

# ISHAW

LUBRICATION SYSTEM



QUALITY, SERVICE, AND INNOVATION  
ARE OUR CONSISTENT GOALS

**ABOUT iSHAN**

**In 1970s**, Mr. Tasi Kung Hsiung our founder, aged around 40, and his brothers opened a workshop and then started to supply centralized lubrication systems after he left machine tool industry. With his solid technical experience, the company had steadily and continually grown and prospered, becoming a focused leader in the field of lubrication and cooling.

Over the years, Mr. Tasi realized that Own Branding & Manufacturing is the key to have sustainability development in future. In 1992, iSHAN was founded therefore. In addition to keeping OEM business, we started to promote iSHAN line worldwide, applying on industrial machinery such as lathe, milling machine, press machine, grinding machine and so on. In the following year, we collaborated with Taiwan Industrial Technology Research Institute to create a new version of lubricator and upgrade the performance and durability.

**In 2001**, Sunshine was established as iSHAN's branch in China due to rapid sales growth and quick response of technical support. In 2013, SUMS line was launched to compete with world class competitors, which was keeping pace with the current technology.

To date, iSHAN group has possessed numbers of patents on design and improvement and provides all kinds of solutions tailored to our valued clients in the world. All the input we commit is to have our clients satisfied with iSHAN/SMUS service and quality and to keep machines uptime with cost effective and friendly environment. Our distribution channel covers widely from Southeast Asia, Europe, America, Middle East, Australia and so on. Our hope is when you need centralized lubrication systems, you think of iSHAN / SMUS.

**Q** UALITY POLICY  
Quality first, Advanced Technology and Customer Satisfaction.

**C** ORPORATE VISION  
Global Service, Win-Win Situation and Sustainability Development.

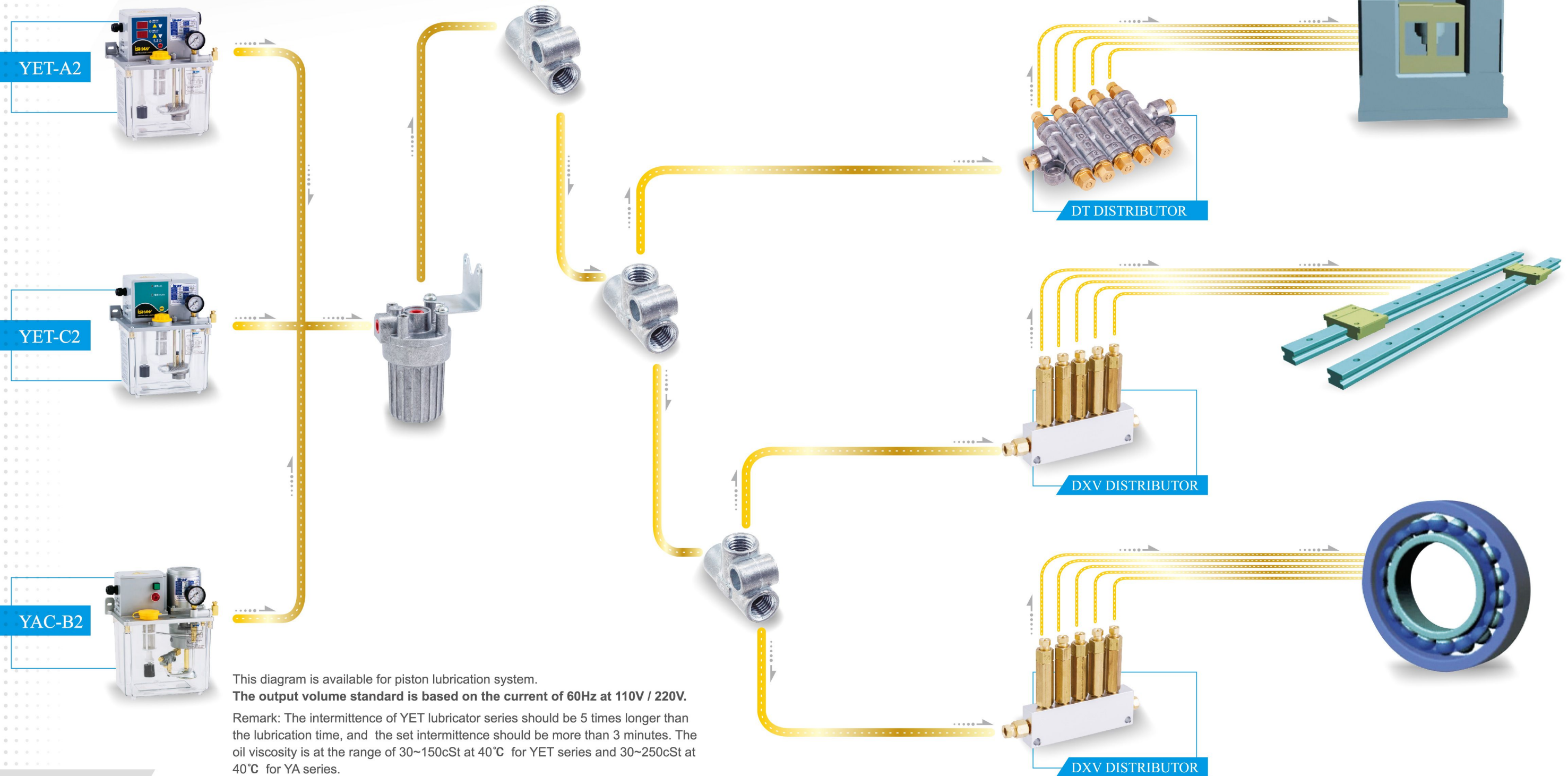
**C** ORE VALUE  
Honesty, Commitment, Efficiency and Innovation.



- 1992** ISHAN founded in Taichung, Taiwan
- 1993** ISHAN cooperated with Taiwan Industrial Technology Research Institute and developed new lubricators.
- 1997** ISHAN built partnership with a US well-known brand to provide OEM & ODM service with CE certification.
- 1999** ISHAN won ISO-9002 approval.
- 2001** ISHAN established new factory, SUNSHINE in China to cultivate China domestic market.
- 2003** ISHAN won ISO-9001 approval.
- 2007** For China's increasing demand, SUNSHINE moved to the new production site.
- 2008** ISHAN expanded the Taichung Production site.
- 2011** ISHAN was certified with CE Safety Certification via TÜV.
- 2012** SMUS-SST series is certified with CE safety certification via SGS.
- 2013** SMUS series was unpacked for the application on high performance machinery.



# PISTON LUBRICATION SYSTEM DIAGRAM

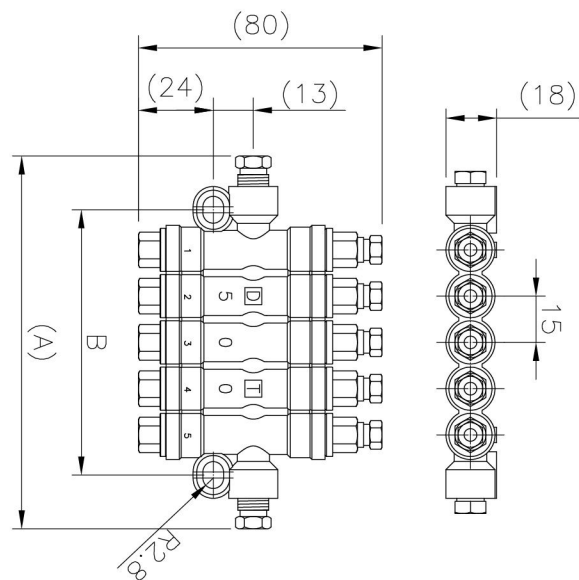


This diagram is available for piston lubrication system.  
**The output volume standard is based on the current of 60Hz at 110V / 220V.**  
 Remark: The intermittence of YET lubricator series should be 5 times longer than the lubrication time, and the set intermittence should be more than 3 minutes. The oil viscosity is at the range of 30~150cSt at 40°C for YET series and 30~250cSt at 40°C for YA series.

# DT series



DT-0500



## VOLUMETRIC TYPE LUBRICATION SYSTEM

The system consists of DT / DX / DFA series piston distributors and YET / YA series gear pump lubricators. The oil is metered out by piston distributors installed in the tubing system. A variety of iSHAN lubrication units are available or contact iSHAN service center for technical support.

### Feature

- 1.A precisely metered quantity of lubricant is fed to the lubrication points.
- 2.The oil viscosity and lubrication time do not affect the metered quantity.
- 3.The lubricators have a dump valve device that relieves the pressure of the lubricant in the main line.

### Area of Application

The system is recommended to applied on the lubrication with higher requirement level.

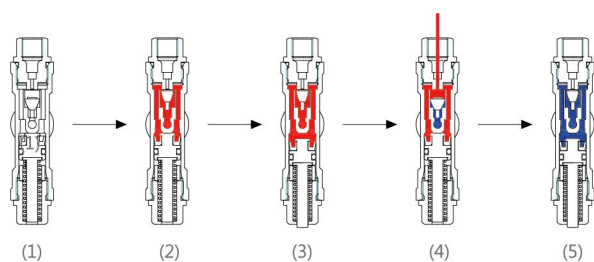
## DT PISTON DISTRIBUTORS (Relubrication Distributor)

They distribute and meter the lubricant fed by an intermittently operated centralized lubrication pump unit in single-line centralized lubrication systems. Exchangeable metering blocks on the distributors make it possible to supply every lube point with the requisite amount of oil per stroke or lubrication cycle. The metered quantity is shown on the individual piston distributor.

## DT-SERIES OPERATION

1. Before the lubricant is fed to relubrication distributor.
2. The pressure built up in the centralized lubrication system causes the collar to close the outlet to the lubrication point.
3. The lubricant is stored completely as the loaded spring piston moves to the bottom.
4. When the pump is switched off, the pressure is relieved and the lubricant under preload below the spring loaded piston pushes the collar back toward the main line. This closes the main line and opens the outlet to the lubrication point. The lubricant discharges.
5. After the lubricant has been completely expelled to the lubrication point, the relubrication distributor is ready for the next lubrication cycle.

Model	Number of outlet	A	B	Metered quantity (c.c.)
DT-0200	2	75	39-43	
DT-0300	3	90	54-58	
DT-0400	4	105	69-73	0.1 0.16 0.2
DT-0500	5	126	84-88	0.3 0.4 0.5
DT-0600	6	135	99-103	

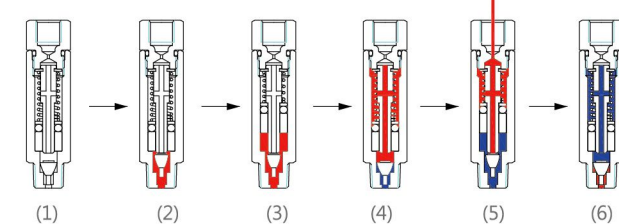
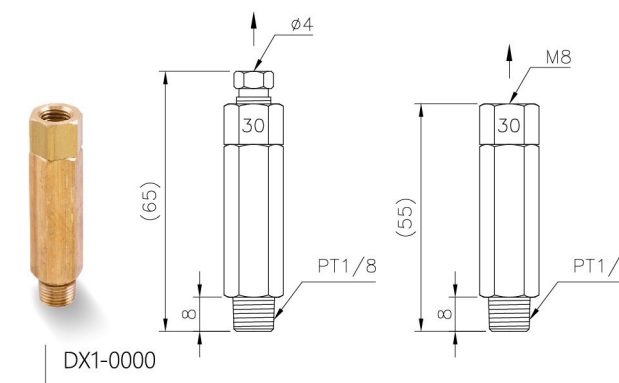
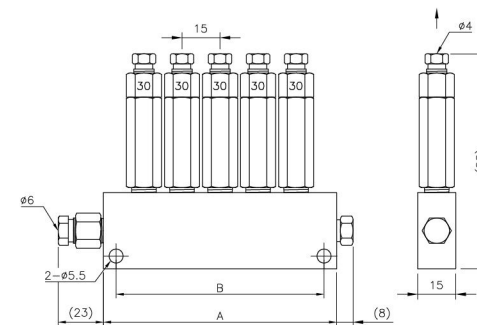


- (1) Before pressurizing
- (2) Under pressurizing
- (3) The lubricant is stored
- (4) The lubricant is discharging
- (5) Ready for next lubrication cycle

# DX series



DXV-0500



- (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)

## DX PISTON DISTRIBUTORS (Prelubrication Distributor)

## DX-SERIES OPERATION

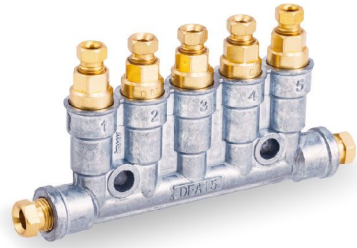
1. Before the lubricant is fed to prelubrication distributor. (First installation)
2. The pressure built up in the centralized lubrication system pushes the collar upward .
3. The lubricant fed to the distributor causes the metering piston to move toward the outlet.
4. When the pump is switched off, the pressure is relieved and the lubricant under preload below the metering pushes chamber the collar back toward the main line. In this process, spring tension causes the metering piston to return to its normal position. At the same time, the lubricant is moved from the metering chamber into the spring chamber. The prelubrication distributor is ready for the next lubrication cycle.
5. When the pump is switched on, the pressure built up in the centralized lubrication system causes the metering piston to move toward the outlet, expelling the lubricant that is under preloaded below the metering piston.
6. When the pumps is switched off, the pressure is relieved and the lubricant under preload below the metering chamber pushes the collar back toward the main line. In this process, spring tension causes the metering piston to return to its normal position. At the same time, the lubricant is the metering chamber into the spring chamber.

Model	Number of outlet	A	B	Metered quantity (c.c.)
DXV-0100	1	32	22	
DXV-0200	2	47	37	
DXV-0300	3	62	52	
DXV-0400	4	77	67	
DXV-0500	5	92	82	0.02 0.06 0.1 0.16
DXV-0600	6	107	97	0.2 0.3 0.4 0.5
DXV-0700	7	122	112	
DXV-0800	8	137	127	
DXV-0900	9	152	142	

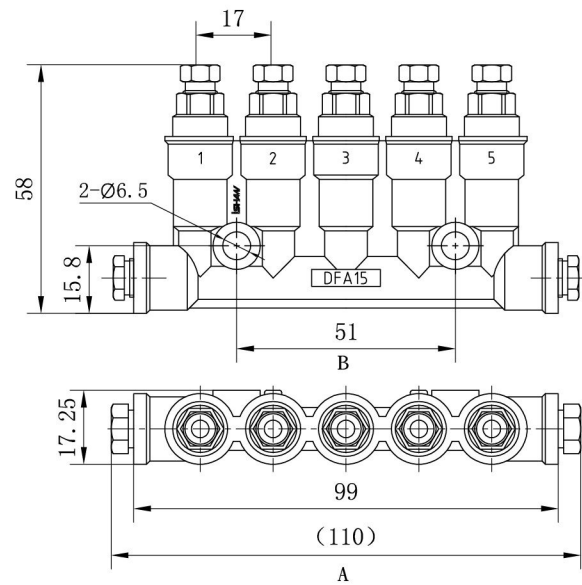
Model	Mark	Metered quantity (c.c.)
DX1-0000-02	2	0.02
DX1-0000-06	6	0.06
DX1-0000-10	10	0.1
DX1-0000-16	16	0.16
DX1-0000-20	20	0.2
DX1-0000-30	30	0.3
DX1-0000-40	40	0.4
DX1-0000-50	50	0.5

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

# DFA series



DFA15

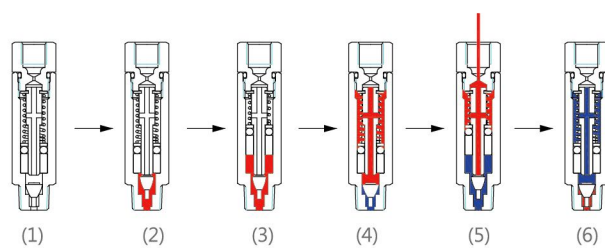


## DFA PISTON DISTRIBUTORS (Prelubrication Distributor)

### DFA-SERIES OPERATION

1. The oil is drawn from of the reservoir by the pump and fed through the main line to the distributor. The pressure built up in the centralized lubrication system pushes the collar upward .
2. In this process, the pressure causes the metering piston to movetoward the outlet, expelling the lubricant that is under preloaded below the metering piston.
3. When the metering piston stops, the lubricant ceases to discharge.
4. When the pump is switched off, the pressure is relieved and the lubricant under preload below the metering chamber pushes the collar back toward the main line. In this process, spring tension causes the metering piston to return to its normal position. At the same time, the lubricant is moved from the metering chamber into the spring chamber. The prelubrication distributor is ready for the next lubrication cycle.

Model	Number of outlet	A	B	Metered quantity (c.c.)
DFA12	2	76	34	0.03 0.06 0.1 0.16
DFA13	3	93	17	
DFA14	4	96	34	
DFA15	5	110	51	
DFA16	6	127	68	

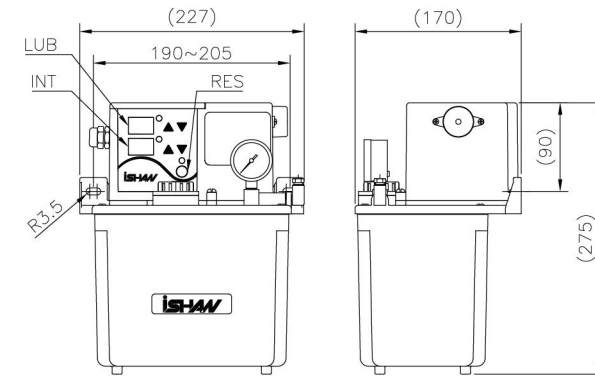


- (1) Before the pump starts
- (2) Pump starts (pressurization begins)
- (3) Pump works (pressurization completes)
- (4) Pump stops (storage completes and piston recoils)
- (5) Pump works and pressurization completes (Discharging)
- (6) Pumps stops (Storage completes)

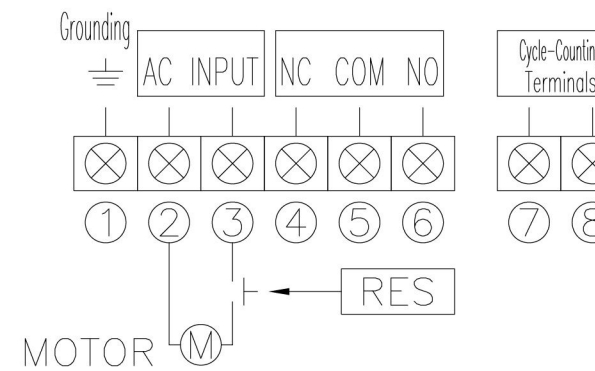
# YET-A2 Volumetric Type Electric Lubricator



3L



3L



### YET-A2 Volumetric Type Electric Lubricator

1. CE mark
2. Three operation modes as follows
  - (a) Lubrication : run lubrication time after the pump is switched on.
  - (b) Intermittence : run intermittent time after the pump is switched on.
  - (c) Memory : run previous action and remaining time after the pump is switched on.
3. Lubrication and intermittent time are adjustable.
4. Lubrication (second/minute) and intermittent (second/minute/hour/cycle) time units are adjustable.
5. The intervals can be set up based on machine operation cycle.
6. The indicator on the panel can display the operation of the lubricator.
7. Dump valve is to design to relieve the pressure in the main line to make the piston distributor completely expel the lubricant.
8. The over temperature/load protector is attached to protect the motor.
9. The pressure relief valve equipped on the lubricator can prolong the system life and reduce damage on the gear pump and tubing.
10. Float switch(NO contact) is designed to output signal and alarm when the lubricant is insufficient.
11. Pressure switch(NC contact) is upon request.
12. "RES" key can force the lubricator to feed the lubricant.
13. Feed the lubricant through piston distributors.

Model	YET-A2	YET-A2P2		
Voltage (Single Phase)	110V or 220V			
Consumption Power (W)	78			
Output Power (W)	11			
Capacity of Terminal Output	0.5A			
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)			
Output Volume (cc/ min)	150			
Pressure Release device	O			
Float Switch	O			
Pressure Switch (kgf/cm <sup>2</sup> )	X	12-9		
Pressure Gauge	O			
Alarm Beeper	O			
Tank Capacity (L)	2	3	4	4(Metal)
Weight (kg)	2.7	2.9	3.3	3.7

### Order Code | YET - A2 P2 003 P B 0 - 1 06

Control type	Pressure swith	Reservoir	Reservoir material	Mounting	Oil return device	Voltage	Output bore
A2 = Digital timer	P2 = with Null = without	002 = 2L 003 = 3L 004 = 4L 006 = 6L 008 = 8L	P = Resin (2/3/4L) S = Steel (6L up) A = Aluminum (Only 4L)	B= Rear bracket	0 = without	1 = 110V 2 = 220V	04 = 4mm 06 = 6mm

# YET-C2

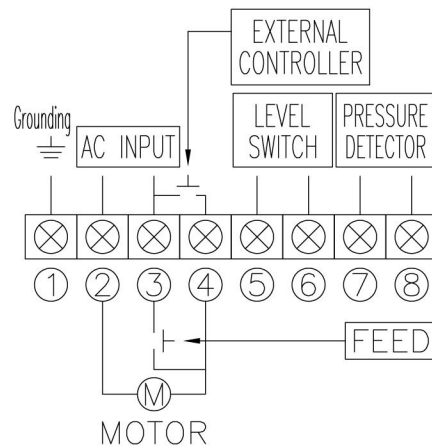
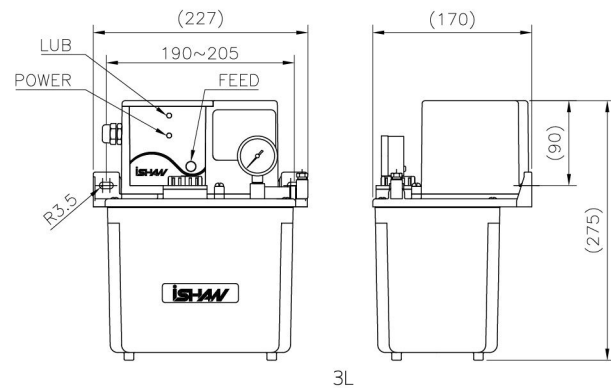
## Volumetric Type Electric Lubricator



### YET-C2 Volumetric Type Electric Lubricator

1. CE mark
2. The indicator on the panel can display the operation of the lubricator.
3. Dump valve is to design to relieve the pressure in the main line to make the piston distributor completely expel the lubricant.
4. The over temperature/load protector is attached to protect the motor.
5. The pressure relief valve equipped on the lubricator can prolong the system life and reduce damage on the gear pump and tubing.
6. Float switch(NC contact) is designed to output signal and alarm when the lubricant is sufficient.
7. Pressure switch(NC contact) is upon request.
8. "FEED" key can force the lubricator to feed the lubricant.
9. Feed the lubricant through piston distributors.

Model	YET-C2	YET-C2P2		
Voltage (Single Phase)	110V or 220V			
Consumption Power (W)	78			
Output Power (W)	11			
Capacity of Terminal Output	AC 240V/DC 200V 0.5A (Float switch) AC 250V 3A (Pressure switch)			
Lubrication time (second/minute)	Cooperate with PLC control system			
Intermittent Time (second/minute/hour/cycle)	Cooperate with PLC control system			
Output Bore	Ø4 or Ø6			
Max. Output Pressure MPa (kgf/cm <sup>2</sup> )	1.5(15)			
Output Volume (cc/ min)	150			
Pressure Release device	O			
Float Switch	O			
Pressure Switch (kgf/cm <sup>2</sup> )	X	12-9		
Pressure Gauge	O			
Alarm Beeper	X			
Tank Capacity (L)	2	3	4	4(Metal)
Weight (kg)	2.6	2.9	3.2	3.6



# YET-D2

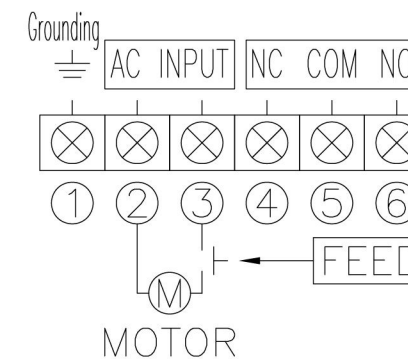
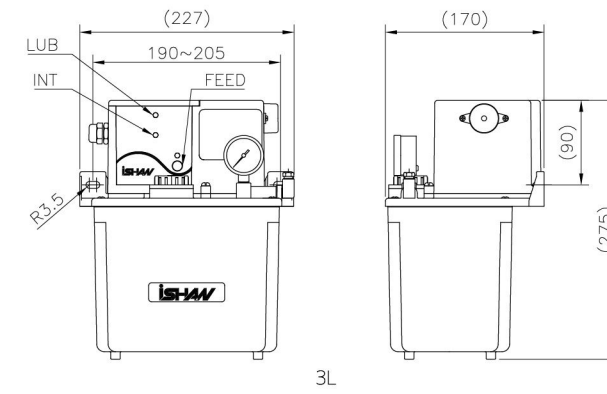
## Volumetric Type Electric Lubricator



### YET-D2 Volumetric Type Electric Lubricator

1. CE mark
2. Two operation modes as follows
  - (a) Lubrication : run lubrication time after the pump is switched on.
  - (b) Intermittence : run intermittent time after the pump is switched on.
3. Lubrication time and intermittence time can be set up per customer's request. The default is 30 sec./ 35 min.
4. Float switch(NO contact) is designed to output signal and alarm when the lubricant is insufficient.
5. The over temperature/load protector is attached to protect the motor.
6. Dump valve is to design to relieve the pressure in the main line to make the piston distributor completely expel the lubricant.
7. "FEED" key can force the lubricator to feed the lubricant.

Model	YET-D2			
Voltage (Single Phase)	110V or 220V			
Consumption Power (W)	78			
Output Power (W)	11			
Capacity of Terminal Output	0.5A			
Lubrication time (second)	3/5/10/15/20/30/40/50			
Intermittent Time (minute)	5/10/15/20/35/40/50/60/70/90/100			
Output Bore	Ø4 or Ø6			
Max. Output Pressure MPa (kgf/cm <sup>2</sup> )	1.5(15)			
Output Volume (cc/ min)	150			
Pressure Release device	O			
Float Switch	O			
Pressure Switch (kgf/cm <sup>2</sup> )	X			
Pressure Gauge	O			
Alarm Beeper	O			
Tank Capacity (L)	2	3	4	4(Metal)
Weight (kg)	2.7	2.9	3	3.5



Order Code | YET - C2 **P2** **003** **P** B 0 - **1** **06**

Control type	Pressure swith	Reservoir	Reservoir material	Oil return device	Mounting	Voltage	Output bore
C2 = PLC	P2 = with Null = without	002 = 2L 003 = 3L 004 = 4L 006 = 6L 008 = 8L	P = Resin (2/3/4L) S = Steel (6L up) A = Aluminum (Only 4L)	0 = without	B= Rear bracket	1 = 110V 2 = 220V	04 = 4mm 06 = 6mm

Order Code | YET - D2 **003** **P** B 0 - **1** **06**

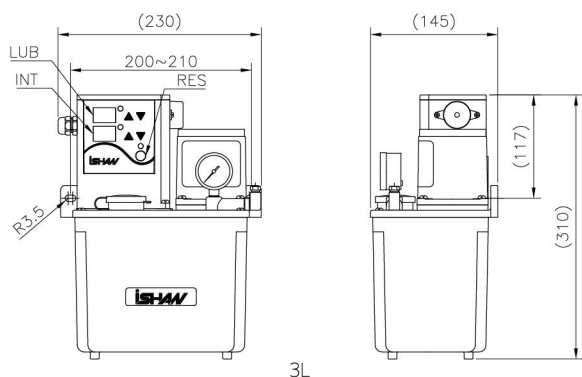
Control type	Reservoir	Reservoir material	Mounting	Oil return device	Voltage	Output bore
D2 = Dip timer	002 = 2L 003 = 3L 004 = 4L 006 = 6L 008 = 8L	P = Resin (2/3/4L) S = Steel (6L up) A = Aluminum (Only 4L)	B= Rear bracket	0 = without	1 = 110V 2 = 220V	04 = 4mm 06 = 6mm

# YAE-A2

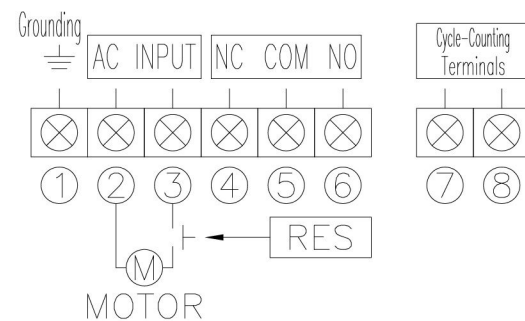
## Volumetric Type Electric Lubricator



3L



3L



### YAE-A2 Volumetric Type Electric Lubricator

1. CE mark
2. Three operation modes as follows
  - (a) Lubrication : run lubrication time after the pump is switched on.
  - (b) Intermittence : run intermittent time after the pump is switched on.
  - (c) Memory : run previous action and remaining time after the pump is switched on.
3. Lubrication and intermittent time are adjustable.
4. Lubrication (second/minute) and intermittent (second/minute/hour/cycle) time units are adjustable.
5. The intervals can be set up based on machine operation cycle.
6. The indicator on the panel can display the operation of the lubricator.
7. Dump valve is to design to relieve the pressure in the main line the piston distributor completely expel the to make lubricant.
8. The motor is designed to continuously run.
9. The over temperature/load protector is attached to protect the motor.
10. The pressure relief valve equipped on the lubricator can prolong the system life and reduce damage on the gear pump and tubing.
11. Float switch(NO contact) is designed to output signal and alarm when the lubricant is insufficient.
12. Pressure switch is upon request.
13. "RES" key can force the lubricator to feed the lubricant.
14. Feed the lubricant through piston distributors.

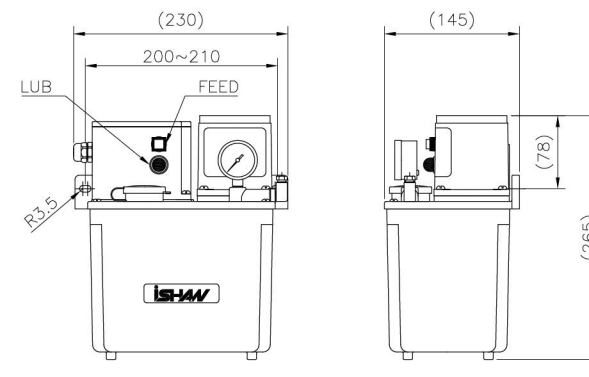
Model	YAE-A2	YAE-A2P2
Voltage (Single Phase)	110V / 220V	
Consumption Power (W)	56	
Output Power (W)	25	
Capacity of Terminal Output	0.5A	
Lubrication time (second/minute)	1-999	
Intermittent Time (second/minute/hour/cycle)	1-999	
Output Bore	Ø4 or Ø6	
Max. Output Pressure MPa (kgf/cm <sup>2</sup> )	2.0(20)	
Output Volume (cc/ min)	150	
Pressure Release device	O	
Float Switch	O	
Pressure Switch (kgf/cm <sup>2</sup> )	X	O
Pressure Gauge	O	
Alarm Beeper	O	
Tank Capacity (L)	2   4   4(Metal)   6   8   20	
Weight (kg)	4.5   4.8   5.2   6.7   9.4   18	

# YAC-B2

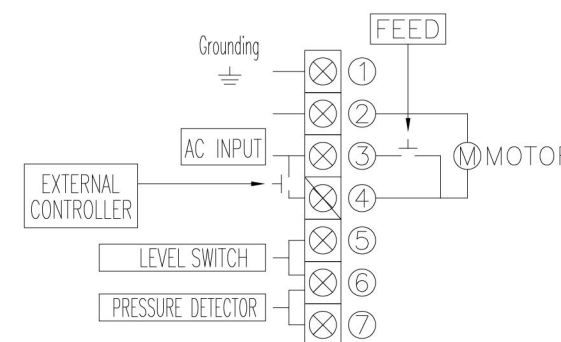
## Volumetric Type Electric Lubricator



3L



3L



### YAC-B2 Volumetric Type Electric Lubricator

1. CE mark
2. Float switch(NC contact) is designed to output signal and alarm when the lubricant is sufficient.
3. Dump valve is to design to relieve the pressure in the main line to make the piston distributor completely expel the lubricant.
4. Feed the lubricant through piston distributors.
5. The motor is designed to continuously run.
6. The over temperature/load protector is attached to protect the motor.

Model	YAC-B2	YAC-B2P2
Voltage (Single Phase)	110V / 220V	
Consumption Power (W)	56	
Output Power (W)	25	
Capacity of Terminal Output	AC 240V / DC 200V 0.5A(Float Switch) AC 250V 3A (Pressure Switch)	
Lubrication time (second/minute)	Cooperate with PLC control system	
Intermittent Time (second/minute/hour/cycle)	Cooperate with PLC control system	
Output Bore	Ø4 or Ø6	
Max. Output Pressure MPa (kgf/cm <sup>2</sup> )	2.0(20)	
Output Volume (cc/ min)	150	
Float Switch	O	
Pressure Release device	O	
Pressure Switch (kgf/cm <sup>2</sup> )	X	O
Pressure Gauge	O	
Alarm Beeper	x	
Tank Capacity (L)	3   4   4(Metal)   6   8   20	
Weight (kg)	4.4   4.8   5.2   6.7   8.5   17.1	

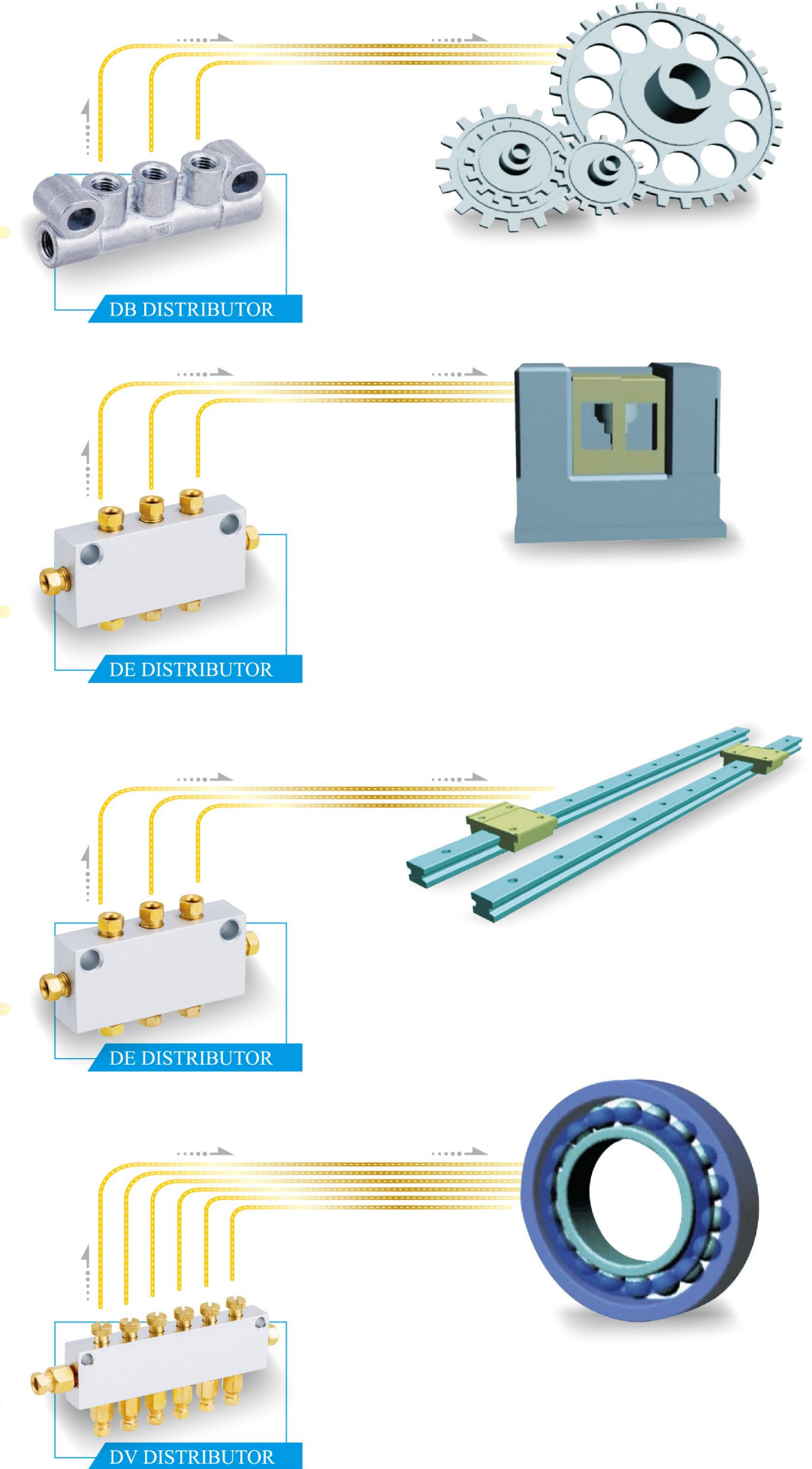
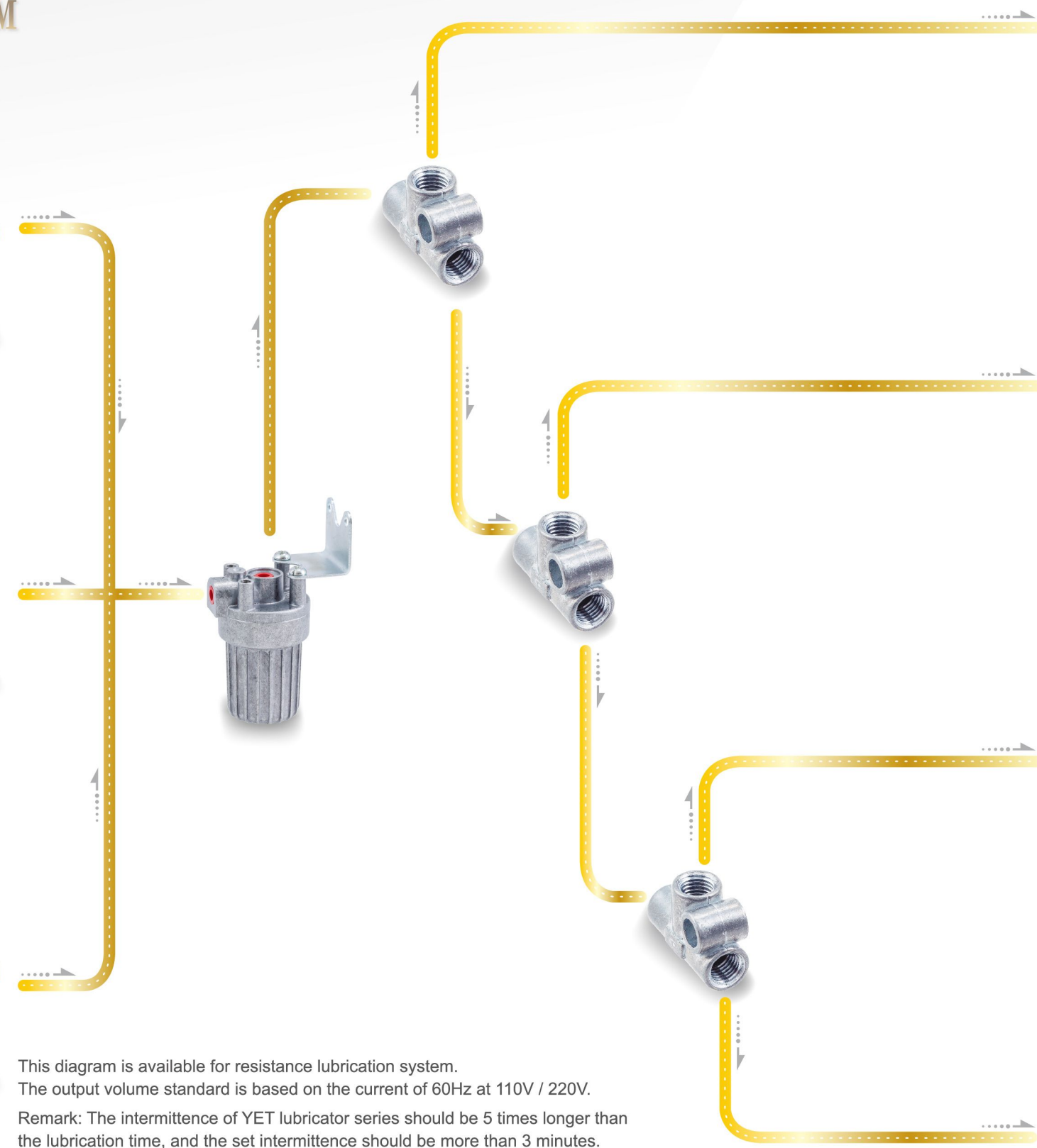
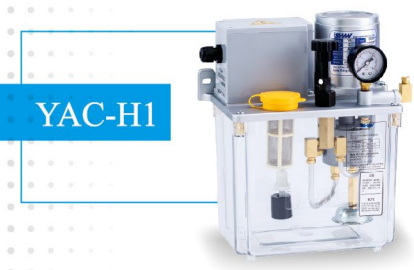
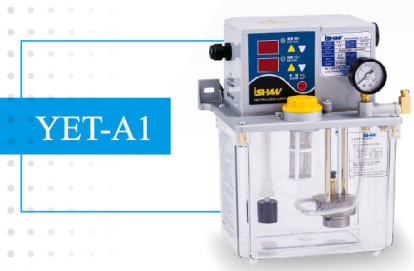
Order Code | YAE - A2 **P2** **003** **P** B 0 - **1** **06** A

Control type	Pressure switch	Reservoir	Reservoir material	Mounting	Oil return device	Voltage	Output bore	Output
A2 = Digital timer	P2 = with Null = without	003 = 3L 004 = 4L 006 = 6L 008 = 8L 008 = 8L 020 = 20L	P = Resin (3/4L) S = Steel (6L up) A = Aluminum (Only 4L)	B = Rear bracket	0 = without	1 = 110V 2 = 220V	04 = 4mm 06 = 6mm	A = 25W 150 c.c./min

Order Code | YAC - B2 **P2** **003** **P** B 0 - **1** **06** A

Control type	Pressure switch	Reservoir	Reservoir material	Mounting	Oil return device	Voltage	Output bore	Output
B2 = PLC	P2 = with Null = without	003 = 3L 004 = 4L 006 = 6L 008 = 8L 008 = 8L 020 = 20L	P = Resin (3/4L) S = Steel (6L up) A = Aluminum (Only 4L)	B = Rear bracket	0 = without	1 = 110V 2 = 220V	04 = 4mm 06 = 6mm	A = 25W 150 c.c./min

# RESISTANCE LUBRICATION SYSTEM DIAGRAM



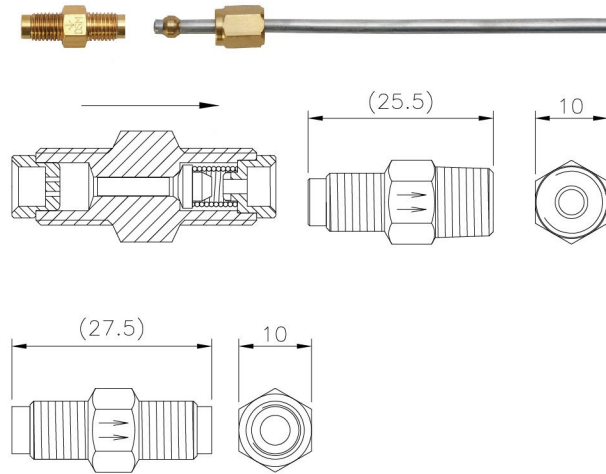
This diagram is available for resistance lubrication system.  
 The output volume standard is based on the current of 60Hz at 110V / 220V.  
 Remark: The intermittence of YET lubricator series should be 5 times longer than the lubrication time, and the set intermittence should be more than 3 minutes.  
 The oil viscosity is at the range of 30~150cSt at 40°C for YET series and 30~250cSt at 40°C for YA series.

# Oil Resistance Distributor

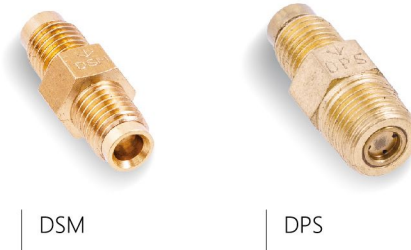
## PROPORTION DEVICES

### Features:

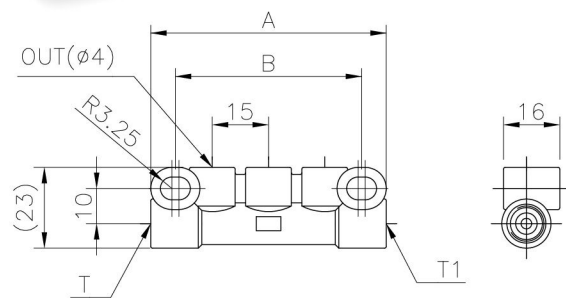
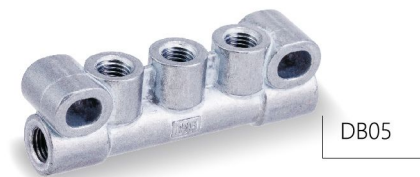
1. Discharge at steady volume in every outlet.
2. Include check valves to prevent the reverse flow.
3. The oil viscosity, pressure, and temperature will affect the oil discharge volume.
4. Economical and reliable system.
5. The system is recommended to lower pressure application.
6. The system needs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



Flow Rate	Marks	Meter Unit			
		M8×1.0	M8×1.0	M8×1.0	M8×1.0
1	00				
2	0				
4	1	DPB-1	DPS-1	DSM-1M	DCM-1M
8	2	DPB-2	DPS-2	DSM-2M	DCM-2M
16	3	DPB-3	DPS-3	DSM-3M	DCM-3M
32	4	DPB-4	DPS-4	DSM-4M	DCM-4M
64	5	DPB-5	DPS-5	DSM-5M	DCM-5M



1. Working pressure : 0.2~2 MPa (2-20 kgf/cm<sup>2</sup>)
2. Oil viscosity (40°C) : 20-500cSt
3. Flow rate: The flow will be multiplied
4. Weight: 11g



### DB - series

Model	T/T1	Number of Outlet	Outlet Bore	A	B	Weight(g)
DB041	Ø4xØ4	2	Ø4 or Ø6	48	35-36	59
DB042	Ø4xØ6					
DB043	Ø6xØ6					
DB051	Ø4xØ4	3	Ø4 or Ø6	64	51-55	76
DB052	Ø4xØ6					
DB053	Ø6xØ6					
DB061	Ø4xØ4	4	Ø4 or Ø6	80	68	96
DB062	Ø4xØ6					
DB063	Ø6xØ6					
DB071	Ø4xØ4	5	Ø4 or Ø6	96	84	113
DB072	Ø4xØ6					
DB073	Ø6xØ6					
DB081	Ø4xØ4	6	Ø4 or Ø6	112	95-100	135
DB082	Ø4xØ6					
DB083	Ø6xØ6					
DB091	Ø4xØ4	7	Ø4 or Ø6	128	116	145
DB092	Ø4xØ6					
DB093	Ø6xØ6					
DB101	Ø4xØ4	8	Ø4 or Ø6	144	132	164
DB102	Ø4xØ6					
DB103	Ø6xØ6					
DB121	Ø4xØ4	10	Ø4 or Ø6	176	164	201
DB122	Ø4xØ6					
DB123	Ø6xØ6					

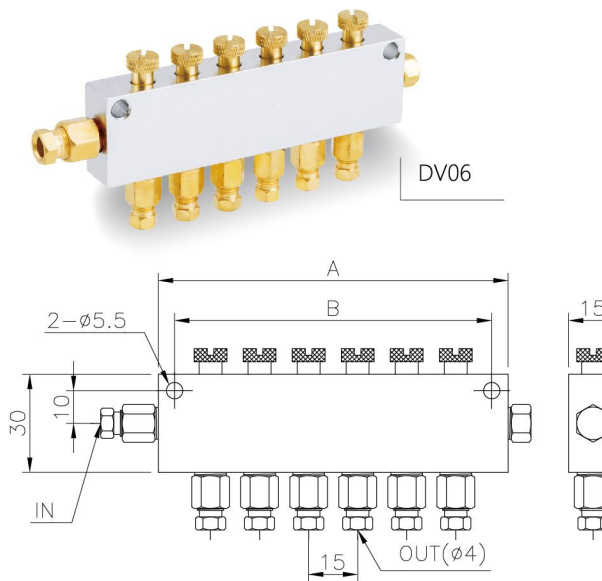
# Oil Resistance Distributor

The system consists of resistant type lubricators, proportion devices and metering manifolds as resistance centralized lubrication system applied on all kinds of machines tools or machine equipment.

1. The lubricant is surely carried out to each lubrication point.
2. Check valve equipped to prevent the reverse flow.
3. Viscosity, pressure, and temperature will affect flow volume.
4. Simple and easy operation lubrication system.

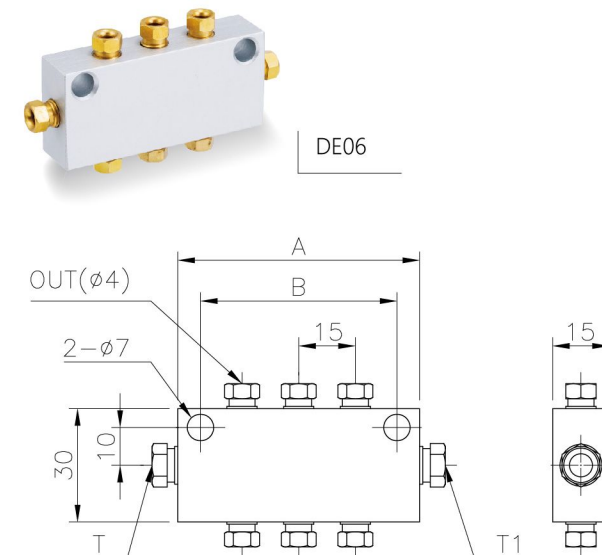
### Application

The system is applied to lower pressure of lubrication system. Resistant type lubricators are recommended.



### DV - series

Model	Number of Outlet	Inlet Bore	Outlet Bore	A	B	Weight(g)
DV024	2	Ø4	Ø4 or Ø6	47	37	101
DV026		Ø6				
DV034	3	Ø4	Ø4 or Ø6	62	52	131
DV036		Ø6				
DV044	4	Ø4	Ø4 or Ø6	77	67	165
DV046		Ø6				
DV054	5	Ø4	Ø4 or Ø6	92	82	194
DV056		Ø6				
DV064	6	Ø4	Ø4 or Ø6	107	97	228
DV066		Ø6				
DV074	7	Ø4	Ø4 or Ø6	122	112	255
DV076		Ø6				
DV084	8	Ø4	Ø4 or Ø6	137	127	290
DV086		Ø6				
DV094	9	Ø4	Ø4 or Ø6	152	142	321
DV096		Ø6				
DV104	10	Ø4	Ø4 or Ø6	167	157	355
DV106		Ø6				
DV1204	12	Ø4	Ø4 or Ø6	197	187	386
DV1206		Ø6				



### DE - series

Model	T/T1	Number of Outlet	Outlet Bore	A	B	Weight(g)
DE041	Ø4xØ4	4	Ø4 or Ø6	48	36	70
DE042	Ø4xØ6					
DE043	Ø6xØ6					
DE061	Ø4xØ4	6	Ø4 or Ø6	64	52	92
DE062	Ø4xØ6					
DE063	Ø6xØ6					
DE081	Ø4xØ4	8	Ø4 or Ø6	80	68	116
DE082	Ø4xØ6					
DE083	Ø6xØ6					
DE101	Ø4xØ4	10	Ø4 or Ø6	96	84	138
DE102	Ø4xØ6					
DE103	Ø6xØ6					
DE121	Ø4xØ4	12	Ø4 or Ø6	112	99	159
DE122	Ø4xØ6					
DE123	Ø6xØ6					

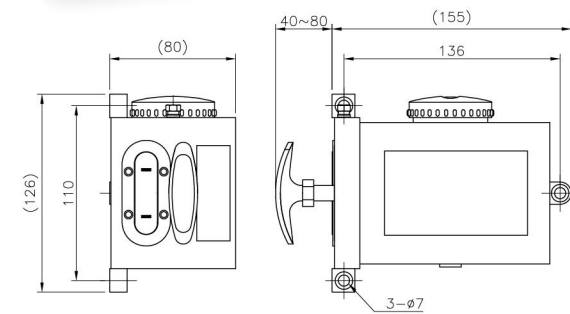
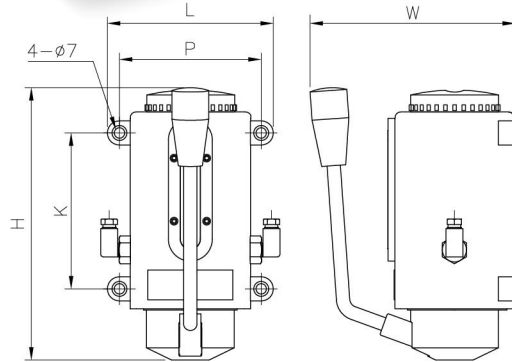
# Resistant Manual Lubricator

## YML Rock Type Oiler YMT Pull Type Oiler

1. Compact size for installation and easy operation.
2. Check valve equipped to prevent the reverse flow.
3. Apply to small-sized machine equipment with lower requirement level of lubrication system.
4. Oil viscosity (40°C) : 20~150cSt.

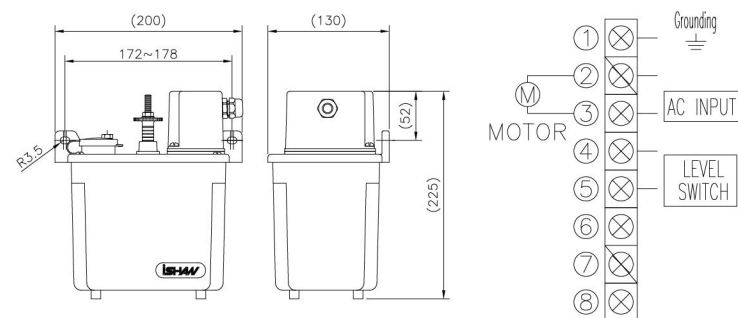
Model	LxWxH	PxK
YML-6	100x130x170	85x85
YML-8	120x150x200	100x110

Model	YML-6	YML-8	YMT-8
Output Volume (cc/cy)	6	8	8
Max. output Pressure MPa (kg/cm <sup>2</sup> )	1.5 (15)	1.5 (15)	0.5 (5)
Tank Capacity (cc)	350	600	600
Effective Capacity (cc)	250	450	550
Output Bore	Ø4 or Ø6	Ø4 or Ø6	Ø4
Direction of Bore	Left or Right	Left or Right	Upward or Downward
Weight (kg)	1.4	1.4	0.9
Oil viscosity (40°C)	20~150cSt	20~150cSt	20~150cSt



## YESA/YESB Automatic Manual Type Lubricator

1. CE mark
2. Float switch is option
3. Factory default of intermittent time complied with the client's request.



YESA

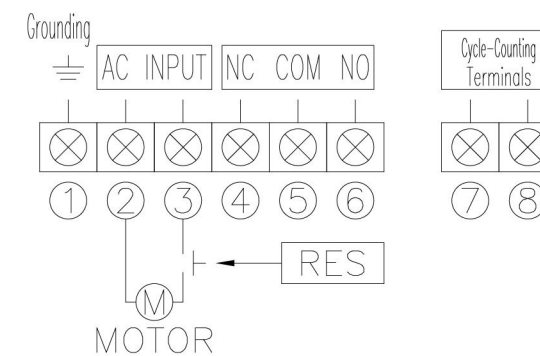
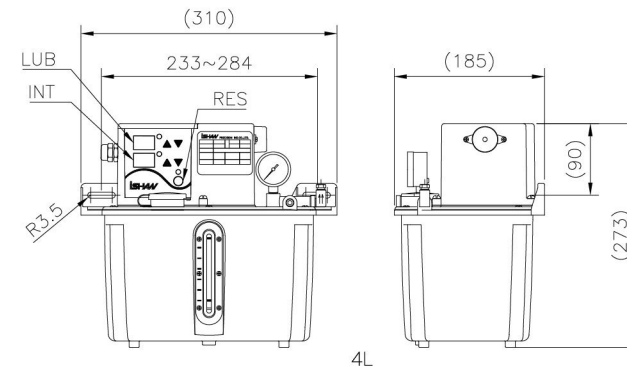
YESB

Model	Intermittent time(min)	Voltage (Single Phase)	Consumption Power (W)	Capacity of Terminal Output	Output bore	Float switch	Discharge Pressure MPa (kgf/cm <sup>2</sup> )	Output volume (cc/cy)	Tank capacity (L)
YESA	3/5/10/15/30/60	110V or 220V	5	-	Ø4 or Ø6	-	0.3 (3)	3-6	2
YESB	(No Adjustment)			AC 240V DC 200V 0.5A (Float Switch)	Ø4 or Ø6	O	0.3 (3)	3-6	2

# YET-A1 Resistant type Electric Lubricator

## YET-A1 Resistant Type Electric Lubricator

1. CE mark
2. Three operation modes as follows
  - (a) Lubrication : run lubrication time after the pump is switched on.
  - (b) Intermittence : run intermittent time after the pump is switched on.
  - (c) Memory : run previous action and remaining time after the pump is switched on.
3. Lubrication and intermittent time are adjustable.
4. Lubrication (second/minute) and intermittent (second/minute/hour/cycle) time units are adjustable.
5. The intervals can be set up based on machine operation cycle.
6. The indicator on the panel can display the operation of the lubricator.
7. Check valve equipped to prevent the reverse flow.
8. The over temperature/load protector is attached to protect the motor.
9. The pressure relief valve equipped on the lubricator can prolong the system life and reduce damage on the gear pump and tubing.
10. Float switch(NO contact) is designed to output signal and alarm when the lubricant is insufficient.
11. Pressure switch(NC contact) is upon request.
12. "RES" key can force the lubricator to feed the lubricant.
13. Feed the lubricant through proportion devices or other metering distributors.



Model	YET-A1	YET-A1P1		
Voltage (Single Phase)	110V or 220V			
Consumption Power (W)	78			
Output Power (W)	11			
Capacity of Terminal Output	0.5A			
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> )	0.7(7)			
Output Volume (cc/ min)	200			
Pressure Release device	X			
Float Switch	O			
Pressure Switch (kgf/cm <sup>2</sup> )	X	O		
Pressure Gauge	O			
Alarm Beeper	O			
Tank Capacity (L)	2	3	4	4(Metal)
Weight (kg)	2.7	2.9	3.3	3.7

Order Code | YET - A1 **P1** **004** **A** **B** 0 - **1** **06**

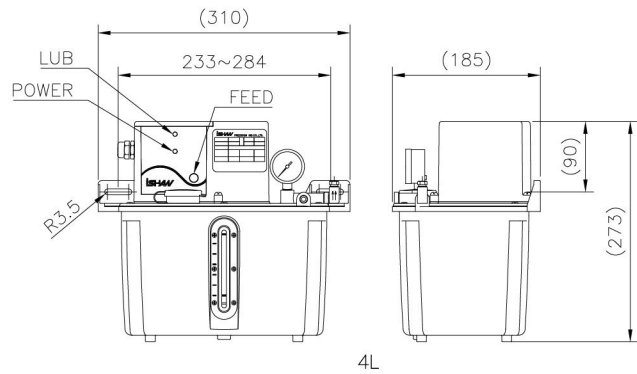
Control type	Pressure monitoring	Reservoir	Reservoir material	Mounting	Oil return device	Voltage	Output bore
A1 = Digital timer	P1 = with Null = without	002 = 2L 003 = 3L 004 = 4L 006 = 6L 008 = 8L	P = Resin (2/3/4L) S = Steel (6L up) A = Aluminum (Only 4L)	B= Rear bracket	0 = without	1 = 110V 2 = 220V	Ø4 = 4mm Ø6 = 6mm

# YET-C1

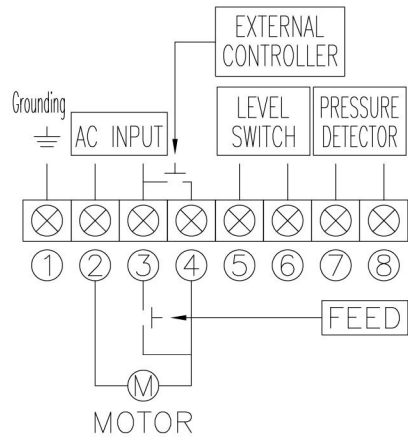
## Resistant type Electric Lubricator



4L



4L



### YET-C1 Resistant Type Electric Lubricator

1. CE mark
2. Check valve equipped to prevent the reverse flow.
3. The over temperature/load protector is attached to protect the motor.
4. The pressure relief valve equipped on the lubricator can prolong the system life and reduce damage on the gear pump and tubing.
5. The indicator on the panel can display the operation of the lubricator.
6. Float switch(NC contact) is designed to output signal when the lubricant is sufficient.
7. Pressure switch(NC contact) is upon request.
8. "FEED" key can force the lubricator to feed the lubricant.
9. Feed the lubricant through proportion devices or other metering distributors.

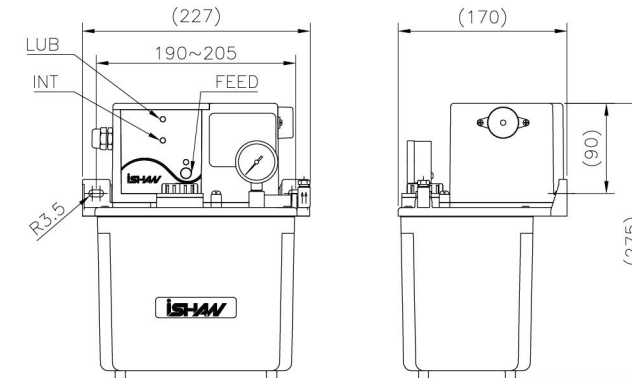
Model	YET-C1	YET-C1P1		
Voltage (Single Phase)	110V or 220V			
Consumption Power (W)	64			
Output Power (W)	8			
Capacity of Terminal Output	AC 240V/DC 200V 0.5A (Float switch) DC 12V 3A (Pressure switch)			
Lubrication time (second/minute)	Cooperate with PLC control system			
Intermittent Time (second/minute/hour/cycle)	Cooperate with PLC control system			
Output Bore	Ø4 or Ø6			
Max. Output Pressure MPa (kgf/cm <sup>2</sup> )	0.6 (6)			
Output Volume (cc/ min)	200			
Pressure Release device	X			
Float Switch	O			
Pressure Switch (kgf/cm <sup>2</sup> )	X	O		
Pressure Gauge	O			
Alarm Beeper	x			
Tank Capacity (L)	2	3	4	4(Metal)
Weight (kg)	2.6	2.9	3.2	3.6

# YET-D1

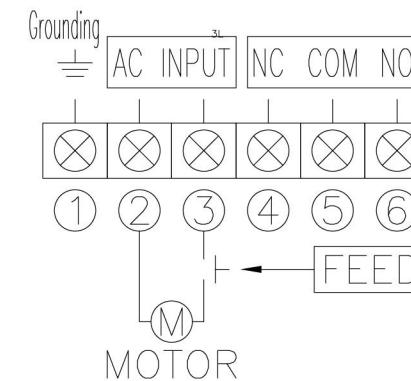
## Resistant type Electric Lubricator



3L



3L



### YET-D1 Resistant Type Electric Lubricator

1. CE mark
2. Two operation modes as follows
  - (a) Lubrication : run lubrication time after the pump is switched on.
  - (b) Intermittence : run intermittent time after the pump is switched on.
3. Lubrication time and intermittence time will be set as per customer's request. The default is 30 sec./ 35 min.
4. Float switch(NO contact) is designed to output signal and alarm when the lubricant is insufficient.
5. The over temperature/load protector is attached to protect the motor.
6. Dump valve is to design to relieve the pressure in the main line to make the piston distributor completely expel the lubricant.
7. "FEED" key can force the lubricator to feed the lubricant.

Model	YET-D1			
Voltage (Single Phase)	110V or 220V			
Consumption Power (W)	64			
Output Power (W)	8			
Capacity of Terminal Output	0.5A			
Lubrication time (second)	3/5/10/15/20/30/40/50			
Intermittent Time (minute)	5/10/15/20/35/40/50/60/70/90/100			
Output Bore	Ø4 or Ø6			
Max. Output Pressure MPa (kgf/cm <sup>2</sup> )	0.6(6)			
Output Volume (cc/ min)	200			
Pressure Release device	X			
Float Switch	O			
Pressure Switch (kgf/cm <sup>2</sup> )	X			
Pressure Gauge	O			
Alarm Beeper	O			
Tank Capacity (L)	2	3	4	4(Metal)
Weight (kg)	2.7	2.9	3	3.5

Order Code | YET - C1 **P1** **004** **A** B 0 - **1** **06**

Control type	Pressure monitoring	Reservoir	Reservoir material	Mounting	Oil return device	Voltage	Output bore
C1 = PLC	P1 = with Null = without	002 = 2L 003 = 3L 004 = 4L 006 = 6L 008 = 8L	P = Resin (2/3/4L) S = Steel (6L up) A = Aluminum (Only 4L)	B= Rear bracket	0 = without	1 = 110V 2 = 220V	04 = 4mm 06 = 6mm

Order Code | YET - D1 **003** **P** B 0 - **1** **06**

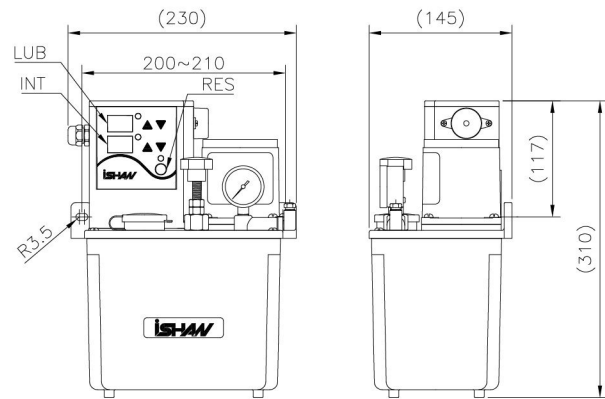
Control type	Reservoir	Reservoir material	Mounting	Oil return device	Voltage	Output bore
D1 = Dip timer	002 = 2L 003 = 3L 004 = 4L 006 = 6L 008 = 8L	P = Resin (2/3/4L) S = Steel (6L up) A = Aluminum (Only 4L)	B= Rear bracket	0 = without	1 = 110V 2 = 220V	04 = 4mm 06 = 6mm

# YAE-A1

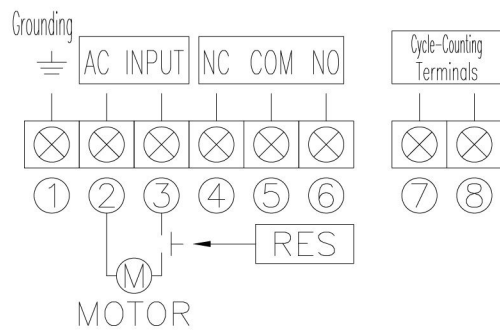
## Resistant Type Electric Lubricator



3L



3L



### YAE-A1 Resistant Type Electric Lubricator

1. CE mark
2. Three operation modes as follows
  - (a) Lubrication : run lubrication time after the pump is switched on.
  - (b) Intermittence : run intermittent time after the pump is switched on.
  - (c) Memory : run previous action and remaining time after the pump is switched on.
3. Lubrication and intermittent time are adjustable.
4. Lubrication (second/minute) and intermittent (second/minute/hour/cycle) time units are adjustable.
5. The intervals can be set up based on machine operation cycle.
6. The indicator on the panel can display the operation of the lubricator.
7. Check valve equipped to prevent the reverse flow.
8. The motor is designed to continuously run.
9. The over temperature/load protector is attached to protect the motor.
10. The pressure relief valve equipped on the lubricator can prolong the system life and reduce damage on the gear pump and tubing.
11. Float switch(NO contact) is designed to output signal and alarm when the lubricant is insufficient.
12. Pressure switch is upon request.
13. "RES" key can force the lubricator to feed the lubricant.
14. Feed the lubricant through proportion devices or other metering distributors.

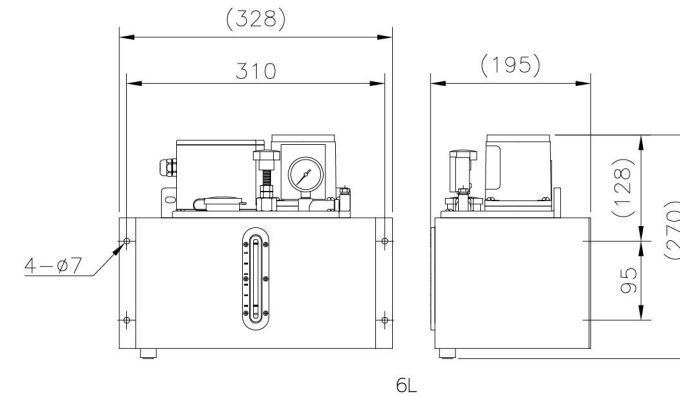
Model	YAE-A1	YAE-A1P1		
Voltage (Single Phase)	110V or 220V			
Consumption Power (W)	56			
Output Power (W)	25			
Capacity of Terminal Output	0.5A			
Lubrication time (second/minute)	1-999			
Intermittent Time (second/minute/hour/cycle)	1-999			
Output Bore	Ø4 or Ø6			
Max. Output Pressure MPa (kgf/cm <sup>2</sup> )	1 (10)			
Output Volume (cc/ min)	250 (Standard), 400 (Option)			
Pressure Release device	X			
Float Switch	O			
Pressure Switch	X	O		
Pressure Gauge	O			
Alarm Beeper	O			
Tank Capacity (L)	3	4	4(Metal)	8
Weight (kg)	4.2	4.5	4.9	10.3

# YAC-H1

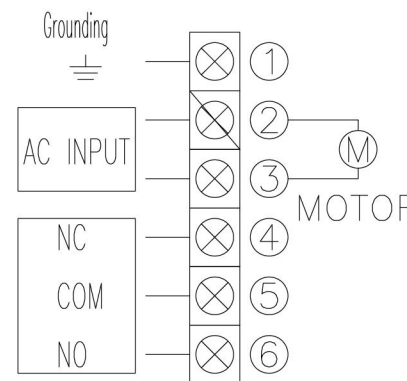
## Resistant Type Electric Lubricator



6L



6L



### YAC-H1 Resistant Type Electric Lubricator

1. CE mark
2. Check valve equipped to prevent the reverse flow.
3. The motor is designed to continuously run.
4. The over temperature/load protector is attached to protect the motor.
5. The pressure relief valve equipped on the lubricator can prolong the system life and reduce damage on the gear pump and tubing.
6. Float switch(NC contact) is designed to output signal and alarm when the lubricant is sufficient.
7. Pressure switch is upon request.
8. Feed the lubricant through proportion devices or other metering distributors.

Model	YAC-H1	YAC-H1P1		
Voltage (Single Phase)	110V or 220V			
Consumption Power (W)	56			
Output Power (W)	25			
Capacity of Terminal Output	AC 240V/DC 200V 0.5A (Float switch) DC 12V 3A (Pressure switch)			
Lubrication time (second/minute)	Cooperate with PLC control system			
Intermittent Time (second/minute/hour/cycle)	Cooperate with PLC control system			
Output Bore	Ø4 or Ø6			
Max. Output Pressure MPa (kgf/cm <sup>2</sup> )	1 (10)			
Output Volume (cc/ min)	250 (Standard), 400 (Option)			
Pressure Release device	X			
Float Switch	O			
Pressure Switch	X	O		
Pressure Gauge	O			
Alarm Beeper	X			
Tank Capacity (L)	3	4	4(Metal)	8
Weight (kg)	4.2	4.5	4.9	10.3

Order Code | YAE - A1 **P1** **003** **P** B 0 - **1** **06** **B**

Control type	Pressure monitoring	Reservoir	Reservoir material	Mounting	Oil return device	Voltage	Output bore	Output
A1 = Digital timer	P1 = with Null = without	003 = 3L 004 = 4L 006 = 6L 008 = 8L 020 = 20L	P = Resin (3/4L) S = Steel (6L up) A = Aluminum (Only 4L)	B = Rear bracket	0 = without	1 = 110V 2 = 220V	04 = 4mm 06 = 6mm	B = 25W 250 c.c./min. C = 25W 400 c.c./min.

Order Code | YAC - H1 **P1** **006** **S** B 0 - **1** **06** **B**

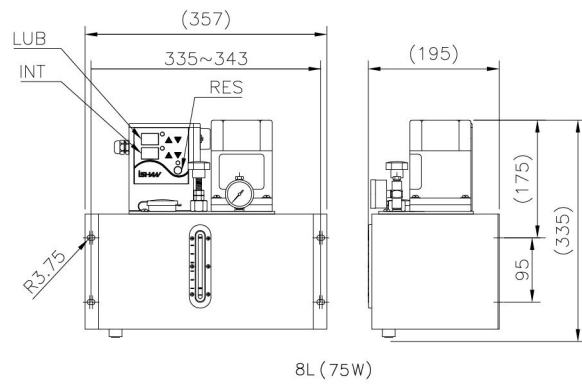
Control type	Pressure monitoring	Reservoir	Reservoir material	Mounting	Oil return device	Voltage	Output bore	Output
H1 = PLC	P1 = with Null = without	003 = 3L 004 = 4L 006 = 6L 008 = 8L 020 = 20L	P = Resin (3/4L) S = Steel (6L up) A = Aluminum (Only 4L)	B = Rear bracket	0 = without	1 = 110V 2 = 220V	04 = 4mm 06 = 6mm	B = 25W 250 c.c./min. C = 25W 400 c.c./min.

# YAE-A1

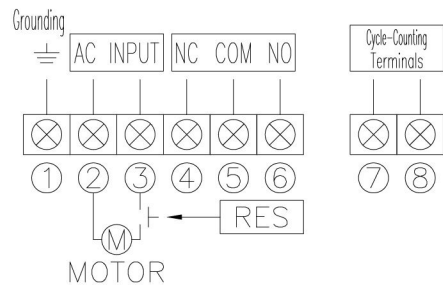
## Resistant Type Electric Lubricator



8L



8L (75W)



### YAE-A1 (75W & 90W) Resistant Type Electric Lubricator

- CE mark
- Three operation modes as follows
  - Lubrication : run lubrication time after the pump is switched on.
  - Intermittence : run intermittent time after the pump is switched on.
  - Memory : run previous action and remaining time after the pump is switched on.
- Lubrication and intermittent time are adjustable.
- Lubrication (second/minute) and intermittent (second/minute/hour/cycle) time units are adjustable.
- The intervals can be set up based on machine operation cycle.
- The indicator on the panel can display the operation of the lubricator.
- Check valve equipped to prevent the reverse flow.
- The motor is designed to continuously run.
- The over temperature/load protector is attached to protect the motor.
- The pressure relief valve equipped on the lubricator can prolong the system life and reduce damage on the gear pump and tubing.
- Float switch(NO contact) is designed to output signal and alarm when the lubricant is insufficient.
- Pressure switch is upon request.
- "RES" key can force the lubricator to feed the lubricant.
- Feed the lubricant through proportion devices or other metering distributors.

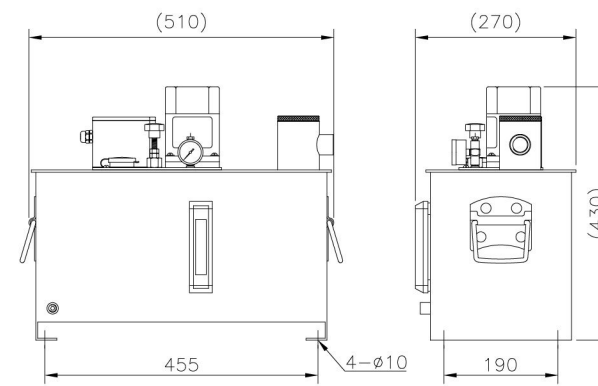
Model	YAE-A1	YAE-A1P1
Voltage (Single Phase)	110V or 220V	
Consumption Power (W)	176 / 210	
Output Power (W)	75 / 90	
Capacity of Terminal Output	0.5A	
Lubrication time (second/minute)	1-999	
Intermittent Time (second/minute/hour/cycle)	1-999	
Output Bore	Ø4 or Ø6	
Max. Output Pressure MPa (kgf/cm <sup>2</sup> )	3 (30)	
Output Volume (cc/ min)	600	
Pressure Release device	X	
Float Switch	O	
Pressure Switch	X	O
Pressure Gauge	O	
Alarm Beeper	O	
Tank Capacity (L)	8	
Weight (kg)	10	

# YAC-H1

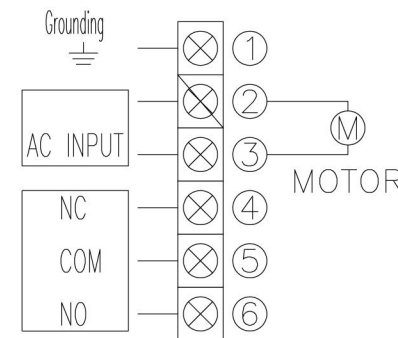
## Resistant Type Electric Lubricator



20L



20L with oil return device(75W)



### YAC-H1 (75W & 90W) Resistant Type Electric Lubricator

- CE mark
- Check valve equipped to prevent the reverse flow.
- The motor is designed to continuously run.
- The over temperature/load protector is attached to protect the motor.
- The pressure relief valve equipped on the lubricator can prolong the system life and reduce damage on the gear pump and tubing.
- Float switch is designed to output signal and alarm when the lubricant is insufficient.
- Pressure switch(NC contact) is upon request.
- Feed the lubricant through proportion devices or other metering distributors.
- Apply to midium-sized and large-sized machines.

Model	YAC-H1	YAC-H1P1
Voltage (Single Phase)	110V or 220V	
Consumption Power (W)	176 / 210	
Output Power (W)	75 / 90	
Capacity of Terminal Output	AC 240V/DC 200V 0.5A (Float switch) DC 12V 3A (Pressure switch)	
Lubrication time (second/minute)	Cooperate with PLC control system	
Intermittent Time (second/minute/hour/cycle)	Cooperate with PLC control system	
Output Bore	Ø4 or Ø6	
Max. Output Pressure MPa (kgf/cm <sup>2</sup> )	3 (30)	
Output Volume (cc/ min)	600	
Pressure Release device	X	
Float Switch	O	
Pressure Switch	X	O
Pressure Gauge	O	
Alarm Beeper	X	
Tank Capacity (L)	8	
Weight (kg)	10	

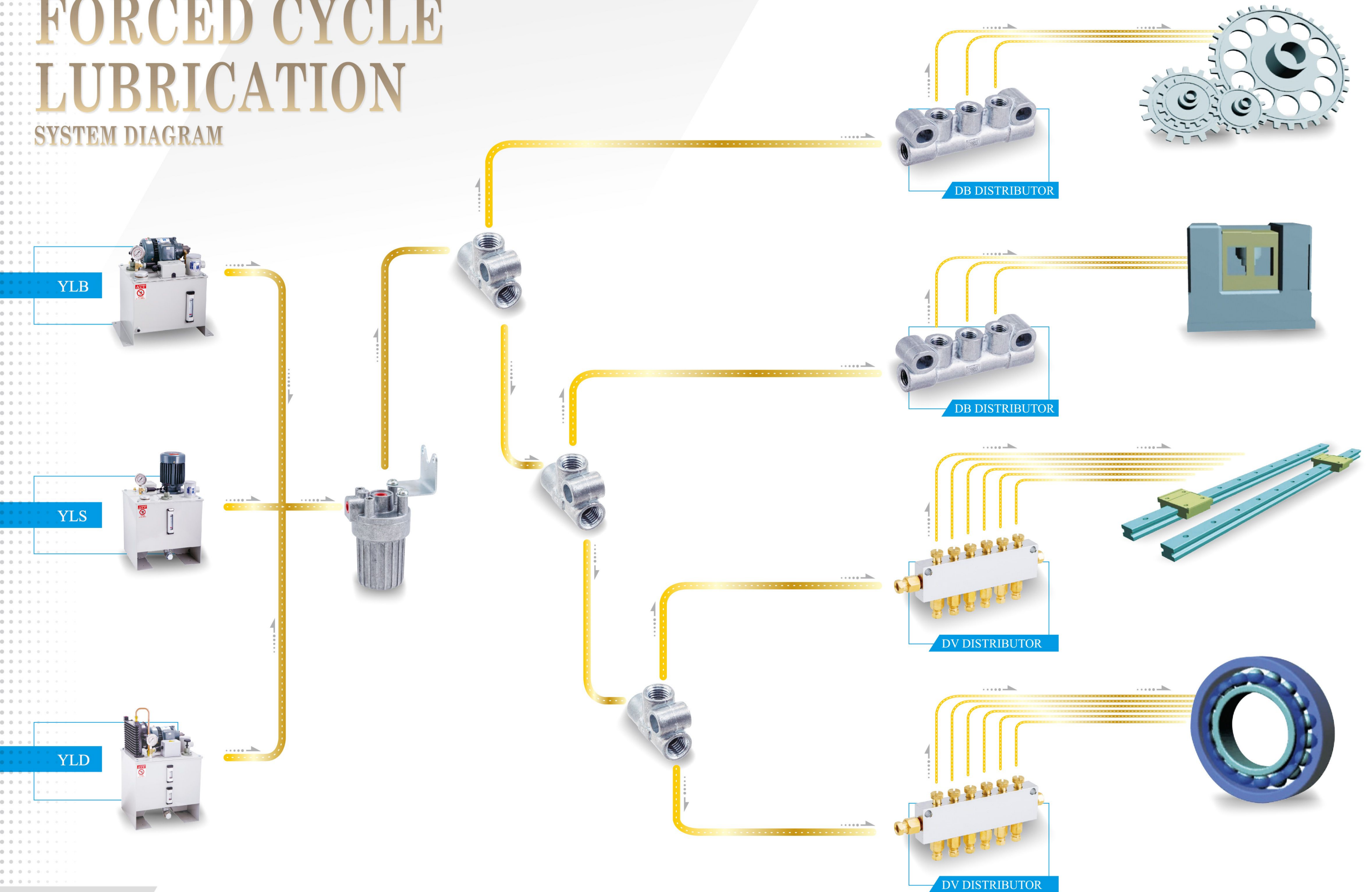
Order Code | YAE - A1 **P1** **008** S **B** **0** - **1** **06** **D**

Control type	Pressure monitoring	Reservoir	Reservoir material	Mounting	Oil return device	Voltage	Output bore	Output
A1 = Digital timer	P1 = with Null = without	008 = 8L 020 = 20L	S = Steel	B= Rear bracket S=Standing mount	0 = without 1 = with	1 = 110V 2 = 220V	04 = 4mm 06 = 6mm	D = 75W 600 c.c./min. E = 90W 600 c.c./min.

Order Code | YAC - H1 **P1** **020** S **S** **0** - **1** **06** - **D**

Control type	Pressure monitoring	Reservoir	Reservoir material	Mounting	Oil return device	Voltage	Output bore	Output
H1 = PLC	P1 = with Null = without	008 = 8L 020 = 20L	S = Steel	B= Rear bracket S=Standing mount (20L up)	0 = without 1 = with	1 = 110V 2 = 220V	04 = 4mm 06 = 6mm	D = 75W 600 c.c./min. E = 90W 600 c.c./min.

# FORCED CYCLE LUBRICATION SYSTEM DIAGRAM



# Forced Cycle Lubrication System



YLB-20H



YLS-30H



YLD-30H

## YLB & YLS & YLD Forced Cycle Lubricator

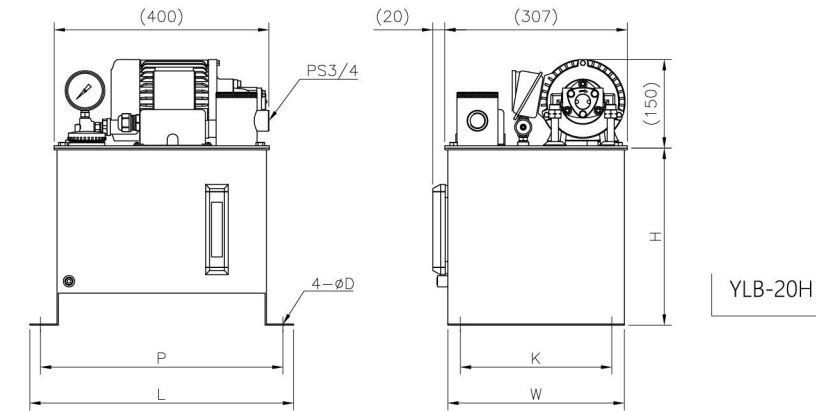
1. Pressure switch is to detect pressure value in the tubing to ensure machine function.
2. Float switch is designed to output signal and alarm when the lubricant is insufficient.
3. Attached pressure regulating valve to adjust pressure value in the tubing.
4. Filter is equipped to filter out impurities and iron filings to ensure the cleanliness of the lubricant.
5. The lubricant can be circulating to reduce its consumption.
6. Radiator is designed to cool the lubricant to prolong lubrication performance.(YLD ONLY)

Model	YLB
Voltage (Three Phase)	220V/ 380V or 220V/ 440V
Power (HP)	1/4
Capacity of Terminal Output	0.5A 240Vac/ 200Vdc(Float switch)
Pole	4
Current Frequency (Hz)	50/60
Max. Output Pressure Mpa(kgf/cm <sup>2</sup> )	0.5(5)
Output Volume (L/min) at Ø6	2.7 (TOP-11A) 4.5 (TOP-12A) 6.3 (TOP-13A)
Float Switch	○
Pressure Switch (kgf/cm <sup>2</sup> )	X(Optional)
Pressure Gauge	○
Output Bore	Ø6 or Ø8or Ø10
Alarm Beeper	X
Tank Capacity (L)	20 / 30 / 40 / 60 / 80

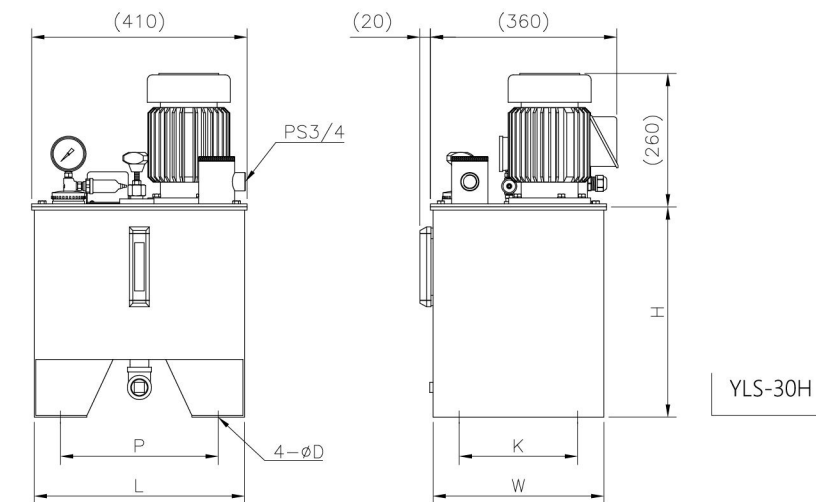
Model	YLS
Voltage (Three Phase)	220V/ 380V or 220V/ 440V
Power (HP)	1/2
Capacity of Terminal Output	0.3A(Float switch) 3A(Pressure switch)
Pole	4
Current Frequency (Hz)	50/60
Max. Output Pressure Mpa(kgf/cm <sup>2</sup> )	1.5(15)
Output Volume (L/min) at Ø6	2.4
Float Switch	○
Pressure Switch (kgf/cm <sup>2</sup> )	○
Pressure Gauge	○
Output Bore	Ø6 or Ø8or Ø10
Alarm Beeper	X
Tank Capacity (L)	30 / 40 / 60 / 80 / 100

Model	YLD
Voltage (Three Phase)	220V/ 380V or 220V/ 440V
Power (HP)	1/4
Capacity of Terminal Output	0.3A(Float switch) 3A(Pressure switch)
Pole	4
Current Frequency (Hz)	50/60
Max. Output Pressure Mpa(kgf/cm <sup>2</sup> )	0.5(5)
Output Volume (L/min) at Ø6	2.7 (TOP-11A) 4.5 (TOP-12A) 6.3 (TOP-13A)
Float Switch	○
Pressure Switch (kgf/cm <sup>2</sup> )	○
Pressure Gauge	○
Output Bore	Ø6 or Ø8or Ø10
Alarm Beeper	X
Tank Capacity (L)	30 / 40

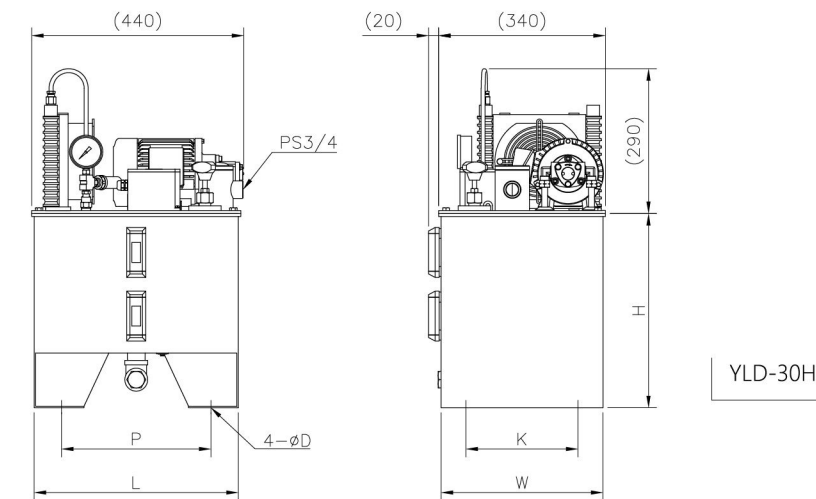
# Forced Cycle Lubrication System



YLB-20H

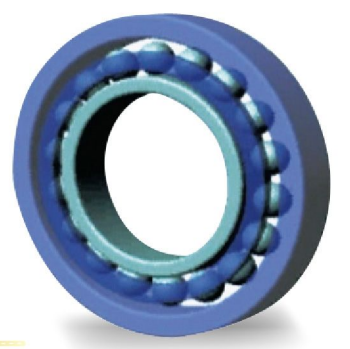
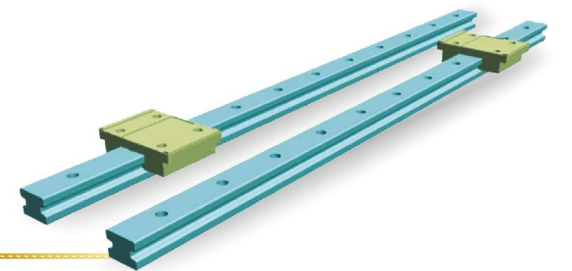
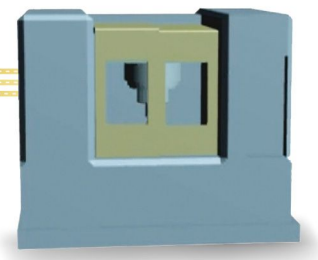
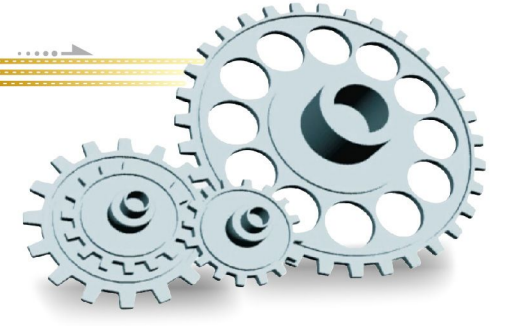
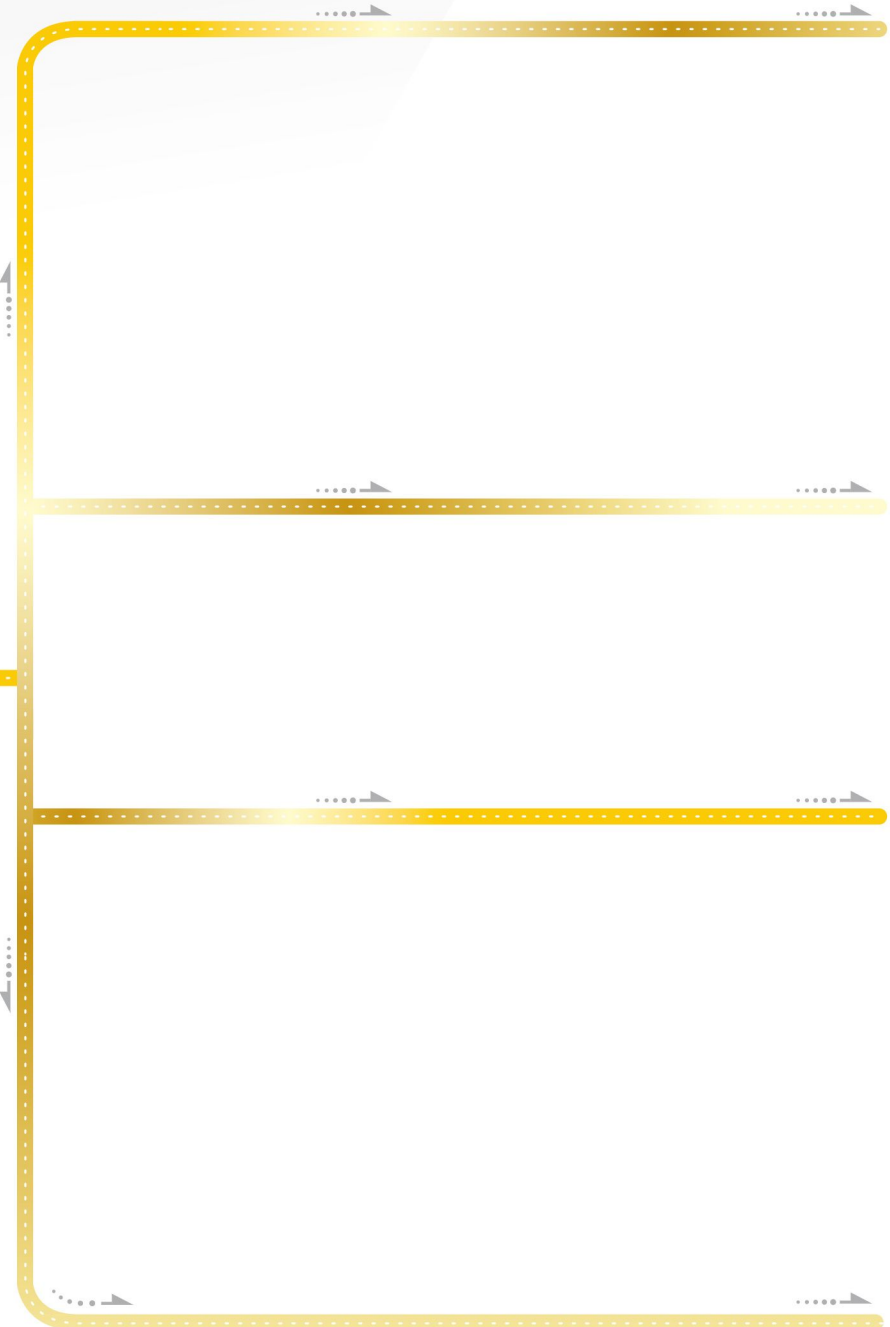


YLS-30H

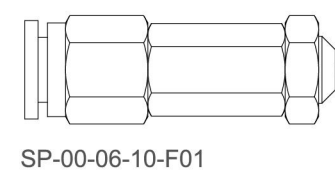
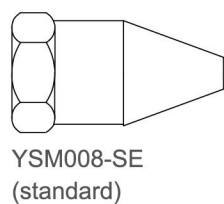


YLD-30H

# SPRAY MIST LUBRICATION SYSTEM DIAGRAM

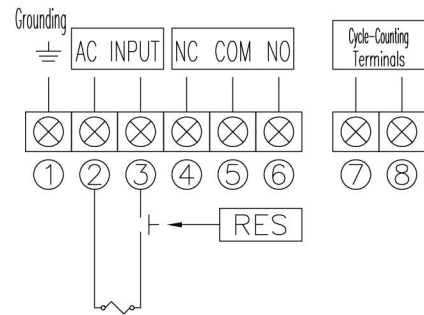
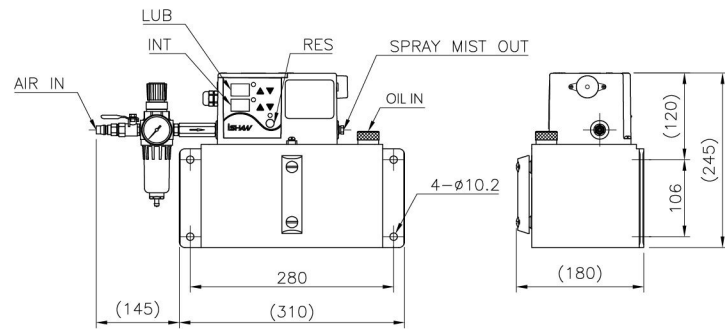


Refilled with ONLY New Oil ranged from 1~68 cSt.  
 Use tubing of Ø6 for lubrication line limited in 2 meters with max. three outlets to avoid lubrication system failure  
 Spraying nozzle order code.



# YSM-A

## Spray Mist Lubricator



Solenoid Valve

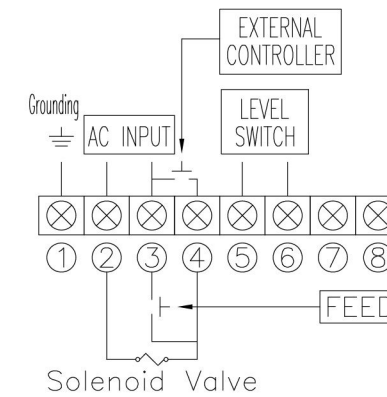
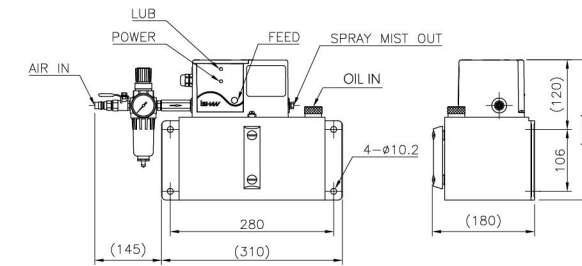
### YSM-A Spray Mist Lubricator

1. CE mark
2. Three operation modes as follows
  - (a) Lubrication : run lubrication time after the pump is switched on.
  - (b) Intermittence : run intermittent time after the pump is switched on.
  - (c) Memory : run previous action and remaining time x after the pump is switched on.
3. Lubrication and intermittent time are adjustable.
4. Lubrication (second/minute) and intermittent (second/minute/hour/cycle) time units are adjustable.
5. The intervals can be set up based on machine operation cycle.
6. The indicator on the panel can display the operation of the lubricator.
7. Designed to achieve effectiveness of cooling, lubrication, and cleaning and increases machine uptime and reduce worn out.
8. Float switch is designed to output signal and alarm when the lubricant is insufficient.
9. The oil volume is adjustable.
10. High cooling efficiency.
11. Applied to high-speed and high-precision machining.
12. Min. air flow 31L/min and min. pressure of compressed air at 0.3 MPa (3 kgf/cm<sup>2</sup>)

Model	YSM-A
Voltage (Single Phase)	110V or 220V
Capacity of Terminal Output	DC/AC 250V 3A
Lubrication time (0.1 second)	1-999
Intermittent Time (second/minute/cycle)	1-999
Output Bore	φ6
Air Pressure Range MPa (kgf/cm <sup>2</sup> )	0.3-0.5 (3-5)
Spray Particle Size	4-10 μm
Alarm Beeper	0
Float Switch	0
Tank Capacity (L)	4
Pressure Gauge	0
Weight (kg)	10.1

# YSM-C

## Spray Mist Lubricator



Solenoid Valve

### YSM-C Spray Mist Lubricator

1. CE mark
2. The indicator on the panel can display the operation of the lubricator.
3. Float switch is designed to output signal and alarm when the lubricant is insufficient.
4. Designed to achieve effectiveness of cooling, lubrication, and cleaning and increases machine uptime and reduce worn out.
5. The oil volume is adjustable.
6. High cooling efficiency.
7. Applied to high-speed and high-precision machining.
8. Min. air flow 31L/min and min. pressure of compressed air at 0.3 MPa (3 kgf/cm<sup>2</sup>)

Model	YSM-C
Voltage (Single Phase)	110V or 220V
Capacity of Terminal Output	0.3A (Float Switch)
Lubrication time (0.1 second)	Cooperate with PLC control system
Intermittent Time (second/minute/cycle)	Cooperate with PLC control system
Output Bore	φ6
Air Pressure Range MPa (kgf/cm <sup>2</sup> )	0.3-0.5 (3-5)
Spray Particle Size	4-10 μm
Alarm Beeper	X
Float Switch	0
Tank Capacity (L)	4
Pressure Gauge	0
Weight (kg)	10.1

Order Code | YSM - A 4L - 1 06

Control type	Voltage	Output bore
A = Digital timer	1 = 110V 2 = 220V	06 = 6mm

Order Code | YSM - C 4L - 1 06

Control type	Voltage	Output bore
C = PLC	1 = 110V 2 = 220V	06 = 6mm

# YSC-U

## Mist Sprayer

### YSC-U-1 / YSC-U-2 / YSC-U-3 Mist Sprayer

#### Principle

The compressed air and oil carried out through coaxial lines and mixed in the nozzle to produce oil mist injecting to lubrication point. Designed to achieve effectiveness of cooling, lubricating and cleaning and to increase machine uptime and reduce worn out.

#### Feature

1. Provide cooling, lubricating and cleaning in the process.
2. Increased production speed .
3. Tool lifes increased and ensure quality of fabrication.
4. Applicatins for machining the surface of alloy and hard metal.
5. Improved seal to prevent inner leaking and product lives increased.
6. A magnetic mounting base is esay to install on the reservoir.

#### Application

Applications of YSC-U series for machine tools includes milling, rolling, cutting, drilling, boring, forming among others.

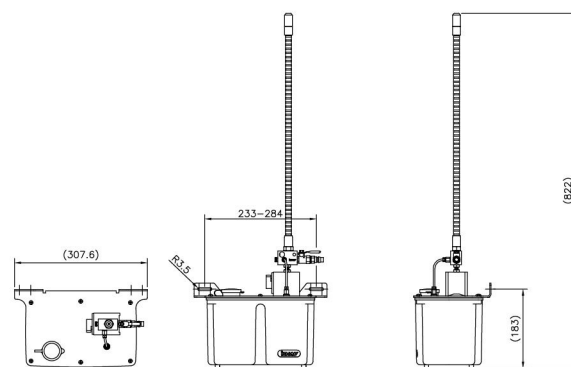
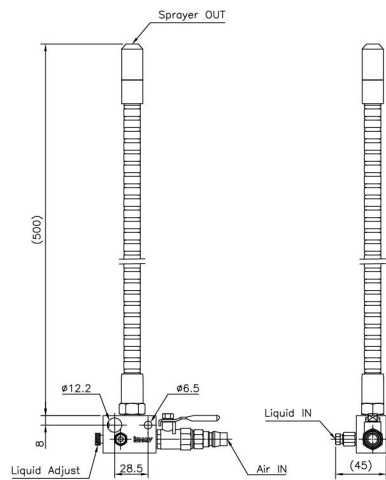
#### Remark

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

#### YSC oil consumption test results

Liquid	Consumption c.c./ min
Water	16
Oil (R32)	7

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



# SD

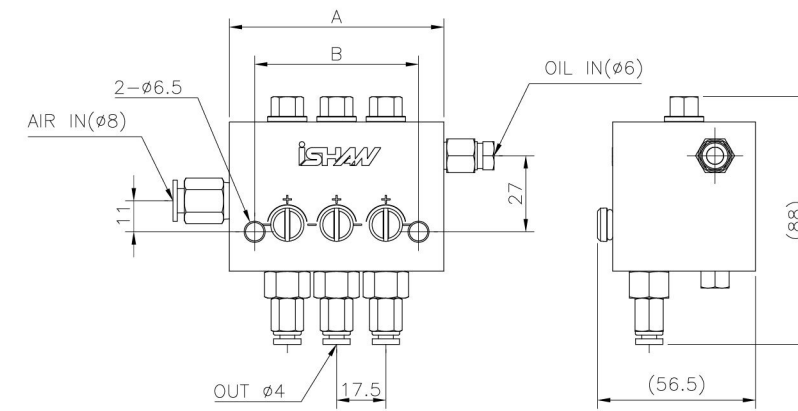
## Spray Oil+Air Mixer

### SD Spray Oil+Air Mixer

"The system consists of SD mixer, compressed air and volumetric type lubricator as oil + air lubrication system. The volumetric lubricator is to feed metered quantity to the mixer. Air and oil mixed in the block and then carried out through tubing to each lubrication point. Designed to achieve effectiveness of cooling, lubrication and increases machine uptime and reduce worn out. Working pressure 3~5Kgf/cm<sup>2</sup>.

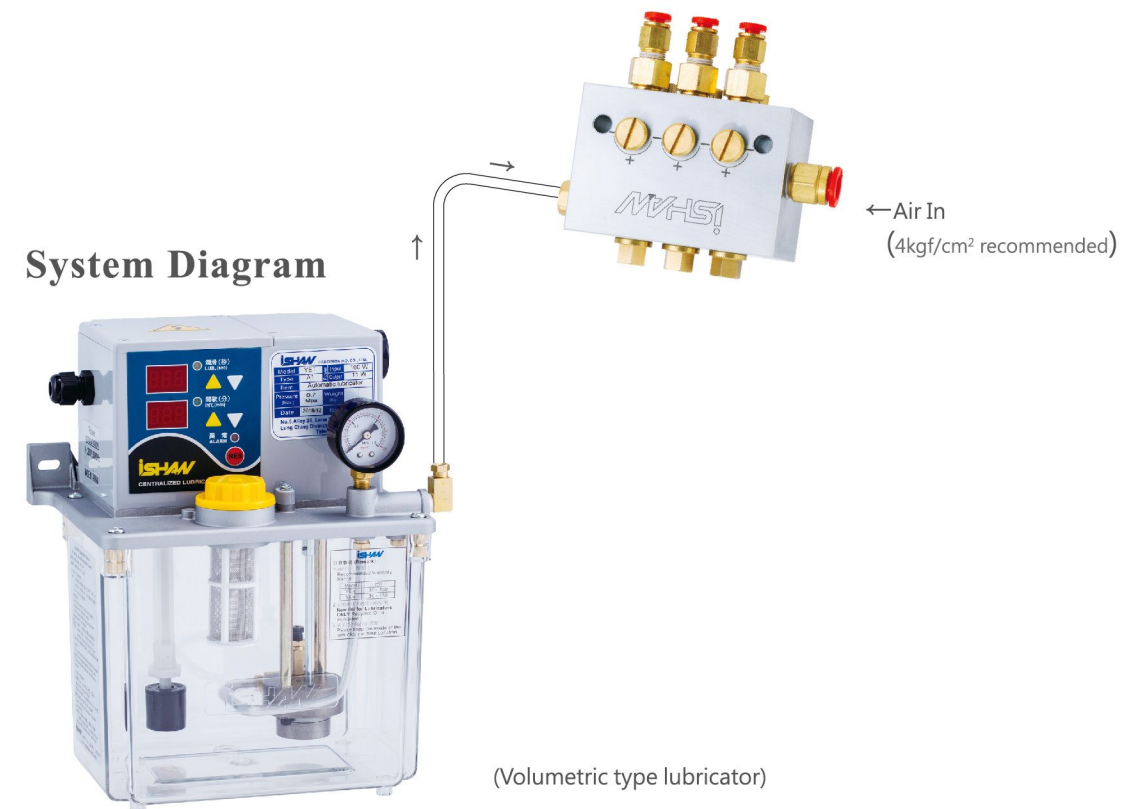


SD-3



Model	Outlet	A	B	Metered Quantity(cc/stroke)
SD-1	1	41.2	23.2	0.1 0.16 0.2 0.3
SD-2	2	58.7	40.7	
SD-3	3	76.2	58.2	
SD-4	4	93.7	75.7	
SD-5	5	111.2	93.2	

### System Diagram



# GREASE LUBRICATION SYSTEM DIAGRAM

YGL-S



PISTON GREASE LUBRICATOR

YGL-A

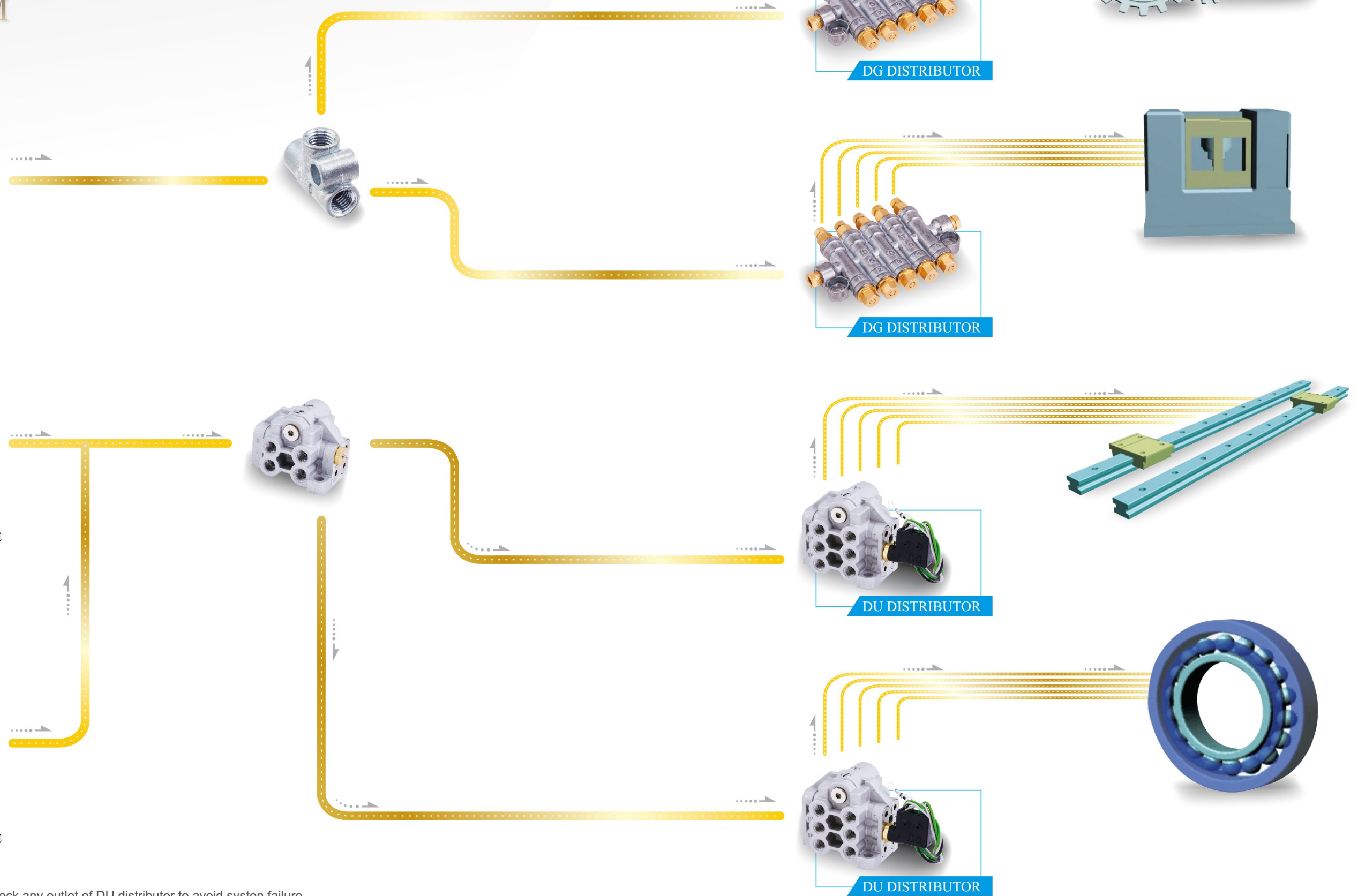


RESISTANCE GREASE LUBRICATOR

YGL-T



RESISTANCE GREASE LUBRICATOR



Don't block any outlet of DU distributor to avoid system failure  
Recommended grease grade NLGI No. 0/00.

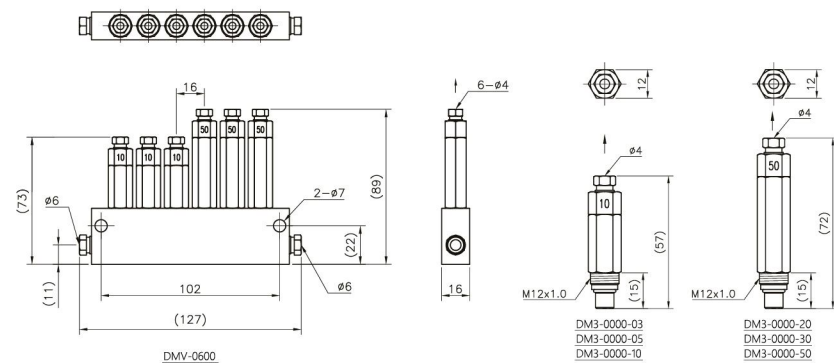
# GREASE Distributor



DMV-0600

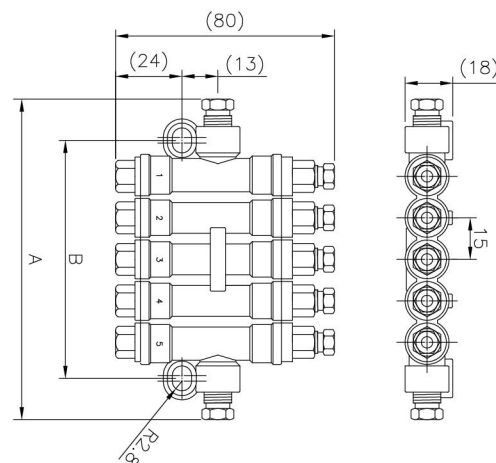
## DM Grease Piston Distributor

Model	Number of Outlet(N)	A (mm)	B (mm)	Output Volume (c.c./stroke)	Model	Mark	Metered quantity (c.c.)
DMV-0100	1	33	22	0.03	DM3-0000-03	03	0.03
DMV-0200	2	49	38	0.05	DM3-0000-05	05	0.05
DMV-0300	3	65	54	0.1	DM3-0000-10	10	0.1
DMV-0400	4	81	70	0.2	DM3-0000-20	20	0.2
DMV-0500	5	97	86	0.3	DM3-0000-30	30	0.3
DMV-0600	6	113	102	0.5	DM3-0000-50	50	0.5

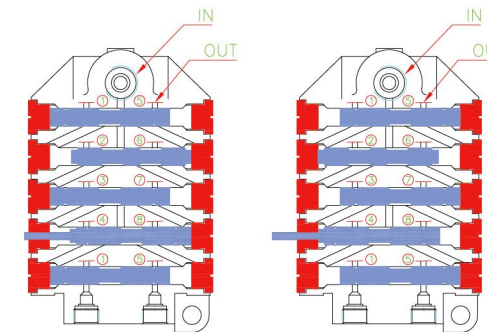
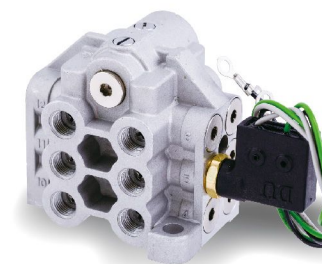
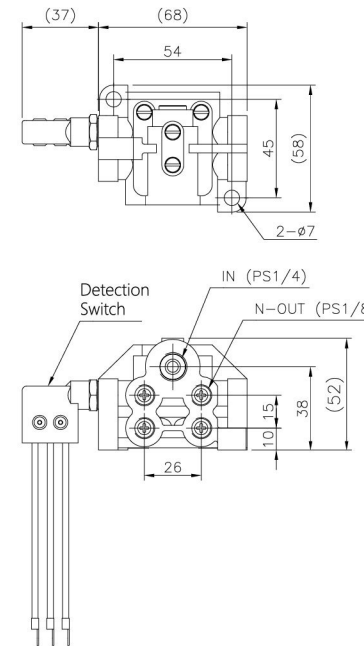
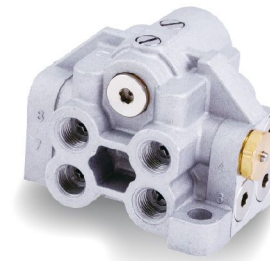


## DG Grease Piston Distributor

Model	Number of Outlet	A	B	Metered quantity (c.c.)	Weight (g)
DG-0200	2	75	39-43		168
DG-0300	3	90	54-58	0.3	232
DG-0400	4	105	69-73	0.4	299
DG-0500	5	120	84-88	0.5	359
DG-0600	6	135	99-103		426



DG-0500



## DU Grease Progressive Distributor

Model	Detection Switch	Number of Outlet (N)	Metered Quantity (cc/stroke)	Max. Output Pressure MPa(kgf/cm <sup>2</sup> )	Weight (g)
DU-4T	X	4	0.33	15(150)	350
DU-4P	O				
DU-6T	X	6			
DU-6P	O				
DU-8T	X	8			
DU-8P	O				
DU-10T	X	10			
DU-10P	O				
DU-12T	X	12			
DU-12P	O				

## 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 any outlet on purpose. The distributor CAN NOT operate at this condition.

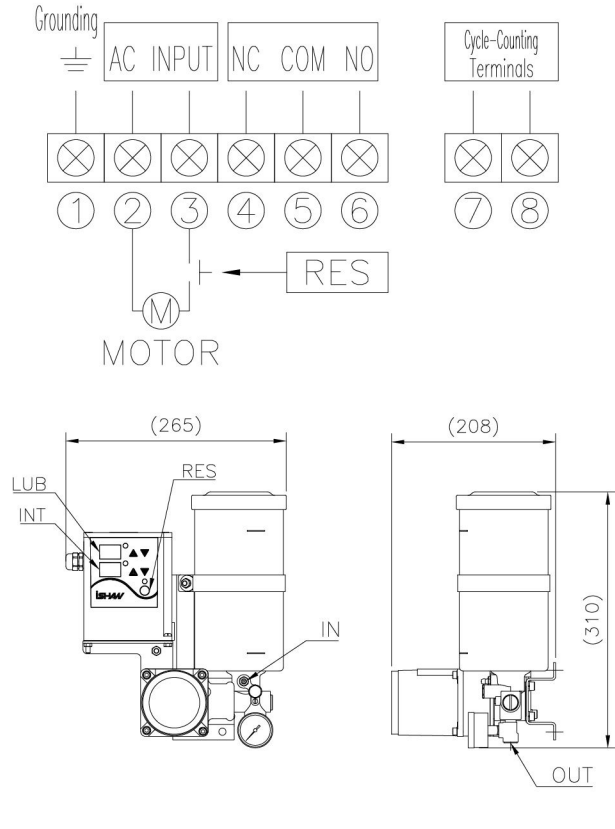
# YGL-A

## Grease Resistance Lubricator



- ### YGL-A Grease Resistance Lubricator
- CE mark
  - Three operation modes as follows
    - Lubrication : run lubrication time after the pump is switched on.
    - Intermittence : run intermittent time after the pump is switched on.
    - Memory : run previous action and remaining time after the pump is switched on.
  - Lubrication and intermittent time are adjustable.
  - Lubrication (second) and intermittent (minute/hour/cycle) time units are adjustable.
  - The intervals can be set up based on machine operation cycle.
  - The indicator on the panel can display the operation of the lubricator.
  - The pressure relief valve equipped on the lubricator can prolong the system life and reduce damage on the gear pump and tubing.
  - "RES" key can force the lubricator to feed grease
  - Feed grease through progressive feeders.
  - Spring loaded follower type can feed NLGI grade No.1 only.

Model	YGL-A		
Voltage	110V or 220V (Single Phase)	DC24V	
Consumption Power (W)	56	75	
Output Power (W)	25	28	
Capacity of Terminal Output	DC/AC 250V 3A		
Lubrication Time (second)	1-999		
Intermittent Time (minute/hour/cycle)	1-999		
Output Bore	PT1/4		
Max. Output Pressure MPa (kgf/cm <sup>2</sup> )	8-10(80-100)		
Output Volume (c.c./ min)	Above 13		
Pressure Gauge	O		
Cup Capacity (cc)	800	1200	2000
Weight (kg)	3.7	4.6	5



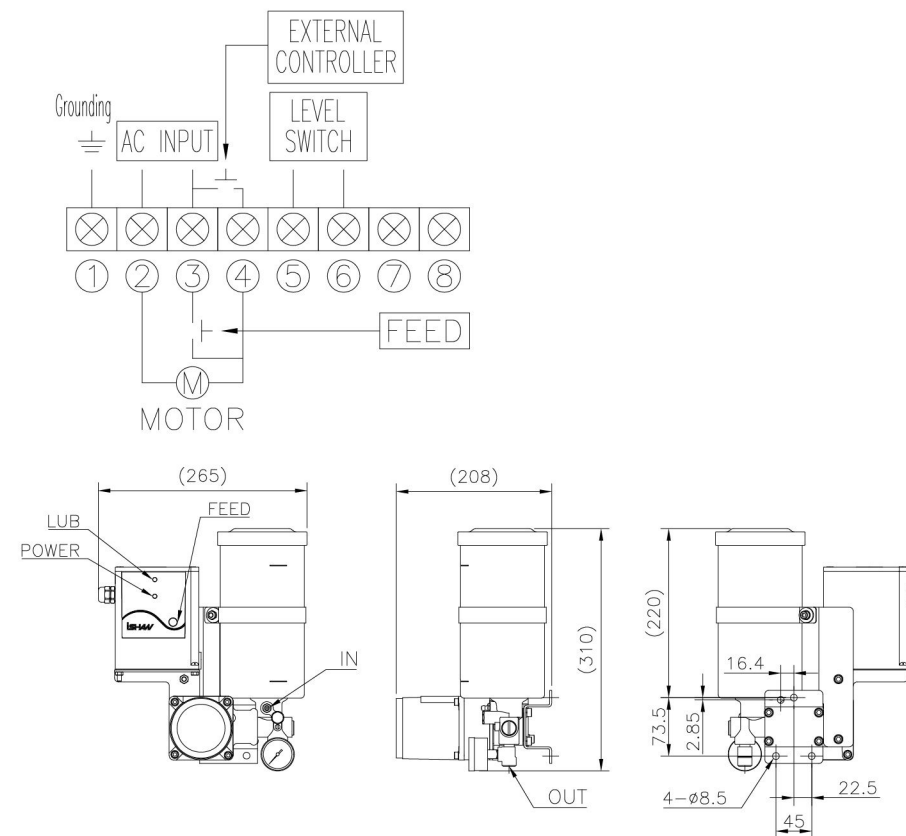
# YGL-C

## Grease Resistance Lubricator



- ### YGL-C Grease Resistance Lubricator
- CE mark
  - The indicator on the panel can display the operation of the lubricator.
  - The pressure relief valve equipped on the lubricator can prolong the system life and reduce damage on the gear pump and tubing.
  - "FEED" key can force the lubricator to feed the lubricant.
  - Feed grease through progressive feeders.

Model	YGL-C		
Voltage (Single Phase)	110V or 220V		
Consumption Power (W)	56		
Output Power (W)	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 (c.c./ min)	Above 13		
Pressure Gauge	O		
Tank Capacity (cc)	800	1200	2000
Weight (kg)	3.6	4.4	4.9



Order Code | YGL - A **120** - **1** 06

Control type	Reservoir volume	Voltage
A = Digital timer	080 = 800 c.c. 120 = 1200 c.c. 200 = 2000 c.c.	1 = 110V 2 = 220V 3 = DC 24V

Order Code | YGL - C **120** - **1** 06

Control type	Reservoir volume	Voltage
C = PLC	080 = 800 c.c. 120 = 1200 c.c. 200 = 2000 c.c.	1 = 110V 2 = 220V

※Standard product is without spring loaded follower.

# YGL-H

## Grease Resistance Lubricator

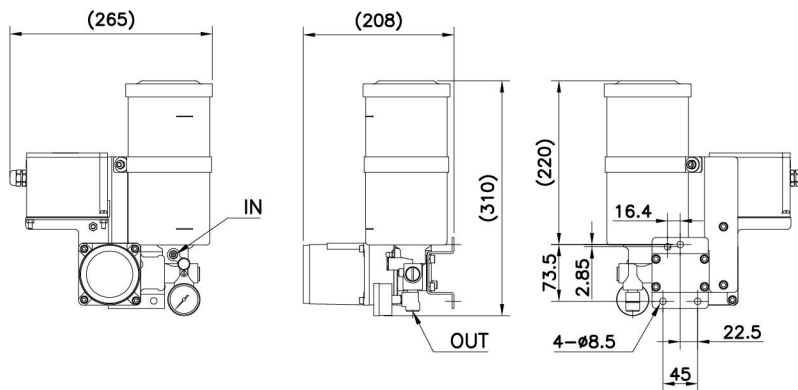
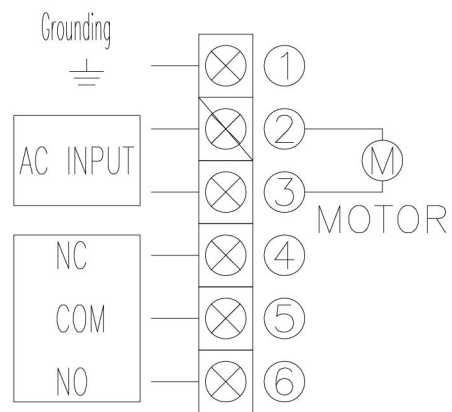


YGL-H120

### YGL-H Grease Resistance Lubricator

1. CE mark
2. The pressure relief valve equipped on the lubricator can prolong the system life and reduce damage on the gear pump and tubing.
3. Feed grease through progressive feeders.

Model	YGL-H	
	110V or 220V (Single Phase)	DC24V
Consumption Power (W)	56	75
Output Power (W)	25	28
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 (c.c./ min)	Above 13	
Pressure Gauge	O	
Tank Capacity (cc)	800	1200
Weight (kg)	3.4	4.3



Order Code | YGL - H **120** - **1** 06

Control type	Reservoir volume	Voltage
H = PLC	080 = 800 c.c. 120 = 1200 c.c. 200 = 2000 c.c.	1 = 110V 2 = 220V 3 = DC 24V

# YGL-T

# YGL-S

## Manual Grease Lubricator



YGL-T120



YGL-T08 (Spring loaded) ※



YGL-S04



400 c.c. Tube

### YGL-T / YGL-S (Piston Lubricator)

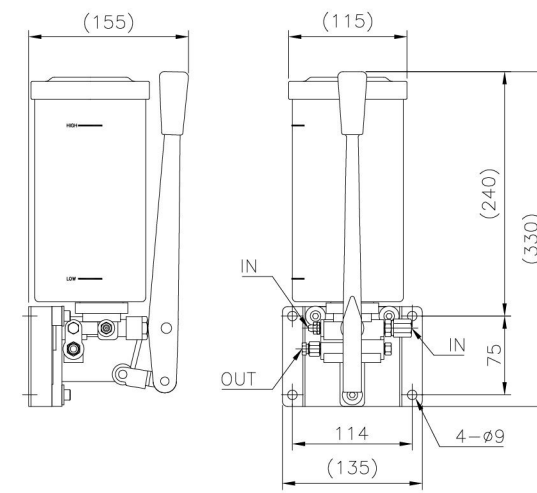
1. The follower plate with double seals is designed to move steadily in the reservoir.
2. Grease is pushed down by the weighted follower plate and no remaining left on the reservoir.
3. The output bore can be installed on the right or left side based on lubrication tubing connection.
4. Refill by manual or electrical grease guns.
5. The spring-loaded follower plate(YGL-T08 / YGL-T12) upon request to feed only NLGI grade 2.

### YGL-T04 / YGL-S04 (Piston Lubricator) Tube Type

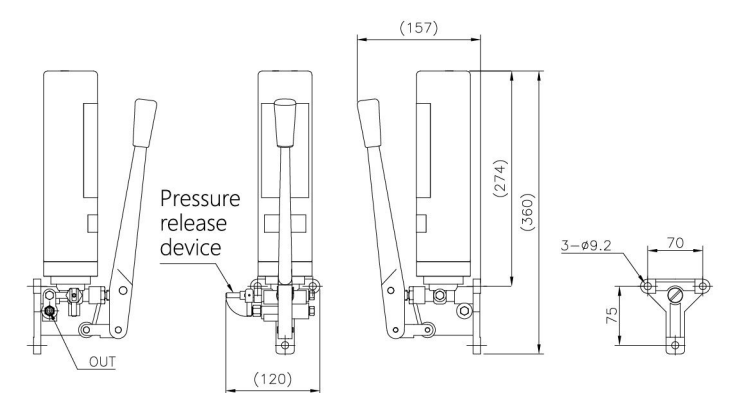
1. The follower plate with double seals is designed to move steadily in the reservoir.
2. Grease is pushed down by the weighted follower plate and no remaining left on the reservoir.
3. The output bore can be installed on the right or left side based on lubrication tubing connection.
4. Refill by manual or electrical grease guns.
5. Integrated manual pressure release device.
6. Feed grease through piston distributors.

Model	YGL-T	YGL-S (Piston Lubricator)
Max. Output Pressure MPa (kgf/cm <sup>2</sup> )	10.0(100)	
Output Volume (c.c./ cycle)	2	
Output Bore	ø6	
Cup Capacity (cc)	800 1200	400 (Tube type)
Weight (kg)	1.9 2.2	1.4 (Cartridge is not included)

※Standard product is without spring loaded follower.

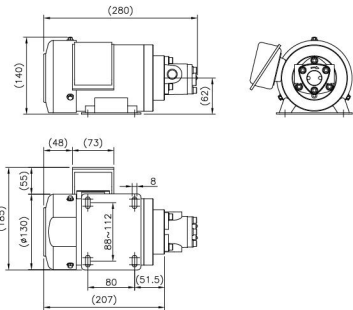


YGL-T120

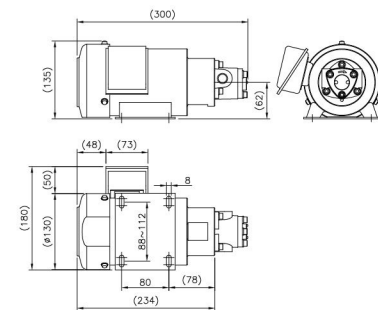


YGL-S04

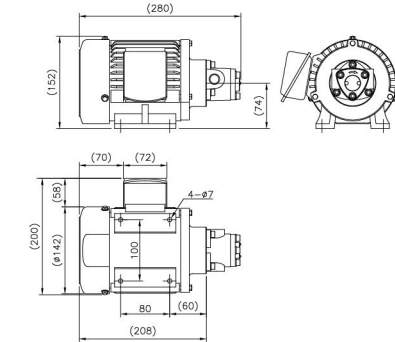
**CONNECTING MOTOR- IRON CASE**  
(with TOP Feed Pump)



**CONNECTING MOTOR- IRON CASE**  
(with Prolonged Shaft connector)

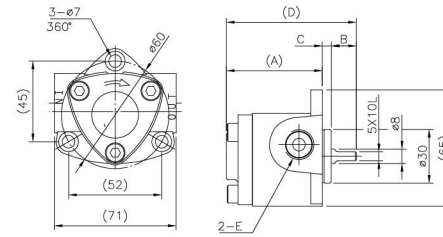


**CONNECTING MOTOR- MILLING CASE**



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

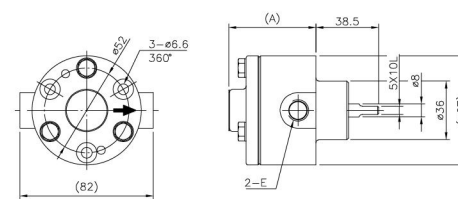
**TOP OIL FEED PUMP**



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 MP2 (kgf / cm <sup>2</sup> )	Revolution (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

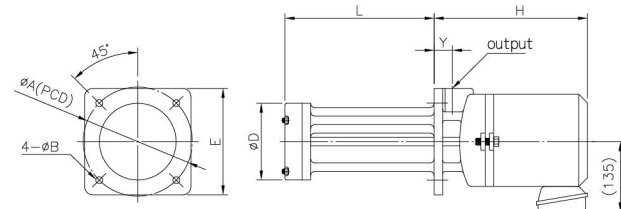
**1RA OIL FEED PUMP (REVERSABLE)**



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 outle, but reversible rotation direction. Viscosity: 30~150cSt

Model	Output Volume (cc/rev)	Output Volume (L / min)		Max Pressure MP2 (kgf / cm <sup>2</sup> )	Revolution (rpm)	Bore(E)	(A)	Weight (kg)
		1500rpm	1800rpm					
1RA-2FS	1.8	2.7	3.2	0.5(5)	2000	PT1/4"	52	1.1
1RA-3FS	2.5	3.7	4.5	0.5(5)	2000	PT1/4"	56	1.2

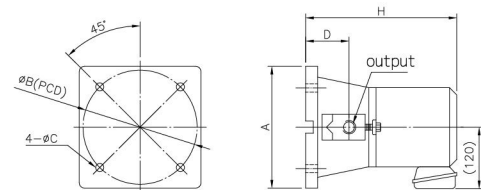
**ELECTRIC IMMERSION PUMP (COOPLANT PUMP)**



Voltage										110V/220V or 220V/380V or 220V/440V or 208V/415V									
Power (HP)	H	Pumping water (2m)	Output	ØA	ØB	E	ØD	Y	L	Weight (KG)									
1/8	150	25L/min	PT3/8"	128	8	125	90	18	110/130/150/180/210	6.4									
1/4	170	60L/min	PT1/2"	155	9	180	125	20	150/180/210/270	13.5									
1/2	230	107L/min	PT3/4"	170	9	180	140	20	150	19.4									
1/2	240	107L/min	PT3/4"	170	10	195	140	25	175/210/300	19.4									
1	295	160L/min	PT1"	170	10	195	150	27	180/280	24.2									

Note :  
The output volume is based on 60Hz.

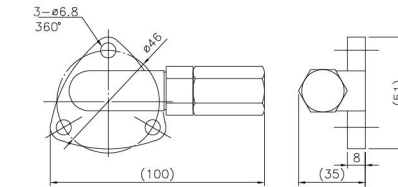
**ELECTRIC SUCTION PUMP (COOPLANT PUMP)**



Voltage											110V/220V or 220V/380V or 220V/440V or 208V/415V										
Power (HP)	H	Pumping water (2m)	Input	Output	A	B	ØC	D	Weight (KG)												
1/8	175	22L/min	PT3/8"	PT3/8"	142	140	8	48	6.5												
1/4	235	56L/min	PT3/4"	PT1/2"	185	185	9	55	14.2												
1/2	310	100L/min	PT1"	PT3/4"	165	185	10	70	18.5												

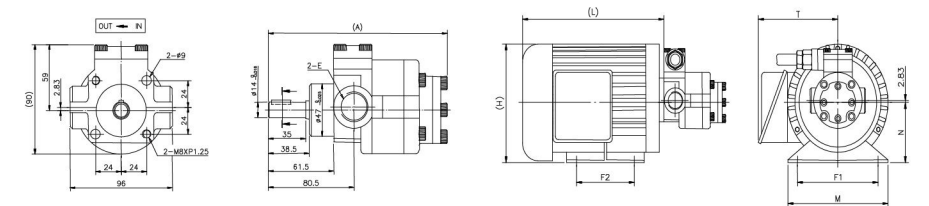
Note :  
1. The output volume is based on 60Hz.  
2. Please set up the motor at the bottom of the coolant and the coolant must be higher than the position of the inlet to ensure smooth operation.

**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 (kgf / cm<sup>2</sup>); Weight(g):281

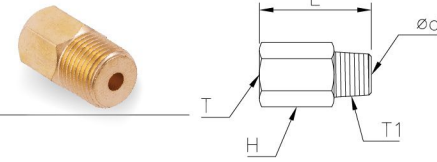
**VOP OIL FEED PUMP**



Model	Flow rate			Max. Pressure MP2 (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	1/2HP	246	168	100	125	158	80	138
VOP-206	6	9	10.8	2.5(25)	1800	153	PT1/2"	4.0	1HP	261	168	100	125	158	80	138
VOP-208	8	12	14.4	2.5(25)	1800	158	PT1/2"	4.2	2HP	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								

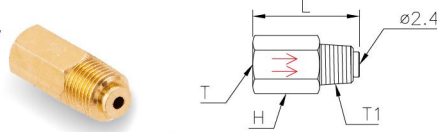
1.Dimension is in"mm".

STRAIGHT ADAPTER



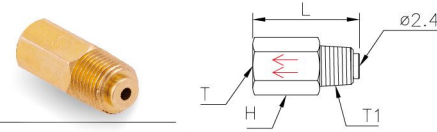
Model	Bore	Ød	L	T	T1	H	Weight (g)
PD0401	Ø4	3	18	M8x1.0	PT1/8	10	8
PD0402	Ø4	3.5	18	M8x1.0	PT1/4	14	17
PD0406-1	Ø4	2.5	18	M8x1.0	M6x0.75	10	6
PD0406	Ø4	2.5	18	M8x1.0	M6x1.0	10	6
PD0408	Ø4	3	18	M8x1.0	M8x1.0	10	6
PD0601	Ø6	4	18	M10x1.0	PT1/8	12	8
PD0602	Ø6	5	18	M10x1.0	PT1/4	14	14
PD0608	Ø6	3	18	M10x1.0	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



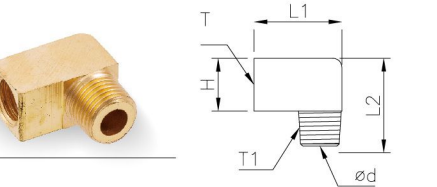
Model	Bore	L	T	T1	H	Weight (g)
PD0401B	Ø4	26	M8x1.0	PT1/8	10	11
PD0601B	Ø6	26	M10x1.0	PT1/8	12	14

ONE-WAY STRAIGHT ADAPTER



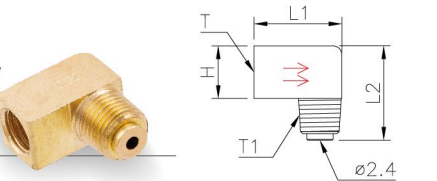
Model	Bore	L	T	T1	H	Weight (g)
PD0401A	Ø4	26	M8x1.0	PT1/8	10	11
PD0601A	Ø6	26	M10x1.0	PT1/8	12	14

ELBOW ADAPTER



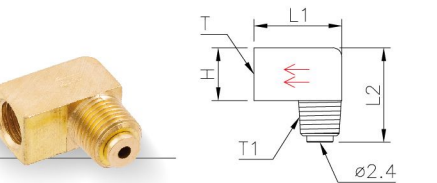
Model	Bore	Ød	L1	L2	T	T1	H	Weight (g)
PH0401	Ø4	3	18	18	M8x1.0	PT1/8	10	13
PH0402	Ø4	4	20	22	M8x1.0	PT1/4	14	32
PH0406-1	Ø4	2	18	18	M8x1.0	M6x0.75	10	13
PH0406	Ø4	2	18	18	M8x1.0	M6x1.0	10	12
PH0408	Ø4	3	18	18	M8x1.0	M8x1.0	10	13
PH0601	Ø6	4	20	20	M10x1.0	PT1/8	12	20
PH0602	Ø6	4	20	22	M10x1.0	PT1/4	14	29
PH0608	Ø6	3	20	20	M10x1.0	M8x1.0	12	20
PH0801	Ø8	5	26	29	M14x1.5	PT1/8	17	52
PH0802	Ø8	6	26	29	M14x1.5	PT1/4	17	56
PH1001 (Special order)	Ø10	5	29	31	M16x1.5	PT1/8	19	70
PH1002	Ø1	7	29	31	M16x1.5	PT1/4	19	70

REVERSE-FLOW ELBOW ADAPTER



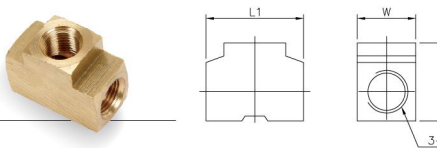
Model	Bore	L1	L2	T	T1	H	Weight (g)
PH0401B	Ø4	18	20	M8x1.0	PT1/8	10	14
PH0601B	Ø6	20	22	M10x1.0	PT1/8	12	21

ONE-WAY ELBOW ADAPTER



Model	Bore	L1	L2	T	T1	H	Weight (g)
PH0401A	Ø4	18	20	M8x1.0	PT1/8	10	14
PH0601A	Ø6	20	22	M10x1.0	PT1/8	12	21

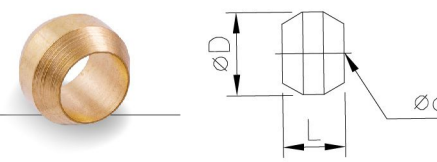
3-WAY CONNECTOR



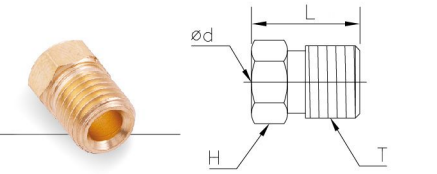
Model	T	L1	L2	W	Weight (g)
PT01	PS1/8"	27	21	14	34
PT02	PS1/4"	31	25	18	17
PT03	PS3/8"	40	31	21	86

1. Dimension is in "mm"

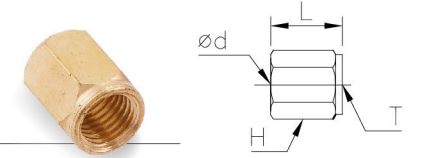
COMPRESSION SLEEVE



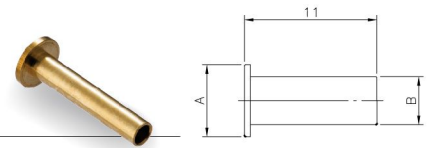
COMPRESSION BUSHING



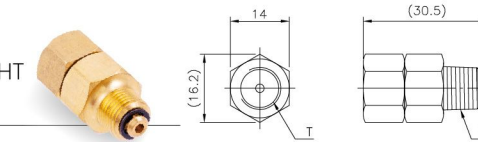
COMPRESSION NUT



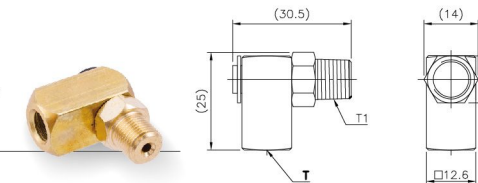
COMPRESSION INSERT



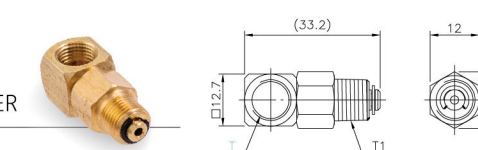
SWIVEL STRAIGHT ADAPTER



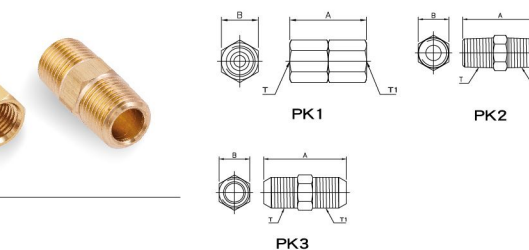
SWIVEL ELBOW ADAPTER



PLANE SWIVEL ELBOW ADAPTER



CONNECTOR



Model	Bore	Ød	D	L	Weight (g)
PB04	Ø4	4.1	6	4.5	0.3
PB06	Ø6	6.1	8	4.5	0.6
PB08	Ø8	8.1	11	7	2
PB10	Ø10	10.1	13.5	8	3

Model	Bore	Ød	D	L	H	Weight (g)
PA04	Ø4	4.1	12	M8x1.0	8	3
PA06	Ø6	6.1	12.5	M10x1.0	10	4
PA08	Ø8	8.1	14	M14x1.5	14	9
PA10	Ø10	10.1	15	M16x1.5	16	12

Model	Bore	Ød	D	L	H	Weight (g)
DP04	Ø4	4.05	13	M8x1.0	10	3

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

Model	Bore	T	T1	Weight (g)
PM0401	Ø4	M8x1.0	PT1/8	28
PM0101	-	PT1/8	PT1/8	28

Model	Bore	T	T1	Weight (g)
PC0401	Ø4	M8x1.0	PT1/8	38
PC0101	-	PT1/8	PT1/8	36

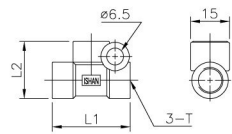
Model	Bore	T	T1	Weight (g)
PE0101	-	PS1/8	PT1/8	25

Model	A	B	T	T1	Weight (g)
PK10404	23	10	M8x1.0	M8x1.0	10
PK10606	25	12	M10x1.0	M10x1.0	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	M10x1.0	M10x1.0	9

1. Dimension is in "mm"



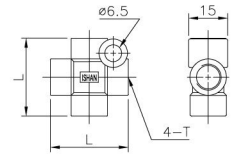
T-JUNCTION



Model	Bore	T	L1	L2	Weight (g)
PKD04	Ø4	M8x1.0	28	19.5	15
PKD06	Ø6	M10x1.0	30	22	26



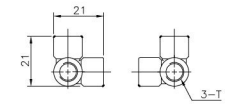
CROSS JUNCTION



Model	Bore	T	L	Weight (g)
PJD04	Ø4	M8x1.0	28	15
PJD06	Ø6	M10x1.0	30	26



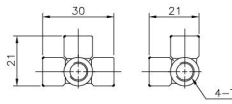
3-WAY JUNCTION



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



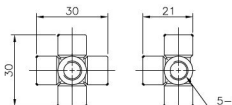
4-WAY JUNCTION



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



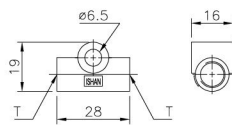
5-WAY JUNCTION



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



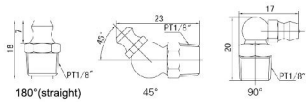
2-WAY JUNCTION



Model	Bore	T	T1	Weight (g)
PJ0404	Ø4xØ4	M8x1.0	M8x1.0	23
PJ0406	Ø4xØ6	M8x1.0	M8x1.0	22
PJ0606	Ø6xØ6	M10x1.0	M10x1.0	20



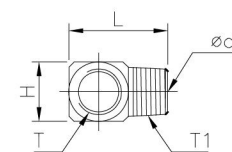
GREASE NOZZLE



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



PLANE ELBOW ADAPTER

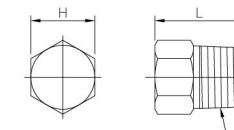


Model	Bore	Ød	L	T	T1	H	Weight (g)
PI0401	Ø4	2.5	21	M8x1.0	PT1/8"	12.7	17
PI0408	Ø4	2.5	21	M8x1.0	M8x1.0	12.7	15
PI0601	Ø6	2.3	22	M10x1.0	PT1/8"	14	15
PI0101	-	2.5	21	PS1/8	PT1/8"	12.7	15

1. Dimension is in " mm" .



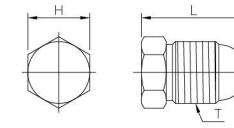
CLOSURE PLUG



Model	L	T	H	Weight (g)
PG0408	12	M8x1.0	8	4.4
PG0601	14	PT1/8	10	7.6



PLUG



Model	L	T	H	Weight (g)
PG04	16	M8x1.0	8	5.4
PG06	17	M10x1.0	10	8.8



STRAIGHT ADAPTER FOR NYLON PIPE

Model	Spec.	Weight (g)
440N03-C1006	PT1/8xØ6	16
440N03-C1010	PT1/8xPE1/8	12
440N03-C1020	PT1/8xPE1/4	16
440N03-C1025	PT1/8xPE5/16	18
440N03-C2006	PT1/4xØ6	22
440N03-C2010	PT1/4xØ10	28
440N03-C2020	PT1/4xPE1/4	21
440N03-C2025	PT1/4xPE5/16	25
440N03-C2030	PT1/4xPE3/8	27.5
440N03-C3020	PT3/8xPE1/4	27.5



ELBOW ADAPTER FOR NYLON PIPE

Model	Spec.	Weight (g)
440N06-L102	PT1/8xPE1/4	16.5
440N06-L1025	PT1/8xPE5/16	23.5
440N06-L2006	PT1/4xØ6	25.5
440N06-L2010	PT1/4xØ10	30.5
440N06-L2020	PT1/4xPE1/4	26
440N06-L2025	PT1/4xPE5/16	32.5
440N06-L203	PT1/4xPE3/8	34.5
440N06-L302	PT3/8xPE1/4	31.5

1. Dimension is in "mm"



YEL

### YEL Electromagnetic pump

#### Performance & Characteristics: YEL

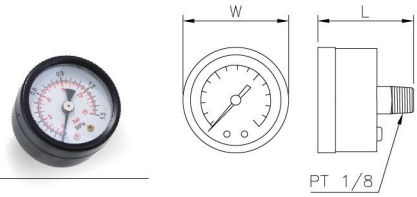
1. According to the principle of electromagnetic induction, low power loss.
2. Compact unit to save space.
3. Can be used for lubricating or cooling continuously.
4. With high mechanical performance, it can be configured with flow regulating valve to adjust the flow rate
5. Cooperate with straight distributors

#### Application and Attention

1. Suitable for small size machinery, e.g. grinding machine, drilling machine, boring machine.
2. Make sure that each outlet is clean before starting
3. Clean oil with high quality is recommended
4. Corrosive and volatile liquid is strictly prohibited.
5. If the oil is recycled, a maximum service time is within 3 months depending on the circumstances.

Models	Consumption Power (W)	Voltage (V) Single Phase	Suction (M)	Output Pressure (kgf/cm <sup>2</sup> )	Output Volume (L/h)		Function
					68cSt	150cSt	
YEL-C	13	110Vor 220V	1-1.5	1	6	3	Fixed Flow
YEL-D					6	3	Adjustable Flow

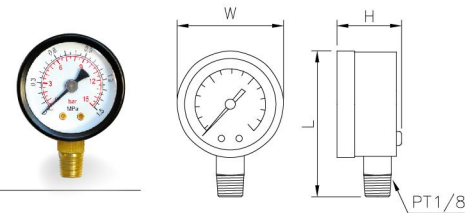
HORIZONTAL PRESSURE GAUGE



HORIZONTAL PRESSURE GAUGE

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

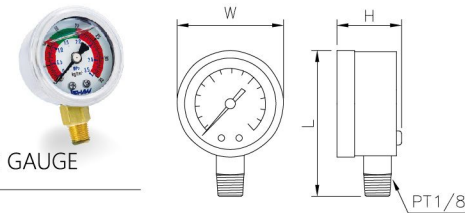
VERTICAL PRESSURE GAUGE



VERTICAL PRESSURE GAUGE

Model	Specification (Bar/MPa)	W	L	Weight (g)
327203	1.5	42	38	50
327204	3.5	42	38	50

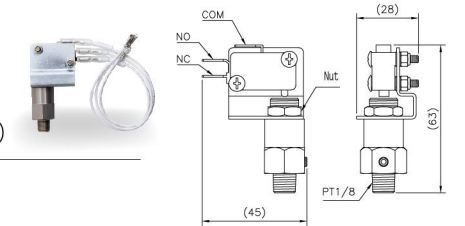
STAINLESS STEEL VERTICAL PRESSURE GAUGE



STAINLESS STEEL VERTICAL PRESSURE GAUGE

Model	Specification (kgf/cm <sup>2</sup> /MPa)	W	L	H	Weight (g)
327207	15	42	38	24	53
327610	35 (oil charged)	42	38	24	53

PRESSURE SWITCH (MECHANICAL TYPE)



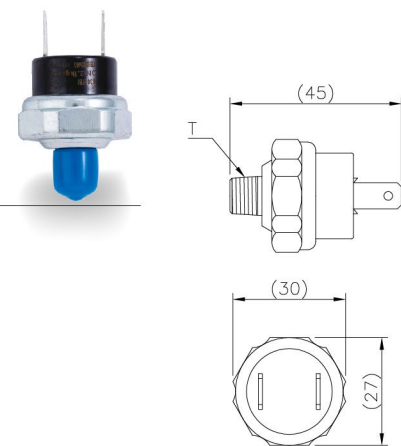
PRESSURE SWITCH (MECHANICAL TYPE)

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)
321660	12-9	81

FILM PRESSURE SWITCH



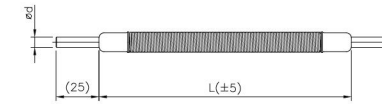
FILM PRESSURE SWITCH

Model	Specification		T	Weight (g)
	ON	OFF		
321606	2.1 kg ▲	-	PT 1/8"-28	35
321609	-	2.1 kg ▲	PT 1/8"-28	35

▲: upward

- P.S.
1. Use rated current 3 A and below
  2. Max. bome pressure is 10 kgf / cm<sup>2</sup>
  3. Dimension is in "mm"

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(40-48 kgf / cm<sup>2</sup>)  
 Note: Length is available via customers demand.

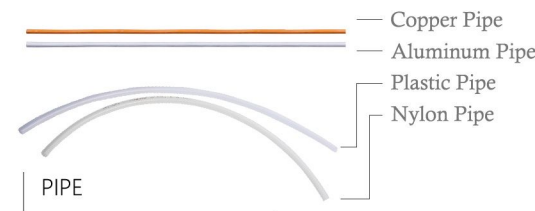
Model	Pipe Diameter
PST04	Ø4
PST06	Ø6

STEEL WIRE SHIELD TUBE



Note: Length is available via customers demand.

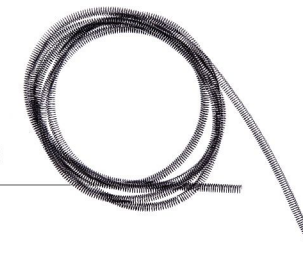
Model	Pipe Diameter Max. Operation	Pressure MPa (kgf/cm <sup>2</sup> )
P-SF04	Ø4	10(100)
P-SF06	Ø6	10(100)



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

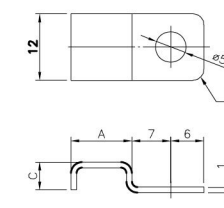
Note: Plastic pipe is not recommended for piston lubrication system.

NYLON PIPE SPRING



Description	Model	Specification	Length
Nylon Pips 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

1.Dimension is in "mm".



FLOAT SWITCH

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

Model	Apply For	Note
321002-011	YET-C	(NO)
321002-008	YAC(3L, 4L, 6L, 8L)	(NO)
321002-013	YAE(3L, 4L, 6L, 8L)	(NO)



INLET FILTER

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



VALVE

Model	Specification	Weight (g)
MA0405	PS1/4"xPE5/16	64.5
MB0404	PS1/4" double female	57
MB0606	PS3/8" double female	57
MC0404	PT1/4" double male	59
MD0402	PT1/4" (female)xPT1/8" (male)	51
MD0404	PT1/4" (female & male)	53
MD0606	PT3/8" (female & male)	82.5
ME0404	PT1/4"xPE1/4	58
ME0405	PT1/4"xPE5/16	54
ME0406	PT1/4"xPE3/8	59

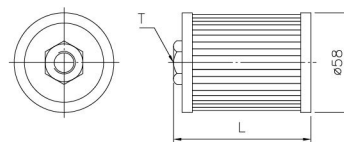


GREASE FILTER

Model	Filter Precision (μm)	Rated Operation Pressure (Mpa)	INxOUT	A	Weight (g)
FL-H2 20403	110-120	10	Rp 1/8	40-45	332
			Rp 1/4	40-45	332



OIL FILTER

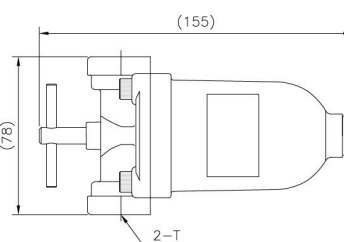


OIL FILTER

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



OIL AUTO CLEANER FILTER

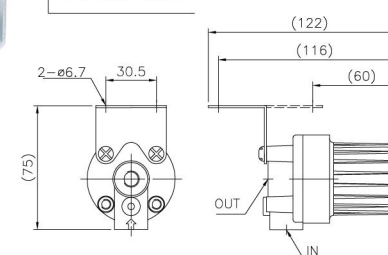


OIL AUTO CLEANER FILTER

Model	INxOUT	Filter Precision (Mesh)	Max. Output Volume (L/min)	Max. Pressure (kgf/cm <sup>2</sup> )
PR-C1	PS1/4xPS1/4	60	20L/min	15
PR-C2	PS3/8xPS3/8	60	30L/min	
PR-C3	PS1/2xPS1/2	60	30L/min	

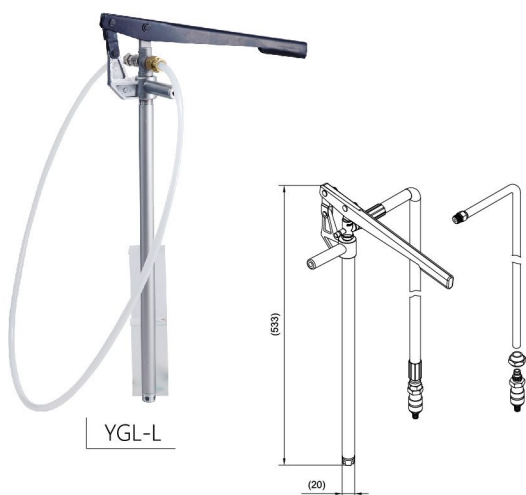


FL OIL FILTER



FL OIL FILTER

Model	Max. Operation Pressure (kgf/cm <sup>2</sup> )	Max. Output Volume (L/min)	Filter Precision (μm)	INxOUT	Weight (g)
FL-010025	25	2.5	10	PS1/8xPS1/8 PS1/4xPS1/4	300
FL-025030	25	3	25		300
FL-125035	25	3.5	125		300



YGL-L

Manual Grease Gun

Performance & Characteristics:

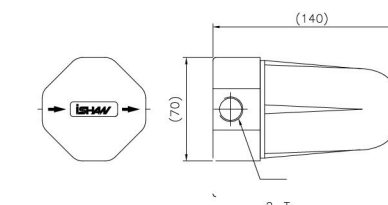
1. Refill grease by manual to the reservoir or feed to lubrication points directly.
2. Easy to carry and operate for a wide range of applications.

Model	Pressure	Grease	Theoretical Output Volume	Piping
YGL-L	4MPa	#000- #1	10ml/cyc	Nylon Pipe 10mm (with Quick Adapter)

1. Dimension is in "mm"



DOUBLE-SIDED OIL FILTER



DOUBLE-SIDED OIL FILTER

Model	INxOUT	Filter Precision (μm)	Weight (g)
PR0202	PS1/4xPS1/4	196	1000
PR0303	PS3/8xPS3/8	196	1000

1. Dimension is in "mm"





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