

2MY-S Filter

(WITH INTEGRATED 3-PHASE MOTOR)



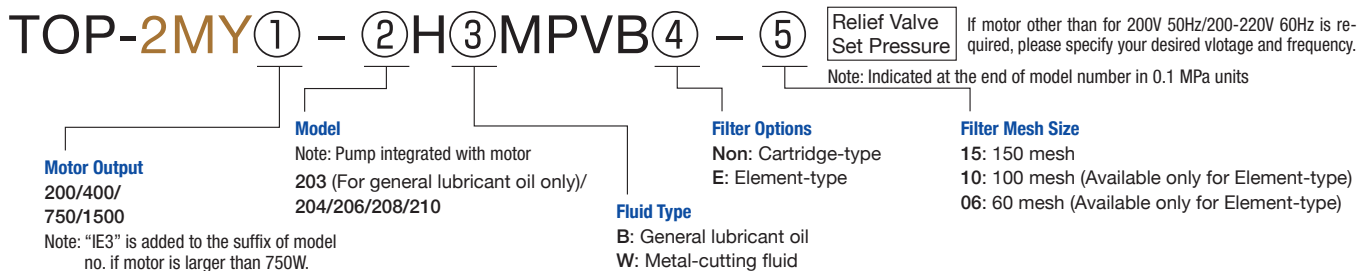
2HBMP



2HWMP



Model Numbering System



Specifications (For General Lubricant Oil)

Model \ Item	Motor speed 50Hz 1500min ⁻¹					Motor speed 60Hz 1800min ⁻¹				
	Theoretical discharge (ℓ/min)	Max. pressure for motor output (MPa)				Theoretical discharge (ℓ/min)	Max. pressure for motor output (MPa)			
		200W	400W	750W	1500W		200W	400W	750W	1500W
TOP-203HBMPVB (E)	4.2	1.7	2.5	2.5	2.5	5.0	1.3	2.5	2.5	2.5
TOP-204HBMPVB (E)	6.0	1.2	2.5	2.5	2.5	7.2	0.9	2.3	2.5	2.5
TOP-206HBMPVB (E)	9.0	0.7	1.8	2.5	2.5	10.8	0.5	1.4	2.5	2.5
TOP-208HBMPVB (E)	12.0	0.5	1.3	2.5	2.5	14.4	0.3	1.0	2.3	2.5
TOP-210HBMPVB (E)	15.0	0.4	1.1	2.5	2.5	18.0	0.3	0.9	2.0	2.5

• Test oil: ISO-VG46/Oil temperature: 40C

• Viscosity range of pumped liquid is 2-50mm²/sec. The vacuum gauge will indicate over the green zone if pumped fluid exceeds the permissible viscosity range.

Specifications (For Metal Cutting Fluid)

Model \ Item	Motor speed 50Hz 1500min ⁻¹					Motor speed 60Hz 1800min ⁻¹				
	Theoretical discharge (ℓ/min)	Max. pressure for motor output (MPa)				Theoretical discharge (ℓ/min)	Max. pressure for motor output (MPa)			
		200W	400W	750W	1500W		200W	400W	750W	1500W
TOP-204HWMPVB (E)	6.0	1.2	2.0	2.0	2.0	7.2	1.0	2.0	2.0	2.0
TOP-206HWMPVB (E)	9.0	0.8	1.8	2.0	2.0	10.8	0.6	1.6	2.0	2.0
TOP-208HWMPVB (E)	12.0	0.6	1.4	2.0	2.0	14.4	0.4	1.2	2.0	2.0
TOP-210HWMPVB (E)	15.0	0.4	1.2	2.0	2.0	18.0	0.3	1.0	1.9	2.0

• Test oil: ISO-VG2/Oil temperature: 40C • There is no "203" model for metal cutting fluid.

• Viscosity range of pumped liquid is 2-50mm²/sec. The vacuum gauge will indicate over the green zone if pumped fluid exceeds the permissible viscosity range.

Filter options for "Clean hat" series

Filter Type	Model Name	Mesh Size
Cartridge for 2HBMPVB Cartridge for 2HWMPVB	F913-3-150W	150
Element for 2HBMPVBE Element for 2HWMPVBE	351-04-60W 351-04-100W 351-04-150W	60 100 150
Element for 2HWNPE	351-06-60W 351-06-100W 351-06-150W	60 100 150

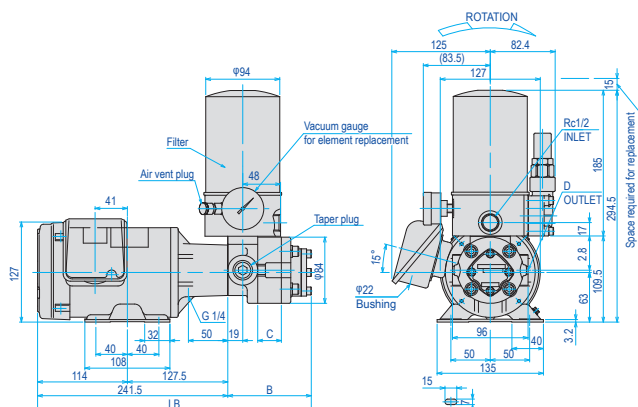
Note: Please specify the model number when ordering filters.

Note: If you also need to purchase O ring in the element case, order "G75" type for the filter of which model number begins with "351-04", and order "G95" type if it begins with "351-06".

Any disassembly or alteration of the product will void the warranty.

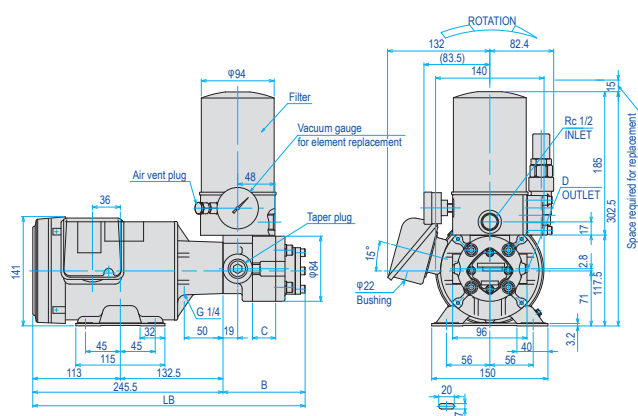
■ Dimensions (Typical) for 2MY-S Filter (Cartridge-type, For General Lubricant Oil)

Model : TOP-2MY200-2**HBMPVB



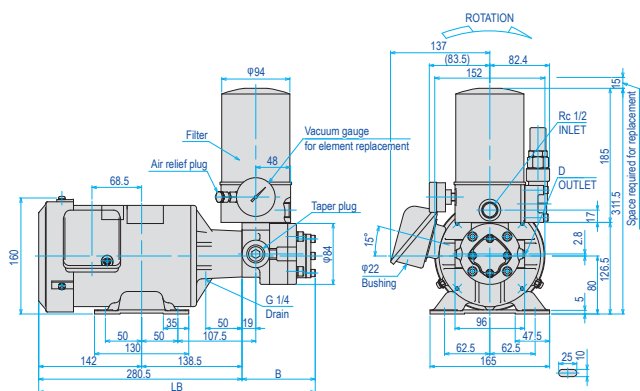
Item	LB	B	C	D
Model 203	324.5	83	7	Rc 1/2
204	327.5	86	10	
206	332.5	91	15	
208	337.5	96	20	Rc 3/4
210	342.5	101	25	

Model : TOP-2MY400-2**HBMPVB



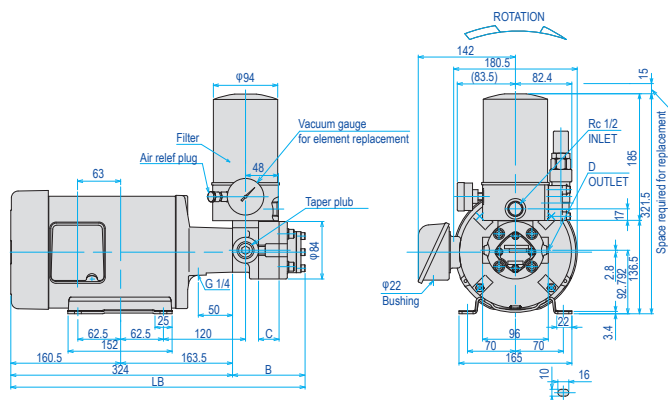
Item	LB	B	C	D
Model 203	328.5	83	7	Rc 1/2
204	331.5	86	10	
206	336.5	91	15	
208	341.5	96	20	Rc 3/4
210	346.5	101	25	

Model : TOP-2MY750-2**HBMPVB IE3



Item	LB	B	D
Model 203	363.5	83	Rc 1/2
204	366.5	86	
206	371.5	91	
208	376.5	96	Rc 3/4
210	381.5	101	

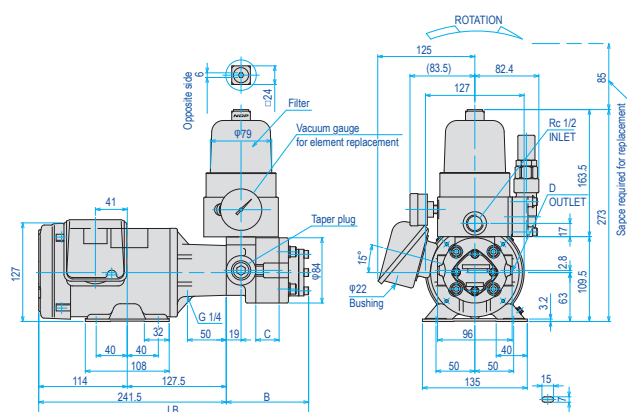
Model : TOP-2MY1500-2**HBMPVB IE3



Item	LB	B	C	D
Model 203	407	83	7	Rc 1/2
204	410	86	10	
206	415	91	15	
208	420	96	20	Rc 3/4
210	425	101	25	

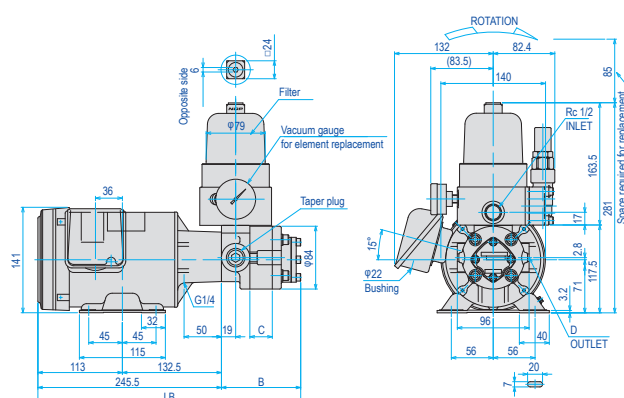
Dimensions (Typical) for 2MY-S Filter (Element-type, For General Lubricant Oil)

Model : TOP-2MY200-2**HBMPVBE



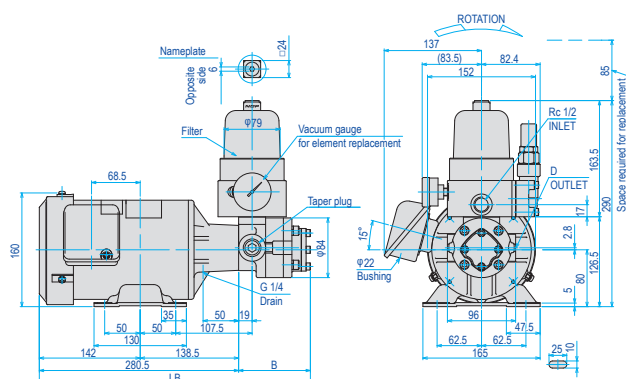
Model	Item	LB	B	C	D
203		324.5	83	7	Rc 1/2
204		327.5	86	10	
206		332.5	91	15	
208		337.5	96	20	
210		342.5	101	25	Rc 3/4

Model : TOP-2MY400-2**HBMPVBE



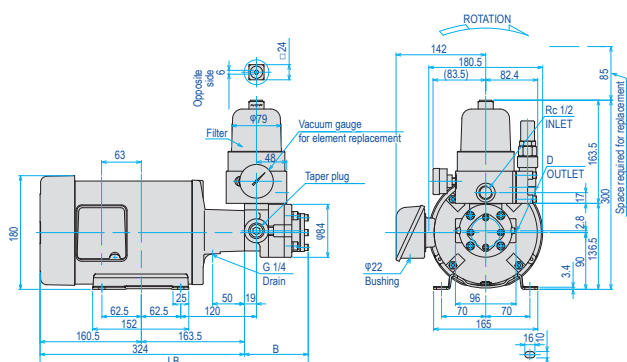
Model	Item	LB	B	C	D
203		328.5	83	7	Rc 1/2
204		331.5	86	10	
206		336.5	91	15	
208		341.5	96	20	
210		346.5	101	25	Rc 3/4

Model : TOP-2MY750-2**HBMPVBE IE3



Model	Item	LB	B	D
203		363.5	83	Rc 1/2
204		366.5	86	
206		371.5	91	
208		376.5	96	
210		381.5	101	Rc 3/4

Model : TOP-2MY1500-2**HBMPVBE IE3

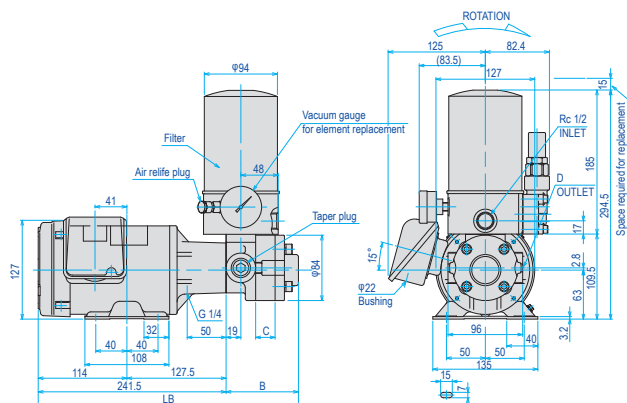


Model	Item	LB	B	D
203		407	83	Rc 1/2
204		410	86	
206		415	91	
208		420	96	
210		425	101	Rc 3/4

Any disassembly or alteration of the product will void the warranty.

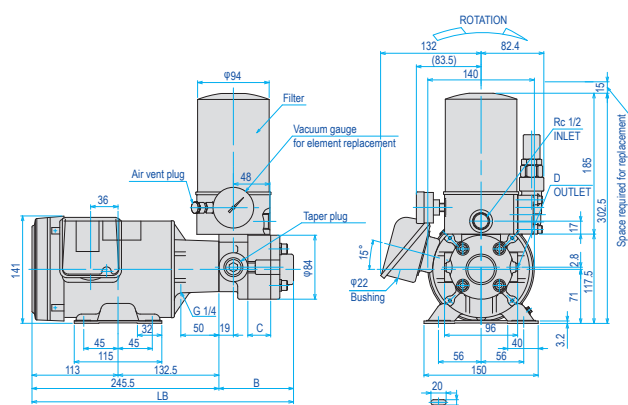
■ Dimensions (Typical) for 2MY-S Filter (Cartridge-type, For Metal Cutting Fluid)

Model : TOP-2MY200-2HWMPVB**



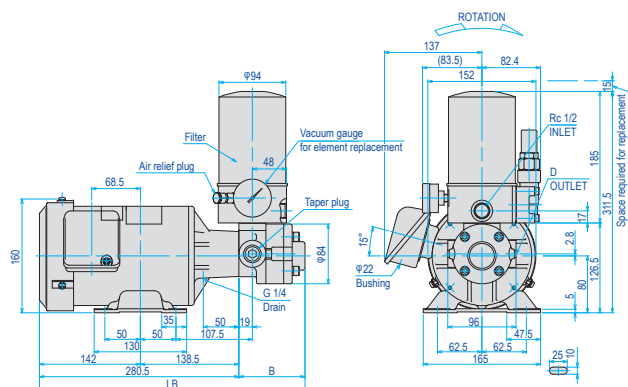
Item Model	LB	B	C	D
204	319.5	78	10	Rc 1/2
206	324.5	83	15	
208	329.5	88	20	
210	334.5	93	25	Rc 3/4

Model : TOP-2MY400-2HWMPVB**



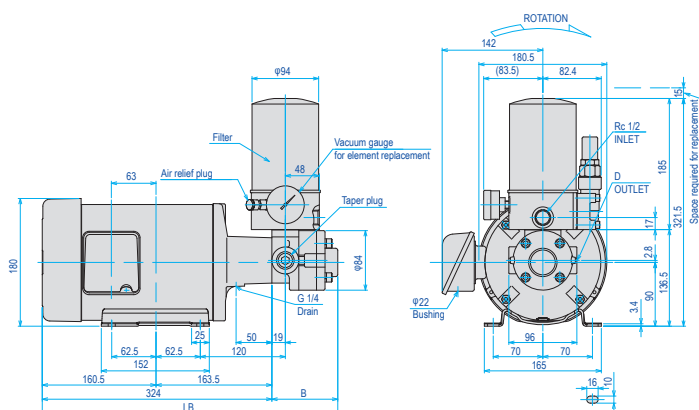
Item Model	LB	B	C	D
204	323.5	78	10	Rc 1/2
206	328.5	83	15	
208	333.5	88	20	
210	338.5	93	25	Rc 3/4

Model : TOP-2MY750-2HWMPVB IE3**



Item Model	LB	B	D
204	358.5	78	Rc 1/2
206	363.5	83	
208	368.5	88	
210	373.5	93	Rc 3/4

Model : TOP-2MY1500-2HWMPVB IE3**



Item Model	LB	B	D
204	402	78	Rc 1/2
206	407	83	
208	412	88	
210	417	93	Rc 3/4

2MY-S Filter

(WITH INTEGRATED 3-PHASE MOTOR)



Model Numbering System (For Metal Cutting Fluid)

TOP-**2MY**① – ②HWNPEVB – ③ – ④

Motor Output

200/400/
750/1500

Note: "IE3" is added to the suffix of model no.
if motor is larger than 750W.

Model

Note: Pump integrated with motor
212/216/220

Relief Valve Set Pressure

Note: Indicated at the end of
model number in 0.1 MPa
units

If motor other than for 200V 50Hz/200-220V 60Hz is required,
please specify your desired voltage and frequency.

Filter Mesh Size (Available only for Element-type)

15: 150 mesh
10: 100 mesh
06: 60 mesh

Specifications

Model \ Item	Motor speed 50Hz 1500min ⁻¹					Motor speed 60Hz 1800min ⁻¹				
	Theoretical discharge (ℓ/min)	Max. pressure for motor output (MPa)				Theoretical discharge (ℓ/min)	Max. pressure for motor output (MPa)			
		200W	400W	750W	1500W		200W	400W	750W	1500W
TOP-212HWNPEVB	18.0	0.3	1.0	2.0	2.0	21.6	—	0.8	1.6	2.0
TOP-216HWNPEVB	24.0	0.2	0.8	1.5	2.0	28.8	—	0.6	1.2	2.0
TOP-220HWNPEVB	30.0	—	0.6	1.2	1.5	36.0	—	0.5	1.0	1.5

• Test oil: ISO-VG2/Oil temperature: 40C

• Viscosity range of pumped liquid is 2-50mm²/sec. The vacuum gauge will indicate over the green zone if pumped fluid exceeds the permissible viscosity range.

Safety precautions for the cartridge replacement

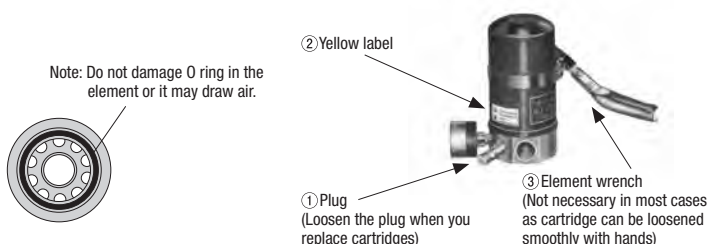
Before replacing the cartridges, make sure that there is no oil remaining inside the cartridge. You can drain the oil by loosening the air suction plug on the side of suction port (Indicated on yellow label on the case)

Note: ① Loosen the adjustment knob and hold it for 10 seconds. ② Replace the cartridges.
③ After the replacement is complete, tighten the adjustment knob back in place.

The oil remaining inside the cartridge will be released to the tank through the suction line. This process normally takes about 10 seconds before the oil is completely drained from the cartridge. Note: Make sure no check valve is installed on the suction line.

The cartridge is removable with hands by rotating it counter-clockwise and if it is still too tight, use element wrench (Available in a shop or from us). When you replace with new cartridge, tighten the cartridge onto the screw on subplate. Cartridge may draw air if it is not tight. You can tighten the cartridge more tightly by using element wrench.

2HBMPVB (Cartridge type)

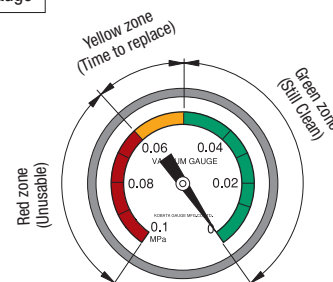


When to replace cartridge and clean element

For cartridge type, replace the cartridges when the pointer on the pressure gauge indicates the yellow zone. Cartridge is installable and removable easily with hands.

For element type, rotate the element and remove it from the element case and clean it when the pointer on the pressure gauge indicates the yellow zone.

Vacuum gauge



2MY-W Filter

(WITH INTEGRATED 3-PHASE MOTOR)



Model Numbering System (For Metal Cutting Fluid)

TOP-**2MY**① – ②HWMDPVDE-005 – ③

Motor Output

200/400/750/1500

Note: "IE3" is added to the suffix of model no. if motor is larger than 750W.

Model

204/206/208/
210/212

Filter Mesh Size

15: 150 mesh
10: 100 mesh
06: 60 mesh

Relief Valve Set Pressure

Note: Indicated at the end of model number in 0.1 MPa units

If motor other than for 200V 50Hz/200-220V 60Hz is required, please specify your desired voltage and frequency.

- Model no. of element filter is "351-04-★W". "★" indicates mesh size. Choose one from 60/100/150.

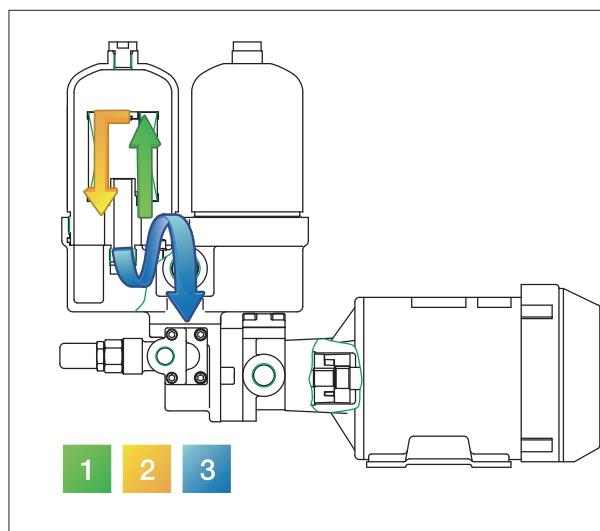
Specifications (For Metal Cutting Fluid)

Model \ Item	Motor speed 50Hz 1500min ⁻¹					Motor speed 60Hz 1800min ⁻¹				
	Theoretical discharge (ℓ/min)	Max. pressure for motor output (MPa)				Theoretical discharge (ℓ/min)	Max. pressure for motor output (MPa)			
		200W	400W	750W	1500W		200W	400W	750W	1500W
TOP-204HWMDPVDE	6.0	1.2	2.0	2.0	2.0	7.2	1.0	2.0	2.0	2.0
TOP-206HWMDPVDE	9.0	0.8	1.8	2.0	2.0	10.8	0.6	1.6	2.0	2.0
TOP-208HWMDPVDE	12.0	0.6	1.4	2.0	2.0	14.4	0.4	1.2	2.0	2.0
TOP-210HWMDPVDE	15.0	0.4	1.2	2.0	2.0	18.0	0.3	1.0	1.9	2.0
TOP-212HWMDPVDE	18.0	0.3	1.0	2.0	2.0	21.6	–	0.8	1.6	2.0

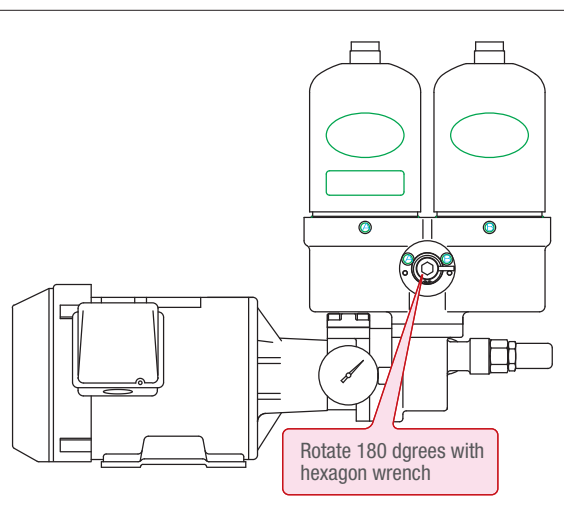
- Test oil: ISO-VG2/Oil temperature: 40C

- Viscosity range of pumped liquid is 2-50mm²/sec. The vacuum gauge will indicate over the green zone If pumped fluid exceeds the permissible viscosity range.

Flow of oil inside the filter



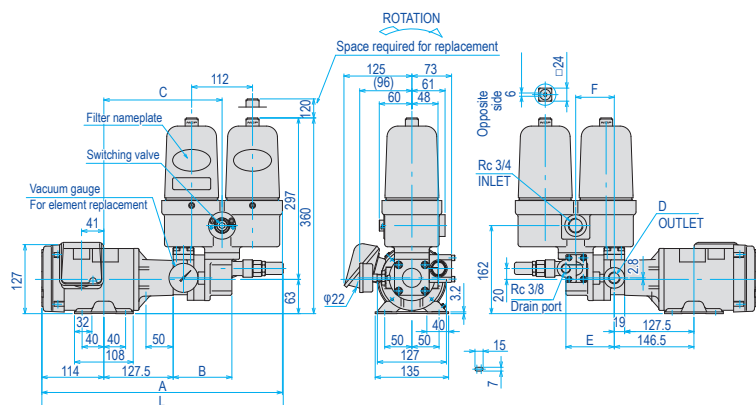
How to switch between filters



Dimensions (Typical) for 2MY-S Filter (Element-type For Metal Cutting Fluid)

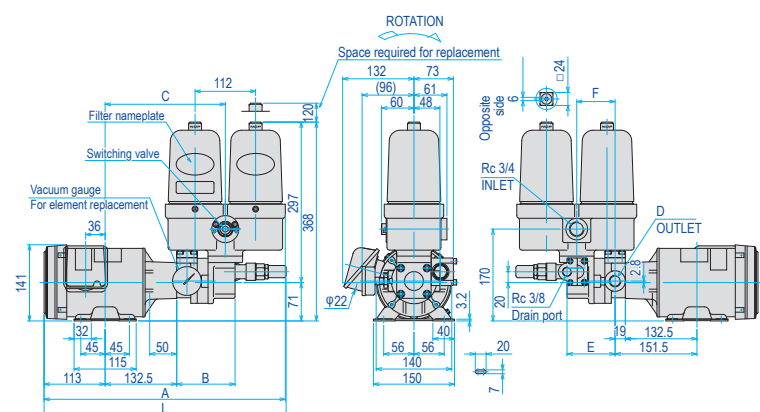
* "Drain port Rc 3/8" is provided to drain liquid from relief valve.

Model : TOP-2MY200□-2**HWMDPVDE-005



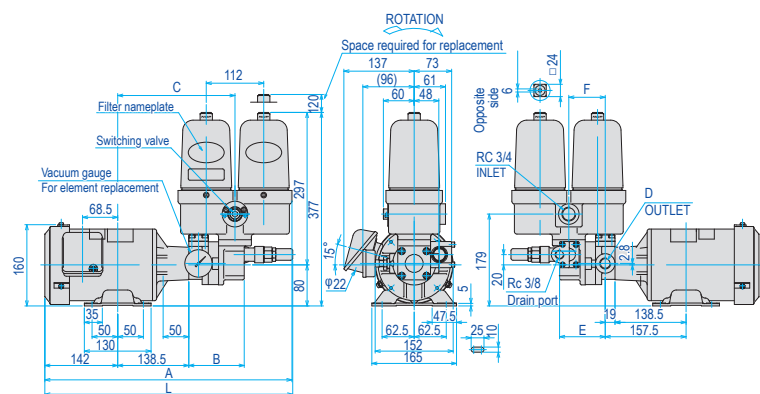
Item	L	A	B	C
Model 204	434	432.5	98	207.5
206	439	437.5	103	212.5
208	444	442.5	108	217.5
210	449	447.5	113	222.5
Item	D	E	F	
Model 204	Rc 1/2	79	61	
206		84	66	
208		89	71	
210		94	76	

Model : TOP-2MY400□-2**HWMDPVDE-005



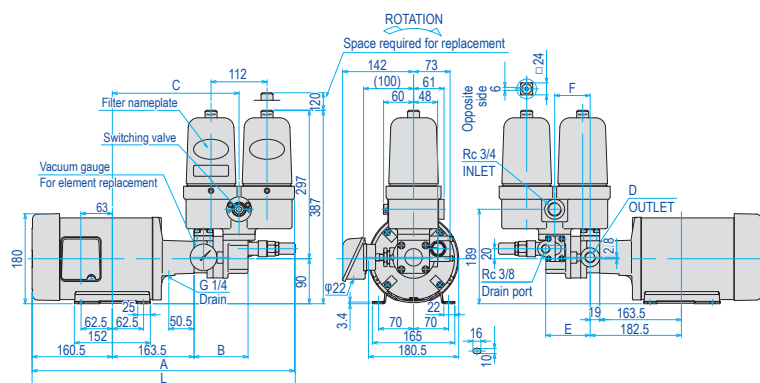
Item	L	A	B	C
Model 204	438	436.5	98	212.5
206	443	441.5	103	217.5
208	448	446.5	108	222.5
210	453	451.5	113	227.5
212	458	456.5	118	232.5
Item	D	E	F	
Model 204	Rc 1/2	79	61	
206		84	66	
208		89	71	
210		94	76	
212	Rc 3/4	99	81	

Model : TOP-2MY750-2**HWMDPVDE-005 IE3



Item	L	A	B	C
Model 204	473	471.5	98	218.5
206	478	476.5	103	223.5
208	483	481.5	108	228.5
210	488	486.5	113	233.5
212	493	491.5	118	238.5
Item	D	E	F	
Model 204	Rc 1/2	79	61	
206		84	66	
208		89	71	
210		94	76	
212	Rc 3/4	99	81	

Model : TOP-2MY1500-2**HWMDPVDE-005 IE3



Item	L	A	B	C
Model 204	516.5	515	98	243.5
206	521.5	520	103	248.5
208	526.5	525	108	253.5
210	531.5	530	113	258.5
212	536.5	535	118	263.5
Item	D	E	F	
Model 204	Rc 1/2	79	61	
206		84	66	
208		89	71	
210		94	76	
212	Rc 3/4	99	81	

Any disassembly or alteration of the product will void the warranty.