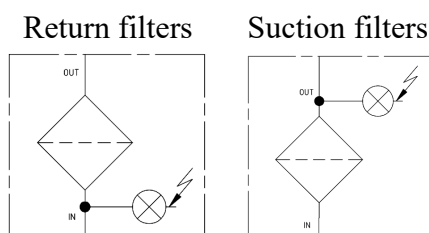
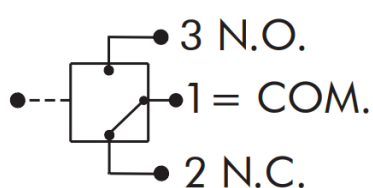
■ Model Number Designation

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

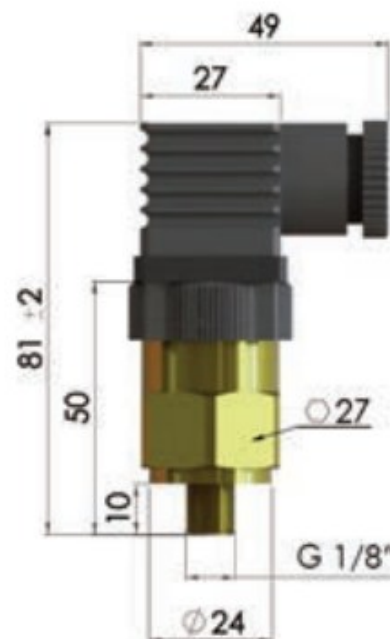
* EI-R13-20 : For Return and Suction line filters.

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

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

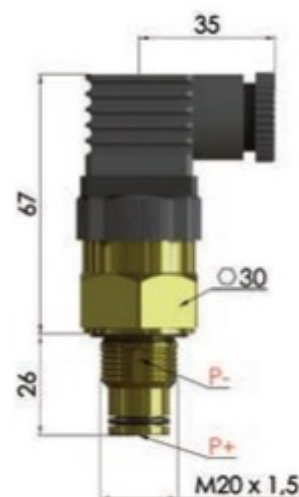
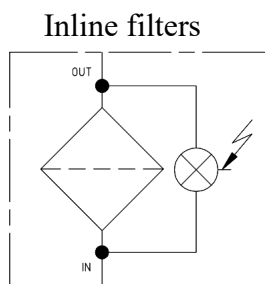
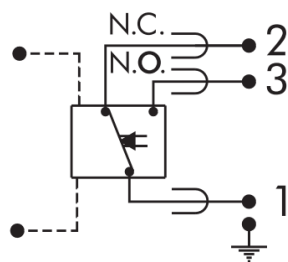


Dimensions in Millimeters



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

■ EI-E05-20 (For Inline Filters)

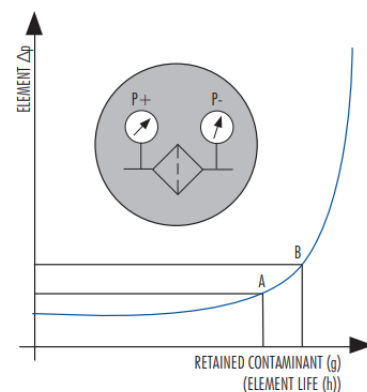


Description	Specification
Type of indication	Differential Electrical Switch
Max operating pressure	420 bar
Thread size	M20x1.5
Max. torque	50Nm
Switching type	N/C or N/O
Max. switching voltage	DC : 30V
	AC : 250V
Max. current @ resistive load	1A inductive, 5 A resistive

NOTE :-

- 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+)
- The Differential indicator measures the Δp between upstream and downstream of the filter element,
 - It is the ideal indicator for in line application.
- The Pressure Drop (Δp = differential pressure) through the filter increases during the system operation due to the contaminant retained by the filter element.
- The filter element must be replaced when the indicator shows an alarm and before the Δp reaches the by-pass set value (i.e. the set value A of the clogging indicator must always be lower than 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 .



■ YGSV Series Gasket Mounting Shut Off Valve 1/4"

Shut off valves are designed to stop or continue the oil flow. These valve have a rising spindle & metal seat for leak free closure between its inlet (A) and outlet (B) ports.

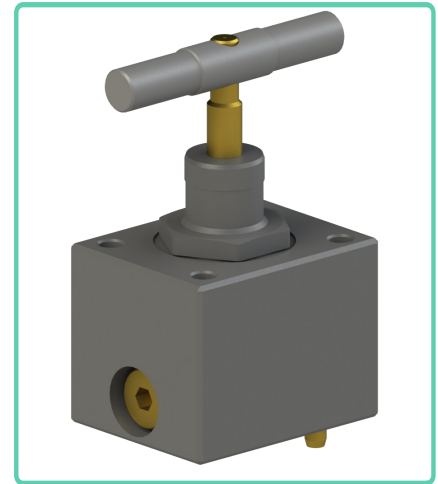
■ Features

- Gasket mounting type steel body.
- ISO 5781-AB-03-4-B mounting interface.
- Good sealing against leakage.
- Suitable for petroleum and mineral based oils.

■ Specifications

Model Number	Max.Operating Temp. °C	Max.Operating pressure Kg/cm ²	Mass kg (Approx)
YGSV-01-*-10	80	350	0.9

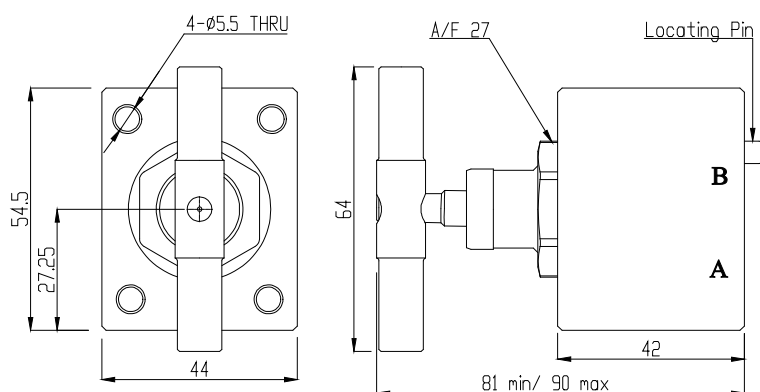
Graphical symbol



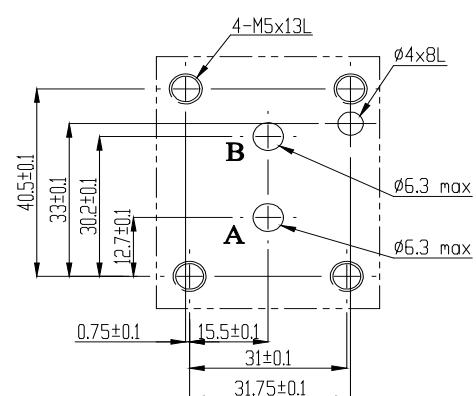
■ Model Number Designation

YGSV	-01	-N	-10
Series Number	Size	Seals	Design Number
YGSV : Gasket Mounted Shut Off Valve	01	N : NBR	10

■ YGSV-01-*-10



■ Mounting Interface



Note:

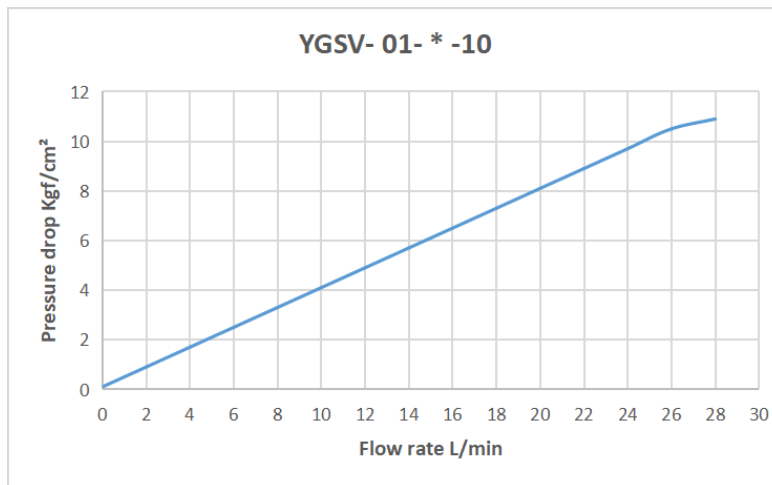
- Bolt Tightening torque: 5~7Nm
- Mounting bolts M5x50L, Grade: 10.9

- Mounting surface roughness (Ra) = 1.6 µm
- Mounting Flatness = 100 µm

Dimensions in Millimeters

■ Pressure Drop Curve

Oil used: ISO VG 46 @ 50°C



■ YCSV Series Cartridge Type Shut Off Valve 1/4"

Shut off valves are designed to stop or continue the oil flow. These valve have a rising spindle & metal seat for leak free closure between its inlet (A) and outlet (B) ports.

■ Features

- Cartridge mounting type steel body.
- Mounting cavity confirms to factory standard.
- Good sealing against leakage.
- Suitable for petroleum and mineral based oils.

■ Specifications

Model Number	Max.Operating Temp. °C	Max.Operating pressure Kgf/cm ²	Mass kg (Approx)
YCSV-01-*-10	80	315	0.2

Graphical symbol

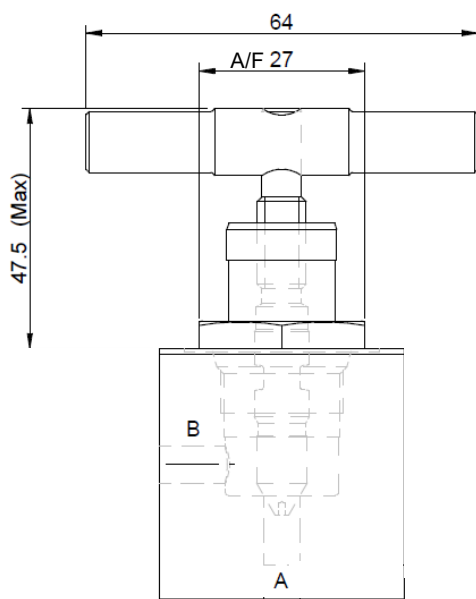


■ Model Number Designation

YCSV	-01	-N	-10
Series Number	Size	Seals	Design Number
YCSV : Cartridge Type Shut Off Valve	01	N : NBR	10

■ YCSV-01-*-10

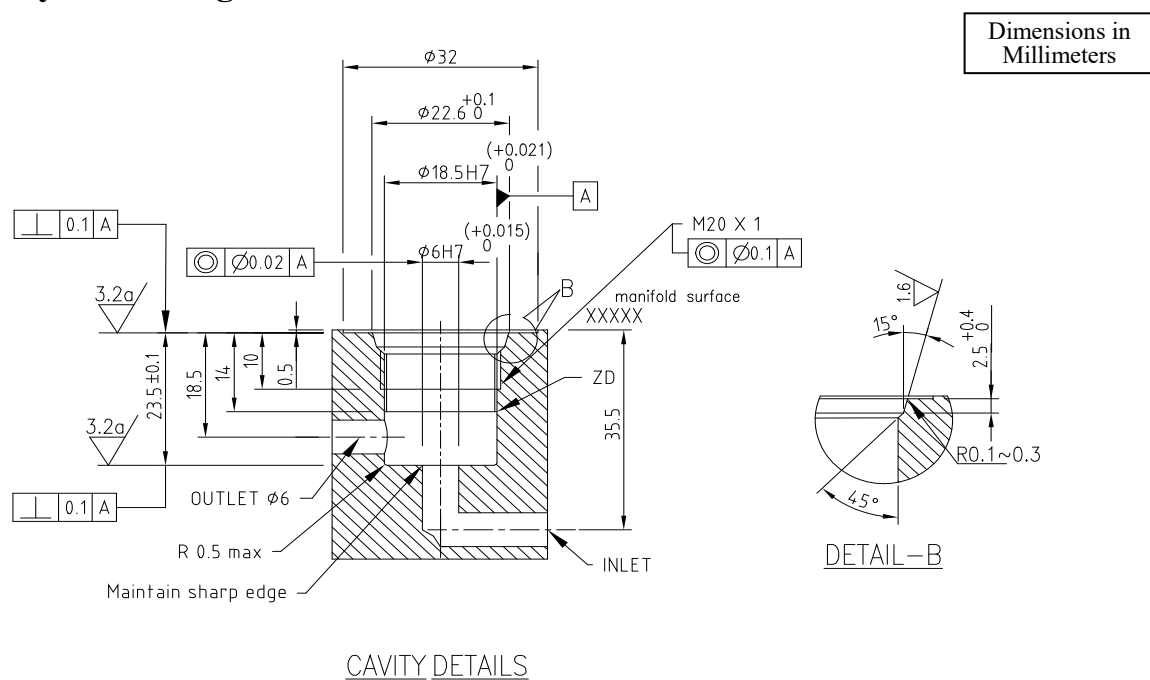
Dimensions in Millimeters



Note:

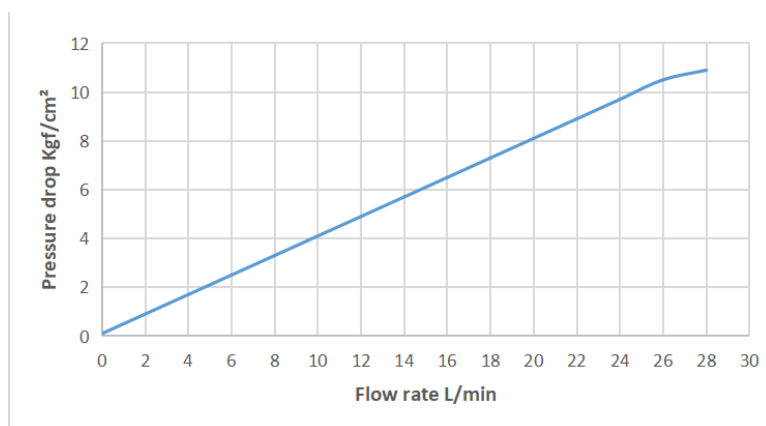
- Valve tightening torque : 30~36 Nm

■ Cavity machining detail



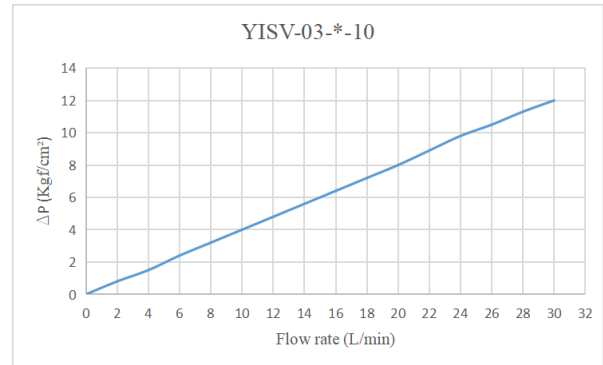
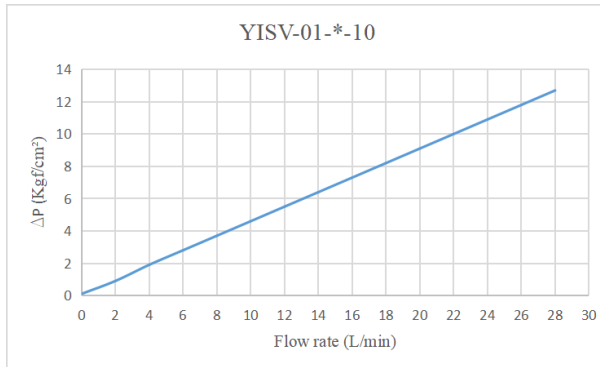
■ Pressure Drop Curve

Oil used: ISO VG 46 @ 50°C



■ Pressure Drop Curve

Oil used: ISO VG 46 @ 50°C

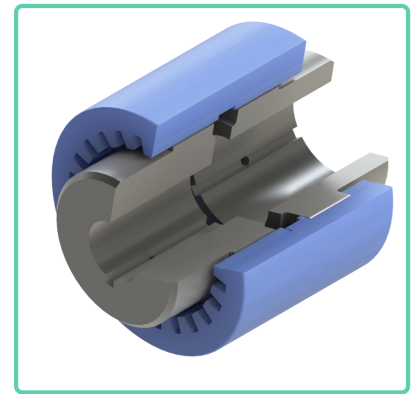


Flexible Drive Coupling

Flexible Drive Couplings are commonly used to join/couple two rotating elements, more commonly a driving shaft and a driven shaft. The GC series flexible gear type coupling consists of two geared hubs made from high strength steel paired with a nylon sleeve of matching toothed profiles.

Features

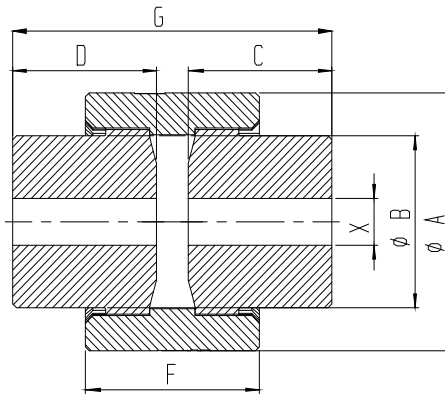
- Simple and quick installation
- Lubrication-free couplings.
- Interchangeable sleeves and hubs for flexibility in design and installation.



Model Number Designation

GC	- 2 8	- P S 2	- M S 2	-10
Series Number	Size	Bore Pump Side	Bore Motor Side	Design Number
GC: Gear Coupling	28S : 28S	X: Stock Bore Ø12	X: Stock Bore Ø12	10 : 10
	28 : 28			

GC-28*-*-10



Sl.No	Model code	ØA	ØB	C	D	F	G
1	GC-28S-X-X-10	66	44	26	26	46	66
2	GC-28-X-X-10	66	44	38	38	46	85