

YFBST Filler Breather with Strainer

These filler breather with strainer are used to trap contaminants or a foreign particles enter in to hydraulic system from air and fluid while filling oil into hydraulic tank. This can be directly mounted either on tank top or side of tank.

Features

- Excellent dirt holding capacity due to special filtration media used.
- 40 micron element standard.
- Combination unit for filtering air passing in to the tank and straining oil while filling the tank.
- Synthetic element.

Specifications

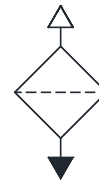
Model Code	Max. Air Flow Rate L/min.	Filtration Ratings μm
YFBST-250L	250	40
YFBST-750L	750	



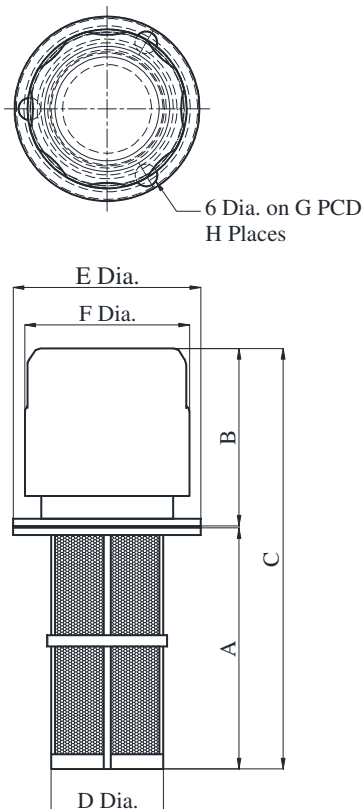
Model Number Designation

YFBST	-250L	-40M
Filler Breather With Strainer	Air Flow Rate L/min.	Element used μm
YFBST	250L : 250 750L : 750	40M : 40

Graphic Symbol



Mounting Details



DIMENSIONS IN MILLIMETRES

Model	A	B	C	D	E	F	G PCD	H No. of Holes
YFBST-250L	250	48	114	30	50	44	41.3	3
YFBST-750L	750	57	148	48	80	78	73	6

YSS Suction Strainer

These suction strainer are used to trap contaminates from the fluid flowing through it. This can be located on a suction port of the pump or sub merged in the hydraulic tank and attached to the suction line heading to the pump.

These suction strainers consists of stainless steel wire mesh, glass filled nylon head and end cap.

Features

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

Specifications

Model Code	Max. Working Temperature °C	Max. Flow Rate L/min.
YSS-7.5G	30-90	30
YSS-15G		60
YSS-20G		90
YSS-30G		120
YSS-40G		160
YSS-75G		300



Graphic Symbol

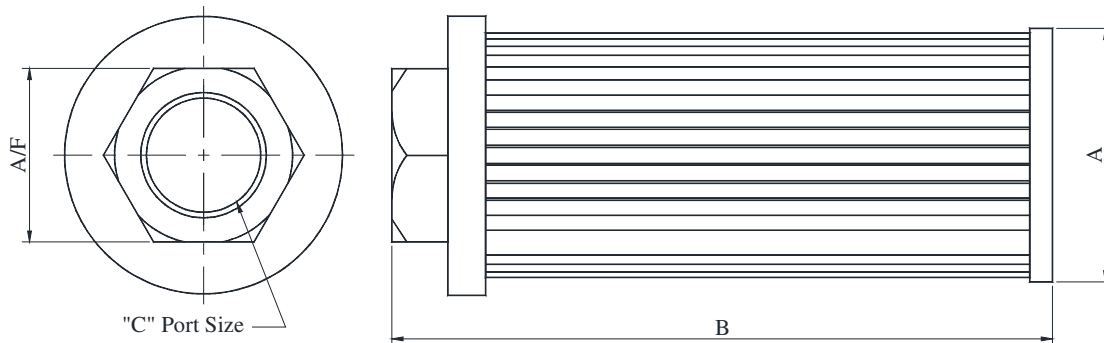


Model Number Designation

YSS	-15G
Suction Strainer	Flow Rate L/min.
YSS	7.5G : 30
	15G : 60
	20G : 90
	30G : 120
	40G : 160
	75G : 300

Mounting Details

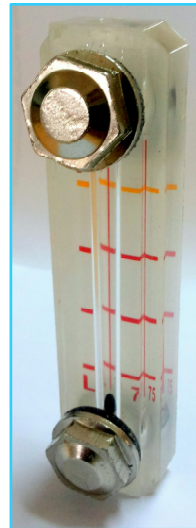
DIMENSIONS IN MILLIMETRES



Model	A	B	C	A/F
YSS-7.5G	67	100	3/4"	36
YSS-15G	67	175	1"	46
YSS-20G	90	145	1 1/2"	60
YSS-30G	90	180	1 1/2"	60
YSS-40G	101	204	2"	75
YSS-75G	120	290	2"	75

Oil Level Indicator

This oil level indicator is used for non pressurized tanks in hydraulic power packs to indicate oil level inside the tank.



Graphic Symbol



Features

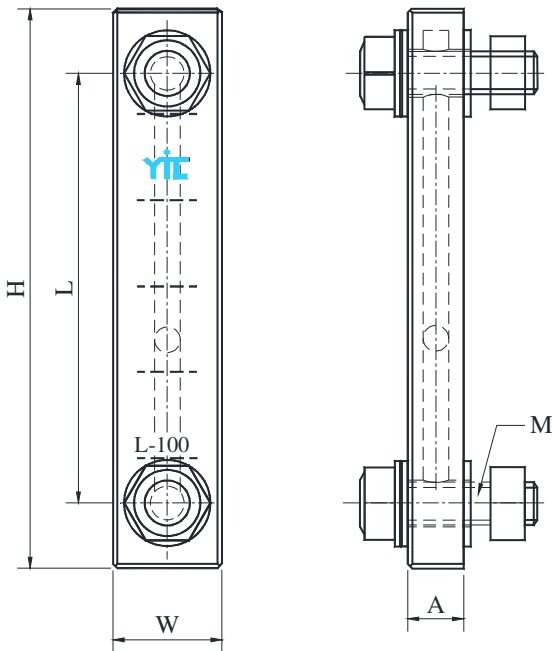
- Polycarbonate body.
- Inbuilt float for clear indication.
- Good Sealing against leakage.
- Suitable for petroleum, mineral based oils.

Model Number Designation

YLG	-75	-10
Suction Strainer	Flow Rate L/min.	Design Number
YSS	75	10
	100	
	125	
	250	

DIMENSIONS IN MILLIMETRES

Mounting Details



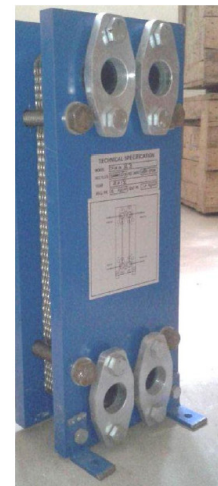
Sl. No.	Model Number	W	A	L	H	M (Bolt Size)
1	YLG-75	25	13	75	105	M10
2	YLG-100	25	13	100	130	M10
3	YLG-125	25	13	125	155	M10
4	YLG-250	30	24	250	290	M12

Note : Bolt Tightening Torque – 0.5 Kgf-m.

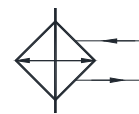
YPHE Plate Heat Exchanger

These heat exchangers are used to provide maximum efficiency in transferring heat from one liquid to another liquid. These are having a high thermal performance and overall heat transfer co-efficient is 3 to 4 times higher than the shell and tube exchanger.

These plate heat exchanger consists of metal plates with portholes for the passage of the two fluids between which heat transfer will take place, the plates are assembled between a fixed frame plate and a movable pressure plate and compressed by tightening bolts. The plates are fitted with a gasket which seals the inner plate channel and directs the fluid into alternate channel.



Graphic Symbol



Features

- Special groove gasket seat for higher holding rigidity at high pressure working.
- Easy extension or reduction of capacity based on heat load.

Specifications

Model Code	Max. Working Pressure Kgf/cm ²	Max. Flow Rate L/min.	Approx. Weight Kg.
YPHE-TP08	6	154	75 (for max. 47 plates)
YPHE-TX2		410	172 (for max. 56 plates)

Model Number Designation

YPHE	-TP08	-1N	-S	-1	-N	-25
Plate Heat Exchanger	Plate Model	Design Number	Max. Working Pressure Kgf/cm ²	Number of Passes	Gasket Type	Number of Plates
YPHE	TP08	1N : MS Painted Industrial Frame	6	1 : Single Pass	N : NBR	25 : No. of plates (max. 47 plates)
	TX2					25 : No. of plates (max. 56 plates)

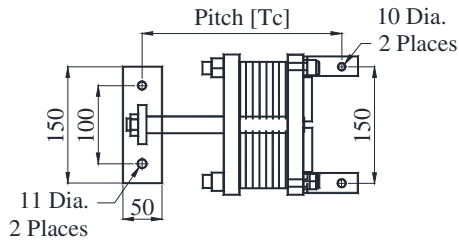
* Consult YUKEN INDIA LTD. for enquiry based on end application to select plate heat exchanger model number and number of plates.

Advantages

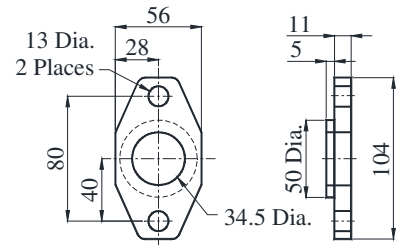
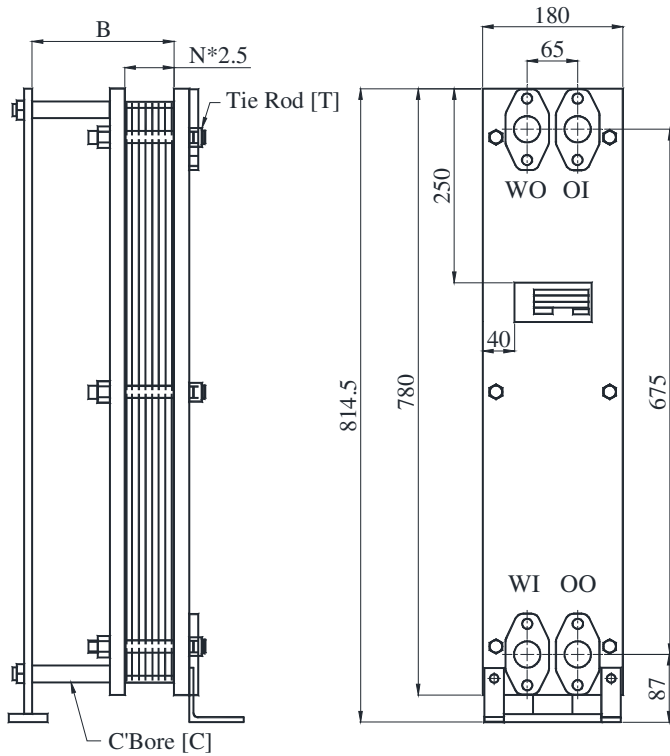
- **Easy Access** :- Full accessibility to both of each plate for inspection or cleaning. PHE plates can be easily replaced.
- **Adaptability** :- The plates are independent units which can be removed, added to re-arrange as desired. Thus the plate heat exchanger can be re-specified for any new process requirement or for completely.
- **Minimum Fouling** :- The turbulent flow over heat exchanger plates keep solids in suspension, minimizing fouling with slurries such as titanium dioxide, lime or cooling water with a high mud content. Where fouling is unavoidable, plates are easily removable for cleaning.
- **Low Capital Cost** :- Where corrosion-resistant material is essential, capital costs are considerably less than those of conventional heat exchanger and even for non-corrosive duties, plates heat exchanger can be competitive in price.
- **High Turbulence** :- Plate heat exchangers plate form can include turbulence flow at Reynolds number as low as 10.
- **Versatility of Duty** :- Plate heat exchangers plate form can be divided into separate sections by the use of connector plates to accommodate more than one heating or cooling stage.
- **Less Space** :- These heat exchangers requires less space, plates gives a very large heat transfer area in a small frame volume.
- **Low Liquid Hold-up** :- In plate exchanger, liquid hold-up of both fluids is low. Additionally , more favorable comparison of liquid hold-up.

■ Mounting Details

● YPHE-TPO8-IN-S-1-※-※※



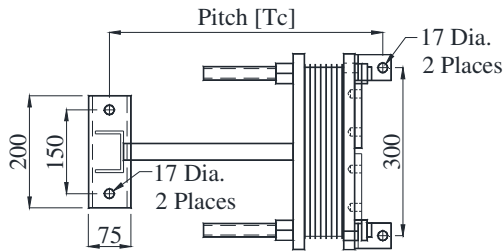
N - No. of Plates
 OI - Oil In
 OO - Oil Out
 WI - Water In
 WO - Water Out



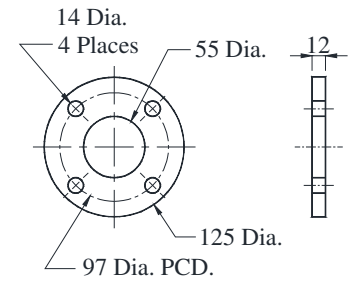
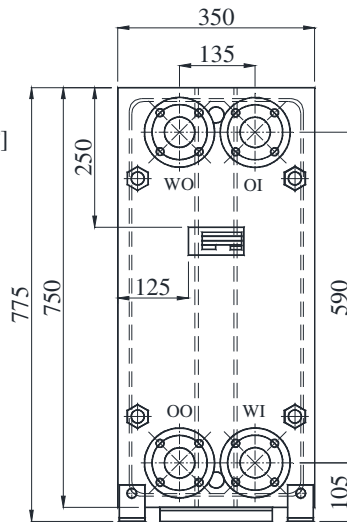
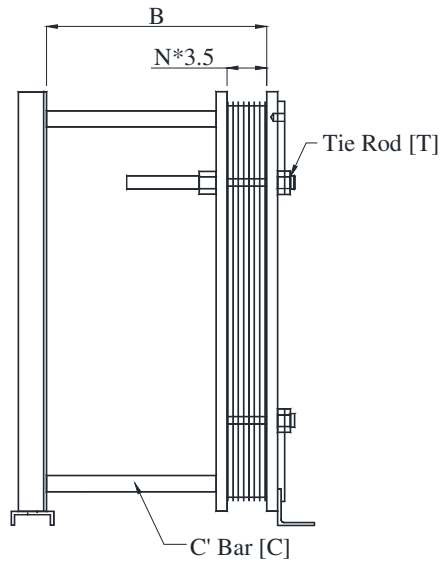
Flange Dimensions

Number of Plates	B	C'Bore [C]	Tie Rod [T]	Pitch [Tc]
Up to 25	182	21.5 Dia. x 200 L	M16 x 150	256.5
25 to 35	282	21.5 Dia. x 300 L	M16 x 250	356.5
36 to 47	432	21.5 Dia. x 450 L	M16 x 300	506.5

● YPHE-TX2-IN-S-1-※-※※



N - No. of Plates
 OI - Oil In
 OO - Oil Out
 WI - Water In
 WO - Water Out



Flange Dimensions

Number of Plates	B	C' Bore [C]	Tie Rod [T]	Pitch [Tc]
Up to 25	392	29 Dia. x 450 L	M24 x 300	487
25 to 35	492	29 Dia. x 550 L	M24 x 350	587
36 to 47	592	29 Dia. x 650 L	M24 x 550	687

■ Enquiry Form

Sl. No.	Conditions	Hot Fluid	Cold Fluid
1	Fluid Name		
2	Inlet Temperature (°C)		
3	Outlet Temperature (°C)		
4	Flow Rate (Kg/hr)		
5	Working Pressure (Kgf/cm ²)		
6	Working Temperature (°C)		
7	Allowable Pressure Across the PHE (Kgf/cm ²)		

* Fill the above information in enquiry form to select plate heat exchanger model and no. of plates.

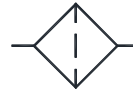
* Consult YIL for enquiry form based on end application to select plate heat exchanger model no. and no. of plates.

Pressure Line Filter

Specifications

Series	100 L	250 L	400 L
Max. Oper. Pressure Kg/cm ²	100	250	400
Flow Rate L/min.	6 ~ 360	10 ~ 460	10 ~ 460
Degree of Filtration (µm)	1 ~ 100	1~100	1~100
Indicator	40	40	700

Graphic Symbol



Method of Representation: According to Model Code in the table below.

100	L	140	G25.			R	-M	V	4	4	G	P	E	
Nominal Pressure Kg/cm ²	Mounting	Flow	Filter Element			Connection	Perm. ² Magnet	Bypass Valve	P.D. Indicators			Seals	Additional Details	
			Materials	Filtration µm	Differential Pressure ΔP Kg/cm ²									
100	L: Line Filter for Installation in Pressure lines	Based on Nominal Through-put L/min. with G25 element at 30mm ² /s]	Cleanable	G	100, 60, 40, 25, 10	• : 30 (Standard)	R: BSP.F Thd. R1: *1 3/8 BSP.F Thd.	O: Not Fitted	O: Not Fitted	O: Not Fitted	1: Opp. Press. 1.5 Kg/cm ²	G: With Connection Plug	P: Perbunan V: Viton	D: Chem. Nickel coating
				M	10, 5									
250	F: Manifold Mounting	10, 18, 32, 56, 90, 140, 225, 360, 460	Disposable	P	25, 10, 5	• 1: 60	F: Flange	M: Fitted	V: Fitted	1: Optical	4: Opp. Press. 4.2 Kg/cm ²	GL: Opp. Press. 4.2 Kg/cm ²	E: Ethylene Propylene	VA: All s/s Construction
K				25, 10	• 2: 160									
400	F: Manifold Mounting	10, 18, 32, 56, 90, 140, 225, 360, 460	Disposable	H	20, 10, 6, 3, 1	• 3: 330	FG: With Mating flange	M: Fitted	V: Fitted	4: Opt.- Electrical Switch-over type	6: Opp. Press. 6 Kg/cm ²	GL: Opp. Press. 4.2 Kg/cm ²	T: Teflon	E: Air Vent

- * 1: Applicable only for 16L6.
- * 2: Ring magnets are free of non-ferrous metal.
Rod magnets can be fitted with non-ferrous spacers.

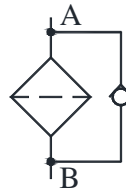
YRF Return Line Filters

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

Features

- Disposable spin on element.
- Sub-plate mounting style return line filter.
- Paper element filtration media.
- Spin on disposable canisters.
- Petroleum and mineral based oils only.

Graphic Symbol



Specifications

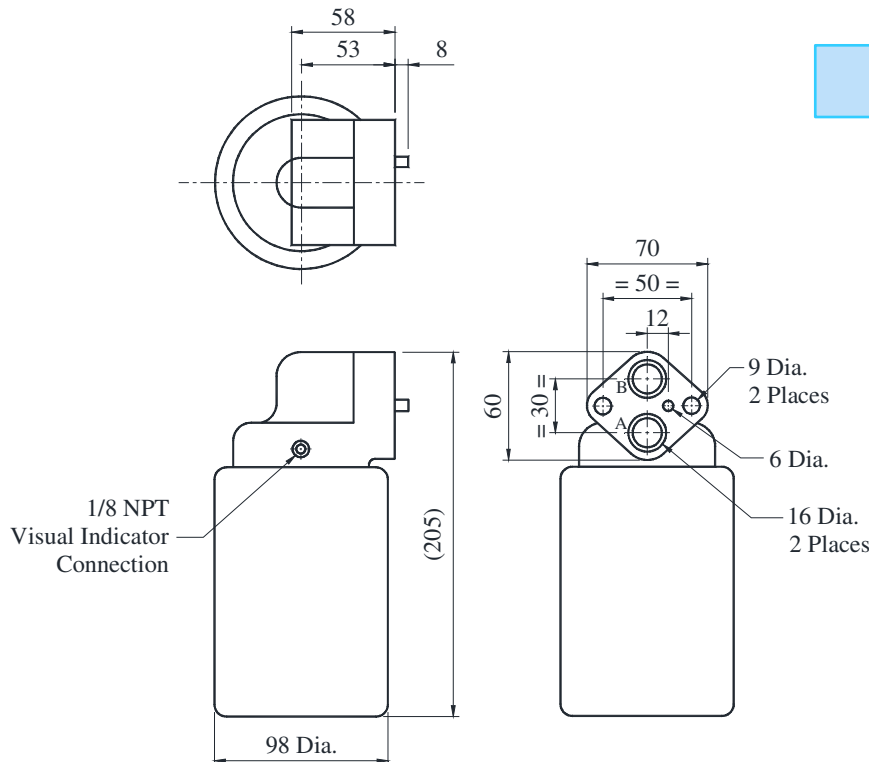
Model Code	Max. Working Pressure Kgf/cm ²	Flow Handling Capacity L/min.	Mass Kg.
YRF	7	40 (Nominal)	1.2

Model Number Designation

YRF	-P	-16	-M	-25	-VI	-10
Return Line Filter	Element Media	Port Size	Mounting Type	Filtration Rating μ (Micron)	Clogging Indicator	Design Number
YRF	P : Paper	16	M : Manifold Mounting	25 : 25 μ	VI : Visual clogging Indicator* None : Without visual Clogging indicator	10

* Visual Clogging indicator model : VI-2025-FB.

Mounting Details



DIMENSIONS IN MILLIMETRES

Filter Element

Model Number Designation

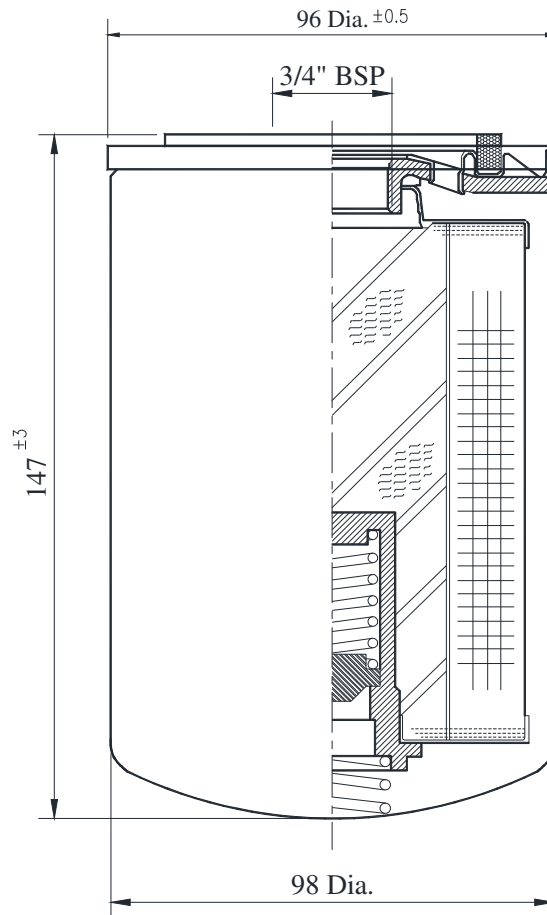
YRFE	-P	-06	-C25
Return Line Filter	Element Media	Port Size	Filtration Rating μ (Micron)
YRFE	P : Paper	3/4"	25

Features

- Disposable spin on element.
- By-pass setting-1.7 Kgf/cm².

Mounting Details

DIMENSIONS IN MILLIMETRES



YTTFR 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.
- Powerful ceramic magnets fixed on the filter head attracts iron particles, it increases pump and system life.
- Suitable for petroleum and mineral based oils.
- High grade impregnated paper element.

Specifications

Model Code	Max. Working Pressure Kgf/cm ²	Max. Flow Rate L/min.
YTTFR	12	350

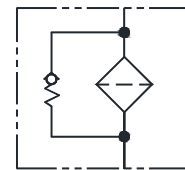
Model Number Designation

YTTFR	-04	-50L	-25M	-VI
Tank Top Return Line Filter	Port Size BSP	Flow Rate L/min.	Element Used μm	Clogging Indicator
YTTFR	04 : 1/2"	50L : 50	25	VI : Visual clogging indicator * None : Without visual clogging indicator
	06 : 3/4"	115L : 115		
	08 : 1"	160L : 160		
	10 : 1 1/4"	240L : 240		

* Visual Clogging indicator model : VI-2025-FB.

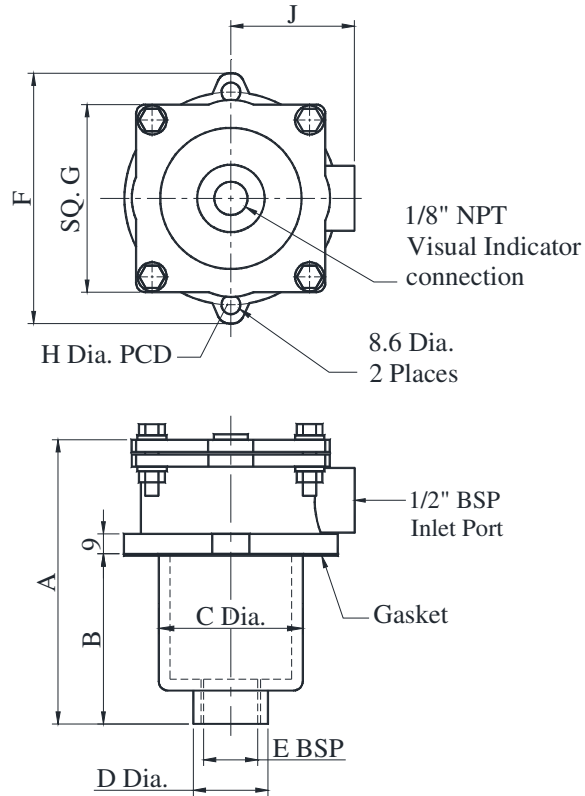


Graphic Symbol



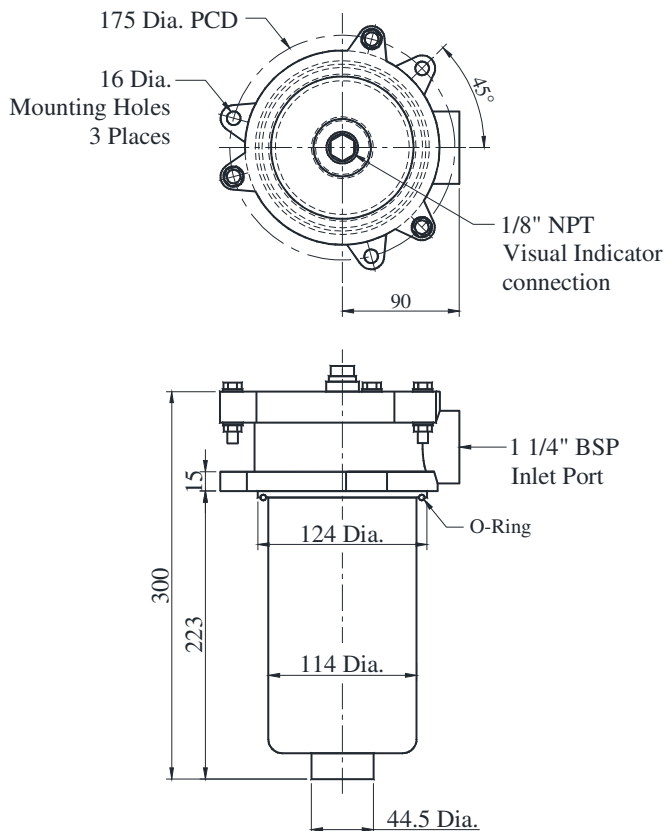
Mounting Details

- YTTFR-**-**-25M-**-**



Model	A	B	C	D	E Outlet port size	F	G	H	J
YTTFR-04	127	76	64	27	1/2"	112	84	95	55
YTTFR-06	155	93	87	37	3/4"	145	105	120	66.5
YTTFR-08	200	140	87	44.5	1"	145	105	120	66.5

- YTTFR-**-**-25M-**-**



DIMENSIONS IN MILLIMETRES

Pressure Gauge

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

YIL pressure gauges built for highest standard of quality, performance, reliability and durability. These are filled with glycerin, constructed with stainless steel bezel case which will provide strength and will not discolor or rust. The bourdon tube is constructed from Phosphor bronze.

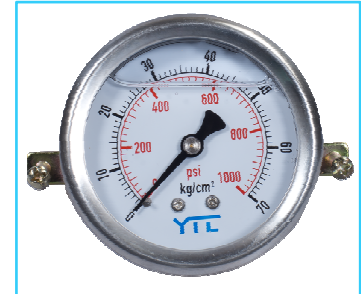
Features

- SS304, polished case.
- Glycerin filled.
- Phosphor bronze bourdon tube.
- Brass connections.
- Aluminum pointer.

Specifications

Model Code	Max. Pressure Range Kg/cm ²	Accuracy % of FSD
YPG	100	1.0~1.6

Graphic Symbol

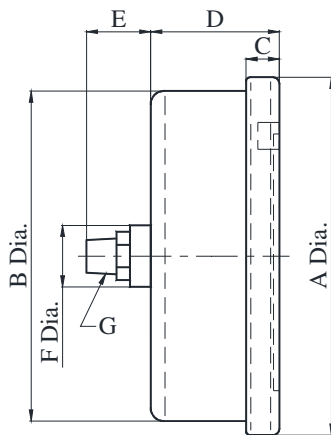


Model Number Designation

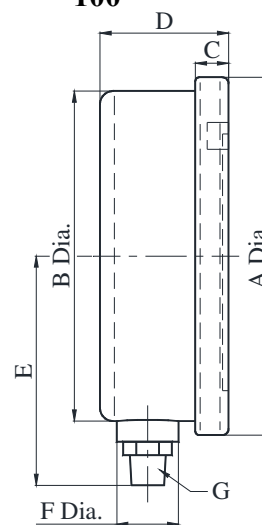
YPG	-63	-G	-100	-FB	-10
Pressure Gauge	Dial Size	Glycerin Filled	Pressure Range Kg/cm ²	Mounting Type	Design Number
YPG	63 100	G	16 : 0~16	FB: Face mounting back entry SB: Surface mounting bottom entry	10
			40 : 0~40		
			70 : 0~70		
			100 : 0~100		
			140 : 0~140		
			160 : 0~160		
			210 : 0~210		
			250 : 0~250		
			280 : 0~280		
400 : 0~400					

Mounting Details

- YPG-⁶³/₁₀₀-G-※※※※-FB-10



- YPG-⁶³/₁₀₀-G-※※※※-SB-10



DIMENSIONS IN MILLIMETRES

Model	A	B	C	D	E	F	G
YPG-63	68	61.5	6	30	30	16	G 1/4"
YPG-100	108	98.5	7	36	40	19.5	G 3/8"

Model	A	B	C	D	E	F	G
YPG-63	68	61.5	6	30	58	16	G 1/4"
YPG-100	108	99.5	7	35	80	19.5	G 3/8"

Temperature Gauge

These temperature gauges are developed for accurate and reliable measurement of temperature in a hydraulic system.

YIL temperature gauges are built for highest standard of quality, performance, reliability and durability. These are argon welded joints having an excellent accuracy and good sensitivity against temperature change.



Graphic Symbol



Features

- SS304 bayonet lock case.
- IP65
- Argon welded joints
- Neoprene Gasket
- Acrylic glass window

Specifications

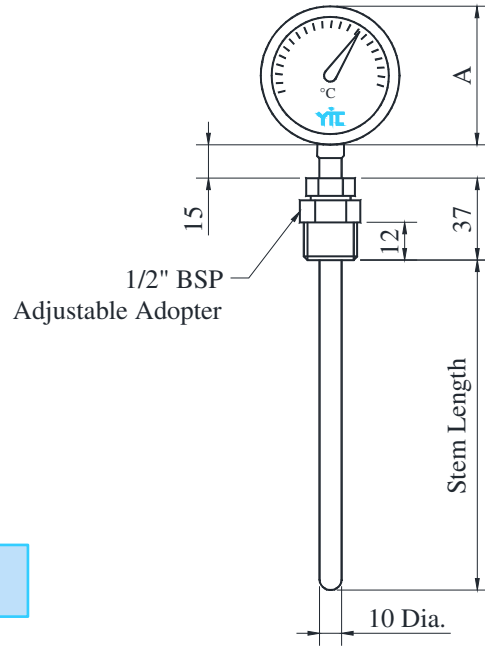
Model Code	Max. Temperature Range Kgf/cm ²	Accuracy % of FSD
YTM	100	±1

Model Number Designation

YTM	-D	-63	-100	-300	-10		
Temperature Gauge	Mounting Type	Dial Size	Temperature Range	Stem Length	Design Number		
YTM	D : Direct Mounting	63	100 : 0~100 °C	63 : 63 mm	10		
				150 : 150 mm			
		200 : 200 mm					
		300 : 300 mm					
	400 : 400 mm	400 : 400 mm		500 : 500 mm		600 : 600 mm	800 : 800 mm
C : Capillary	63	100	3 to 30 : 3 to 30 meter (length to be specified)				
				100			

■ Mounting Details

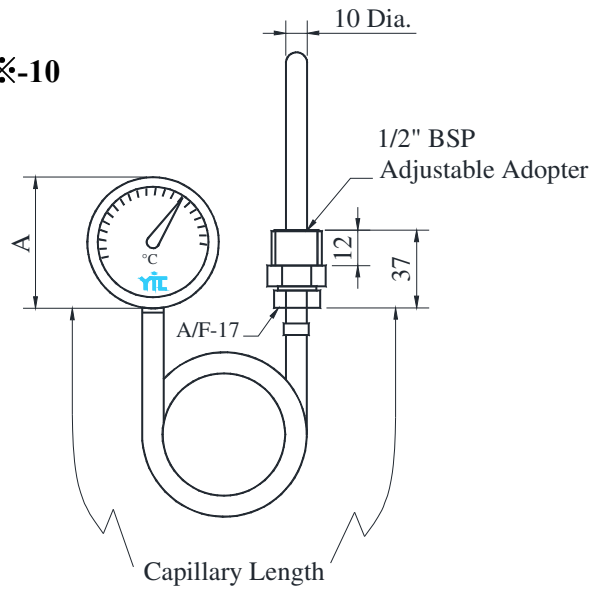
- YTMD-⁶³/₁₀₀-100-※※※※-10



DIMENSIONS IN MILLIMETRES

Model	A
YTMD-63	63
YTMD-100	100

- YTMC-⁶³/₁₀₀-100-※※※※-10



Model	A
YTMC-63	63
YTMC-100	100

Air Blast Type Oil Cooler

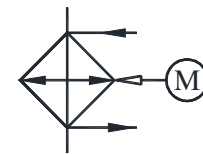
Specifications

Model Code	Supply Voltage (VAC)	Frequency (Hz)	Rated Current (A)	Power Consumption (W)	Speed (r/min.)	Air Flow (CFM)
AMC-217-15	230	50/60	0.23/0.20	37/35	2600/2900	180/200

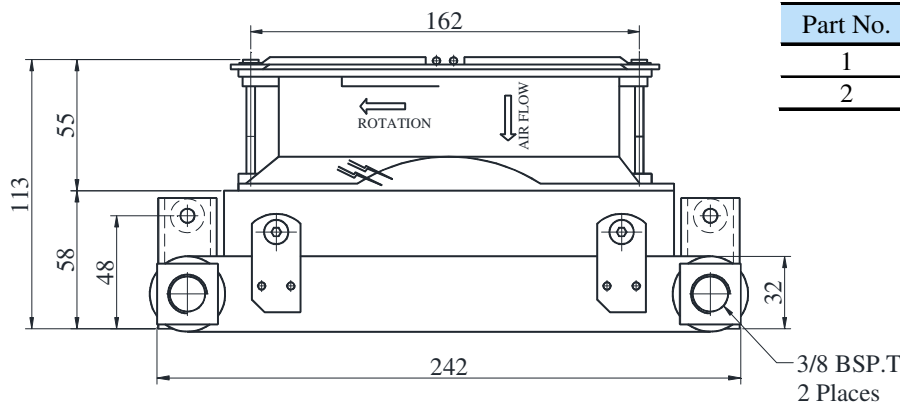


Hydraulic Fluid : ISO VG32
 Input Oil Temperature : 60°C
 Air Volume : 6.6 m³/min.
 Ambient Air Temperature : 35°C
 Test Pressure : 15 Kg/cm²
 Max. Operating Pressure : 10 Kg/cm²
 Maximum Flow : 10 L/min.

Graphic Symbol

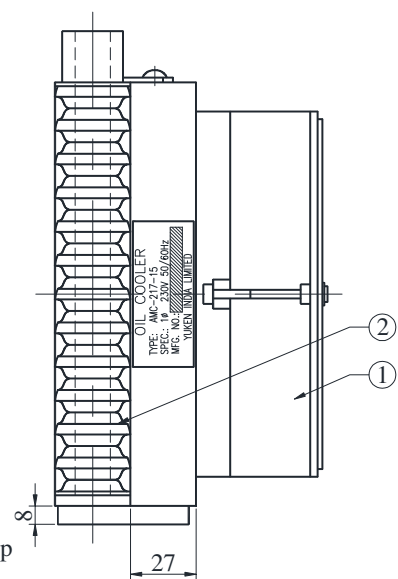
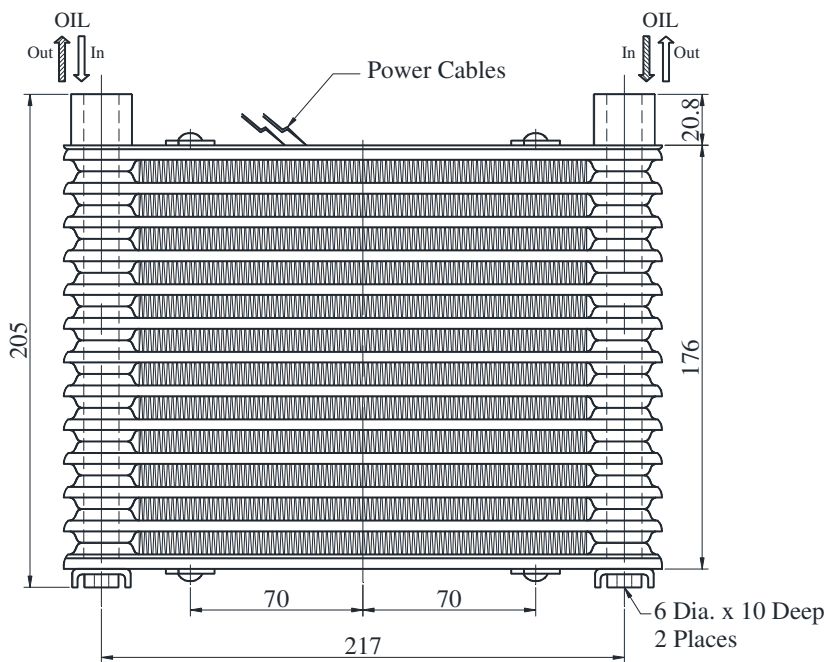


Mounting Details

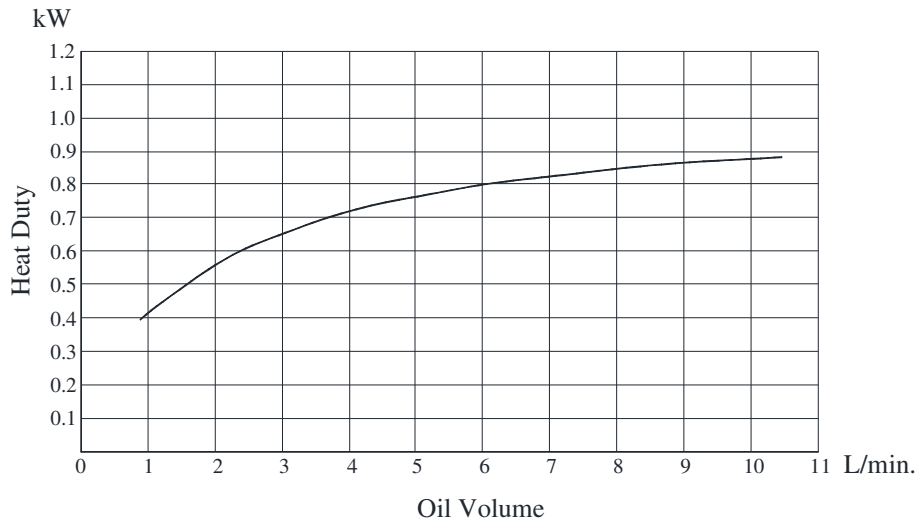


Part No.	Code	Name
1	21725 B2 M W	AC axial fan
2	3A92-001	Radiator Unit

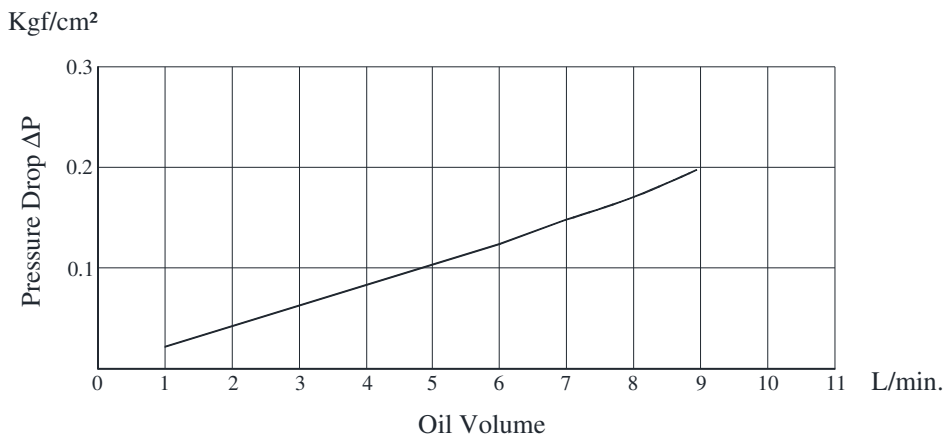
DIMENSIONS IN MILLIMETRES



Performance Curve



Pressure Drop



Clogging Indicator

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



Features

Three color Gauge for Easy Reading

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

Specifications

Model Code	Indication		
	Green Range (PSI)	Yellow Range (PSI)	Red Range (PSI)
VI-1015-※※	0-10	10-15	15-60
VI-2025-※※	0-20	20-25	25-60

Graphic Symbol



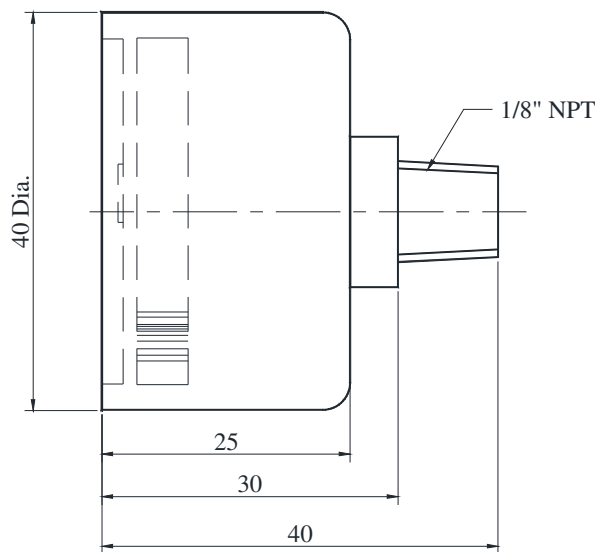
Model Number Designation

VI	-1015	-FB
Clogging Indicator	Pressure Range PSI	Mounting Type
VI	1015 : G: 0-10 Y: 10-15	FB : Face mounting back entry
	2025 : G: 0-20 Y: 20-25	SB : Surface mounting bottom entry

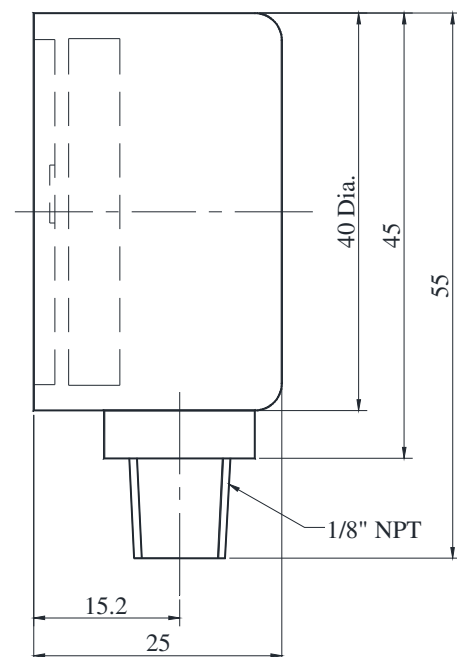
DIMENSIONS IN MILLIMETRES

Mounting Details

- VI-※※※※-FB



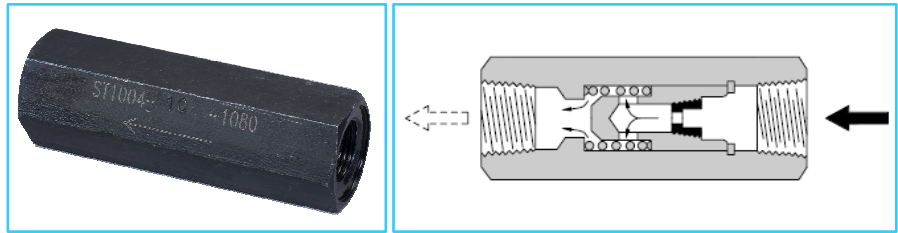
- VI-※※※※-SB



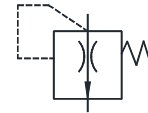
Air Bleed Valves

General Information

This valve is designed to use when a pump starts to bleed off the air which is enclosed in a suction line or another lines in the system.



Graphic Symbol



Specifications

Model Numbers	Max. Operating Pressure Kgf/cm ²	Reseating Pressure Kgf/cm ²	Cracking Pressure Kgf/cm ²	Flow Rate to Reseating L/min.	Range of Usage to Pump Output Flow L/min.	Approx. Mass Kg.
ST1004-5-1080	250	1.5	3.4	5	20 to 75	0.2
ST1004-10-1080				10	Over 75	

Model Number Designation

ST1004	-5	-10	80
Series Number	Flow Rate to Reseating	Design Number	Design Standard
ST1004: Air Bleed Valve	5: 5 L/min. 10: 10 L/min.	10	80

Instructions

When this valve is used to bleed off the air for pump start, connect inlet port of the valve adjacent as much as possible to the discharge port of the pump.

For the purpose of removing the air in the line, install the air bleed valve at the highest point in the overall circuit.

In either case, outlet port of the valve must be connected to the tank line and it should be extended under the oil level in the reservoir.

Hydraulic Fluids

Type of Hydraulic Fluids

- Petroleum Base Oil Use R&O (Rust and Oxidation inhibitor) type oils or anti-ware type oils (equivalent to ISO VG-32 & 46).
- Synthetic Fluids Use Phosphate ester type fluids or polyol ester type fluids.
- Water Containing Fluids Use water glycol type fluids or water in oil emulsion type fluids.
- Other Special Fluids Consult factory for information.

Recommended viscosity and Oil Temperatures

Viscosity ranging between 15 and 400 cSt

Oil temperatures between – 15 and +70°C

Use hydraulic fluids which satisfy the recommended viscosity and oil temperature given above.

Filtration Recommended 25 microns or less.

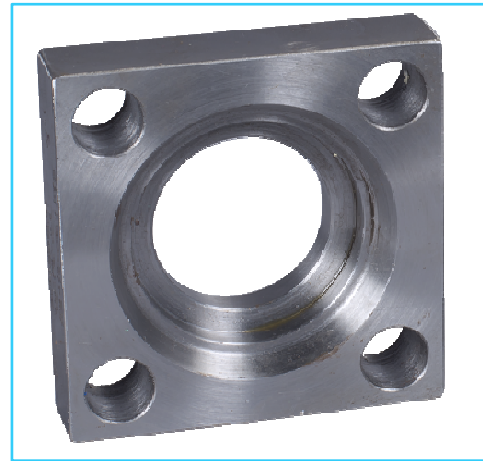
ST1004-※-1080

Model Numbers	“A” Thd.	Dimensions mm	
		B	C
ST-1004-※-1080	3/8 BSP.F	82	27

DIMENSIONS IN MILLIMETRES

“F3” Series Pipe Flange Kits
Specifications

- Max. Operating Pressure 250 Kgf/cm²


Model Number Designation

F-	F3	-03W	B	N	-11	※
Material of Seal	Series Number	Flange Size	Type of Pipe Connection	O-Ring & Bolts	Design Number	Design * Standards
None: Standard NBR (Buna N) Seal F: FPM (Viton) Seal (For Synthetic Fluids)	F3	03W, 03, 06V 06W, 06, 10W 10, 16W, 16 24W, 24	B: Threaded Connection	None: With O-Ring and Mounting Bolts N: No O-Ring and Mounting Bolts	11	None: Japanese Standard “JIS” 80: European Design Standard
		03W, 03, 06V, 06W,06, 10W, 10,16W, 16, 24W,24	A: Pipe Socket Welding C: Block Type			80: European Design Standard

* Different design standard available as shown below. Select suitable design standard to your requirement.

Type of Pipe Connection	Design Standard	Pipe Thread	Mounting Bolts (Socket Head Cap Screw)
For Threaded Connection	Japanese Standard “JIS”	Rc	Metric Thd.
	European Design Standard	BSP.F	Metric Thd.
	N. American Design Standard	NPT	Unified Thd.
For Pipe Socket Welding	Japanese Standard “JIS”	Rc	Metric Thd.

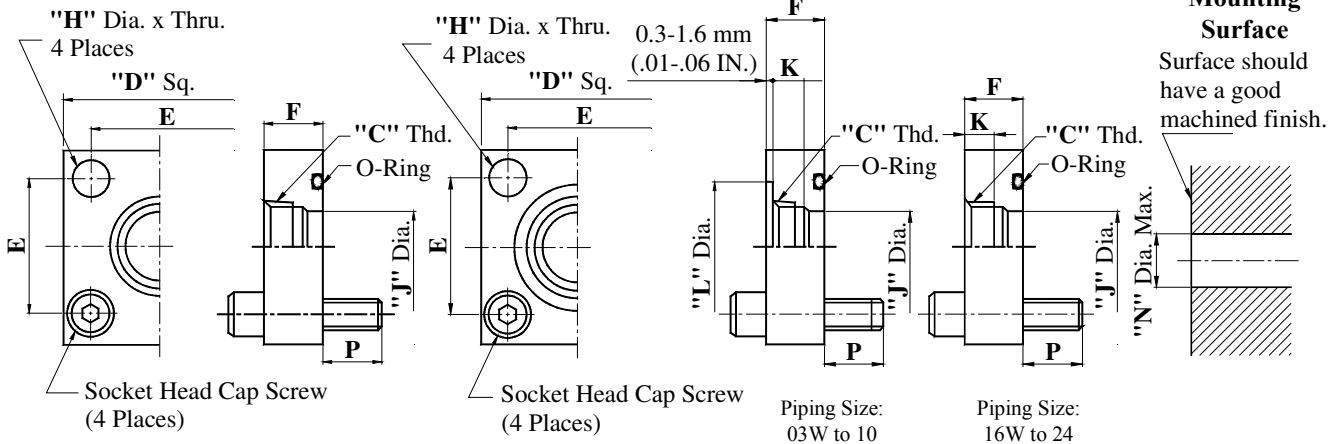
Threaded Connection

Japanese Standard "JIS" &
N. American Design Standard
F3-**B**-11/1190

European Design Standard
F3-**B**-1180

Customer's
Mounting
Surface

Surface should have a good
machined finish.

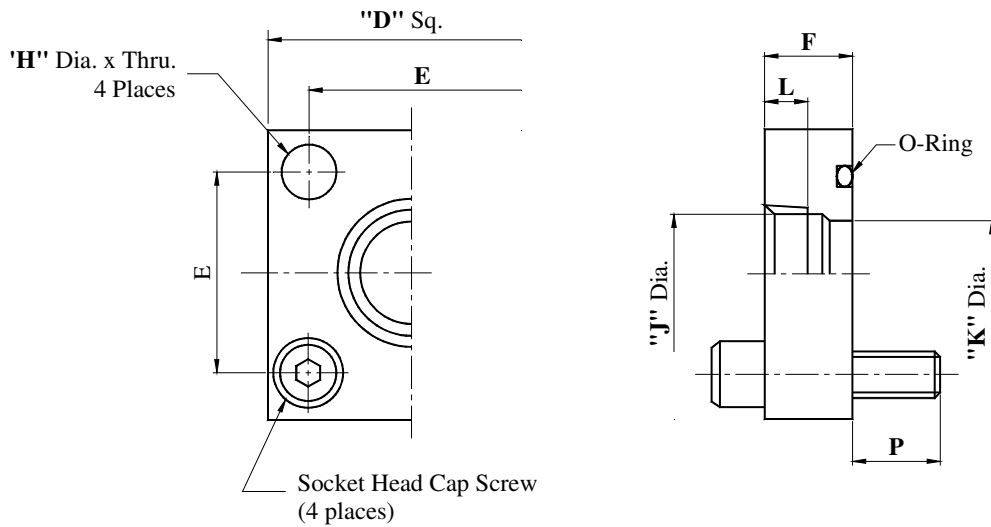


Kit Numbers	Piping Size "C" Thd.	Dimensions mm									O-Ring	Socket Head Cap Screw	Approx. Mass Kg.
		D	E	F	H	J	K	L	N	P			
F3-03W-B-11	Rc 1/4	54	36	21	11	11	--	--	15	14	SO-NB-G25	M10x35Lg.	0.5
F3-03W-B-1180	1/4 BSP.F					11.5	12	21					
F3-03W-B-1190	1/4 NPT					11	--	--					
F3-03-B-11	Rc 3/8					14	--	--					
F3-03-B-1180	3/8 BSP.F					15	14	24.3					
F3-03-B-1190	3/8 NPT					14	--	--					
F3-06V-B-11	Rc 3/8	58	40	21	11	14	--	--	20	14	SO-NB-G30	M10x35Lg.	0.8
F3-06W-B-11	Rc 1/2					17.5	--	--					
F3-06W-B-1180	1/2 BSP.F					19	17	29					
F3-06W-B-1190	1/2 NPT					17.5	--	--					
F3-06-B-11	Rc 3/4					23	--	--					
F3-06-B-1180	3/4 BSP.F					24.5	20	35.5					
F3-06-B-1190	3/4 NPT	23	--	--									
F3-10W-B-11	Rc 1	76	56	27	13.5	29	--	--	31.5	18	SO-NB-G40	M12x45Lg.	1.4
F3-10W-B-1180	1 BSP.F					30.5	21	43.5					
F3-10W-B-1190	1 NPT					29	--	--					
F3-10-B-11	Rc 1/4					--	--	--					
F3-10-B-1180	1-1/4 BSP.F					31.5	22	53					
F3-10-B-1190	1-1/4 NPT					--	--	--					
F3-16W-B-11	Rc 1 1/2	100	73	35	17.5	43.5	--	--	50	25	SO-NB-G60	M16x60Lg.	2.7
F3-16W-B-1180	1-1/2 BSP.F					45	22	--					
F3-16W-B-1190	1-1/2 NPT					43.5	--	--					
F3-16-B-11	Rc 2					--	--	--					
F3-16-B-1180	2 BSP.F					47.5	22	--					
F3-16-B-1190	2 NPT					--	--	--					
F3-24W-B-11	Rc 2-1/2	140	103	44	24	70	--	--	75	36	SO-NB-G85	M22x80Lg.	5.8
F3-24W-B-1180	2-1/2 BSP.F					72.5	20	--					
F3-24W-B-1190	2-1/2 NPT					70	--	--					
F3-24-B-11	Rc 3					--	--	--					
F3-24-B-1180	3 BSP.F					71	20	--					
F3-24-B-1190	3 NPT					--	--	--					

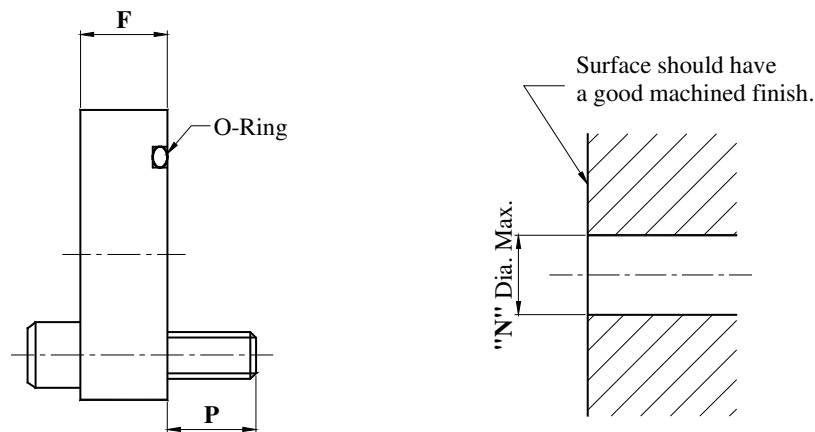
* Approx. Mass is the value including socket Head Cap Screw (4 Places).

■ Pipe Socket Welding

F3-※-A※-11



F3-※-C※-11



Kit numbers	Piping Size	Dimensions mm									O-Ring	Socket Head Cap Screw	Approx.* Mass Kg.
		D	E	F	H	J	K	L	N	P			
F3-03W-※-11	1/4	54	36	21	11	14.3	11	8	15	14	SO-NB-G25	M10 x 35Lg.	0.5
F3-03-※-11	3/8					17.8	12.5	9		14			
F3-06V-※-11	3/8	58	40	21	11	17.8	12.5	9	20	14	SO-NB-G30	M10 x 35Lg.	0.8
F3-06W-※-11	1/2					22.2	16	11		14			
F3-06-※-11	3/4					27.7	20	12		14			
F3-10W-※-11	1	76	56	27	13.5	34.5	25	14	31.5	18	SO-NB-G40	M12 x 45Lg.	1.4
F3-10-※-11	1-1/4					43.2	31.5	16		18			
F3-16W-※-11	1-1/2	100	73	35	17.5	49.1	37.5	18	50	25	SO-NB-G60	M16 x 60Lg.	2.7
F3-16-※-11	2					61.1	47.5	20		25			
F3-24W-※-11	2-1/2	140	103	44	24	77.1	60	22	75	36	SO-NB-G85	M22 x 80Lg.	5.8
F3-24-※-11	3					90	71	25		36			

“F5” Series Pipe Flange Kits

This flange mounting surface measurements is based upon SAE 4 Bolt Spring Flange (Standard Pressure Series).

Specifications

- Max. Operating Pressure
Maximum operating pressure varies with the type of pipe connection or flange size. Refer to the applicable installation drawing.



Model Number Designation

F-	F5	-06	-A	-10	※
Material of seal	Series Number	Flange Size	Type of Pipe Connection	Design Number	Design Standard *
None: Standard NBR (Buna N) Seal	F5	04W, 04, 06X 16, 08, 10 24, 28, 32	A: Threaded Connection	10	None: Japanese Standard "JIS"
		04, 06, 08 10, 12, 16 20		11	80: European Design Standard
		04W, 04, 06 08, 10, 12 16, 20		10	90: N. American Design Standard
F: FPM (Viton) Seal (For Synthetic Fluids)					

* The three different design standard available as shown below. Select suitable design standard to your requirement.

Type of Pipe Connection	Design Standard	Pipe Thread	Mounting bolt (Socket Head Cap Screw)
Threaded Connection	Japanese Standard "JIS"	Rc	Metric Thd.
	European Design Standard	BSP.F	Metric Thd.
	N. American Design Standard	N P T	Unified Thd.

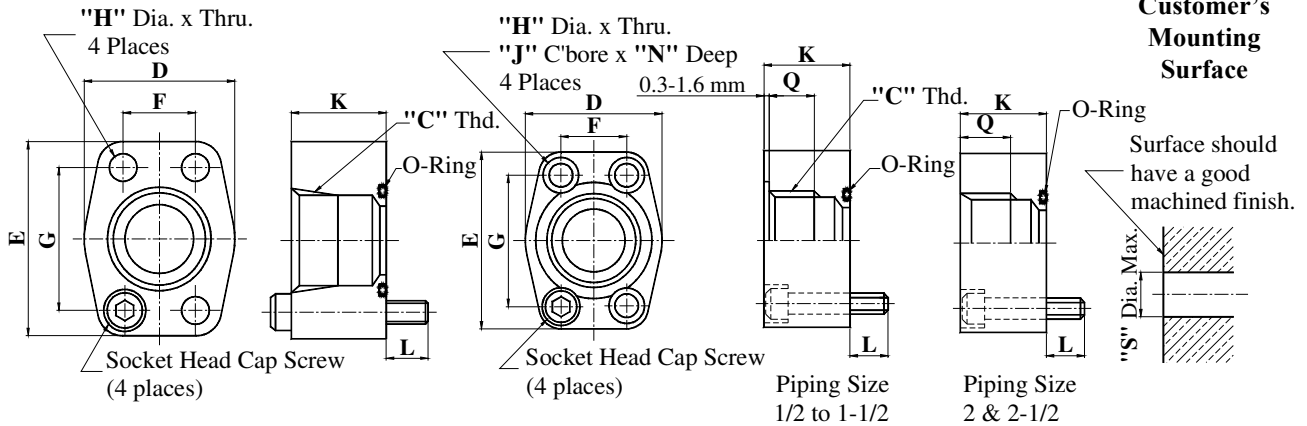
Threaded Connection

Japanese Standard "JIS" &
N. American Design Standard

F5-~~※~~-A-10
F5-~~※~~-A-1090

European Design Standard
F5-~~※~~-A-1180

Customer's
Mounting
Surface



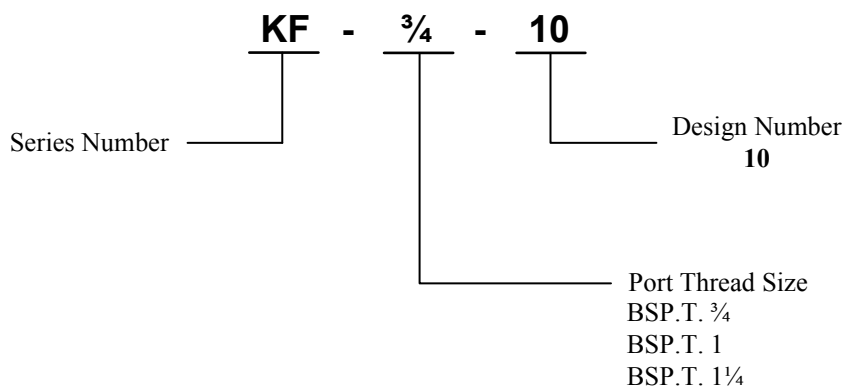
Kit numbers	Piping Size "C" Thd.	Dimensions mm											Socket Head Cap Screw (4 Places)	O-Ring	Max. Operating Pressure (Kg/cm ²)	Approx. Mass Kg.			
		D	E	F	G	H	J	K	L	N	Q	S							
F5-04W-A-10	Rc 3/8											10			13	M8 x 40 Lg.	SO-NB-P22	280	0.5
F5-04W-A-1090	3/8 NPT		54												15	5/16-18UNC x 1-3/4 Lg.			
F5-04-A-10	Rc 1/2	40	54	17.5	38.1	8.8						10			13	M8 x 40 Lg.	SO-NB-P22	280	0.5
F5-04-A-1180	1/2 BSP.F		59						14	31	12.6	8.6	17	15	M8 x 35 Lg.				
F5-04-A-1090	1/2 NPT		54							30	14.5			13	5/16-18UNC x 1-3/4 Lg.				
F5-06X-A-10	Rc 3/4															M8 x 45 Lg.	SO-NB-G30	280	0.7
F5-06-A10		48	65			8.8				30	15					M10 x 45 Lg.			
F5-06-A-1180	3/4 BSP.F		72		22.2	47.6								19	M10 x 35 Lg.	SO-NB-G30	280	0.7	
F5-06-A-1090	3/4 NPT		65						11										3/8-16UNC x 1-3/4 Lg.
F5-08-A-10	Rc 1		70													M10 x 45 Lg.	SO-NB-G35	280	0.9
F5-08-A-1180	1 BSP.F	55	77	26.2	52.4	11										M10 x 35 Lg.			
F5-08-A-1090	1 NPT		70													3/8-16UNC x 1-3/4 Lg.			
F5-10-A-10	Rc 1-1/4		80													M10 x 55 Lg.	SO-NB-G40	218	1.2
F5-10-A-1180	1-1/4 BSP.F	64	83	30.2	58.7	11										M10 x 45 Lg.			
F5-10-A-1090	1-1/4 NPT		80													7/16-14UNC x 2-1/4 Lg.			
F5-12-A10	Rc 1-1/2		94													M12 x 55 Lg.	SO-NB-G50	210	1.5
F5-12-A-1180	1-1/2 BSP.F	72	99	35.7	69.9	13.5										M12 x 45 Lg.			
F5-12-A-1090	1-1/2 NPT		94													1/2-13UNC x 2-1/4 Lg.			
F5-16-A10	Rc 2		102													M12 x 55 Lg.	SO-NB-G65	175	1.7
F5-16-A-1180	2 BSP.F	85	107	42.9	77.8	13.5										M12 x 45 Lg.			
F5-16-A-1090	2 NPT		102													1/2-13UNC x 2-1/4 Lg.			
F5-20-A-10	Rc 2-1/2		114													M12 x 65 Lg.	SO-NB-G75	175	2
F5-20-A-1180	2-1/2 BSP.F	102	118	50.8	88.9	13.5										M12 x 50 Lg.			
F5-20-A-1090	2-1/2 NPT		114													1/2-13UNC x 2-3/4 Lg.			
F5-24-A-10	Rc 3		116	135	61.9	106.4										M16 x 70 Lg.	SO-NB-G85	35	2.7
F5-28-A-10	Rc 3-1/2		134	153	69.9	120.7	17.5	26	53	17	--	--				M16 x 70 Lg.			
F5-32-A-10	Rc 4		150	162	77.8	130.2										M16 x 70 Lg.	SO-NB-G115		3.7

Suction Pipe Flange for “A” Series Pumps

These flanges are used for connecting the pump port to suction pipe. The advantages are easy mounting, compact size, cost effective, and reduced pressure drop.



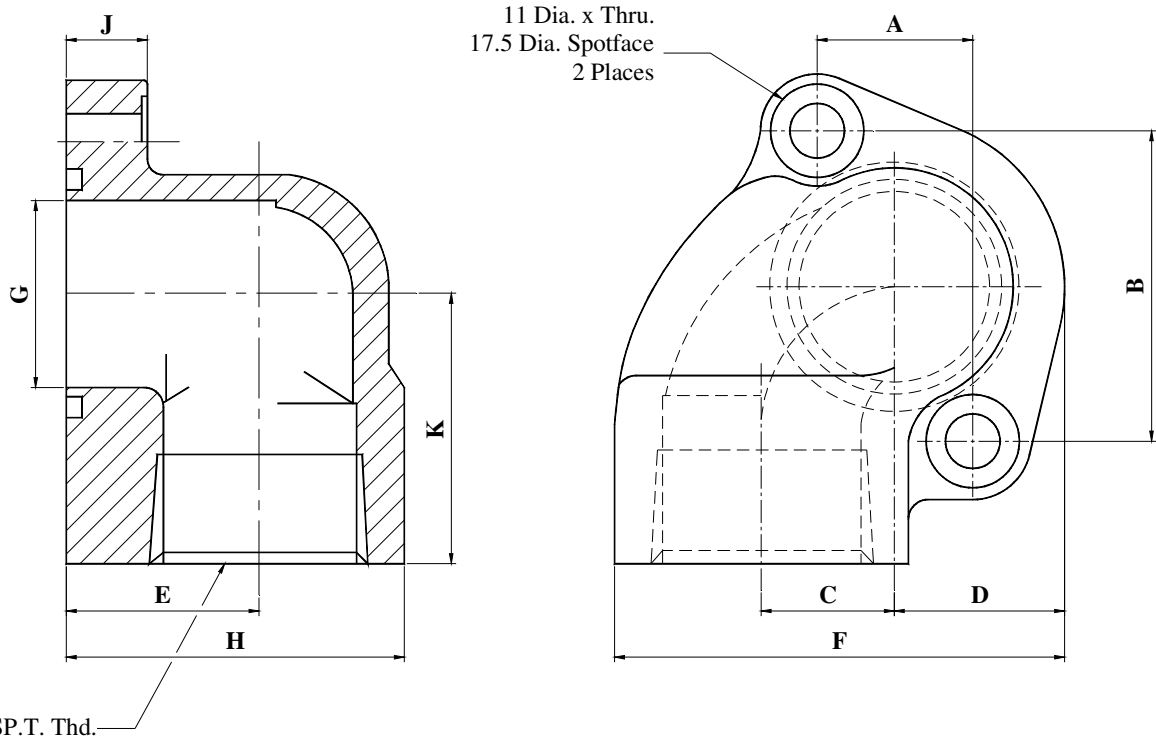
1. Model Number Designation



2. Applicable Pump Model Numbers.

Pump Model Number	Port Name	Pipe Flange Kit Model Number
AR16-FR※-※※	Suction	KF-3/4-10 (Standard)
AR22-FR01※-※※		KF-1-10 (Also available)
A37-F-R-01-※-K-※※		KF-1 1/4-10
A56-F-R-01-※-K-※※		

3. Overall Dimensions



Sl. No.	Suction Flange Model Number	Dimensions in mm										
		A	B	C	D	E	F	G	H	J	K	a
1	KF-3/4-10	22	48	23	26	30	81	22.5	60	16	45	3/4
2	KF-1-10											1
3	KF-1 1/4-10	30.2	58.7	25	32	37	84	36	65	15	52	1 1/4