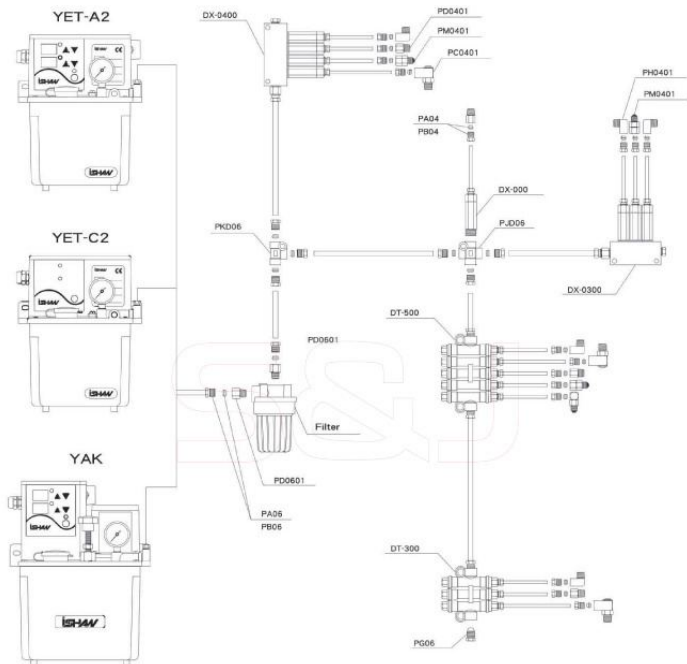


# PISTON LUBRICATION SYSTEM DIAGRAM



This diagram is available for piston lubrication system.

**The output volume standard is based on the current of 60Hz at 110V/220V.**

Remark : The intermittence of YET lubricator series should be 5 times longer than the lubrication time, and the set intermittence should more than 3 minutes. The oil viscosity is at the range of 30 ~ 150cSt at 40°C for YET series, and the range of 30 ~ 250cSt at 40°C for YA series.

# POSITIVE DISPLACEMENT INJECTION SYSTEM

The system includes DX/DT series distributors, and YET/YA series lubricators via customer's demands.

Features :

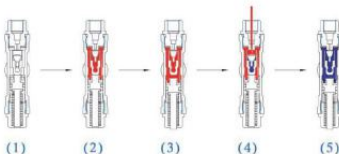
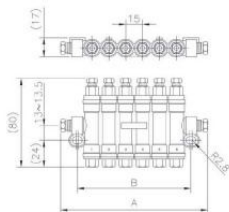
1. Lubricate at steady flow rate in every cycle.
2. The oil viscosity and lubrication time do not affect the flow rate.
3. The system needs to cooperate with the lubricators including pressure release devices.  
Pressure switch is recommended to be added.
4. The system is recommended to applied on the lubrication with higher requirement level.

## DT-SERIES OPERATION

1. Oil discharged from the pump pushes the mushroom valve upward.
2. As the mushroom valve plugs the outlet hole, the pressure pushes the piston downward.
3. The storage completes as the piston moves the bottom.
4. When the pumps stops, the pressure decreases and the piston recoils to bring the mushroom valve backward and plug the inlet hole. Oil discharges.
5. As the pump works, the previous cycle repeats.



Model	no. of output bores	A	B	Output Volume (cc/stroke)	Weight (g)
DT-200	2	75	39-43		168
DT-300	3	90	54-58	0.1 0.16	232
DT-400	4	105	69-73	0.2 0.3	299
DT-500	5	126	84-88	0.4 0.5	359
DT-600	6	135	99-103		426

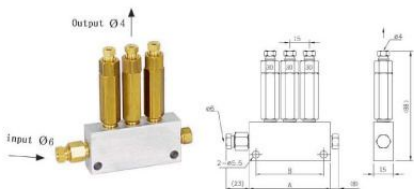


- (1). Before storage (pressurization begins)
- (2). Under storage (under pressurization)
- (3). Storage completes (pressurization completes)
- (4). Discharging (piston recoils)
- (5). Cycle repeats

Note: Because of continuous improvements, above specifications are subject to change without prior notice.

## PISTON DISTRIBUTORS

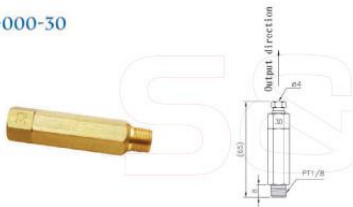
## DX-300



Model	no. of output bores	A	B	Output volume (cc/stroke)
DX-0100	1	32	22	0.02
DX-0200	2	47	37	0.06
DX-0300	3	62	52	0.1
DX-0400	4	77	67	0.16
DX-0500	5	92	82	0.2
DX-0600	6	107	97	0.3
DX-0700	7	122	112	0.4
DX-0800	8	137	127	0.5
DX-0900	9	152	142	

Special mode can be produced according to customer's request.

## DX-000-30



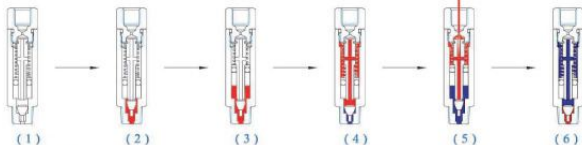
Model	no. of output bores	Output Volume (cc/stroke)
DX-000-02	02	0.02
DX-000-06	06	0.06
DX-000-10	10	0.1
DX-000-16	16	0.16
DX-000-20	20	0.2
DX-000-30	30	0.3
DX-000-40	40	0.4
DX-000-50	50	0.5

Special mode can be produced according to customer's request.

Note: Because of continuous improvements, above specifications are subject to change without prior notice.

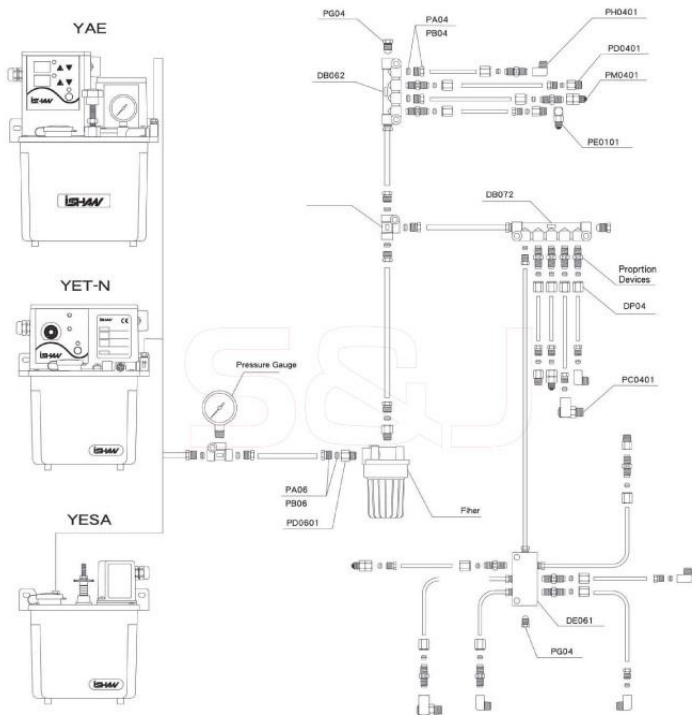
## DX-SERIES OPERATION

1. The initial condition of the distributor before pump starts is as the diagram 1.
2. Oil discharged from the pump pushes the mushroom valve upward.
3. As the mushroom valve plugs the center hole of the rod, the pressure pushes the piston downward.
4. When the pump stops, the pressure decreases and the piston recoils to cause the pressure of lower chamber to bring the mushroom valve backward and plug the inlet hole. The oil is pushed to the upper chamber through the hole of the rod. The discharging is ready.
5. As the pump works, the process 2 and 3 repeat to make the piston push the upper chamber to discharge.
6. When the pump stops, the distributor stays at the condition as the diagram 4.



- (1) Before the pump starts
- (2) Pump starts (pressurization begins)
- (3) Pump works (pressurization completes)
- (4) Pump stops (storage completes and piston recoils)
- (5) Pump works and pressurization completes (Discharging)
- (6) Pumps stops (Storage completes)

# RESISTANCE LUBRICATION SYSTEM DIAGRAM



This diagram is available for Presistance lubrication system. The output volume standard is based on the current of 60Hz at 110V/220V.

Remark : The intermittence of YET lubricator series should be 5 times longer than the lubrication time, and the set intermittence should more than 3 minutes. The oil viscosity is at the range of 30 ~ 150cSt at 40°C for YET series, and the range of 30 ~ 250cSt at 40°C for YA series.

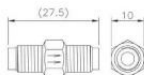
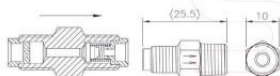
# RESISTANCE LUBRICATION SYSTEM

The system includes YML, YMT, YET, YAE, and YAC series lubricators via customer's demands.

Features :

1. Discharge at steady volume in every outlet.
2. Include check valves to prevent the reverse flow.
3. The oil viscosity, pressure, and temperature will affect the oil discharge volume.
4. Economical and reliable system.
5. The system is recommended to lower pressure application.
6. The system needs to incorporate with the resistance lubricators.

## PROPORTION DEVICES



Taiwanese Standards Table						
	Meter Unit		Control Unit		Simple Unit	
IN	M8X1.0	M8X1.0	M8X1.0	M8X1.0	M8X1.0	M8X1.0
OUT	M8X1.0	PT1/8	M8X1.0	PT1/8	M8X1.0	PT1/8
Flow Rate	DPB	DPS	DPV	DPT	DSS	DST
1	DPB-1	DPS-1	DPV-1	DPT-1	DSS-1	DST-1
2	DPB-2	DPS-2	DPV-2	DPT-2	DSS-2	DST-2
3	DPB-3	DPS-3	DPV-3	DPT-3	DSS-3	DST-3
4	DPB-4	DPS-4	DPV-4	DPT-4	DSS-4	DST-4
5	DPB-5	DPS-5	DPV-5	DPT-5	DSS-5	DST-5

European and American Standards Table						
	Meter Unit					
IN	5/16-24	5/16-24	1/8NPT	M8X1.0	M8X1.0	PT1/8
OUT	5/16-24	1/8NPT	1/8NPT	M8X1.0	PT1/8	PT1/8
Flow Rate	DSM	DCM	DTM	DSM-M	DCM-M	DTM-M
3/0	DSM-3/0	DCM-3/0	DTM-3/0			
00	DSM-00	DCM-00	DTM-00	DSM-00	DCM-00M	DTM-00M
0	DSM-0	DCM-0	DTM-0	DSM-0	DCM-0M	DTM-0M
1	DSM-1	DCM-1	DTM-1	DSM-1	DCM-1M	DTM-1M
2	DSM-2	DCM-2	DTM-2	DSM-2	DCM-2M	DTM-2M
3	DSM-3	DCM-3	DTM-3	DSM-3	DCM-3M	DTM-3M
4	DSM-4	DCM-4	DTM-4	DSM-4	DCM-4M	DTM-4M
5	DSM-5	DCM-5	DTM-5	DSM-5	DCM-5M	DTM-5M

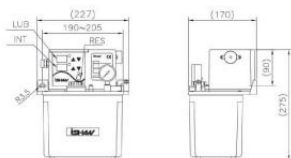
European and American Standards Table						
	Control Unit					
IN	5/16-24	5/16-24	1/8NPT	M8X1.0	M8X1.0	PT1/8
OUT	5/16-24	1/8NPT	1/8NPT	M8X1.0	PT1/8	PT1/8
Flow Rate	DSC	DCC	DTC	DSC-M	DCC-M	DTC-M
5/0	DSC-5/0	DCC-5/0	DTC-5/0			
4/0	DSC-4/0	DCC-4/0	DTC-4/0			
3/0	DSC-3/0	DCC-3/0	DTC-3/0			
00	DSC-00	DCC-00	DTC-00			
0	DSC-0	DCC-0	DTC-0			
1	DSC-1	DCC-1	DTC-1	DSC-1	DCC-1M	DTC-1M
2	DSC-2	DCC-2	DTC-2	DSC-2	DCC-2M	DTC-2M
3	DSC-3	DCC-3	DTC-3	DSC-3	DCC-3M	DTC-3M
4	DSC-4	DCC-4	DTC-4	DSC-4	DCC-4M	DTC-4M
5	DSC-5	DCC-5	DTC-5	DSC-5	DCC-5M	DTC-5M

1. Working pressure : 0.2~2Mpa(2~20kgf/cm<sup>2</sup>).
2. Oil viscosity(40°C) : 20~500cSt.
3. Flow rate : The flow will be multiplied via the serial number sequence.
4. Control unit must be used with continuous lubricators.
5. Weight: 11g

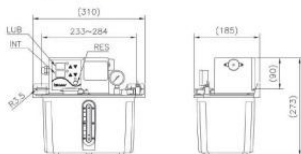
Note: Because of continuous improvements, above specifications are subject to change without prior notice.

# YET-A MICROCOMPUTER LUBRICATOR

## YET-A-3L



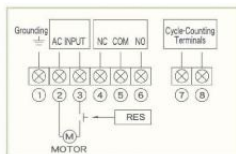
## YET-A-4L (Metal Tank)



## YET-A

- Three operation modes as,
  - Lubrication : The lubricator runs via lubrication time after power-on.
  - Intermittence : The lubricator runs via intermittent time after power-on.
  - Memory : The lubricator runs via the previous set after power-on.
- Lubrication and intermittent time can be adjusted.
- The float switch alarms and output signal when the oil level is low.
- The over temperature/load protector is attached to protect the motor.
- The function of fixed pressure for the pressure relief valve can prolong the system life
- Lubrication time (second/minute) and intermittent time (second/minute/hour/cycle) are adjustable.
- The indicator on the panel can display the operation of the lubricator.
- The intermittent period can be adjusted via the machine's action cycles.
- "RES" key can force the lubricator to function.

Model	YET-A2	YET-A2P2	YET-A1	YET-A1P1
System	Piston		Resistance	
Distributor	DI-series or DX-series		DB or DE or DV-series	
Voltage (Single Phase)	110V/60Hz or 220V/60Hz			
Consumption Power (W)	100			
Output Power (W)	11			
Capacity of Terminal Output (A)	3			
Lubrication time (second/minute)	1~999			
Intermittent Time (second/minute/hour/cycle)	1~999			
Output Bore	Ø4 or Ø6			
Max. Output Pressure MPa (kgf/cm <sup>2</sup> )	1.5 (15)		0.7 (7)	
Output Volume (cc/min)	150		200	
Pressure Release device	0		X	
Float Switch	0			
Pressure Switch (kgf/cm <sup>2</sup> )	X	12~9	X	2.5~1.9
Pressure Gauge	0			
Alarm Beeper	0			
Tank Capacity	3L		4L (Metal Tank)	
Weight (kg)	2.9		3.7	

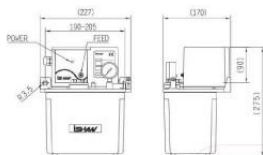


YET-A WIRING DIAGRAM

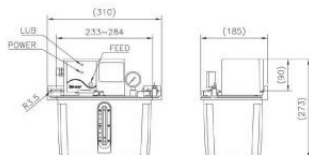
Note: Because of continuous improvements, above specifications are subject to change without prior notice.

# YET-C AUTOMATIC LUBRICATOR

## YET-C-3L



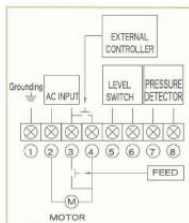
## YET-C-4L (Metal Tank)



## YET-C

1. The float switch alarms and output signal when the oil level is low
2. The over temperature/load protector is attached to protect the motor.
3. The function of fixed pressure for the pressure relief valve can prolong the system life.
4. The indicator on the panel can display the operation of the lubricator.
5. "Feed" key can force the lubricator to function. (cooperate with PLC control system).

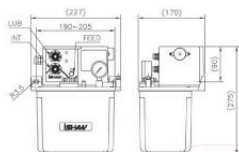
Model	YET-C2	YET-C2P2	YET-C1	YET-C1P1
System	Piston		Resistance	
Distributor	DT-series or DX-series		DB or DE or DV-series	
Voltage (Single Phase)	110V/60Hz or 220V/60Hz			
Consumption Power(W)	100		80	
Output Power (W)	11		8	
Capacity of Terminal Output (A)	0.3 (Float Switch) 3 (Pressure Switch)			
Lubrication time	Cooperate with PLC control system			
Intermittent Time	Cooperate with PLC control system			
Output Bore	Ø4 or Ø6			
Max. Output Pressure MPa (kgf/cm <sup>2</sup> )	1.5(15)		0.5(5)	
Output Volume (cc/min)	150		200	
Pressure Release device	○		×	
Float Switch	○ (NC)			
Pressure Switch (kgf/cm <sup>2</sup> )	×	12-9	×	2.5-1.9
Pressure Gauge	○			
Alarm Beeper	×			
Tank Capacity	3L		4L (Metal Tank)	
Weight (kg)	2.8		3.5	



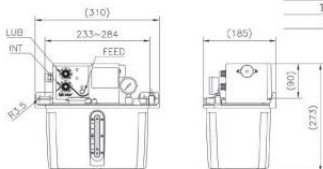
YET-C WIRING DIAGRAM

Note: Because of continuous improvements, above specifications are subject to change without prior notice.

## YET-R-3L



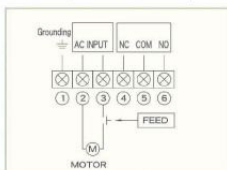
## YET-R-4L (Metal Tank)



## YET-R

- Two operation modes as,
  - (a) Lubrication : The lubricator runs via lubrication time after power-on.
  - (b) Intermittence : The lubricator runs via intermittent time after power-on.
- Lubrication time and intermittent time are adjustable.
- The float switch alarms and output signal when the oil level is low.
- The over temperature/load protector is attached to protect the motor.
- The function of fixed pressure for the pressure relief valve can prolong the system life.
- The indicator on the panel can display the operation of the lubricator.
- "Feed" key can force the lubricator to function.

Model	YET-R2	YET-R1
System	Piston	Resistance
Distributor	DI-series or DX-series	DE or DE or DV-series
Voltage (Single Phase)	110V/60Hz or 220V/60Hz	
Consumption Power (W)	100	80
Output Power (W)	11	8
Capacity of Terminal Output (A)		3
Lubrication time(second)		1-180
Intermittent Time (minute)		1-180
Output Bore		Ø4 or Ø6
Max. Output Pressure MPa (kgf/cm <sup>2</sup> )	1.5 (15)	0.5 (5)
Output Volume (cc/min)	150	200
Pressure Release device	○	×
Float Switch	○	○
Pressure Switch (kgf/cm <sup>2</sup> )	×	×
Pressure Gauge		○
Alarm Beeper		○
Tank Capacity	3L	4L (Metal Tank)
Weight (kg)	2.9	3.6



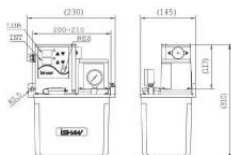
YET-R WIRING DIAGRAM

Note: Because of continuous improvements, above specifications are subject to change without prior notice.

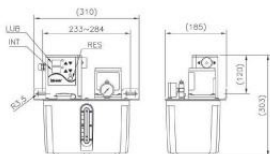


# YAK/ YAE AUTOMATIC LUBRICATOR

## YAK/ YAE-3L



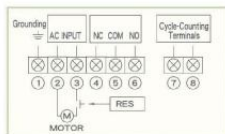
## YAK/ YAE-4L (Metal Tank)



## YAK/ YAE

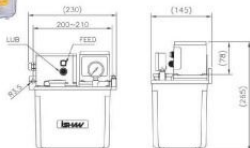
1. With temperature protection device for long term operation.
2. Three operation modes as,
  - (a) Lubrication : The lubricator runs via lubrication time after power-on.
  - (b) Intermittence : The lubricator runs via intermittent time after power-on.
  - (c) Memory : The lubricator runs via the previous set after power-on.
3. Lubrication and intermittent time can be adjusted.
4. The float switch alarms and output signal when the oil level is low.
5. The function of fixed pressure for the pressure relief valve can prolong the system life.
6. Lubrication time (second/minute) and intermittent time (second/minute/hour/cycle) are adjustable.
7. The indicator on the panel can display the operation of the lubricator.
8. The intermittent period can be adjusted via the machine's action cycles.
9. "RES" key can force the lubricator to function.
10. The motor is of long-time operation.

Model	YAK	YAE
System	Piston	Resistance
Distributor	DT-series or DX-series	DB or DE or DV-series
Voltage (Single Phase)	110V/60Hz or 220V/60Hz	
Consumption Power (W)	56	
Output Power (W)	25	
Capacity of Terminal Output(A)	3	
Lubrication time(second/minute)	1-999	
Intermittent Time (second/minute/hour/cycle)	1-999	
Output Bore	∅ 4 or ∅ 6	
Max. Output Pressure MPa (kgf/cm <sup>2</sup> )	2(20)	1(10)
Output Volume (cc/min)	150	150(Standard) 250(Optional) or 400(Optional)
Pressure Release device	0	X
Float Switch	0	0
Pressure Switch (kgf/cm <sup>2</sup> )	X (Option)	X (Option)
Pressure Gauge	0	
Alarm Buzzer	0	
Tank Capacity	3L	4L (Metal Tank) 8L 20L
Weight (kg)	3.5	5.2 9.4 18

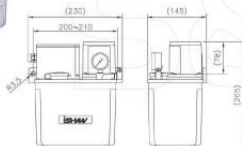


YAK/ YAE WIRING DIAGRAM

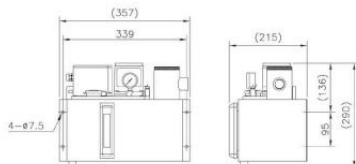
## YAJ-3L



## YAC-3L



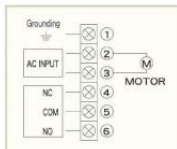
## YAC-8H



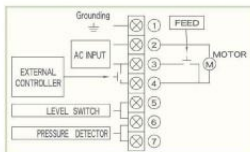
## YAJ/YAC

1. With temperature protection device for long term operation.
2. The float switch output signal when the oil level is low.
3. The indicator on the panel can display the operation of the lubricator. (YAJ only)
4. The motor is of long-time operation.
5. The function of fixed pressure for the pressure relief valve can prolong the system life.
6. "Feed" key can force the lubrication to function. (cooperate with PLC control system). (YAJ only)

Model	YAJ	YAC
System	Piston	Resistance
Distributor	DI-series or DX-series	DB or DE or DV-series
Voltage (Single Phase)	110V/60Hz or 220V/60Hz	
Consumption Power (W)	56	
Output Power (W)	25	
Capacity of Terminal Output (V)	0.3 (Float Switch) 3 (Pressure Switch)	0.3 (Float Switch)
Lubrication time	Cooperate with PLC control system	
Intermittent Time	Cooperate with PLC control system	
Output Bore	Ø4 or Ø6	
Max. Output Pressure MPa (kgf/cm <sup>2</sup> )	2 (20)	1 (10)
Output Volume (cc/min)	150	250 (Standard) 400 (Option)
Pressure Release device	○	×
Float Switch	○	○
Pressure Switch (kgf/cm <sup>2</sup> )	X (Option)	X (Option)
Pressure Gauge	○	○
Alarm Beeper	○	×
Tank Capacity	3L	4L (Metal Tank) 8L
Height (kg)	4.5	5.2 9.4



YAC WIRING DIAGRAM

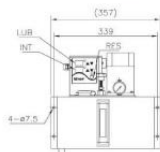


YAJ WIRING DIAGRAM

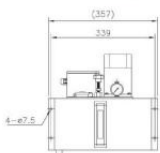
Note: Because of continuous improvements, above specifications are subject to change without prior notice.

# YAP YAH(90W) AUTOMATIC LUBRICATOR

## YAP-8L



## YAH-8L

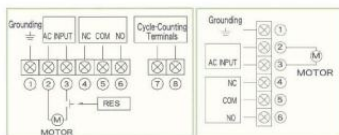


## YAP

1. With temperature protection device for long term operation.
2. Three operation modes as,  
(a) Lubrication : The lubricator runs via lubrication time after power-on.  
(b) Intermittence : The lubricator runs via intermittent time after power-on.  
(c) Memory : The lubricator runs via the previous set after power-on.
3. Lubrication and intermittent time can be adjusted.
4. The float switch alarms and output signal when the oil level is low.
5. The function of fixed pressure for the pressure relief valve can prolong the system life.
6. Lubrication time (second/minute) and intermittent time (second/minute/hour/cycle) are adjustable.
7. The indicator on the panel can display the operation of the lubricator.
8. The intermittent period can be adjusted via the machine's action cycles.
9. "RES" key can force the lubricator to function.
10. Cooperate with distributors of resistance lubricator and proportion devices.

## YAH

1. With temperature protection device for long term operation.
2. The float switch output signal when the oil level is low.
3. The function of fixed pressure for the pressure relief valve can prolong the system life.
4. The motor is of long-time operation.



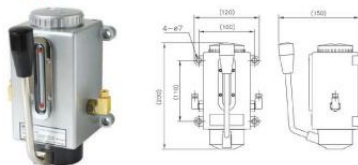
YAP WIRING DIAGRAM

YAH WIRING DIAGRAM

Model	YAP	YAH
System	Resistance	
Distributor	DB or DE or DV-series	
Voltage (Single Phase)	110V/60Hz or 220V/60Hz	
Consumption Power (W)	210	210
Output Power (W)	90	90
Capacity of Terminal Output (A)	3	0.3 (Float switch) 3 (Pressure Switch)
Lubrication time (second/minute)	1-999	Cooperate with PLC control system
Intermittent Time (second/minute/hour/cycle)	1-999	Cooperate with PLC control system
Output Bore	Ø4 or Ø6	Ø4 or Ø6
Max. Output Pressure Mpa (kgf/cm <sup>2</sup> )	3 (30)	3 (30)
Output Volume (cc/min)	600	600
Float Switch	O	O(NC)
Pressure Release Devices	X (Option)	X (Option)
Pressure Switch (kgf/cm <sup>2</sup> )	X (Option)	X (Option)
Pressure Gauge	O	O
Alarm Beeper	O	X
Tank Capacity (L)	8	8
Weight (kg)	10	9.5

## YML ROCK TYPE OILER

### YML



#### Features :

- 1 Compact size for installation
2. Easy operation.
3. Include check valves to prevent the reverse flow.
4. The system is recommended to applied to easier machinery system with the lubrication of lower requirement level
5. Oil viscosity(40°C) : 20~150cSt.

## YMT PULL TYPE OILER

### YMT-8 (Left) YMT-8 (Right)



Model	YML-8	YMT-8
Output Volume (cc/cy)	8	8
Max. output Pressure Mpa (kgf/cm <sup>2</sup> )	1.5(15)	5(Average)
Tank Capacity (cc)	600	600
Effective Capacity (cc)	450	550
Output Bore	Ø4 or Ø6	Ø4
Direction of Bore	Left or Right	Upward or Downward
Weight (kg)	1.4	0.9

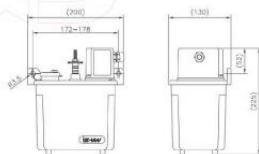
## YESA/ YESB AUTOMATIC MANUAL TYPE LUBRICATOR



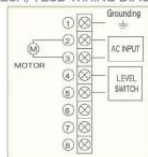
**YESA**  
Without Float Switch



**YESB**  
With Float Switch



#### YESA/YESB WIRING DIAGRAM



#### Features :

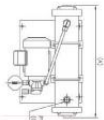
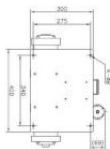
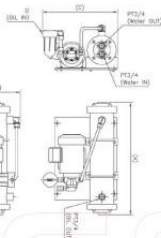
1. The float switch output signal when the oil level is low.
2. Intermittent time can be set before delivery.

Model	System	Intermittent time (min)	Voltage (Single Phase)	Consumption Power (W)	Capacity of Terminal Output (A)	Output bore	Float switch	Discharge Pressure Mpa (kgf/cm <sup>2</sup> )	Output volume (cc/cy)	Tank capacity (L)	Weight (kg)
YESA	Resistance	3/5/10/15/30/60 (No Adjustment)	110V/60Hz or 220V/60Hz	5	—	Ø4 or Ø6	—	0.3(3)	3-6	2	1.5
YESB	Resistance	3/5/10/15/30/60 (No Adjustment)	110V/60Hz or 220V/60Hz	5	0.3(float switch)	Ø4 or Ø6	0	0.3(3)	3-6	2	1.5

Note: Because of continuous improvements, above specifications are subject to change without prior notice.

# COOLING CYCLE LUBRICATION SYSTEM

## YLC



## YLC COOLING CYCLE LUBRICATOR

1. Equip a powerful cyclic device to achieve cooling.
2. YLC can be revised via customer's demand.
3. YLC is available to incorporate with TOP pump.
4. Simple and reliable structure with effective cooling.
5. Filter is Included to ensure oil quality.

Model	YLC
Voltage	110V/220V (Single Phase)
	220V/ 380V (Three Phase)
	220V/ 440V (Three Phase)
Max. Output Pressure Mpa (kgf/cm <sup>2</sup> )	0.5 (5)
Output Volume (L/min)	2.7
	4.5
	6.3
Cooling Water Input Volume (L/min)	50 (Standard) 100 (Option)
Output Bore	PT3/4

Model	YLC					
Output Volume (L/min)	2.7	4.5	6.3	2.7	4.5	6.3
D	PS1/4	PS1/4	PS3/8	PS1/4	PS1/4	PS3/8
Max. Water Input Volume (L/min)	50			100		
A	465			540		
B	198			223		
C	327			359		

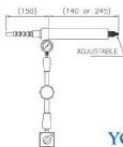
# YCM LOW TEMPERATURE COOLING SPEAR



YCM-01



YCM-02



YCM-03

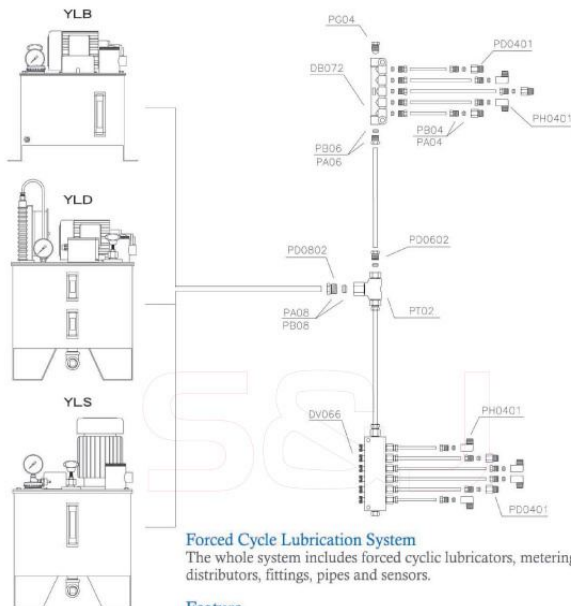
## YCM

1. Only compressed air is needed (refrigerant or power is not needed).
2. Cooling air volume and temperature are adjustable.
3. Simple and reliable structure.
4. Device is set on the hot air exit to reduce the noise.
5. Include air inlet switch.
6. No electrical or chemical action.
7. Effective cooling performance.
8. Air exit direction is adjustable.
9. Universal Nozzle is equipped in the air exit.
10. Magnetic stand is optional.
11. Prolong the tool life in machining.
12. Apply for various cooling demands.

Model	YCM-01	YCM-02	YCM-03
Output Bore	Internal Thread PS1/4 (with Universal Nozzle)		
Input Air Pressure Mpa (kgf/cm <sup>2</sup> )	0.4 (4)		
Connector Type	Quick Connector (Male Type)		
Input Air Switch	O	O	O
Pressure Gauge	O	O	O
Stand	—	Magnetic Stand	Universal Hydraulic Magnetic Stand
Weight (Kg)	0.5	1.8	2.4

Test Result		
Rate of Cool Wind	%	50
Inlet Temperature (30°C)	Pressure Mpa (kgf/cm <sup>2</sup> )	0.44 (4.4)
	Air Volume (L/min)	149
	Air Volume (L/min)	88
Outlet	Temperature (°C)	-25
	Different Temperature (°C)	55
Inlet / Outlet	Temperature (°C)	51.7
Quantity of Heat	kcal/h	66

# FORCED CYCLE LUBRICATION SYSTEM DIAGRAM



## Forced Cycle Lubrication System

The whole system includes forced cyclic lubricators, metering distributors, fittings, pipes and sensors.

### Feature

- 1.Oil can be recycled after lubrication process
- 2.Include cycling device and filter to ensure oil quality
- 3.Include pressure valve and pressure gauge for adjustment
- 4.The float outputs signal when the oil level is low.

### Remark

The system cooperates with DV-series distributors and DB-series distributors.

### Installation

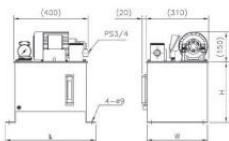
- 1.Clear-cut pipes are necessary to prevent the leakage.
- 2.Pipes needs inside cleanness for installation.
- 3.Clean oil of viscosity 30-150cSt at 40°C with high quality is recommended.
- 4.Temperature range is 0-50°C.

### Lubricators

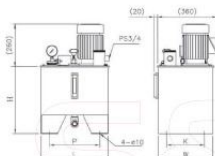
YLB, YLS, and YLD

Note: Because of continuous improvements, above specifications are subject to change without prior notice.

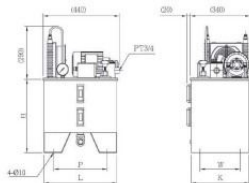
## YLB-20H



## YLS-30H



## YLD-30H



## YLB YLS

1. YLS includes pressure switch to ensure the normal function.
2. Oil can be recycled after lubrication process.
3. Include pressure valve and pressure gauge for adjustment.
4. The float switch outputs signal when the oil level is low.
5. Include cycling device and filter to ensure oil quality.

## YLD

1. Oil can be recycled after lubrication process.
2. Include cycling device and filter to ensure oil quality.
3. Include cooling device to lower the oil temperature.
4. The float switch outputs signal when the oil level is low.
5. Include pressure valve and pressure gauge for adjustment.

YLB Tank Dim	LxWxH	YLS Tank Dim	LxWxH	P	K
20L	444x297x298	30L	410x335x400	300	225
30L	410x335x400	40L	560x410x400	455	300
40L	560x410x400	60L	600x390x400	440	250
60L	600x390x400	80L	610x420x460	450	250
80L	610x420x460	100L	760x460x500	550	225

Model	YLB(Horizontal)	YLS(Vertical)	YLD
Voltage (Three Phase)	220V/380V 220V/440V	220V/380V 220V/440V	220V/380V 220V/440V
Power (HP)	1/4	1/2	1/4
Capacity of Terminal Output (A)	0.3(Float switch)	0.3(Float switch) 3(Pressure switch)	0.3(Float switch) 3(Pressure switch)
Pole	4	4	4
Current Frequency (Hz)	50/60	50/60	50/60
Max. Output Pressure Mpa (kgf/cm <sup>2</sup> )	0.5 (5)	1.5 (15)	0.5 (5)
Output Volume (l/min) at Ø10	2.7 (TOP-11A) 4.0 (TOP-12A) 5.2 (TOP-13A)	-----	2.3 (TOP-11A) 3.4 (TOP-12A) 4.0 (TOP-13A)
Output Volume (l/min) at Ø8	-----	0.96 or 2.4	-----
Float Switch	O	O	O
Pressure Switch (kgf/cm <sup>2</sup> )	X (Option)	O	O
Pressure Gauge	O	O	O
Output Bore	Ø6 or Ø8 or Ø10	Ø6 or Ø8 or Ø10	Ø6 or Ø8 or Ø10
Alarm Buzzer	X	X	X
Tank Capacity (L)	20 30 40 60 80	30 40 60 80 100	30 40

Note: Because of continuous improvements, above specifications are subject to change without prior notice.

1. Metal tank of other capacity can be tailored.
2. Recommended oil viscosity range is 30-150cSt.
3. The output volume is based on 60Hz.

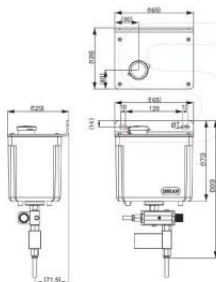
# SPRAY MIST LUBRICATOR

## SSP-MT1 MICRO VOLUME SPRAY MIST LUBRICATOR

### SSP-MT1



1. Lubricant micro output reaches 0.03 c.c./cy
2. Cost reduction via the low consumption of lubricant during cutting process.
3. Enhance the productivity and prolong the tool life.
4. Environment friendly via the low consumption of lubricant during cutting process.
5. Improve the precision of cutting process
6. Air/ Fluid Separation Filter is a MUST.
7. The filtration below  $0.3\mu$  is recommended to prolong the system life.
8. The recommended Input Air Pressure is  $4.0 \text{ kgf/cm}^2$ .
9. The venting holes of muffler and pneumatic timer need to be away from oil and clean.
10. It is recommended to vent at the first usage of the system by loosening both venting screws.



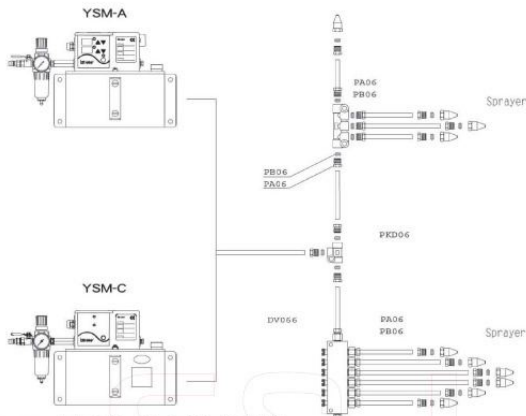
Model	SSP-MT1-2L
Input Air Pressure Range	3 ~ 8 kgf/cm <sup>2</sup>
Output Volume Range	0.003 ~ 0.03 c.c./cy
Output Volume Adjust Step	0.0005 c.c. <b>Note:</b> may change via the input air pressure and lubricant viscosity
Longest Adjustable Time (under the Input Air Pressure of $4 \text{ kgf/cm}^2$ )	20.0 Sec.
Tank Capacity	2.0 Liter
Output Bore	PT1/8
Recommended Viscosity Range	10~68 cSt
No. of Mist	1~3



Note: Because of continuous improvements, above specifications are subject to change without prior notice.



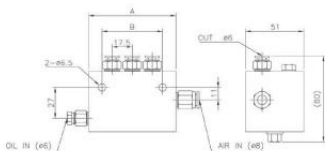
## SPRAY MIST LUBRICATION SYSTEM



Note: The recommended oil viscosity is 1-68 cSt at 40°C.

## SD SPRAY MIST

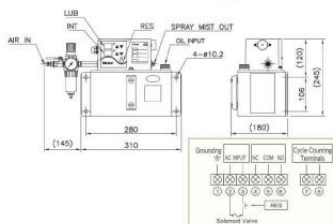
When the piston lubricator delivers oil into the inlet, and the air is delivered from the inlet of the other side. The oil becomes mist and sprays on the surface of work piece to achieve cooling and lubrication. The Spray mist distributor should incorporate with piston lubricators than spray mist lubricators. The requires working pressure is 3 kgf/cm<sup>2</sup>.



Model	Outlet	A	B	Output Volume (cc/stroke)
SD-1	1	41.5	18	0.1 0.16 0.2 0.3
SD-2	2	59	35.5	
SD-3	3	76.5	53	
SD-4	4	94	70.5	
SD-5	5	111.5	88	

# YSM-A MICROCOMPUTER SPRAY MIST LUBRICATOR

## YSM-A



YSM-A WIRING DIAGRAM

- Three operation modes as,
  - Lubrication : The lubricator runs via lubrication time after power-on.
  - Intermittence : The lubricator runs via intermittent time after power-on.
  - Memory : The lubricator runs via the previous set after power-on.
- Lubrication and intermittent time can be adjusted. The minimum unit of lubrication is 0.1 second.
- The float switch alarms and outputs signal when the oil level is low.
- The indicator on the panel can display the operation of the lubricator.
- The intermittent period can be adjusted via the machine action cycles.
- The cooling, lubrication, and cleaning during machining can be completed at the same time.
- The oil volume in air can be adjusted.
- High cooling efficiency.
- YSM-A is suitable for high-speed and high-precision machining.
- The required air capacity is 31L/min for maintaining the working pressure of 0.3 Mpa (3 kgf/cm<sup>2</sup>).

Type	Lubrication Time (0.1sec)	Intermittent Time (sec./min./hr)	Voltage (Single phase)	Capacity of terminal Output (A)	Output Bore	Air Pressure Range Mpa (kgf/cm <sup>2</sup> )	Spray Particle Size	Alarm Beeper	Float Switch	Tank Capacity (L)	Weight (kg)
YSM-A	1-999	1-999	110V or 220V	3	Ø6	0.3-0.5 (3-5)	4-10µm	○	○	4	10.1

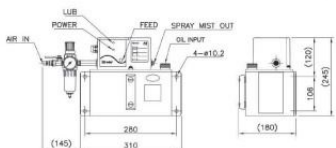
## YSM-C

### AUTOMATIC SPRAY MIST LUBRICATOR

## YSM-C

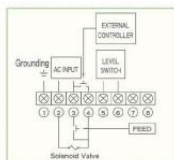


Cooperate with PLC control system



## YSM-C

- The float switch outputs signal when the oil level is low.
- The indicator on the panel can display the operation of the lubricator.
- The cooling, lubrication, and cleaning during machining can be completed at the same time.
- The oil volume in air can be adjusted.
- High cooling efficiency
- YSM-A is suitable for high-speed and high-precision machining



YSM-C WIRING DIAGRAM

Type	Lubrication Time	Intermittent Time	Voltage (Single phase)	Capacity of terminal Output (A)	Output Bore	Air Pressure Range Mpa (kgf/cm <sup>2</sup> )	Spray Particle Size	Alarm Beeper	Float Switch	Tank Capacity (L)	Weight (kg)
YSM-C	Cooperate with PLC control system		110V or 220V	0.3(Float Switch)	Ø6	0.3-0.5 (3-5)	4-10µm	X	○(NC)	4	10.1

Note: Because of continuous improvements, above specifications are subject to change without prior notice.

## YSC-U MULTI- FUNCTIONAL OIL MIST NOZZLE

### Feature

YSC-U provides oil and air mist to lubricate and clean piece, tool, and spindle during machining to prolong the tool life in enhance productivity.

- 1.The cooling, lubrication, and cleaning during machining can be completed at the same time.
- 2.Enhance machining speed to save time and cost.
- 3.Achieve fine and precise machining for alloy and hard metal.
- 4.Prevent leakage to prolong the life.
- 5.Provide various mounting for different accessories.

### Application

To applied on machineries like, lathes, drilling machines, milling machines, grinding machines, topping machines, CNC machines, pressing machines, and conveyors.

### Remark

- 1.Clean oil is a must.
- 2.Corrosive oil is prohibited.
- 3.Compressed air pressure: 0.25Mpa (2.5 kgf/cm<sup>2</sup>).
- 4.Viscosity 0~68cSt.

### YSC oil consumption test results,

liquid	Consumption cc/min
Water	16
Oil (R32)	7

Based on the max. Output pressure 0.4 Mpa (4kgf/cm<sup>2</sup>)



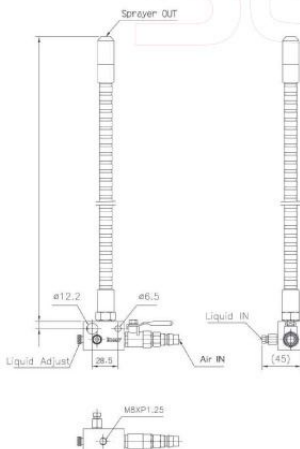
YSC-U-1



YSC-U-2



YSC-U-3



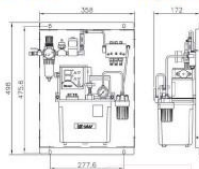
## YSD PISTON RATIONING SPRAY MIST LUBRICATOR



YSD-AN



YSD-CN



### YSD

- 1.The oil storage display indicates the capacity status
- 2.Include the ball cock to isolate the air inlet
- 3.Equip with the water filter for the air inlet
- 4.Equip with pressure switch for the air inlet
- 5.Independently adjustable air pressure for each outlet
- 6.Air directional device ensures the air flow in one direction
- 7.Equip with pressure gauge on the air inlet and lubricator to detect the function
- 8.Equip with three filters to ensure oil quality
- 9.Steady oil volume in lubrication
- 10.The air inlet is controlled by solenoid.
- 11.Equip float switch to detect oil level.
- 12.Viscosity: 30~68cSt
- 13.Lubrication Time: 1~2 cy/min
- 14.Compressed air pressure: 0.4~0.7 Mpa(4~7 kgf/cm<sup>2</sup>)

Model	Lubrication Time (second/minute)	Intermittent Time (second/minute/hour/cycle)	Voltage(Single Phase)	Tank Capacity(L)	Output Volume (cc/cy)	Number of Outlet
YSD-AN	1-999	1-999	110V or 220V	3	0.1or0.16 0.2or0.3	1-5 (Ø4)
YSD-CN	cooperate with PLC control system					

## YSV CONTINUOUS REGULATING SPRAY MIST LUBRICATOR



YSV-AN



YSV-CN

### YSV

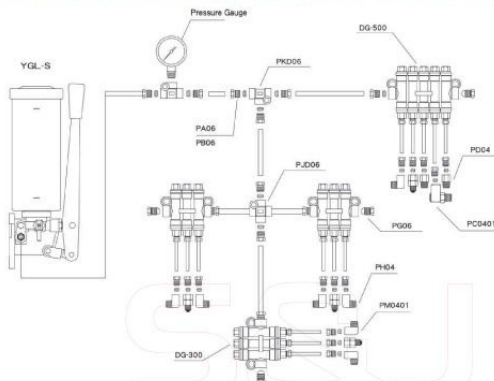
- 1.The mist and cooling are regulated by electric-magnetic valve.
- 2.Include the ball cock to isolate the air inlet.
- 3.Equip with the water filter, drainage device on the air inlet.
- 4.Equip with pressure gauge on the air inlet and lubricator to detect the function.
- 5.Equip with three filters to ensure oil quality.
- 6.Viscosity: 30~68cSt.
- 7.Compressed air pressure:0.3~0.5 Mpa(3~5 kgf/cm<sup>2</sup>)

Model	Lubrication Time (second/minute)	Intermittent Time (second/minute/hour/cycle)	Voltage(Single Phase)	Tank Capacity (L)	Output Volume (cc/min)	Number of Outlet
YSV-AN	1-999	1-999	110V or 220V	3	50	2-5 (Ø4)
YSV-CN	cooperate with PLC control system					

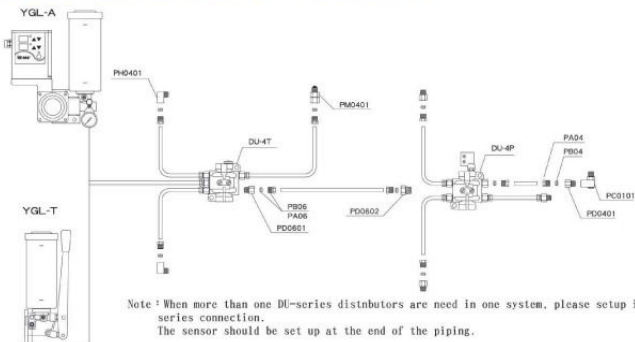
Note: Because of continuous improvements, above specifications are subject to change without prior notice.

1. Only No.0 or No.00
2. Only clean grease
3. Only use grease gun to refill. It is prohibited to refill from the top of the cup

## PISTON GREASE LUBRICATION SYSTEM DIAGRAM



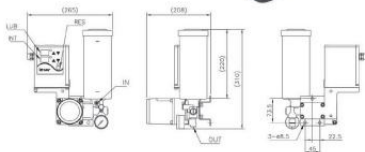
## RESISTANCE GREASE LUBRICATION SYSTEM DIAGRAM



# YGL MICROCOMPUTER GREASE LUBRICATOR

ISHAN

## YGL-A08

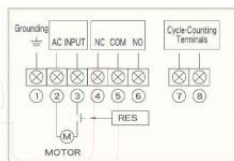


## YGL-R08



## YGL-A

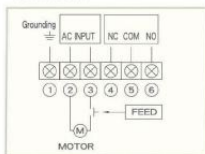
- Three operation modes as,
  - (a) Lubrication : The lubricator runs via lubrication time after power-on.
  - (b) Intermittence : The lubricator runs via intermittent time after power-on.
  - (c) Memory : The lubricator runs via the previous set after power-on.
- Lubrication and intermittent time can be adjusted.
- The indicator on the panel can display the operation of the lubricator.
- The function of fixed pressure for the pressure relief valve can prolong the system life.
- Lubrication time (second) and intermittent time (minute/hour/cycle) are adjustable.
- "RES" key can force the lubricator to function.



YGL-A WIRING DIAGRAM

## YGL-R

- Two operation modes as,
  - (a) Lubrication : The lubricator runs via lubrication time after power-on.
  - (b) Intermittence : The lubricator runs via intermittent time after power-on.
- Lubrication and intermittent time can be adjusted.
- The indicator on the panel can display the operation of the lubricator.
- The function of fixed pressure for the pressure relief valve can prolong the system life.
- "FEED" key can force the lubricator to function.



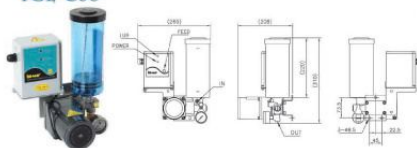
YGL-R WIRING DIAGRAM

Model	YGL-A		YGL-R
Voltage (Single Phase)	110V or 220V	DC24	110V or 220V
Consumption Power (W)	56	75	56
Output Power (W)	25	28	25
Capacity of Terminal Output (A)	3		3
Lubrication time (second)	1-999		1-180
Intermittent Time	1-999 (minute/hour/cycle)		1-180 (minute)
Output Bore	PT1/4		
Max. Output Pressure Mpa(kg/cm <sup>2</sup> )	8-10 (80-100)		8-10 (80-100)
Output Volume (cc/min)	Above 13		Above 13
Pressure Gauge	O		
Cup Capacity (cc)	800	1200	2000 400 (tube type)
Weight (kg)	3.7	4.6	5.0 5.2 (Extruder not included)

Note: Because of continuous improvements, above specifications are subject to change without prior notice.

# YGL-C YGL-D AUTOMATIC GREASE LUBRICATOR

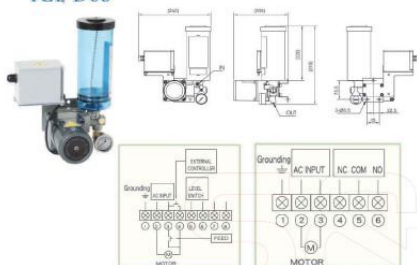
YGL-C08



YGL-C

1. The indicator on the panel can display the operation of the lubricator.
2. The function of fixed pressure for the pressure relief valve can prolong the system life.
3. "FEED" key can force the lubricator to function.
4. The motor is of long-time operation.

YGL-D08



YGL-C WIRING DIAGRAM YGL-D WIRING DIAGRAM

Model	YGL-C	YGL-D
Voltage (Single Phase)	110V	220V
Consumption Power	56	56
Output Power (W)	25	25
Lubrication time	Cooperate with PLC control system	
Intermittent Time	Cooperate with PLC control system	
Output Bore	PT1/4	
Max. Output Pressure Mpa (kgf/cm <sup>2</sup> )	8-10 (80-100)	
Output Volume (cc/min)	Above 13	
Pressure Gauge	0	
Cup Capacity (cc)	800	1200
Weight (kg)	3.6	4.4

# YGL-T YGL-S MANUAL GREASE LUBRICATOR

YGL-T



YGL-S04 (Tube Type)



YGL-T YGL-S

1. Include double sealing device. The grease chunk will not be stocked in the cup.
2. The grease residue will not remain in the cup.
3. The output bore can be right or left via installation demand.
4. Refill by manual or electrical grease guns.
5. Include manual pressure release device. (YGL-S only)
6. YGL-S incorporates with piston grease distributor.

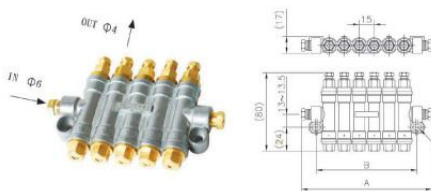
YGL-T04 YGL-S04 (TUBE TYPE)

1. ISHAN #0 grease cartridge is recommended.
2. Grease refilling is convenient by replacing the new cartridge directly.
3. Cartridge cover can prevent damage.
4. Easy to set up on machines.



Model	YGL-T Resistance Lubricator	YGL-S Piston Lubricator
Max. Output Pressure Mpa (kgf/cm <sup>2</sup> )	10 (100)	
Output Volume (cc/cycle)	2	
Output Bore	Ø6	
Cup Capacity (cc)	800	1200
Weight (kg)	1.9	2.2





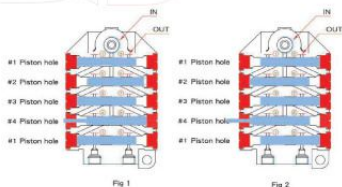
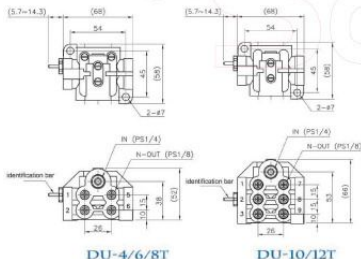
Model	Number of Outlet	A	B	Output Volume (cc/stroke)	Weight (g)
DG-200	2	75	39-43	0.3	168
DG-300	3	90	54-58		232
DG-400	4	105	69-73	0.5	299
DG-500	5	120	84-88		359
DG-600	6	135	99-103		426

## DU-SERIES GREASE DISTRIBUTOR



Model	Number of Outlet (N)	Output Volume (cc/stroke)	Max. Output Pressure Mpa (kgf/cm <sup>2</sup> )	Weight (g)
DU-4T	4	0.33	15 (150)	350
DU-6T	6			350
DU-8T	8			320
DU-10T	10			440
DU-12T	12			440

Note: 1. Motion Detection Switch is available for option.  
2. Odd Number of Outlet is available for option.



## DU-SERIES OPERATION

As grease passes IN, each piston balances at the position as Diagram 1.

The grease continuously pushes the left side of No.3 piston hole and pushes piston 3-7 rightward to discharge grease in No.6 outlet. The inclined right-sided holes of the closed No.3 piston hole and No.4 piston hole connect, and the inclined left-sided hole of No.4 piston hole connects the No.3 outlet.

The grease continuously pushes the right side of No.4 piston hole and pushes piston 4-8 leftward to discharge grease in No.3 outlet. The inclined left-sided holes of the closed No.4 piston hole and No.1 piston hole connect, and the inclined right-sided hole of No.1 piston hole connects the No.8 outlet.

The grease continuously pushes the left side of No.1 piston hole and pushes piston 1-5 rightward to discharge grease in No.8 outlet. The inclined left-sided holes of the closed No.1 piston hole and No.2 piston hole connect, and the inclined left-sided hole of No.2 piston hole connects the No.1 outlet.

The grease continuously pushes the right side of No.2-6 piston hole and pushes piston leftward to discharge grease in No.1 outlet. The first half of the discharging completes, and the final position is as Diagram 2. The second half cycle is almost the same.

Note: Please DO NOT plug either outlet on purpose.  
The distributor CAN NOT operate at this condition.

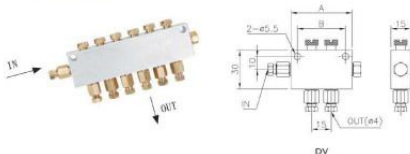
Note: Because of continuous improvements, above specifications are subject to change without prior notice.



# METERING FOR PROGRESSIVE SYSTEM

# ISHAN

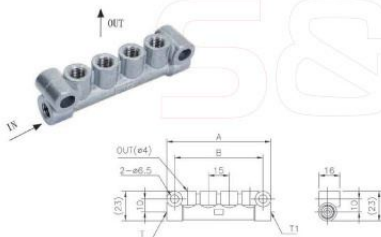
## DV-SERIES OIL REGULATING DISTRIBUTOR DV06(SET)



\*Option of the Ø6 outlet is available.

Model	Inlet Bore	Number of Outlet	A	B	Weight(g)
DV024	Ø4	2	47	37	101
DV026	Ø6				
DV034	Ø4	3	62	52	131
DV036	Ø6				
DV044	Ø4	4	77	67	165
DV046	Ø6				
DV054	Ø4	5	92	82	194
DV056	Ø6				
DV064	Ø4	6	107	97	228
DV066	Ø6				
DV074	Ø4	7	122	112	255
DV076	Ø6				
DV084	Ø4	8	137	127	290
DV086	Ø6				
DV094	Ø4	9	152	142	321
DV096	Ø6				
DV104	Ø4	10	167	157	355
DV106	Ø6				

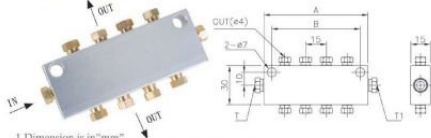
## DB-SERIES OIL DISTRIBUTOR DB06(PCS)



\*Option of the Ø6 outlet is available.

Model	T/T1	Number of Outlet	A	B	Weight(g)
DB041	Ø4/Ø4	2	48	35-36	59
DB042	Ø4/Ø6				
DB043	Ø6/Ø6	3	64	52	76
DB051	Ø4/Ø4				
DB052	Ø4/Ø6	4	80	68	96
DB053	Ø6/Ø6				
DB061	Ø4/Ø4	5	96	84	113
DB062	Ø4/Ø6				
DB063	Ø6/Ø6	6	112	95-100	135
DB071	Ø4/Ø4				
DB072	Ø4/Ø6	7	128	116	145
DB073	Ø6/Ø6				
DB081	Ø4/Ø4	8	144	132	164
DB082	Ø4/Ø6				
DB083	Ø6/Ø6	10	176	164	201
DB091	Ø4/Ø4				
DB092	Ø4/Ø6	10	176	164	201
DB093	Ø6/Ø6				
DB101	Ø4/Ø4	8	144	132	164
DB102	Ø4/Ø6				
DB103	Ø6/Ø6	10	176	164	201
DB121	Ø4/Ø4				
DB122	Ø4/Ø6	10	176	164	201
DB123	Ø6/Ø6				

## DE-SERIES OIL DISTRIBUTOR DE08(SET)



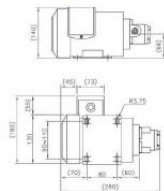
- 1.Dimension is in "mm".
- 2.The distributor by "set" includes the distributor body, compression sleeve, and compression bushing.
- 3.The distributor by "pcs" includes the distributor body only.

\*Option of the Ø6 outlet is available.

Model	T/T1	Inlet Bore	A	B	Weight(g)
DE041	Ø4/Ø4	4	48	36	70
DE042	Ø6/Ø4				
DE043	Ø6/Ø6	6	64	52	92
DE061	Ø4/Ø4				
DE062	Ø6/Ø4	8	80	68	116
DE063	Ø6/Ø6				
DE081	Ø4/Ø4	10	96	84	138
DE082	Ø6/Ø4				
DE083	Ø6/Ø6	12	112	99	159
DE101	Ø4/Ø4				
DE102	Ø6/Ø4	12	112	99	159
DE103	Ø6/Ø6				
DE121	Ø4/Ø4	12	112	99	159
DE122	Ø6/Ø4				
DE123	Ø6/Ø6	12	112	99	159
DE124	Ø6/Ø6				

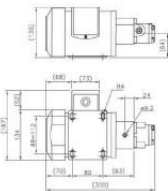
## CONNECTING MOTOR-IRON CASE

(WITH TOP FEED PUMP)

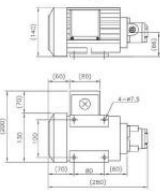


## CONNECTING MOTOR-IRON CASE

(WITH PROLONGED SHAFT CONNECTOR)

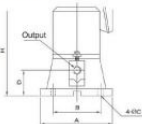


## CONNECTING MOTOR-MILLING CASE



Power (HP)	1/4		
Voltage	110V/220V or 220V/380 or 220V/440V or 208V/415V		
Pole	4P		
Time Interval	Continuous		
Speed	1400/1700rpm		
Frequency	50/60Hz		
Weight (kg)	Connecting Motor- Iron Case 7kg	Connecting Motor- Iron Case 8kg	Connecting Motor- Milling Case 10kg

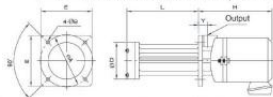
Note: TOP feed pump is not standard device for the motor

ELECTRIC SUCTION  
PUMP(COOLANT PUMP)

Voltage		110V/220V or 220V/380 or 220V/440V or 208V/415V							
Power (HP)	II	Pumping Water (2m)	Input	Output	A	B	OC	D	Weight (kg)
1/8	175	22L/min	PT3/8"	PT3/8"	142	99	8	48	6.5
1/4	235	56L/min	PT3/4"	PT1/2"	185	133	9	55	14.2
1/2	310	100L/min	PT1"	PT3/4"	165	133	10	70	18.5

Note: 1. The output volume is based on 60Hz.

2. Please set up the motor at the bottom of the coolant and the coolant must be higher than the position of the inlet to ensure smooth operation.

ELECTRIC IMMERSION  
PUMP(COOLANT PUMP)

Note: 1. The output volume is based on 60Hz.

Note: Because of continuous improvements, above specifications are subject to change without prior notice.

## FITTINGS & ACCESSORIES

### STRAIGHT ADAPTER



Model	Bore	φd	L	T	T1	H	Weight(g)
PD0401	Ø4	3	18	M8x1.0	PT1/8	10	8
PD0401S	Ø4	3	18	5/16-24	PT1/8	10	8
PD0402	Ø4	3.5	18	M8x1.0	PT1/4	14	17
PD0406-1	Ø4	2.5	18	M8x1.0	M6x0.75	10	6
PD0406	Ø4	2.5	18	M8x1.0	M6x1.0	10	6
PD0408	Ø4	3	18	M8x1.0	M8x1.0	10	6
PD0601	Ø6	4	18	M10x1.0	PT1/8	12	8
PD0602	Ø6	5	18	M10x1.0	PT1/4	14	14
PD0608	Ø6	3	18	M10x1.0	M8x1.0	12	8
PD0801	Ø8	5	26	M14x1.5	PT1/8	17	22
PD0802	Ø8	6	26	M14x1.5	PT1/4	17	26
PD1001	Ø10	5	28	M16x1.5	PT1/8	19	29
PD1002	Ø10	7	28	M16x1.5	PT1/4	19	33

### REVERSE-FLOW STRAIGHT ADAPTER



Model	Bore	L	T	T1	H	Weight(g)
PD0401B	Ø4	26	M8x1.0	PT1/8	10	11
PD0601B	Ø6	26	M10x1.0	PT1/8	12	14

### ONE-WAY STRAIGHT ADAPTER



Model	Bore	L	T	T1	H	Weight(g)
PD0401A	Ø4	26	M8x1.0	PT1/8	10	11
PD0601A	Ø6	26	M10x1.0	PT1/8	12	14

### ELBOW ADAPTER



(Special Order)

Model	Bore	φd	L1	L2	T	T1	H	Weight(g)
PD0401	Ø4	3	18	18	M8x1.0	PT1/8	10	13
PD0401T	Ø4	3	18	18	5/16-24	NPT1/8	10	13
PD0402	Ø4	4	20	22	M8x1.0	PT1/4	14	32
PD0406-1	Ø4	2	18	18	M8x1.0	M6x0.75	10	13
PD0406	Ø4	2	18	18	M8x1.0	M6x1.0	10	12
PD0408	Ø4	3	18	18	M8x1.0	M8x1.0	10	13
PD0601	Ø6	4	20	20	M10x1.0	PT1/8	12	20
PD0602	Ø6	4	20	22	M10x1.0	PT1/4	14	29
PD0608	Ø6	3	20	20	M10x1.0	M8x1.0	12	20
PD0801	Ø8	5	26	29	M14x1.5	PT1/8	17	52
PD0802	Ø8	6	26	29	M14x1.5	PT1/4	17	56
PD1001	Ø10	5	29	31	M16x1.5	PT1/8	19	70
PD1002	Ø10	7	29	31	M16x1.5	PT1/4	19	70

### REVERSE-FLOW ELBOW ADAPTER



Model	Bore	L1	L2	T	T1	H	Weight(g)
PD0401B	Ø4	18	20	M8 x 1.0	PT1/8	10	14
PD0601B	Ø6	20	22	M10 x 1.0	PT1/8	12	21

### ONE-WAY ELBOW ADAPTER



Model	Bore	L1	L2	T	T1	H	Weight(g)
PD0401A	Ø4	18	20	M8 x 1.0	PT1/8	10	14
PD0601A	Ø6	20	22	M10 x 1.0	PT1/8	12	21

### ONE-WAY STRAIGHT ADAPTER FOR NYLON PIPE



Model	Spec	Weight(g)
440X03-C1006	PT1/8 x Ø6	16
440X03-C1010	PT1/8 x PE1/8	12
440X03-C1020	PT1/8 x PE1/4	16
440X03-C1025	PT1/8 x PE5/16	18
440X03-L2006	PT1/4 x Ø6	22
440X03-L2010	PT1/4 x Ø10	28
440X03-C2020	PT1/4 x PE1/4	21
440X03-C2025	PT1/4 x PE5/16	25
440X03-C2030	PT1/4 x PE3/8	27.5
440X03-C3020	PT3/8 x PE1/4	27.5

### REVERSE-FLOW ELBOW ADAPTER FOR NYLON PIPE



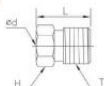
Model	Spec	Weight(g)
440X06-L102	PT1/8 x PE1/4	16.5
440X06-L1025	PT1/8 x PE5/16	23.5
440X06-L2006	PT1/4 x Ø6	25.5
440X06-L2010	PT1/4 x Ø10	30.5
440X06-L2020	PT1/4 x PE1/4	26
440X06-L2025	PT1/4 x PE5/16	32.5
440X06-L203	PT1/4 x PE3/8	34.5
440X06-L302	PT3/8 x PE1/4	31.5

## COMPRESSION SLEEVE



Model	Bore	ød	D	L	Weight(g)
PB04	Ø4	4.1	6	4.5	0.3
PB05	Ø6	6.1	8	4.5	0.6
PB08	Ø8	8.1	11	7	2
PB10	Ø10	10.1	13.5	8	3

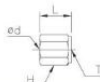
## COMPRESSION BUSHING



Model	Bore	ød	L	T	H	Weight(g)
PA04	Ø4	4.1	12	M8 x 1.0	8	3
PA04T	Ø4	4.1	12	5/16-24	8	3
PA04-I	Ø4	4.2	12	M8 x 1.0	8	3
PA06	Ø6	6.1	12.5	M10 x 1.0	10	4
PA08	Ø8	8.1	14	M14 x 1.5	14	9
PA10	Ø10	10.1	15	M16 x 1.5	16	12

(Special Order)

## COMPRESSION NUT



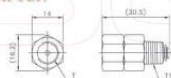
Model	Bore	ød	L	T	H	Weight(g)
DP04	Ø4	4.05	13	M8 x 1.0	10	3
DP04T	Ø4	4.05	13	5/16-24	10	3

## CONNECTOR INSERT



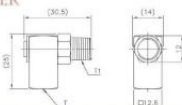
Model	A	B	Weight(g)
PPD04	Ø4	Ø2	
PPD06	Ø6	Ø4	0.2

## SWIVEL STRAIGHT ADAPTER



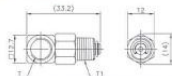
Model	Bore	T	T1	Weight(g)
PM0401	Ø4	M8 x 1.0	PT1/8	28
PM0101		PT1/8	PT1/8	26

## SWIVEL ELBOW ADAPTER



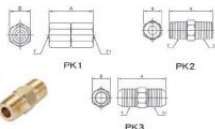
Model	Bore	T	T1	Weight(g)
PE0401	Ø4	M8 x 1.0	PT1/8	38
PE0101		PT1/8	PT1/8	36

## PLANE SWIVEL ELBOW ADAPTER



Model	Bore	T	T1	Weight(g)
PE0101		PS1/8	PT1/8	25
PE0101-N		NPT1/8	NPT1/8	25

## CONNECTOR



Model	A	B	T	T1	Weight(g)
PK10404	23	10	M8 x 1.0	M8 x 1.0	10
PK10606	25	12	M10 x 1.0	M10 x 1.0	15
PK20101	24.5	10	PT1/8	PT1/8	9
PK20102	27	14	PT1/8	PT1/4	17
PK20202	30	14	PT1/4	PT1/4	19
PK20203	30	17	PT1/4	PT3/8	26
PK31010	29	17	M10 x 1.0	M10 x 1.0	9

1.Dimension is in "mm".  
2.Option of the Ø6 outlet is available.

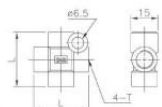
Note: Because of continuous improvements, above specifications are subject to change without prior notice.

## T-JUNCTION



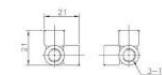
Model	Bore	T	L1	L2	Weight (g)
PKD04	Ø4	M8x1.0	28	19.5	15
PKD04-000	Ø4	5/16-24	28	19.5	15
PKD06	Ø6	M10x1.0	30	22	26

## CROSS JUNCTION



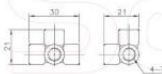
Model	Bore	T	L	Weight (g)
PJD04	Ø4	M8x1.0	28	15
PJD04-000	Ø4	5/16-24	28	15
PJD06	Ø6	M10x1.0	30	20

## 3-WAY JUNCTION



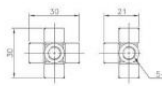
Model	Bore	T	Weight (g)
PHD0301	Ø4	M8x1.0	20

## 4-WAY JUNCTION



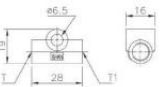
Model	Bore	T	Weight (g)
PHD0401	Ø4	M8x1.0	25

## 5-WAY JUNCTION



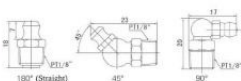
Model	Bore	T	Weight (g)
PHD0501	Ø4	M8x1.0	29

## 2-WAY JUNCTION



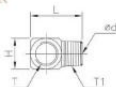
Model	Bore	T	T1	Weight (g)
PJ0404	Ø4xØ4	M8x1.0	M8x1.0	23
PJ0404-000	Ø4xØ4	5/16-24	5/16-24	23
PJ0406	Ø4xØ6	M8x1.0	M10x1.0	22
PJ0606	Ø6xØ6	M10x1.0	M10x1.0	20

## GREASE NOZZLE



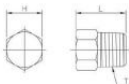
Model	Spec	Weight (g)
440029	PT1/4x45°	15
440026	PT1/8x45°	8.5
440027	PT1/8x90°	9
440057	M8x90°	8
440023	PT1/4x180° (straight)	12.5
440000	PT1/8x180° (straight)	8.5
440047	M8x180° (straight)	4

## PLANE ELBOW ADAPTER



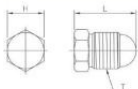
Model	Bore	$\phi d$	L	T	T1	H	Weight (g)
PI0401	Ø4	2	21	M8 x 1.0	PT1/8"	12.7	17
PI0408	Ø4	2	21	M8 x 1.0	M8 x 1.0	12.7	15
PI0601	Ø6	2	22	M10 x 1.0	PT1/8"	14	15
PI101		2.5	21	PS1/8	PT1/8"	12.7	15

## CLOSURE PLUG



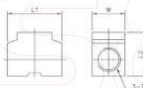
Model	L	T	H	Weight (g)
PG0408	12	M8 x 1.0	8	4.4
PG0601	14	PT1/8	10	7.6

## PLUG



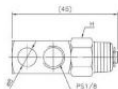
Model	L	T	H	Weight (g)
PG04	16	M8 x 1.0	8	5.4
PG06	17	M10 x 1.0	10	8.8

## 3-WAY T CONNECTOR



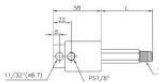
Model	T	L1	L2	W	Weight (g)
PT01	PS1/8"	27	21	14	34
PT02	PS1/4"	31	25	18	17
PT03	PS3/8"	40	31	21	86

## BRASS SWIVEL FITTING



Model	T	H	Weight (g)
PQ0101	PT1/8"	14	44
PQ0201	PT1/4"	14	47

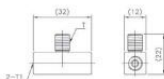
## HEAVY DUTY SWIVEL FITTING



Model	T	L	Weight (g)
PN142	PT1/8"	42	180
PN230	PT1/4"	30	170
PN242	PT1/4"	42	185
PN260	PT1/4"	60	205

MAX. Operation pressure is 0.8Mpa (8kgf/cm<sup>2</sup>).

## TRANSITIONAL T-JUNCTION

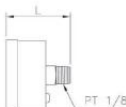


Model	Bore	T	T1
PKT0401	Ø4	PT1/8	M8 x 1.0
PKT0406	Ø4	M6 x 1.0	M8 x 1.0
PKT0408	Ø4	M8 x 1.0	M8 x 1.0
PKT0601	Ø6	PT1/8	M10 x 1.0
PKT0606	Ø6	M6 x 1.0	M10 x 1.0
PKT0608	Ø6	M8 x 1.0	M10 x 1.0

1.Dimension is in "mm".

Note: Because of continuous improvements, above specifications are subject to change without prior notice.

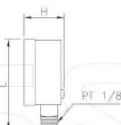
## HORIZONTAL PRESSURE GAUGE



Model	Specification (kgf/cm <sup>2</sup> )	W	L	Weight (g)
327000	15	42	38	53
327001	35	42	38	53
327400	35	48	44	96

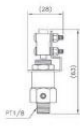
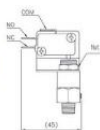
Model	Specification (Bar/Mpa)	W	L	Weight (g)
327004	1.5	42	38	53
327005	3.5	42	38	53

## VERTICAL PRESSURE GAUGE



Model	Specification MPa (kgf/cm <sup>2</sup> )	W	L	H	Weight (g)
327207	1.5 (15)	42	58	24	53
327610	9.5 (35) / Oil Charged	42	58	24	53

## PRESSURE SWITCH (MECHANICAL TYPE)



Remark:

1. The options of Normal Close and Normal Open.
2. Different Output wire length is available via customer's demand.
3. Capacity of Output is 5A. Max. operation pressure is 3Mpa (30 kgf/cm<sup>2</sup>).

Model	Specification (kgf/cm <sup>2</sup> )	Weight (g)
321661	2.5-1.9	81
321660	12-9	81

## FILM PRESSURE SWITCH



Model	Specification	T	Weight (g)
321606	2.1kg ▲	UNF3/8"-24	35
321607	3.5kg ▲	NPT1/8"	35
321609	2.1kg ▲	UNF3/8"-24	35
321610	9kg ▼ 11kg ▲	NPT1/8"	35
321611	11kg ▲ 9kg ▼	NPT1/8"	35

▲: upward ▼: downward

P.S. 1. Use rated current 3.5A and below.

2. Max. home pressure is 50kgf/cm<sup>2</sup>.

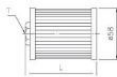


## VALVE



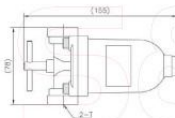
Model	Specification	Weight (g)
MA0405	PS1/4 x PES/16	64.5
MB0404	PS1/4 double female	57
ME0606	PS3/8 double male	94
MC0404	PT1/4 double male	59
MD0402	1/4 (female) x 1/8 (male)	51
MD0402	1/4 (female & male)	53
MD0606	3/8 (female & male)	82.5
ME0404	PT1/4 x PES1/4	58
ME0405	PT1/4 x PES/16	54
ME0406	PT1/4 x PES/8	59

## OIL FILTER



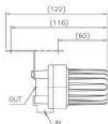
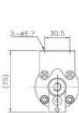
Model	T	L	Filter Precision (μ)	Weight (g)
PF25806	PT1/4"	60	196	125
PF25808	PT1/4"	80	196	140
PF25810	PT1/4"	100	196	150
PF35806	PT3/8"	60	196	120
PF35808	PT3/8"	80	196	130
PF35810	PT3/8"	100	196	135

## ADJUSTABLE OIL FILTER



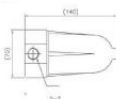
Model	Inlet/Outlet Thread	Filter Precision (Mesh)	Max. Output Volume (L/min)	Max. Pressure
PR-C1	PS1/4 x PS1/4	60	20L/min	1.5Mpa (15 kgf/cm²)
PR-C2	PS3/8 x PS3/8	60	30L/min	
PR-C3	PS1/2 x PS1/2	60	30L/min	

## FL OIL FILTER



Model	Max. Operation Pressure (kgf/cm²)	Max. Output Volume (L/min)	Filter Precision (μ)	INxOUT	Weight (g)
FL-010025	25	2.5	10	PS1/8xPS1/8 PS1/4xPS1/4	30.0
FL-025030	25	3	25		30.0
FL-125035	25	3.5	125		30.0

## DOUBLE-SIDED OIL FILTER



Model	T	Filter Precision (μ)	Weight (g)
PR0202	PS1/4 x PS1/4	196	1000
PR0303	PS3/8 x PS3/8	196	1000

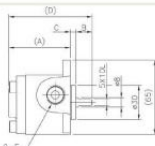
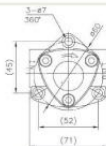
I. Dimension is in "mm".

Note: Because of continuous improvements, above specifications are subject to change without prior notice.



## TOP OIL FEED PUMP

### TOP OIL FEED PUMP

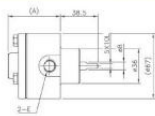
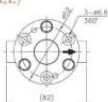


The structure is simple with strong suction and low noise as well as high speed. It is suitable for the continuous low pressure lubrication.

Viscosity: 30-150cSt

Model	Output Volume (cc/rev)	Output Volume (l/min)		Max Pressure Mpa (kgf/cm <sup>2</sup> )	Revolutions (rpm)	Bore (E)	(A)	B	C	(D)	Weight (kg)
		1500rpm	1800rpm								
TOP-11A	1.5	2.2	2.7	0.5(5)	2000	PT1/8" or PT1/4"	49	11	8	68	0.55
TOP-12A	2.5	3.7	4.5	0.5(5)	1800	PT1/4"	56	11	8	76	0.6
TOP-13A	3.5	5.2	6.3	0.5(5)	1800	PT3/8"	62	14	5	82	0.8

### IRA OIL FEED PUMP(REVERSABLE)

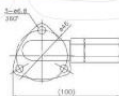


The structure is simple with strong suction and low noise as well as high speed. It is suitable for the continuous low pressure lubrication. The feature is of fixed inlet and outlet, but reversible rotation direction.

Viscosity: 30-150cSt

Model	Output Volume (cc/rev)	Output Volume (l/min)		Max Pressure Mpa (kgf/cm <sup>2</sup> )	Revolution (rpm)	Bore (E)	(A)	Weight (kg)
		1500rpm	1800rpm					
IRA-2FS	1.8	2.7	3.2	0.5(5)	2000	PT1/4"	50	1.1
IRA-3FS	2.5	3.7	4.5	0.5(5)	2000	PT1/4"	55	1.2

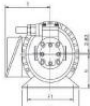
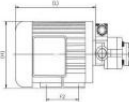
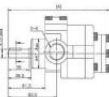
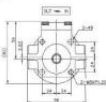
### TOP ADJUSTABLE VALVE



The structure is simple and easily adjusted. It cooperates with TOP feed pump to adjust the pressure of pipes.

Pressure Adjustment Range : 0.2-0.5Mpa (2-5 kgf/cm<sup>2</sup>); Weight(g):281

### VOP OIL FEED PUMP



Model	Flow rate			Max. Pressure Mpa (kgf/cm <sup>2</sup> )	Max. Speed rpm	A	E	Weight (kg)	Motor Output	(L)	(H)	F2	F1	M	N	T
	cc/rev	1/1500rpm	1/1800rpm													
VOP-204	4	6	7.2	2.5(25)	1800	148	PT1/2"	3.7	1/2 HP	246	168	100	125	158	80	138
VOP-206	6	9	10.8	2.5(25)	1800	153	PT1/2"	4.0	1 HP	261	168	100	125	158	80	138
VOP-208	8	12	14.4	2.5(25)	1800	158	PT1/2"	4.2	2 HP	285	188	125	140	174	90	152
VOP-210	10	15	18.0	2.5(25)	1800	160	PT3/4"	4.3								
VOP-212	12	18	21.6	2.0(20)	1800	168	PT3/4"	4.5								
VOP-216	16	24	28.8	2.0(20)	1500		PT3/4"	4.8								
VOP-220	20	30	36	1.5(15)	1500		PT3/4"	5.3								

## FLEXIBLE HOSE



Low pressure flexible hose: Model #PST. Pressure range 0-4Mpa(0-40 kgf/cm<sup>2</sup>).  
Middle pressure flexible hose: model# PSM. Pressure range 4-8Mpa(40-80 kgf/cm<sup>2</sup>).  
Note: Length is available via customers demand.

Model	Pipe Diameter
PST04	Ø4
PST06	Ø6

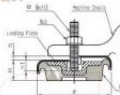
## STEEL WIRE SHIELD TUBE



Note: Length is available via customers demand.

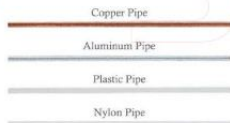
Model	Pipe Diameter	Max. Operation	Pressure Mpa (kgf/cm <sup>2</sup> )
P-SF04	Ø4		10(100)
P-SF06	Ø6		10(100)

## HEAVY DUTY MACHINERY VIBRATION ABSORBER



Model	Rubber Hardness	Dimension				Max Loading / pcs	Weight
		Ø	M	H	h		
S78-080-25-70	70	80	M10x80	25	8	255	0.4
S78-120-32-80	80	120	M12x100	32	12	1225	1.1
S78-160-35-80	80	160	M16x120	35	12	3570	2.2
S78-185-39-80	80	185	M20x160	39	12	4280	3.4
S78-228-54-80	80	228	M24(P1.5)x180(Ø20x180)	54	12	6630	7.3

## PIPE



Description	Model	Specification			
		Bore	Ø4	Ø6	Ø8
Copper Pipe	P-CP	Minimum Bending Radius	R20	R30	R50
		Bore	Ø4	Ø6	Ø8
Aluminum Pipe	P-AP	Minimum Bending Radius	R20	R40	R40
		Bore	Ø4	Ø6	Ø8
Plastic Pipe	P-PP	Minimum Bending Radius	R20	R40	R40
		Bore	Ø4	Ø6	Ø8
Nylon Pipe	P-NP	Minimum Bending Radius	R20	R30	R50
		Bore	Ø4	Ø6	Ø8

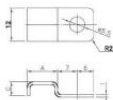
Note: Plastic pipe is not recommended for piston lubrication system.

## NYLON PIPE SPRING



Description	Model	Specification	Length
Nylon Pipe Spring	NPS	Ø4 and Ø6	1800±5mm

## PIPE CLIP



Model	Pipe Diameter	Number of holes	A	C	Weight(g)
PZ1104	Ø4	1	6	5	1.2
PZ1106	Ø6	1	8.5	7	2.6
PZ1108	Ø8	1	10	9	2.2
PZ1110	Ø10	1	12.5	11	3.6
PZ1204	Ø4	2	11	5	1.8
PZ1206	Ø6	2	14.5	7	2.8
PZ1304	Ø4	3	15	5	2.8

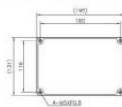
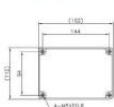
## OIL TANK



Model	Tank Capacity	W	L	H
156001-SE	2L	112	162	145
156002-SE	3L	131	195	163

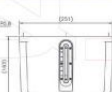
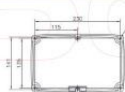
2L

3L



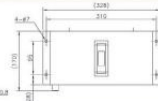
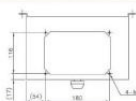
Model	Tank Capacity	W	L	H
156145-001-SE	4L	141	230	163

4L

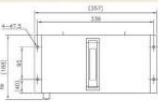
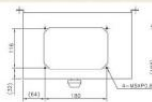


Model	Tank Capacity	W	L	H
156016-SE	6L	212	328	170
156013-SE	8L	227	357	188

6L



8L



## FLOAT SWITCH



Model	Apply For	Note
321003-000	YET-A, R, E, N	(NO)



Model	Apply For	Note
321002-011	YET-C	(NC)
321002-012	YAJ, YAC (3L, 4L, 6L, 8L)	(NC)
321002-013	YAK, YAE (3L, 4L, 6L, 8L)	(NO)

## INLET FILTER



Model	Apply For	Note
153013	2L Oil Tank	40μ
153000	3L-8L Oil Tank	

## FLEXIBLE NOZZLE



Item Spec.	Thread E			Head of Connector D			Body B	Flat Type Outlet			Round Type Outlet C		
1/4" Tube	PT1/8"	PT1/4"	PT3/8"	PT1/8"	PT1/4"	PT3/8"	14.5	W	H	C	Ø1.6	Ø3.3	Ø6.8
	8.0	10.5	10.5	10.8	10.8	10.8		25.0	1.8	29.0	30.0	30.0	35.0
3/8" Tube	PT3/8"	PT1/2"		PT3/8"	PT1/2"		17.3	W	H	C	Ø6.5	Ø9.6	Ø12
	12.0	14.5		12.3	12.3			32.0	3.2	39.0	32.0	39.0	32.5
1/2" Tube	PT3/8"	PT1/2"		PT3/8"	PT1/2"		21.2	W	H	C	Ø6.5	Ø9.6	Ø12
	12.0	14.5		13.0	13.0			32.0	4.5	41.0			
								47.5	4.2	49.0	37.0	37.0	37.0
								61.0	3.4	50.0			



**YET-A2-3L**  
Microcomputer Piston Lubricator



**YET-C2-4L**  
Automatic Piston Lubricator



**YAC-3L**  
Automatic Resistance Lubricator  
(Adjustment Device in side the Control Box)



**YAE-3L**  
Microcomputer Resistance Lubricator  
(Adjustment Device in side the Control Box)



**YET-A2-4L**  
Microcomputer Piston Lubricator



**YESA-2L**  
Automatic Resistance Lubricator  
(without float switch)



**YLB-20H**  
Forced Cycle Lubricator



**YLC**  
Cooling Cycle Lubricator



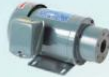
**TOP**  
TOP Ø11 Feed Pump



**1RA**  
3RA Ø11 Feed Pump (reversible)



**TOP**  
Adjusting Valve



**Connecting Motor-Iron Case**



**YEL**  
Electromagnetic Pump



**YGL-T08**  
Manual Grease Lubricator



**YGL-A08**  
Microcomputer Grease Lubricator



**YGL-C08**  
Automatic Grease Lubricator



**Heavy Duty Swivel Fitting**  
SIZE : PS1/8, 1/4



**DU**  
Grease Distributor



**SD**  
Spray Mist Distributor



**DX-300**  
Piston Distributor  
SIZE : 0.02, 0.06, 0.1, 0.16, 0.2, 0.3, 0.4, 0.5cc



**DT-500**  
Piston Distributor  
SIZE : 0.1, 0.16, 0.2, 0.3, 0.4, 0.5cc



**Compression Bushing**  
Pipe dia : Ø4, 6, 8, 10



**Compression Sleeve**  
Pipe dia : Ø4, 6, 8, 10



**Straight-Adapter**  
Pipe dia : Ø4, 6, 8, 10



**Elbow-Adapter**  
Pipe dia : Ø4, 6, 8, 10



**Proportion Devices**  
SIZE : MBx8, MBxPT1/8



**T-Junction**  
Pipe dia : Ø4, 6



**Cross-Junction**  
Pipe dia : Ø4, 6



**2-WAY Junction**  
Pipe dia : Ø4, 6



**Oil Filter**  
SIZE : PS1/4, 3/8



**FL Filter**  
SIZE : PS1/8, 1/4

# PERIPHERAL OF LUBRICATION SYSTEM



**YAK-3L**  
Microcomputer Piston Lubricator



**YAK-4L**  
Microcomputer Piston Lubricator



**YAJ-3L**  
Automatic Piston Lubricator



**YAC-8H**  
Automatic Resist Lubricator  
(with meter-in filter)



**YET-R2-2L**  
Automatic Piston Lubricator



**YET-R2-4L**  
Automatic Piston Lubricator



**YET-C1-3L**  
Automatic Resistance Lubricator



**YAH-8H**  
Automatic Resistance Lubricator



**YML-6**  
Rock Type Lubricator



**YMT-6**  
Pull Type Lubricator



**Submerged Coolant Pump**



**Self-absorbent Coolant Pump**



**YCM**  
Low Temperature  
Cooling Spray



**YSC-U-2**  
Multi  
Functional Oil Mist Nozzle



**YSM-A**  
Microcomputer Spray Mist  
Lubricator



**YSM-C**  
Automatic Spray Mist  
Lubricator



**DB**  
DB Oil Distributor  
SIZE:Ø4.6



**DV**  
DV Type Oil Regulating Distributor  
SIZE:Ø4.6



**DE**  
DE Oil Distributor  
SIZE:Ø4.6



**Swivel Straight Adapter**  
SIZE:Ø4x1/8, 1/8x1/8, Ø6x1/8



**Plane Swivel Elbow Adapter**  
SIZE:PS1/8PT1/8



**Flexible Hose**  
SIZE:Ø4.6



**Mylon Pipe Spring**



**Nozzle**  
SIZE:PT1/4, PT3/8, PT1/2



**Flexibie Nozzle**  
SIZE:PT1/4, 3/8, 1/2



**S78**  
S78 Heavy Machines Anti-Vibration Mounts



**Copper Pipe**



**Aluminum Pipe**



**Plastic Pipe**



**Nylon Pipe**