

POWER LUBER
Centralised
Lubrication Systems



POWER LUBER
quality industry solutions

Lubrication
Management
Systems

Material
Dispensing
Management
Systems

Lubrication
Systems for
Machine Tools

Lubrication
Systems for
Printing &
Packaging

Lubrication
Systems for
Sugar Mill

Lubrication
Systems for
Plastic Processing

Lubrication
Systems for
Steel Plant

Lubrication
Systems for
Cement
Industry



POWER LUBER *THE COMPANY*

POWER LUBER is a subsidiary of the Plasma Systems Group which has been established for over 15 years. Since 2008, POWER LUBER has been able to call on its extensive experience in the industrial markets when supporting the needs of the industrial professional in the supply of quality equipment, service and support. POWER LUBER has the ability to provide the right cost solution to many issues in establishing the most effective maintenance practices.

POWER LUBER provide fully designed effective cost solutions and systems along with fully guaranteed quality installation, service and repair work for your machinery and equipment.

To support POWER LUBER in delivering a high level of service to the region, a well trained and very skilful network of Distributors has been developed, located in major cities and in remote areas nationally and internationally where the POWER LUBER products are widely used.

With the support of this network the ability to provide immediate needs regarding products, parts, service and repair is further assured. Technical support is also offered locally by our in-house engineering team for workshop design, product service and repairs.

From simple solutions to highly sophisticated monitored systems and backed by world leading manufacturers of industrial systems, POWER LUBER will recommend the best technology for the user's application and budget.



POWER LUBER *THE PRODUCT*

POWER LUBER was established in Faridabad, India in 2008 and since then has been continuously researching and developing centralized lubrication systems, become the leading manufacturer in Taiwan.

POWER LUBER provides lubrication systems that are widely applied on industrial machinery such as:

- CNC machines
- Lathes
- Grinding machines
- Plastic injection machines
- Forging machines
- Woodworking machines

POWER LUBER can provide customers reliable lubrication system specifically tailored for their production purposes.

POWER LUBER quality assurance program is approved by ISO-9001 standards, and electrical lubricator lines are certified with CE Safety Certification .

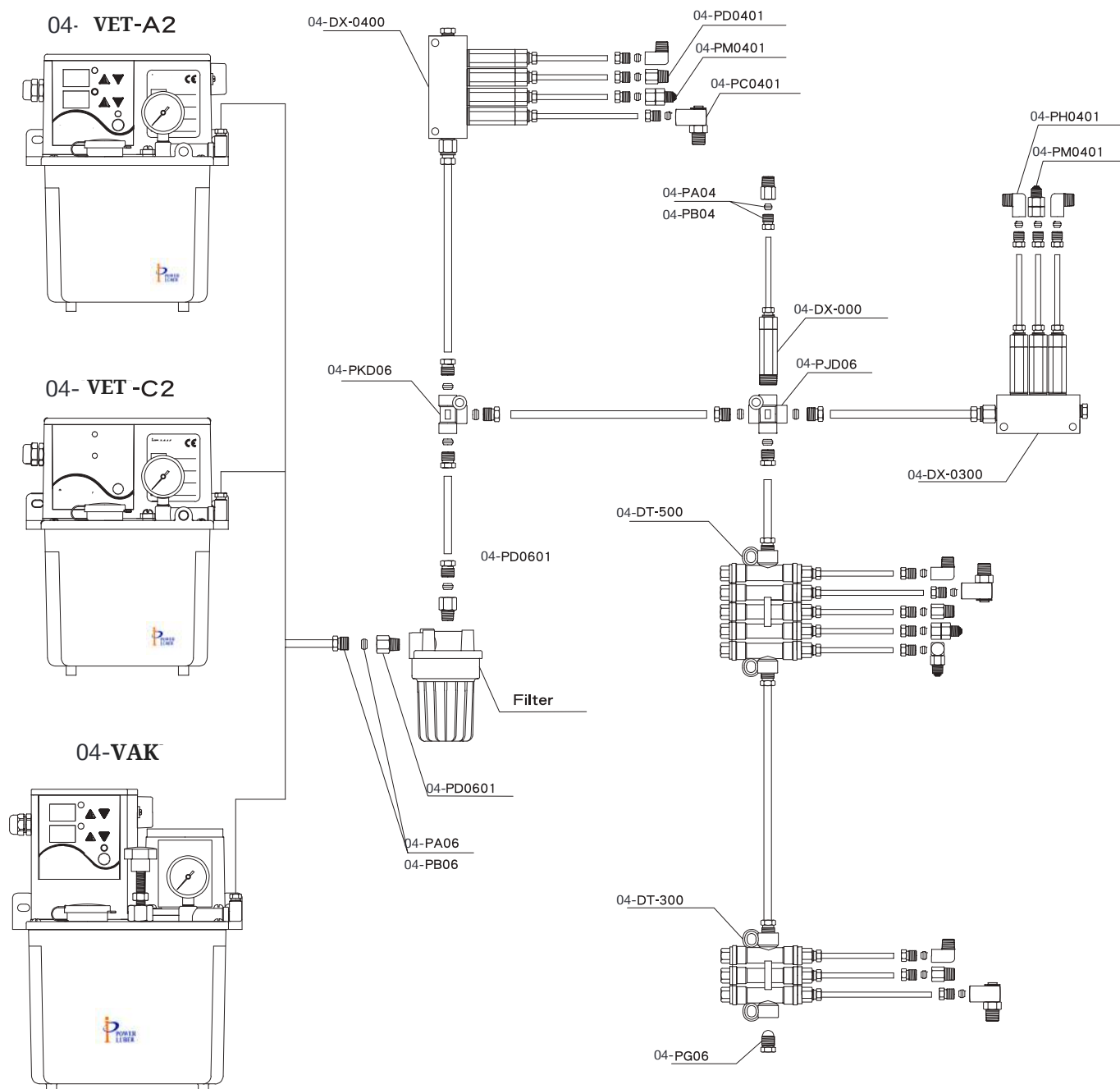


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Note: Because of continuous improvements, above specifications are subject to change without prior notice.

Piston Lubrication System Diagram



This diagram is available for piston lubrication system.

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

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

Positive Displacement Injection System

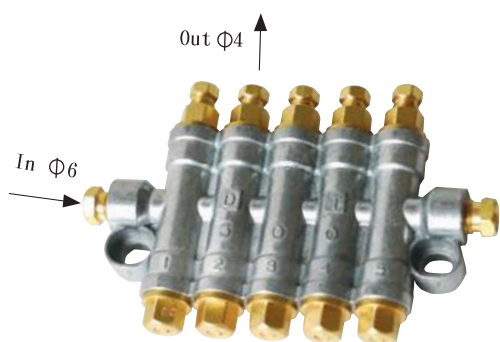
The system includes DX/DT series distributors, and VET/VA series lubricators via customer's demands.

Features :

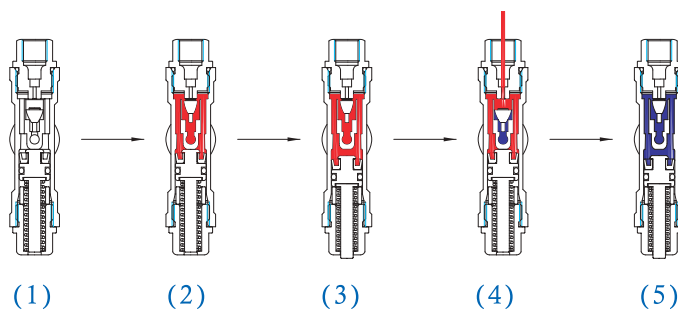
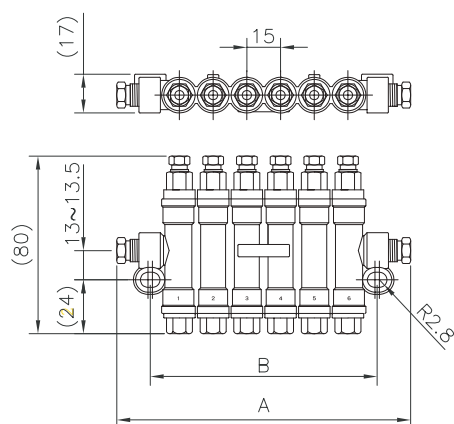
1. Lubricate at steady flow rate in every cycle.
2. The oil viscosity and lubrication time do not affect the flow rate.
3. The system needs to cooperate with the lubricators including pressure release devices.
Pressure switch is recommended to be added.
4. The system is recommended to applied on the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

04-DT-Series Operation

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



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



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

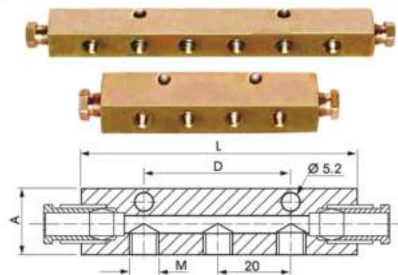
Positive Displacement Injection Systems

Piston Distributors

04-DX-300

MANIFOLDS

Manifold are required for mounting of oil distributors. These having two ports of 6mm OD tube and few side outlets. Oil distributors are screwed directly on side outlets of manifolds.



MODEL	L mm	A mm	Thickness mm	M mm	D mm	Mounting Holes
M-1	35	18	15	M8X1	-	1
M-2	55	18	15	M8X1	-	1
M-3	75	18	15	M8X1	40	2
M-4	95	18	15	M8X1	40	2
M-5	115	18	15	M8X1	40	2
M-6	135	18	15	M8X1	60	2
M-7	155	18	15	M8X1	60	2
M-8	175	18	15	M8X1	60	2
M-1A	40	22	22	M10X1	-	1
M-2A	65	22	22	M10X1	-	1
M-3A	90	22	22	M10X1	50	2
M-4A	115	22	22	M10X1	50	2

7

Model	no. of output bores	L	D	Output Volume (cc/stroke)	Weight (g)
04-DX-0100	1	35	-	0.01	118
04-DX-0200	2	55	-	0.03	157
04-DX-0300	3	75	40	0.05	209
04-DX-0400	4	95	40	0.10	281
04-DX-0500	5	115	40	0.16	318
04-DX-0600	6	135	60	0.25	403
04-DX-0700	7	155	60	0.40	462
04-DX-0800	8	175	60		521
04-DXA-0100	1	40	-	1.0	750

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

Type your text

04-DX-000-30

METERING CARTRIDGES



These are valve which eject metered amount of oil to the each lubrication point. It requires recharging time of minimum 1 minute between two cycles. An individual oil distributor is required for individual lubrication point. In order to ensure that correct amount of lubrication point, oil distributor of correct dosage should be selected.

Technical Specification

D-1	Dosage 0.01cc, 0.03 cc, 0.05 cc, 0.10 cc, 0.16 cc per stroke.
D-2	Dosage 0.25 cc, 0.40 cc per stroke.
D-3	Dosage 1.0 cc, 1.60 cc, Per stroke

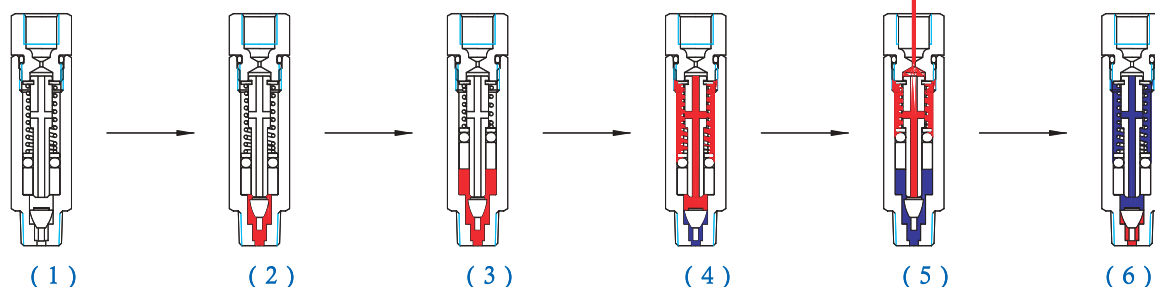
Note : We are manufacturing injectors in both BRASS and M.S.

Model	no. of output bores	Output Volume (cc/stroke)	Weight (g)
04-DX-000-02	02	0.01	45.5
04-DX-000-06	06	0.03	45.5
04-DX-000-10	10	0.05	45.5
04-DX-000-16	16	0.10	45.5
04-DX-000-20	20	0.16	45.5
04-DX-000-30	30	0.25	45.5
04-DX-000-40	40	0.40	45.5
04-DXA-000-01	50	1.0	75.5

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

04-DX-Series Operation

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

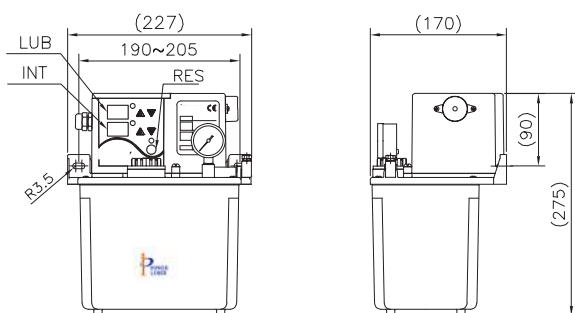


- (1) Before the pump starts
- (2) Pump starts (pressurization begins)
- (3) Pump works (pressurization completes)

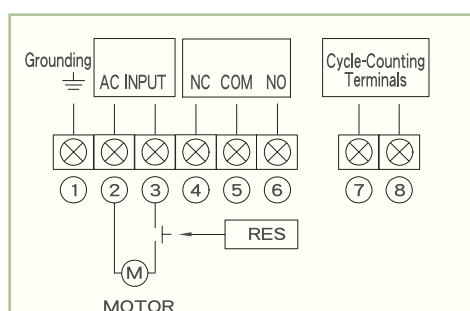
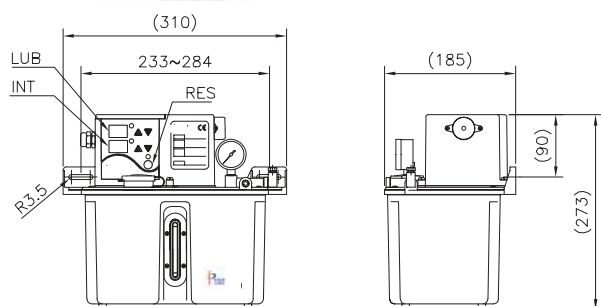
- (4) Pump stops (storage completes and piston recoils)
- (5) Pump works and pressurization completes (Discharging)
- (6) Pumps stops (Storage completes)

04-VET-A2 Automatic Piston Lubricator

04-VET-A2-1.5L



04-VET-A2-1.5L-A2P2



04-VET-A2 WIRING DIAGRAM

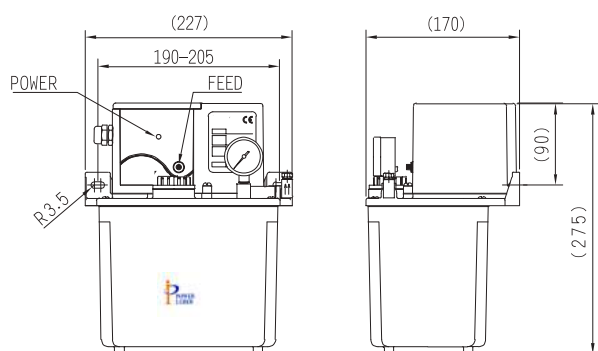
04-VET-A2

1. CE approval.
2. Three operation modes as,
 - (a) Lubrication : The lubricator runs via lubrication time after power-on.
 - (b) Intermittence : The lubricator runs via intermittent time after power-on.
 - (c) Memory : The lubricator runs via the previous set after power-on.
3. Lubrication and intermittent time can be adjusted.
4. The float switch alarms and output signal when the oil level is low.
5. The pressure release device is included.
6. The over temperature/load protector is attached to protect the motor.
7. Fixed pressure of the pressure relief valve protects the pump and the pipe.
8. Lubrication time (second/minute) and intermittent time (second/minute/hour/cycle) are adjustable.
9. The indicator on the panel can display the operation of the lubricator.
10. The intermittent period can be adjusted via the machine's action cycles.
11. Pressure switch is an option for VET-A2P2
12. "RES" key can force the lubricator to function.

Model	VET-A2	VET-A2P2
Voltage (Single Phase)	110V or 220V	110V or 220V
Consumption Power (W)	100	100
Capacity of Terminal Output (A)	3	3
Lubrication time(second/minute)	1-999	1-999
Intermittent Time (second/minute/hour/cycle)	1-999	1-999
Output Bore	Ø4 or Ø6	Ø4 or Ø6
Max. Output Pressure Mpa(kgf/cm ²)	1.5 (15)	1.5 (15)
Output Volume (cc/min)	150	150
Pressure Release device	O	O
Float Switch	O	O
Pressure Switch(kgf/cm ²)	X	12-9
Pressure Gauge	O	O
Alarm Beeper	O	O
Tank Capacity (L)	2	3 (Transparent Plastic Tank) 4 (Aluminum Tank)
Weight (kg)	2.7	2.9 3.3 3.7

04-VET-C2 Automatic Piston Lubricator

04-VET-C2-1.5L

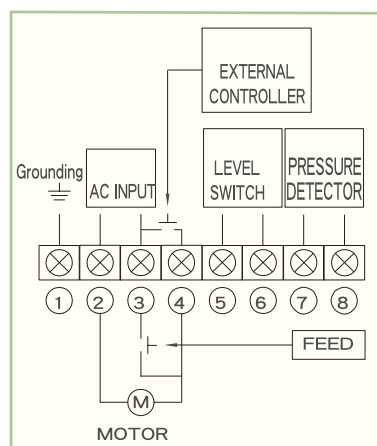
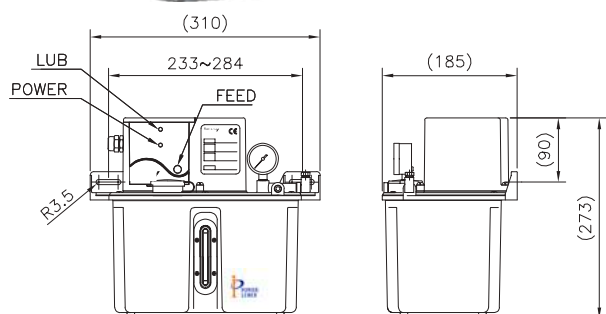


04-VET-C2

1. CE approval.
2. The float switch alarms and output signal when the oil level is low
3. The over temperature/load protector is attached to protect the motor.
4. Fixed pressure of the pressure relief valve protects the pump and the pipe.
5. The indicator on the panel can display the operation of the lubricator.
6. Pressure Switch is optional for VET-C2P2
7. "Feed" key can force the lubricator to function.
(cooperate with PLC control system).

Model	VET-C2		VET-C2P2	
Voltage (Single Phase)	110V or 220V			
Consumption Power (W)	100			
Capacity of Terminal Output (A)	0.3(Float Switch) 3(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 ²)	1.5(15)			
Output Volume (cc/min)	150			
Pressure Release device	O			
Float Switch	O(NC)			
Pressure Switch(kgf/cm2)	X		12-9	
Pressure Gauge	O		O	
Tank Capacity (L)	2	3	4 (Transparent Plastic Tank)	4 (Aluminum Tank)
Weight (kg)	2.6	2.9	3.2	3.6

04-VET-C2P2-2L



04-VET-C2 WIRING DIAGRAM

Single Shot Oil Lubrication System Diagram



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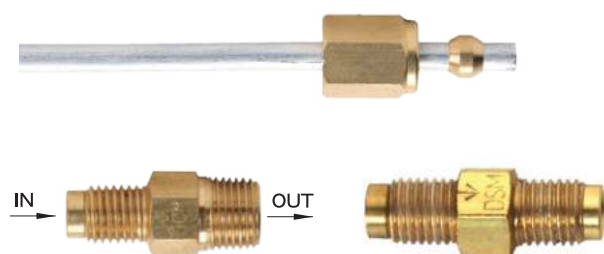
Single Shot Oil Lubrication System

The system includes VML, VMT, VET, VAE and VAC series lubricators via customer's demands.

Features :

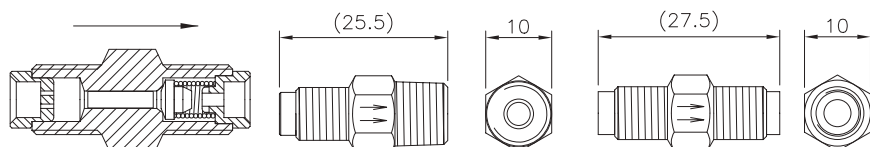
1. Discharge at steady volume in every outlet.
2. Include check valves to prevent the reverse flow.
3. The oil viscosity, pressure, and temperature will affect the oil discharge volume.
4. Economical and reliable system.
5. The system is recommended to lower pressure application.
6. The system needs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

Proportion Devices



		Meter Unit			
		Taiwanese Standards		European and American Standards	
IN		M8×1.0	M8×1.0	M8×1.0	M8×1.0
OUT		M8×1.0	PT1/8	M8×1.0	PT1/8
Flow rate	Type	DPB	DPS	DSM-M	DCM-M
1	00			04-DSM-00M	04-DCM-00M
2	0			04-DSM-0M	04-DCM-0M
4	1	04-DPB-1	04-DPS-1	04-DSM-1M	04-DCM-1M
8	2	04-DPB-2	04-DPS-2	04-DSM-2M	04-DCM-2M
16	3	04-DPB-3	04-DPS-3	04-DSM-3M	04-DCM-3M
32	4	04-DPB-4	04-DPS-4	04-DSM-4M	04-DCM-4M
64	5	04-DPB-5	04-DPS-5	04-DSM-5M	04-DCM-5M

Remark: More DSM models are available. Please send your inquiry.



1. Working pressure : 0.2~2Mpa(2~20kgf/cm²).
2. Oil viscosity(40°C) : 20~500cSt.
3. Flow rate : The flow will be multiplied via the serial number sequence.
4. Weight : 11g.

04-MOTOR PUMP ASSEMBLY

Features:

1. Pump pressure-15/Kg/cm²(217 psi)
2. Flow Rate - 1,3,6 litre /min
3. Range of Viscosity- From 20 to 750 mm²/s
4. Output volume can be adjusted by adjusting valve (Output volume varies via pipe and oil viscosity).

Applications: Pumping of hydraulic oil,Oil circulation systems,Hydraulic fluid units



MOTOR PUMP ASSEMBLY

Motor pump assembly is used for oil lubrication especially where continuous and high dosage of oil is required. It is also applied under oil circulation systems. It is used almost in all machines where free flow of oil is required. The different specification is available with different model. It can suck the oil from 2 ft. downwards and circulate the oil up to 10 ft. Height. The rotation of motor pump assembly is indicated on the label. Four mounting holes are provided to mount the system. An electrical terminal box on the surface of the motor is provided for connection.

Technical Specification

MODELS	Discharge	Max. Pressure	MOTOR Flange Mounted
MPA - 1	1 litres per minute	15kg/Cm ²	0.25 HP 415V AC1500rpm
MPA - 3	3 litres per minute	15kg/Cm ²	0.25 HP 415V AC1500rpm
MPA - 6	6 litres per minute	10kg/Cm ²	0.50 HP 415V AC1500rpm
MPA - 10	10 litres per minute	10kg/Cm ²	0.50 HP 415V AC1500rpm

ROTARY PUMP

ROTARY PUMPS are gerotor type pumps with positive displacement of oil. On the basis of construction they are of two types, flange type and insert type. Function wise these pumps can be classified into two types non reversible and reversible. Non reversible pumps are rotates only on one direction indicated by an arrow where as the reversible pumps are rotates on either direction, clock-wise and anti-clock-wise.

FLANGE TYPE ROTARY PUMPS (Non Reversible / Reversible)



04- Manual Lubrication Pump

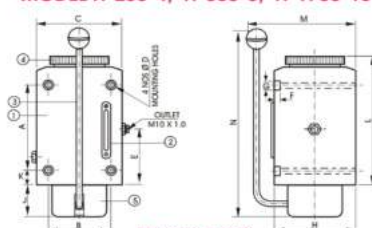


Aluminum reservoir

Technical Specifications

MODEL	Reservoir Cap.	Discharge	Pt. Setting	A	B	C	D	E	F	G	H	J	K	L	M	N
H-250-4	0.25 Lt.	4cc / Stroke	12 Kg / Cm ²	55	70	7	60	7	11	70	42	20	120	115	160	
H-600-6	0.60 Lt.	6cc / Stroke	12 Kg / Cm ²	120	80	100	7	70	7	11	90	50	15	165	140	160
H-1700-10	1.70 Lt.	10cc / Stroke	12 Kg / Cm ²	170	100	130	9	70	10	14	115	60	15	265	145	325

MODEL H-250-4, H-600-6, H-1700-10



Dimensions in mm.

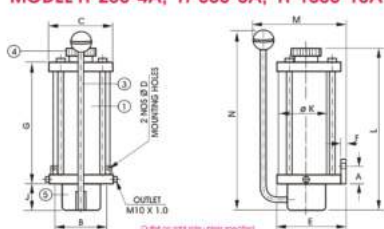


Transparent reservoir

Technical Specifications

MODEL	Reservoir Cap.	Discharge	Pt. Setting	A	B	C	D	E	F	G	H	J	K	L	M	N
H-250-4A*	0.25 Lt.	4cc / Stroke	12 Kg / Cm ²	28	67	90	7	110	10	132	45	75	185	145	200	
H-600-6A*	0.60 Lt.	6cc / Stroke	12 Kg / Cm ²	44	105	110	7	120	8	190	50	90	260	175	245	
H-1000-8A*	1.00 Lt.	8cc / Stroke	12 Kg / Cm ²	44	105	110	7	120	8	240	50	90	310	175	355	

MODEL H-250-4A, H-600-6A, H-1000-10A



Dimensions in mm.

*Transparent reservoir

Parts Name : 1. Reservoir 2. Oil window 3. Handle 4. Top cover 5. Bottom cover

Features :

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

Model	L×W×H	P×K
04- H-250-4	100*130*170	85*85
04- H-600-6	120*150*200	100*110

Model	H-250-4	H-600-6	H-1000-8A
Output Volume (cc/cy)	4	6	8
Max. output Pressure Mpa (kgf/cm ²)	1.2 (12)	1.2 (12)	1.5 (15)
Tank Capacity (cc)	250	600	1000
Effective Capacity (cc)	200	450	800
Output Bore	Ø4 or Ø6	Ø4 or Ø6	Ø4
Direction of Bore	Left or Right	Left or Right	Upward or Downward
Weight (kg)	1.2	1.4	0.9

04-VESA- Controllers & Timers

ELECTRONIC CONTROLLERS

These are used in the lubrication systems where pressure switch/ float switch are provided for sensing the pressure and low oil level. In the controllers indicator for Pressure & Low oil level sensing are provided. ON time is 5 sec. Fixed and OFF Time is 2 to 240 min. Adjustable.



Technical Specification

MODEL	DESCRIPTION
ECW 2-240 (Wall mounting)	ON time-5 sec (Fixed) OFF time 2, 4, 8, 15, 30, 60, 120, 240 min. (Adj.) with lubrication fault & low oil level sensing
ECP 2-240 (Panel mounting)	ON time-5 sec (Fixed) OFF time 2, 4, 8, 15, 30, 60, 120, 240 min. (Adj.) with lubrication fault & low oil level sensing
ECP 2-240+C (Panel mounting)	controller-built in contactor

ELECTRONIC TIMER

The Electronic Timer are used for time controlling of lubrication systems. There are different models used for different applications. Following models are under our regular production.



ON / OFF Time Variable

ON Time Fixed
OFF Time Variable

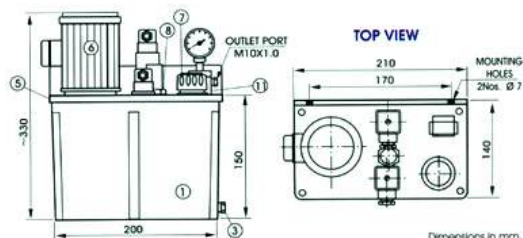
Technical Specification

MODEL	DESCRIPTION
ET-5-120	ON time-5 sec. (Fixed) OFF time 2-128 min (Adjustable) (Wall / Panel mounting type)
ET-30-60	ON time-2-30 sec. (Adjustable) OFF time 2-60 min (Adjustable) (Wall / Panel mounting type)

Note : ON, OFF time are also available as per requirement.

04-ELU- Automatic Lubrication Unit OIL

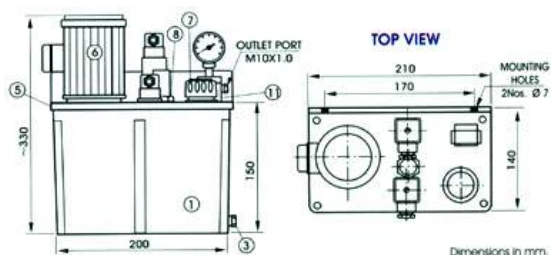
04-ELU 2700-3Phase



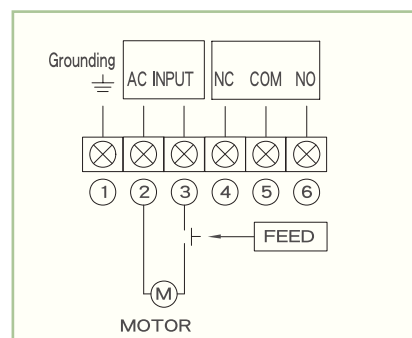
04-ELU-2700

1. This is mini hydraulic power pack fitted with a motor and rotary positive displacement pump
2. The unit is designed for intermittent run only and is best suited for Single Shot Lubrication
3. Lubrication time and intermittent time are adjustable.
4. The float switch alarms and output signal when the oil level is low.
5. The over temperature/load protector is attached to protect the motor.
6. Fixed pressure of the pressure relief valve protects the pump and the pipe.
7. The indicator on the panel can display the operation of the lubricator.
8. "Feed" key can force the lubricator to function.

04-ELU-2700 - Single Phase



Model	ELU-2700/S/3P			
Voltage (Single Phase)	220 AV/ 3 Phase 415 VAC			
Consumption Power (W)				
Capacity of Terminal Output(A)	3			
Lubrication Time (second)	1-180			
Intermittent Time (minute)	1-180			
Output bore	Ø4 or Ø6			
Max. Output Pressure Mpa (kgf/cm ²)	0.5 (15)			
Output Volume (cc/min)	750/1000			
Float Switch	O			
Pressure Gauge	x	O	O	O
Alarm Beeper	O			
Tank Capacity (L)	2.7 Ltr or 2700 cc		(Transparent Plastic Tank)	
Weight (kg)			7.5	



ELU-2700 WIRING DIAGRAM

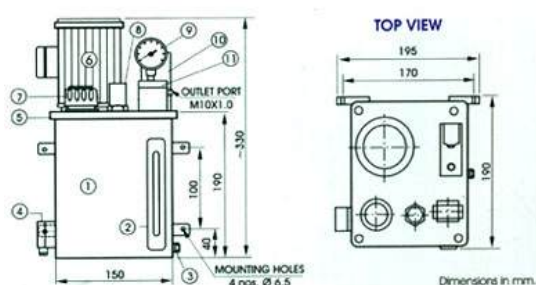
04-ALU-Automatic Lubrication Unit Oil

04-ALU-03-3Phase



04-ALU-03-S/3P

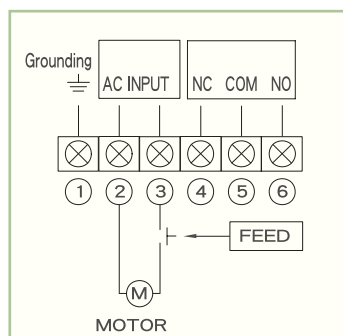
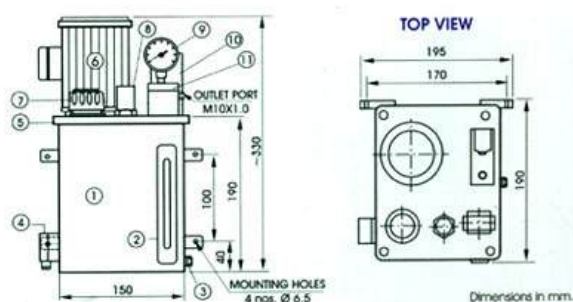
1. This is mini hydraulic power pack fitted with a motor and rotary positive displacement pump.
2. The unit is designed for intermittent run only and is best suited for Single Shot Lubrication.
3. Intermittent time is adjustable.
4. The float switch output signal when the oil level is low. (For ALU-03, the beeper alarms when the oil level is low).
5. The over temperature/load protector is attached to protect the motor.
6. Fixed pressure of the pressure relief valve protects the pump and the pipe.
7. The indicator on the panel can display the operation of the lubricator.
8. The pressure is optional via customer's demand.
9. Output Pressure can reach 7 kgf/cm² to make sure each port with enough output volume.
10. "Feed"key can force the lubricator to function.



04-ALU-03-Single Phase (Metallic Tank)



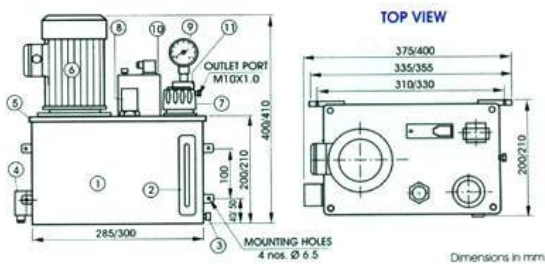
Model	ALU-03-S	ALU-03/3P
Voltage (Single Phase /3 Phase)	110V or 220V	3 Phase 415 VAC
Consumption Power (W)	90	120
Capacity of Terminal Output(A)	3	3
Lubrication Time (second)	—	—
Intermittent Time (minute)	1-180	1-180
Output bore	Ø4 or Ø6	Ø4 or Ø6
Max. Output Pressure Mpa(kgf/cm ²)	0.5 (15)	0.5 (15)
Output Volume (cc/min)	750	1000
Float Switch	O	O
Pressure Gauge	X	O
Alarm Beeper	X	O
Tank Capacity (L)	3	3.0 (Aluminum Tank)
Weight (kg)	8.0	8.5



04-ALU-03/S WIRING DIAGRAM

04-Motorised Lubrication Unit

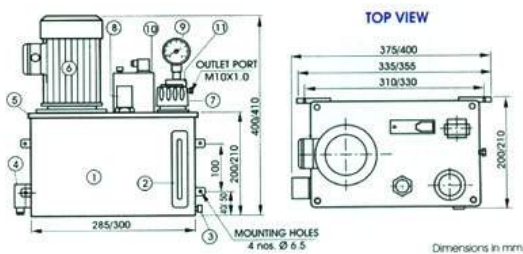
04-ALU05-5L



04-ALU05-5L

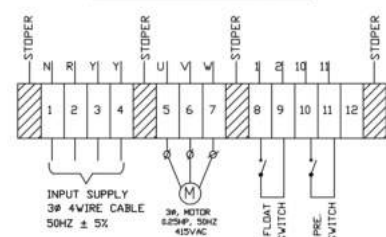
1. This is mini hydraulic power pack fitted with a motor and rotary positive displacement pump.
2. The unit is designed for intermittent run only and is best suited for Single Shot Lubrication.
3. Lubrication and intermittent time can be adjusted.
4. The float switch alarms and output signal when the oil level is low.
5. The over temperature/load protector is attached to protect the motor.
6. Fixed pressure of the pressure relief valve protects the pump and the pipe.
7. Lubrication time (second/minute) and intermittent time (second/minute/hour/cycle) are adjustable.
8. The indicator on the panel can display the operation of the lubricator.
9. The intermittent period can be adjusted via the machine's action cycles.
10. Pressure switch is an option for ALU05/ALU08
11. "RES" key can force the lubricator to function.
12. Incorporate with distributors of resistance lubricator and proportion devices.

04-ALU08-8L



Model	ALU05	ALU08
Voltage (3 Phase)	3 Phase 415 VAC	3 Phase 415 VAC
Consumption Power (W)	180	180
Capacity of Terminal Output(A)	3	3
Lubrication Time (second/minute)	1-999	1-999
Intermittent Time (second/minute/hour/cycle)	1-999	1-999
Output Bore	Ø4 or Ø6	Ø4 or Ø6
Max. Output Pressure Mpa(kgf/cm ²)	0.5(15)	0.5(15)
Output Volume (cc/min)	1000	1000
Float Switch	O	O
Pressure Switch(kgf/cm ²)	X	10.0-15.0
Pressure Gauge	O	O
Alarm Beeper	O	O
Tank Capacity (L)	5.0	8.0 (Aluminum Tank)
Weight (kg)	12.0	15.0

TERMINAL BLOCK DETAILS



04-ALU05/ALU08 WIRING DIAGRAM

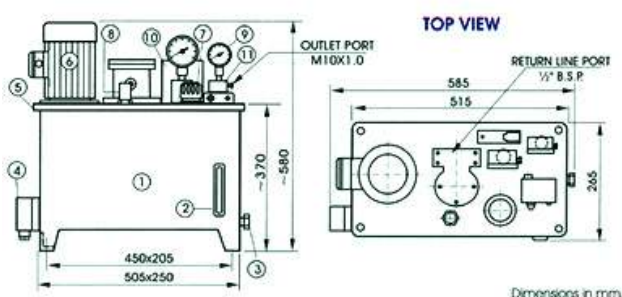
04-Motorised Lubrication Unit

04-ALU20-20L



04-ALU20-20L

1. This is mini hydraulic power pack fitted with a motor and rotary positive displacement pump.
2. The unit is designed for intermittent run only and is best suited for Single Shot Lubrication.
3. Lubrication and intermittent time can be adjusted.
4. The float switch alarms and output signal when the oil level is low.
5. Fixed pressure of the pressure relief valve protects the pump and the pipe.
6. Lubrication time (second/minute) and intermittent time (second/minute/hour/cycle) are adjustable.
7. The indicator on the panel can display the operation of the lubricator.
8. The intermittent period can be adjusted via the machine's action cycles.
9. "RES" key can force the lubricator to function.
10. Cooperate with distributors of resistance lubricator and proportion devices.



04-ALU30-30L

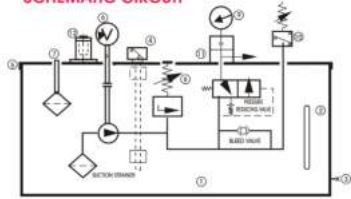
1. CE approval.
2. The float switch output signal when the oil level is low.
3. Fixed pressure of the pressure relief valve protects the pump and the pipe.
4. The motor is of long-time operation.

Model	ALU20	ALU30
Voltage (3 Phase)	3 Phase 415 VAC	3 Phase 415 VAC
Consumption Power (W)	180	372
Output Power (W)	180	372
Capacity of Terminal Output (A)	3	0.3 (Float switch) 3 (Pressure Switch)
Lubrication time (second/minute)	1-999	Cooperate with PLC control system
Intermittent Time (second/minute/hour/cycle)	1-999	Cooperate with PLC control system
Output Bore	Ø4 or Ø6	Ø4 or Ø6
Max. Output Pressure Mpa (kgf/cm²)	3 (30)	3 (30)
Output Volume (cc/min)	3000	3000
Float Switch	O	O(NC)
Pressure Release Devices	X (Option)	X (Option)
Pressure Switch (kgf/cm²)	X (Option)	X (Option)
Pressure Gauge	O	O
Alarm Beeper	O	X
Tank Capacity (L)	20	30
Weight (kg)	25	35

AUTOMATIC LUBRICATION SYSTEMS

MODEL-ALU-20 / 30

SCHEMATIC CIRCUIT



Parts Name

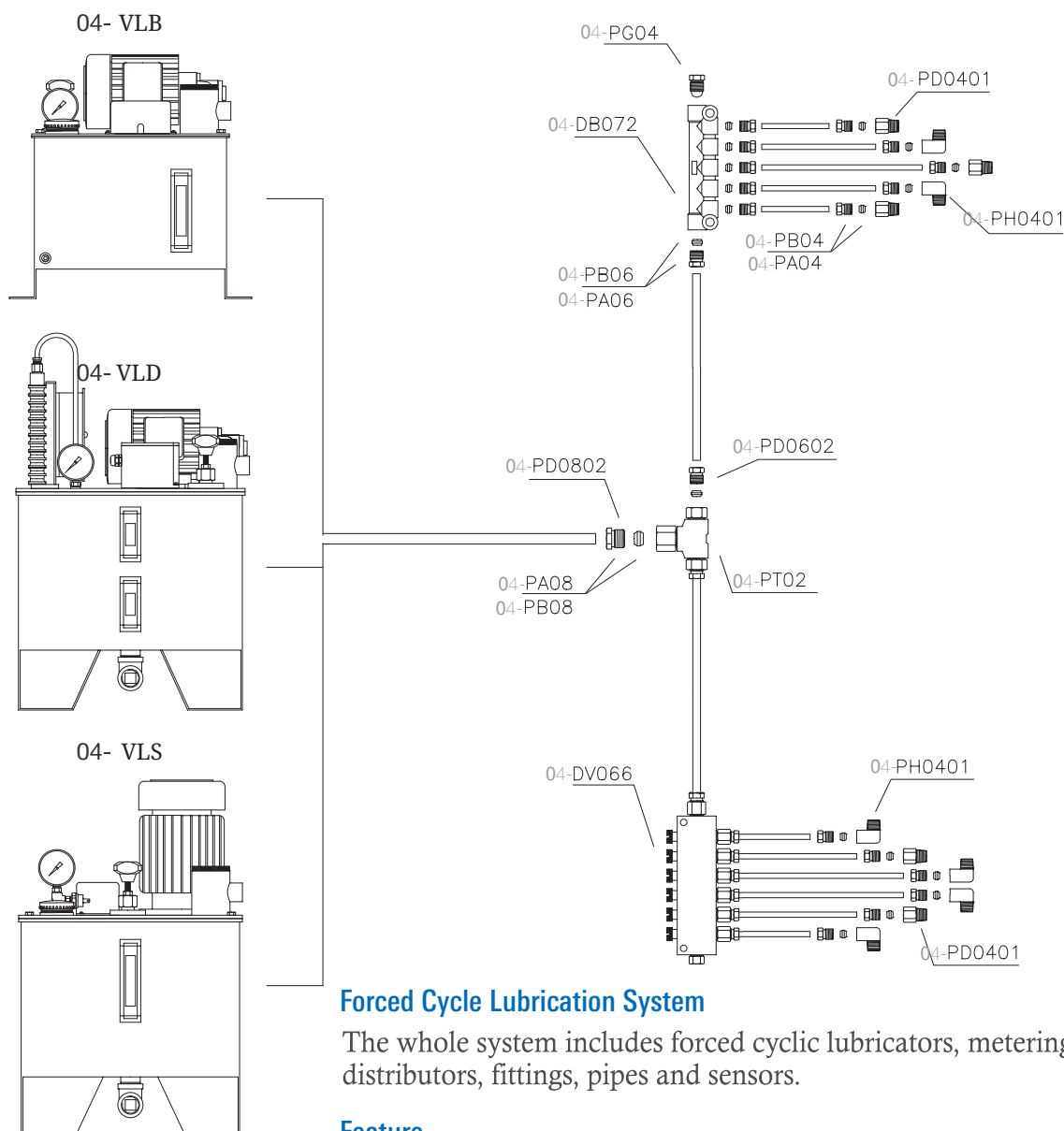
- 1 Reservoir
- 2 Oil Level Gauge
- 3 Drain Plug
- 4 Float Switch
- 5 Top Plate
- 6 Motor
- 7 Oil Filter Cum Breather
- 8 Relief Valve
- 9 Pressure Gauge
- 10 Pressure Switch
- 11 Junction Block
- 12 Return Line Filter

Technical Specifications :-

MODEL	Reservoir	Discharge	Motor 30m/1500 (rpm)	Pressure Setting	Pressure Switch	Float Switch
ALU-02	2 Ltrs.	0.5 LPM	0.10 Kw, 230V AC, Single Phase	12 kgf/cm²	NA	NA
ALU-03	3 Ltrs.	1.0 LPM	0.10 Kw, 230V AC, Single Phase	12 kgf/cm²		
ALU-03	3 Ltrs.	1.0 LPM	0.09 Kw, 415V AC, 4Pole, 3 Phase	12 kgf/cm²		
ELU-2700-S*	2.7 Ltrs.	1.0 LPM	0.10 Kw, 230V AC, Single Phase	12 kgf/cm²		
ELU-2700C*	2.7 Ltrs.	1.0 LPM	0.09 Kw, 415V AC, 4Pole, 3 Phase	12 kgf/cm²		
ALU-05	5 Ltrs.	1.0 LPM	0.18 Kw, 415V AC, 4Pole, 3 Phase	15 kgf/cm²		
ALU-08	8 Ltrs.	2.0 LPM	0.18 Kw, 415V AC, 4Pole, 3 Phase	15 kgf/cm²		
ALU-20	20 Ltrs.	3.0 LPM	0.18 Kw, 415V AC, 4Pole, 3 Phase	20 kgf/cm²		
ALU-30	30 Ltrs.	4.0 LPM	0.37 Kw, 415V AC, 4Pole, 3 Phase	20 kgf/cm²		

* Transparent reservoir NOTE : All these unit suitable for oil with viscosity range 50-1000 cst. Unit with vertical float switch is also available on customer request.

FORCED CYCLE LUBRICATION SYSTEM DIAGRAM



Forced Cycle Lubrication System

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

Feature

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

Remark

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

Installation

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

Lubricators

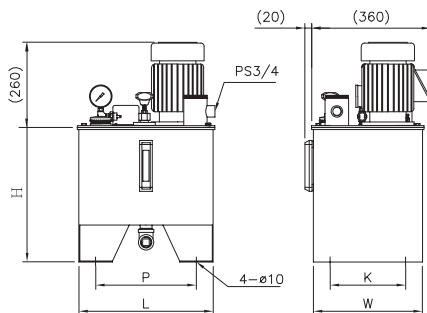
VLB, VLS, and VLD Series

FORCED CYCLE LUBRICATOR

04-VLB-50H

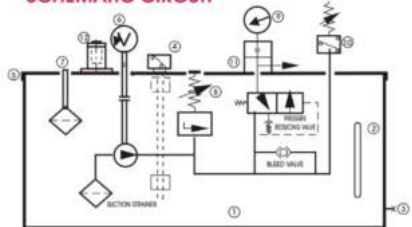


04-VLS-30H



04-VLD-30H

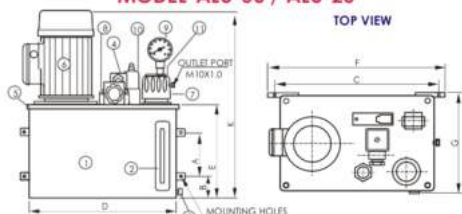
SCHEMATIC CIRCUIT



Parts Name			
1 Reservoir	2 Oil Level Gauge	3 Drain Plug	4 Float Switch
5 Top Plate	6 Motor	7 Oil Filter Cum Breather	8 Relief Valve
9 Pressure Gauge	10 Pressure Switch	11 Junction Block	12 Return Line Filter

MODEL-ALU-50 / ALU-20

TOP VIEW



MODEL	Reservoir Cap.	A	B	C	D	E	F	G	K
ALU-50	50 Litres	200	80	615	605	400	685	265	680
ALU-20	20 Litres	100	50	415	405	270	485	265	480

04-VLB & 04-VLS

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

04-VLD

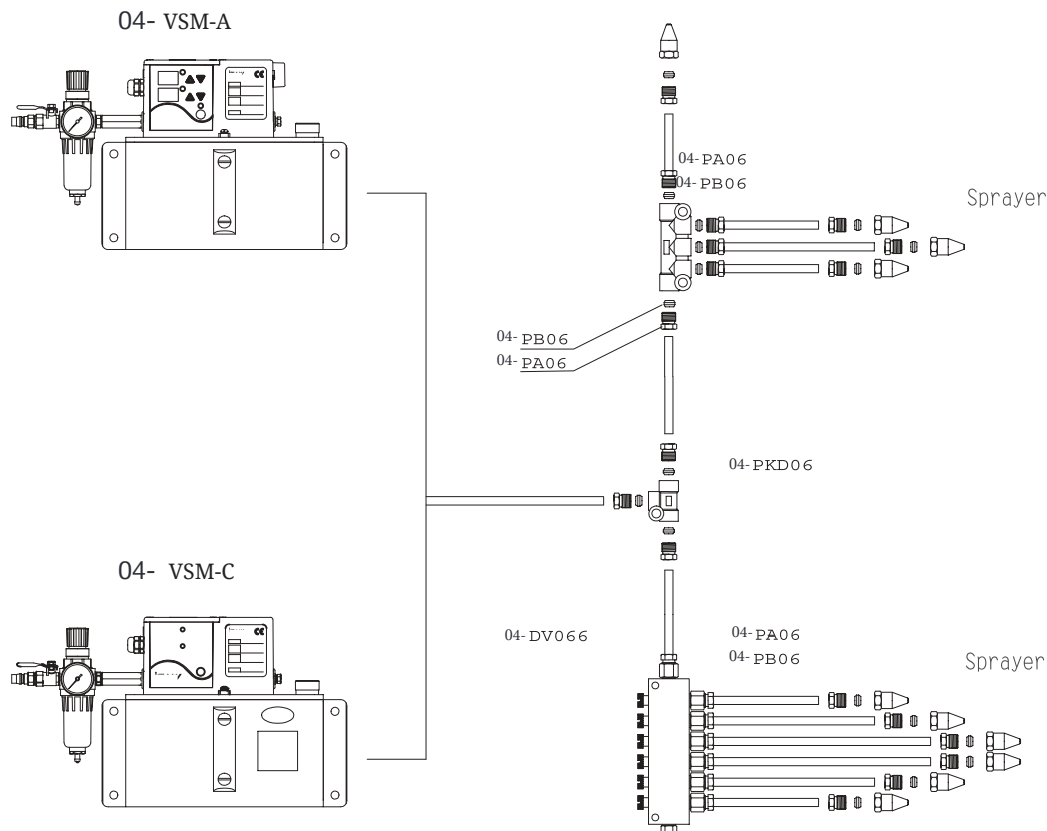
1. Oil can be recycled after lubrication process.
2. Include cycling device and filter to ensure oil quality.
3. Include cooling device to lower the oil temperature.
4. The float switch outputs signal when the oil level is low.
5. Include pressure valve and pressure gauge for adjustment.

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

Model	VLB(Horizontal)	VLS(Vertical)	VLD
Voltage (Three Phase)	220V/380V or 220V/440V	220V/380V or 220V/440V	220V/380V or 220V/440V
Power (HP)	1/4	1/2	1/4
Capacity of Terminal Output (A)	0.3(Float switch)	0.3(Float switch) 3(Pressure switch)	0.3(Float switch) 3(Pressure switch)
Pole	4	4	4
Current Frequency (Hz)	50/60	50/60	50/60
Max. Output Pressure Mpa (kgf/cm ²)	1.5 (15)	1.5 (15)	1.5 (15)
Output Volume (L/min)	3.0 or 6.0	3.0 or 6.0	3.0 or 6.0
Float Switch	O	O	O
Pressure Switch(kgf/cm ²)	X(Option)	O	O
Pressure Gauge	O	O	O
Output Bore	Ø6 or Ø8 or Ø10	Ø6 or Ø8 or Ø10	Ø6 or Ø8 or Ø10
Alarm Beeper	X	X	X
Tank Capacity (L)	20	30	40

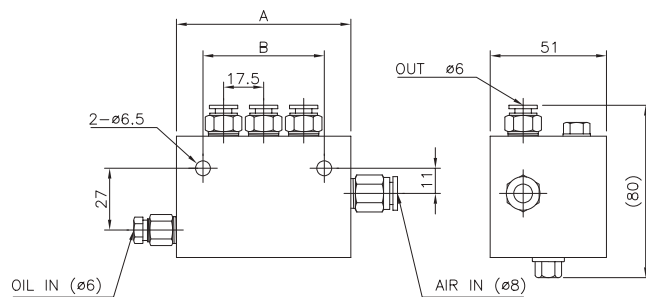
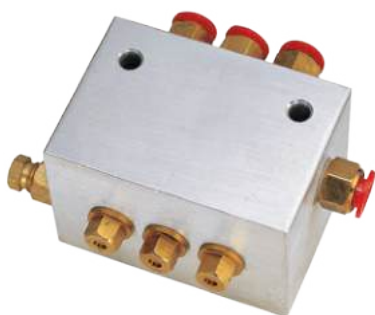
Note: 1. Metal tank of other capacity can be tailored.
 2. Recommended oil viscosity range is 30-150cSt.
 3. The output volume is based on 60Hz and 110V/220V.

SPRAY MIST LUBRICATION SYSTEMS



04-SD SPRAY MIST

When the piston lubricator delivers oil into the inlet, and the air is delivered from the inlet of the other side. The oil becomes mist and sprays on the surface of work piece to achieve cooling and lubrication, The Spray mist distributor should incorporate with piston lubricators than spray mist lubricators. The requires working pressure is 3 kgf/cm².



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

04-VSC-U MULTI-FUNCTIONAL OIL MIST NOZZLE

Feature

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

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

Application

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

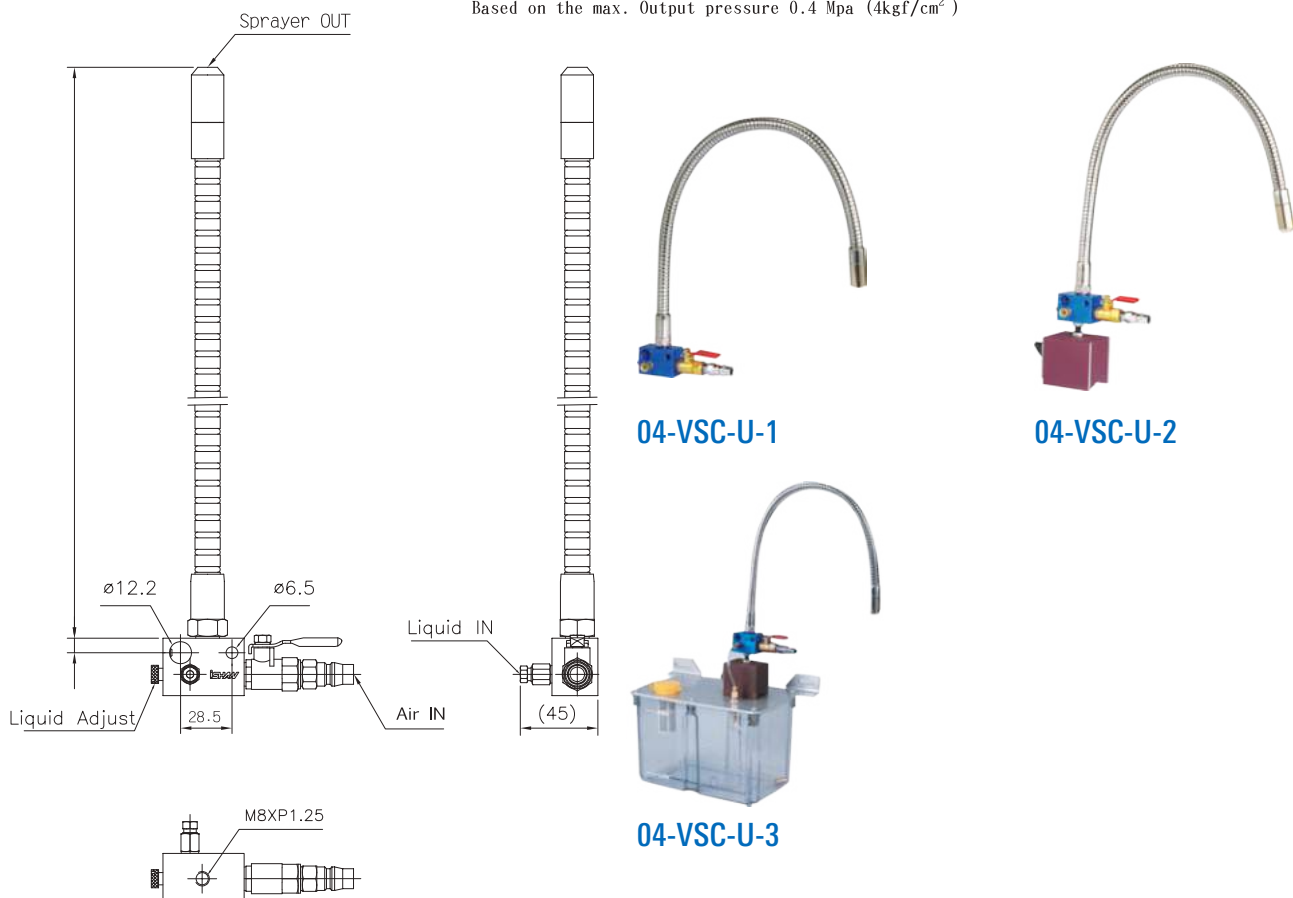
Remark

1. Clean oil is a must.
2. Corrosive oil is prohibited.
3. Compressed air pressure: 0.25Mpa (2.5 kgf/cm²).
4. Viscosity 0~68cSt.

04-VSC oil consumption test results

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

Based on the max. Output pressure 0.4 Mpa (4kgf/cm²)



GREASE LUBRICATION SYSTEM

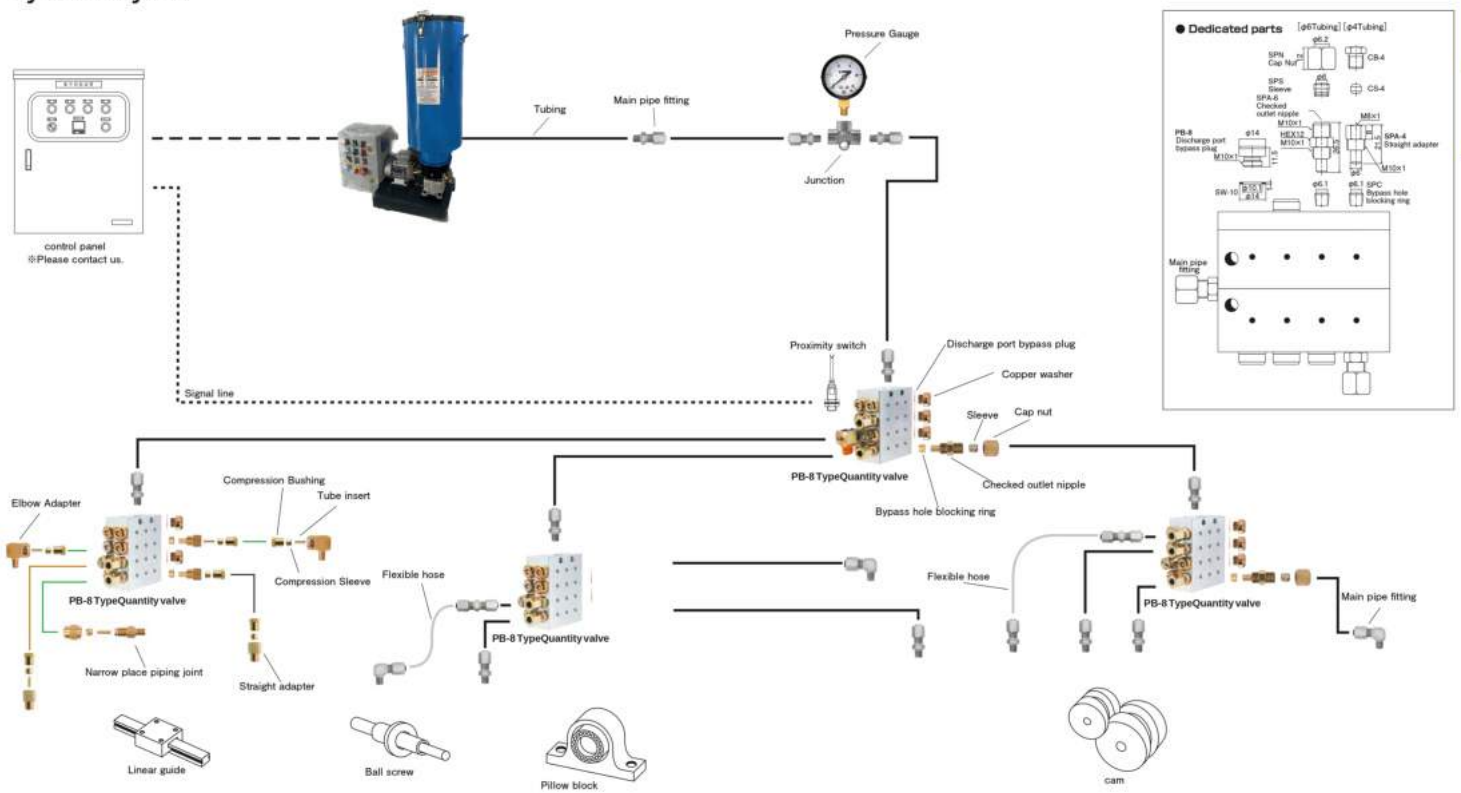
1. Only No.0 or No.00
2. Only clean grease
3. Only use grease gun to refill. It is prohibited to refill from the top of the cup

RESISTANCE GREASE LUBRICATION SYSTEM DIAGRAM

World standard Power Luber • Grease lubrication system

POWER LUBER

Progress method
System layout



Grease lubrication system

POWER LUBER



04-MULTILINE GREASE LUBRICATOR

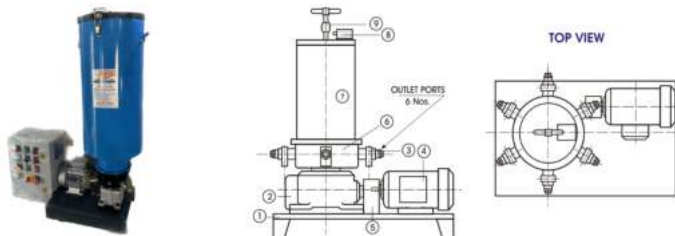
04-RL-5-6

MULTILINE RADIAL LUBRICATOR

The Radial Lubricating System is used for ejecting predetermined lubricant whether it is soft grease or thick oil under pressure to different points of the lubrication. The system is best suited for machinery such as Cement Plants, Sugar Plants, Textile Plants, Rubber Processing Plants, Chainsaw machine, Presses and Hammers.

Grease filling in the reservoir can be done manually as well as with the help of other pump. For pump 1/4" BSP port is provided on reservoir.

- Always use proper & clean lubricants. Avoid foreign particles in the pump. The foreign particles or dust items are the main responsible factor to damage physical components of the pump and choking in the plunger body. Do not plug out put of any pumping unit.
- Always fill the lubricants before it is empty to avoid air in the pump. The presence of air may be resulted in improper quantity of discharge.



PARTS NAME

- | | | |
|----------------|---------------------|----------------------------|
| 1 BASE PLATE | 4 MOTOR | 7 RESERVOIR |
| 2 GEAR BOX | 5 GEAR COUPLING BOX | 8 LIMIT SWITCH (OPTIONAL) |
| 3 PLUNGER PUMP | 6 PUMP HOUSING | 9 TELL TALE ROD (OPTIONAL) |

Technical Specifications

MODEL	RL-1.5-4	RL-5-6	RL-15-12	RL-30-20	RL70-30
Reservoir Capacity In Kg.	1.5	5	15	30	70
No. of Outlets (Pump-Elements)	4	6	12	20	30
Motor 3Phase, 415VAC, 4 Pole	0.25 HP	0.25 HP	0.50 HP	1.00 HP	1.50 HP
Delivery pressure	200kg/cm ² maximum				
Dose of Pump / Cycle (Adjustable)	0.05cc to 0.25cc/ Stroke/ Pump (max. 5gm/min.)				
Reduction Ratio of Drive	70 : 1				

04-DUAL LINE GREASE LUBRICATION SYSTEMS

DUAL LINE GREASE LUBRICATION SYSTEM



APPLICATIONS

Dual line system is used where large distance in lubrication points. This is high pressure pump and used in steel plants, cement plants, Turbine generator, furnaces, sugar plants, sponge iron plants etc.

CONSTRUCTION

Dual line lubrication system comprising of a single pumping station having pumping elements and fitted on the outer periphery of the housing. Reservoir also mounted on housing and fitted on base plate with motor, gear box, change over valve, pressure gauge etc.

WORKING

Dual line grease lubrication system can be installed with a decided scheme by using main pumping station, end pressure relay, relief valve, change over valve, dose feeder, in line filter, tubing & fitting and electronic control panel. When pump starts, then grease will deliver to main line and it will finally reach to connected lubrication points through dose feeder (Blocks). Once grease has delivered to all points connected with one line, the pressure will rise in the corresponding line as pump is still supplying grease. As soon as pressure crosses set pressure value pressure reversing valve, through control panel actuates. Grease starts flowing into second line. Delivery of grease to lubricating points take place and pressure rises again. When it crosses set pressure of end relay, the system will stop. Cycle is over and it confirm lubrication to all points. Now after preset 'OFF' time system starts again and repeats the same process.

Technical specification

MODELS	DGL-30	DGL-50	DGL-70	DGL-100
Reservoir capacity	30 Kg.	50 Kg.	70 Kg.	100 Kg.
Max. Discharge	250 gm/min.	250 gm/min.	250 gm/min.	250 gm/min.
Delivery Pressure Max.	250 Kg/cm ²	250 Kg/cm ²	250 Kg/cm ²	250 Kg/cm ²
Grease grade	NLG-1/II	NLG-1/II	NLG-1/II	NLG-1/II

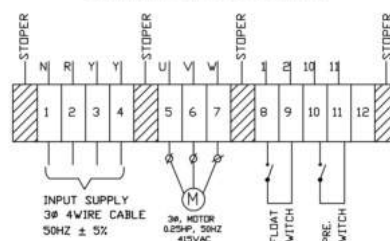
04-Multiline Radial Lubricator

- Multi-Line Radial Lubricator comprises of a single pumping station having a number of pump-element assemblies placed radially & fitted onto the outer periphery of the housing. These pump element are actuated by a cam which is rotated by a speed speed reduction drive coupled to an electric motor

The dose-cycle of the pump-element is adjustable. Thus multiline lubricator can have pump-element ejecting different dose cycle.

- Lubrication and intermittent time can be adjusted.
- The indicator on the panel can display the operation of the lubricator.
- Fixed pressure of the pressure relief valve protects the pump and the pipe.
- Lubrication time (second) and intermittent time (minute/hour/cycle) are adjustable.
- "RES" key can force the lubricator to function.

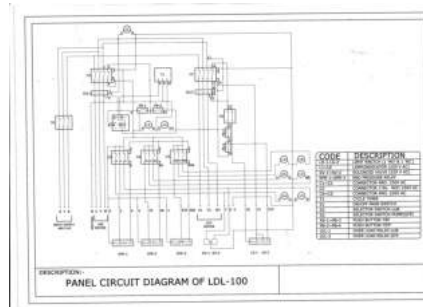
TERMINAL BLOCK DETAILS



04-RL-5-6 WIRING DIAGRAM

04-Dual Line Grease Lubrication Systems

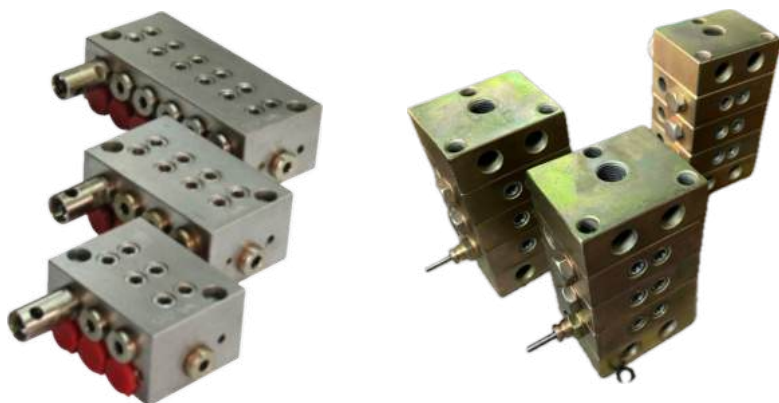
- Dual Line systems can function under high pressure and incorporates a modular structure. Suitable for heavy industry with large machine with multiple lubrication. In the dual line systems, there are two main line that operate alternatively pressurize and release pressure
- Lubrication and intermittent time can be adjusted.
- The indicator on the panel can display the operation of the lubricator.
- Fixed pressure of the pressure relief valve protects the pump and the pipe.
- "FEED" key can force the lubricator to function.



04- DUAL LINE WIRING DIAGRAM

Model	RL-5-6			DGL-100		
Voltage (3 Phase 415VAC 4 Ploe)	3 Phase 415 VAC			3 Phase 415 VAC		
Consumption Power (W)	186			1492		
No. of Outlet	06			02		
Capacity of Terminal Output (A)	3			3		
Lubrication time (second)	1-999			1-999		
Intermittent Time	1-999(minute/hour/cycle)			1-180 (minute)		
Output Bore	PT1/4					
Max. Output Pressure Mpa (kgf/cm ²)	15-20 (150-200)			20-25(200-250)		
Output Volume (gm/stroke)	10 gm/stroke			250 gm/stroke		
Pressure Gauge	O			O		
Reservoir capacity (kg)	05	25	50	50	70	100
Weight (kg)	15	20	30	40	50	70

DG-SERIES GREASE DISTRIBUTOR



Model	Number of Outlet	A	B	Output Volume (cc/stroke)	Weight (g)
04-DG-200	2	75	39-43	0.3 0.4 0.5	168
04-DG-300	3	90	54-58		232
04-DG-400	4	105	69-73		299
04-DG-500	5	120	84-88		359
04-DG-600	6	135	99-103		426

DU-SERIES GREASE DISTRIBUTOR



Model	Detection Switch	Number of Outlet (N)	Output Volume (cc/stroke)	Max. Output Pressure Mpa (kgf/cm ²)	Weight (g)
04- DU-4T	X	4	0.33	15 (150)	350
04- DU-4P	O				
04- DU-6T	X	6			350
04- DU-6P	O				
04- DU-8T	X	8			320
04- DU-8P	O				
04- DU-10T	X	10			440
04- DU-10P	O				
04- DU-12T	X	12			440
04- DU-12P	O				

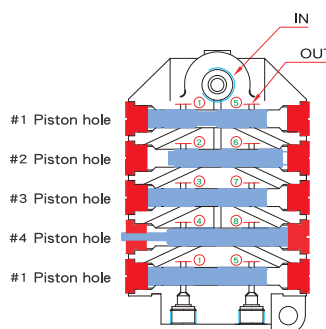


Fig 1

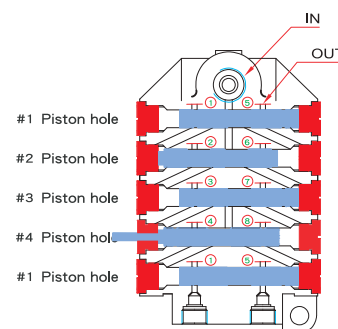


Fig 2

DU-SERIES OPERATION

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

The grease continuously pushes the left side of No.3 piston hole and pushes piston 3-7 rightward to discharge grease in No.6 outlet.

The inclined right-sided holes of the closed No.3 piston hole and No.4 piston hole connect, and the inclined left-sided hole of No.4 piston hole connects the No.3 outlet.

The grease continuously pushes the right side of No.4 piston hole and pushes piston 4-8 leftward to discharge grease in No.3 outlet.

The inclined left-sided holes of the closed No.4 piston hole and No.1 piston hole connect, and the inclined right-sided hole of No.1 piston hole connects the No.8 outlet.

The grease continuously pushes the left side of No.1 piston hole and pushes piston 1-5 rightward to discharge grease in No.8 outlet.

The inclined left-sided holes of the closed No.1 piston hole and No.2 piston hole connect, and the inclined left-sided hole of No.2 piston hole connects the No.1 outlet.

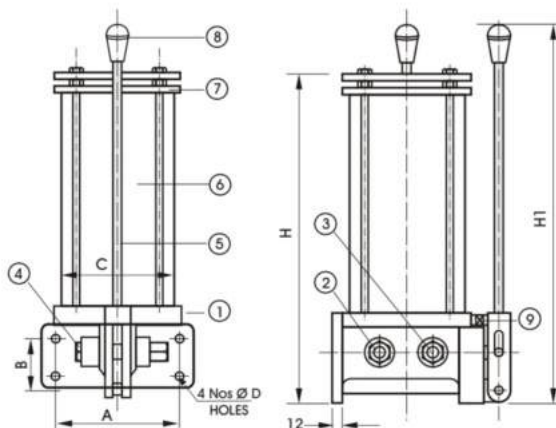
The grease continuously pushes the right side of No.2-6 piston hole and pushes piston leftward to discharge grease in No.1 outlet.

The first half of the discharging completes, and the final position is as Diagram 2. The second half cycle is almost the same.

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

MANUAL GREASE PUMPS

These are manually operated Piston type Grease Pumps. Which are used for grease lubrications. The grease is injected to the lubrication points under pressure by these pumps.



PART NAME

- 1 PUMP BODY
- 2 OUTLET PORT-1/4" BSP
- 3 GREASE FILLING NIPPLE
- 4 BLEED PLUG
- 5 LEVER
- 6 RESERVOIR
- 7 TOP COVER
- 8 TELL TALE ROD ASSY.
- 9 CATCHER

Technical Specifications

MODEL	RESERVOIR CAP.	DISCHARGE	MAX. PRESSURE	Dimensions in mm.					
				A	B	C	ØD	H	H1
MGP - 500 - 3	0.5 Kg.	3gms / STROKE	70 Kg. / Cm ²	70	30	70	7	240	285
MGP -1000 - 4	1.0 Kg.	4gms / STROKE	100 Kg. / Cm ²	85	30	85	7	310	325
MGP -1500 - 6	1.5 Kg.	6gms / STROKE	120 Kg. / Cm ²	85	50	85	9	360	360



24 VOLT DC GREASE LUBRICATOR



CHARACTERISTICS	PUMP 24V DC - Rollo Electrical piston pump
Max. pressure-bar (psi)	250 (3625)
Flow rate	6 cm ³ /min
Tank capacity Litres/Kg	2 or 4
Max. working time (min) for 50 W version	5 (min. pause time/work time (lubrication) ratio is 3:1)
Max. working time (minimum for 120 W version)	unlimited
Lubricant characteristics at temperature of use cSt	Oil Viscosity = min. 15 cSt Max. grease consistency NLGI 2
Temperature of use; for situations outside this range contact Power Luber Engineering Dept	- 5 °C - + 40 °C
Motor	24 VDC The motor can operate at voltages between 12 and 30 VDC
Absorbed power	50 W/120 W
Tank	In transparent technopolymer - capacity 2 Kg

METERING FOR PROGRESSIVE SYSTEM

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

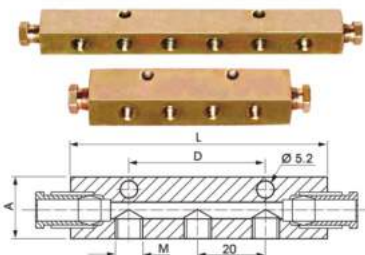


Model	Inlet Bore	Number of Outlet	L	D	Weight (g)
04-DV024	Ø4	2	47	37	101
04-DV026	Ø6				
04-DV034	Ø4	3	62	52	131
04-DV036	Ø6				
04-DV044	Ø4	4	77	67	165
04-DV046	Ø6				
04-DV054	Ø4	5	92	82	194
04-DV056	Ø6				
04-DV064	Ø4	6	107	97	228
04-DV066	Ø6				
04-DV074	Ø4	7	122	112	255
04-DV076	Ø6				
04-DV084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

04-DB-SERIES OIL DISTRIBUTOR DB06 (PCS)

MANIFOLDS

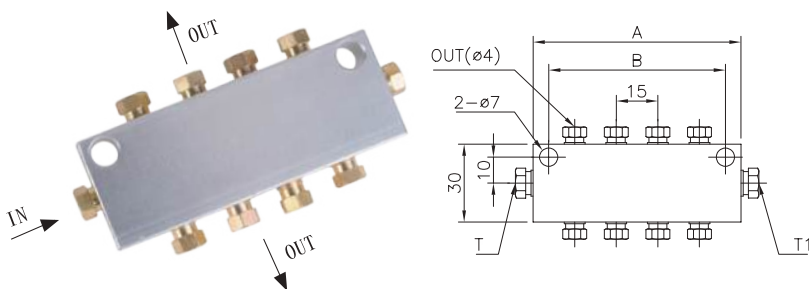
Manifold are required for mounting of oil distributors. These having two ports of 6mm OD tube and few side outlets. Oil distributors are screwed directly on side outlets of manifolds.



MODEL	L mm	A mm	Thickness mm	M mm	D mm	Mounting Holes
M-1	35	18	15	M8X1	-	1
M-2	55	18	15	M8X1	-	1
M-3	75	18	15	M8X1	40	2
M-4	95	18	15	M8X1	40	2
M-5	115	18	15	M8X1	40	2
M-6	135	18	15	M8X1	60	2
M-7	155	18	15	M8X1	60	2
M-8	175	18	15	M8X1	60	2
M-1A	40	22	22	M10X1	-	1
M-2A	65	22	22	M10X1	-	1
M-3A	90	22	22	M10X1	50	2
M-4A	115	22	22	M10X1	50	2

Model	T/T1	Number of Outlet	L	D	Weight (g)
04-DB041	Ø4/Ø4	4	95	40	59
04-DB042	Ø4/Ø6				
04-DB043	Ø6/Ø6				
04-DB051	Ø4/Ø4	5	115	40	76
04-DB052	Ø4/Ø6				
04-DB053	Ø6/Ø6				
04-DB061	Ø4/Ø4	6	135	60	96
04-DB062	Ø4/Ø6				
04-DB063	Ø6/Ø6				
04-DB071	Ø4/Ø4	7	155	60	113
04-DB072	Ø4/Ø6				
04-DB073	Ø6/Ø6				
04-DB081	Ø4/Ø4	8	175	60	135
04-DB082	Ø4/Ø6				
04-DB083	Ø6/Ø6				
04-DB091	Ø4/Ø4	3A	90	50	145
04-DB092	Ø4/Ø6				
04-DB093	Ø6/Ø6				
04-DB101	Ø4/Ø4	4A	115	50	164
04-DB102	Ø4/Ø6				
04-DB103	Ø6/Ø6				
04-DB121	Ø4/Ø4				
04-DB122	Ø4/Ø6				
04-DB123	Ø6/Ø6				

04-DE-SERIES OIL DISTRIBUTOR DE08 (SET)



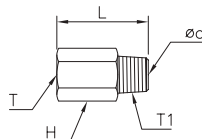
- 1.Dimension is in "mm".
- 2.The distributor by "set" includes the distributor body, compression sleeve, and compression bushing.
- 3.The distributor by 'pcs' includes the distributor body only.

*Option of the Ø6 outlet is available.

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

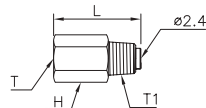
Fittings and Accessories

STRAIGHT ADAPTER



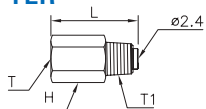
Model	Bore	ψ d	L	T	T1	H	Weight (g)
04-PD0401	Ø4	3	18	M8x1.0	PT1/8	10	8
04-PD0402	Ø4	3.5	18	M8x1.0	PT1/4	14	17
04-PD0406-1	Ø4	2.5	18	M8x1.0	M6x0.75	10	6
04-PD0406	Ø4	2.5	18	M8x1.0	M6x1.0	10	6
04-PD0408	Ø4	3	18	M8x1.0	M8x1.0	10	6
04-PD0601	Ø6	4	18	M10x1.0	PT1/8	12	8
04-PD0602	Ø6	5	18	M10x1.0	PT1/4	14	14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

REVERSE-FLOW STRAIGHT ADAPTER



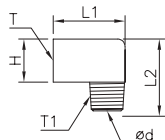
Model	Bore	L	T	T1	H	Weight (g)
04-PD0401B	Ø4	26	M8x1.0	PT1/8	10	11
04-PD0601B	Ø6	26	M10x1.0	PT1/8	12	14

ONE-WAY STRAIGHT ADAPTER



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

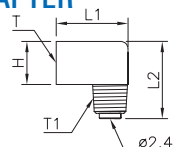
ELBOW ADAPTER



(Special Order)

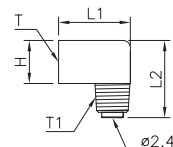
Model	Bore	ψ d	L1	L2	T	T1	H	Weight (g)
04-PH0401	Ø4	3	18	18	M8x1.0	PT1/8	10	13
04-PH0402	Ø4	4	20	22	M8x1.0	PT1/4	14	32
04-PH0406-1	Ø4	2	18	18	M8x1.0	M6x0.75	10	13
04-PH0406	Ø4	2	18	18	M8x1.0	M6x1.0	10	12
04-PH0408	Ø4	3	18	18	M8x1.0	M8x1.0	10	13
04-PH0601	Ø6	4	20	20	M10x1.0	PT1/8	12	20
04-PH0602	Ø6	4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

REVERSE-FLOW ELBOW ADAPTER



Model	Bore	L1	L2	T	T1	H	Weight (g)
04-PH0401B	Ø4	18	20	M8 x 1.0	PT1/8	10	14
04-PH0601B	Ø6	20	22	M10 x 1.0	PT1/8	12	21

ONE-WAY ELBOW ADAPTER



Model	Bore	L1	L2	T	T1	H	Weight (g)
04-PH0401A	Ø4	18	20	M8 x 1.0	PT1/8	10	14
04-PH0601A	Ø6	20	22	M10 x 1.0	PT1/8	12	21

REVERSE-FLOW ELBOW ADAPTER FOR NYLON PIPE



Model	Spec	Weight (g)
04-440N03-C1006	PT1/8 x Ø6	16
04-440N03-C1010	PT1/8 x PE1/8	12
04-440N03-C1020	PT1/8 x PE1/4	16
04-440N03-C1025	PT1/8 x PE5/16	18
04-440N03-L2006	PT1/4 x Ø6	22
04-440N03-L2010	PT1/4 x Ø10	28
04-440N03-C2020	PT1/4 x PE1/4	21
04-440N03-C2025	PT1/4 x PE5/16	25
04-440N03-C2030	PT1/4 x PE3/8	27.5
04-440N03-C3020	PT3/8 x PE1/4	27.5

ONE-WAY STRAIGHT ADAPTER FOR NYLON PIPE



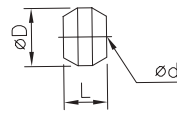
Model	Spec	Weight (g)
04-440N06-L102	PT1/8 x PE1/4	16.5
04-440N06-L1025	PT1/8 x PE5/16	23.5
04-440N06-L2006	PT1/4 x Ø6	25.5
04-440N06-L2010	PT1/4 x Ø10	30.5
04-440N06-L2020	PT1/4 x PE1/4	26
04-440N06-L2025	PT1/4 x PE5/16	32.5
04-440N06-L203	PT1/4 x PE3/8	34.5
04-440N06-L302	PT3/8 x PE1/4	31.5

1.Dimension is in 'mm'.

2.Option of the Ø6 outlet is available.

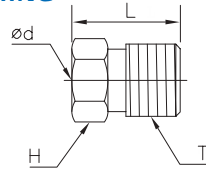
Fittings and Accessories

COMPRESSION SLEEVE



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

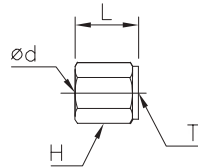
COMPRESSION BUSHING



Model	Bore	Ød	D	L	H	Weight (g)
04-PA04	Ø4	4.1	12	M8 x 1.0	8	3
04-PA04-1	Ø4	4.2	12	M8 x 1.0	8	3
04-PA06	Ø6	6.1	12.5	M10 x 1.0	10	4
04-PA08	Ø8	8.1	14	M14 x 1.5	14	9
04-PA10	Ø10	10.1	15	M16 x 1.5	16	12

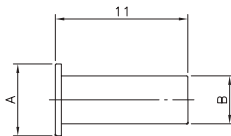
(Special Order)

COMPRESSION NUT



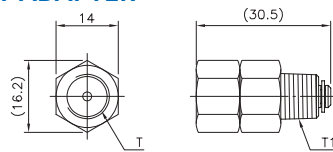
Model	Bore	Ød	D	L	H	Weight (g)
04-DP04	Ø4	4.05	13	M8 x 1.0	10	3

CONNECTOR INSERT



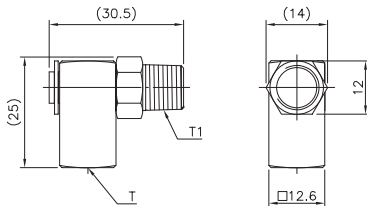
Model	A	B	Weight (g)
04-PPD04	Ø4	Ø2	0.2
04-PPD06	Ø6	Ø4	

SWIVEL STRAIGHT ADAPTER



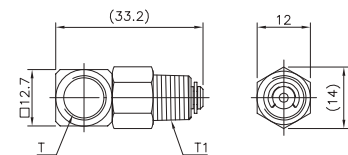
Model	Bore	T	T1	Weight (g)
04-PM0401	Ø4	M8 x 1.0	PT1/8	28
04-PM0101		PT1/8	PT1/8	26

SWIVEL ELBOW ADAPTER



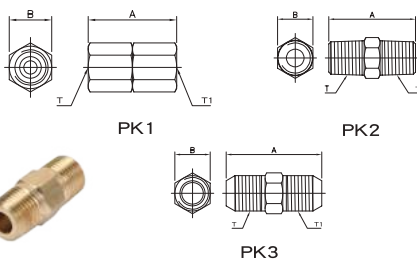
Model	Bore	T	T1	Weight (g)
04-PC0401	Ø4	M8 x 1.0	PT1/8	38
04-PC0101		PT1/8	PT1/8	36

PLANE SWIVEL ELBOW ADAPTER



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

CONNECTOR



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

1.Dimension is in 'mm'.

2.Option of the Ø6 outlet is available.

FITTINGS

STRAIGHT CONNECTORS

*TAPER

MODEL	Suitable for tube	D	A	B	C	S	S1
FSC-4/M6X1	4 mm "OD"	M6X1	7	17	25	9	11
*FSC-4T/M8X1	4 mm "OD"	M8X1	7	17	25	9	11
FSC-4/M10X1	4 mm "OD"	M10X1	7	17	25	9	11
*FSC-4T/1/8"BSP	4 mm "OD"	1/8"BSP	7	17	25	9	11
*FSC-4T/1/4"BSP	4 mm "OD"	1/4"BSP	7	26	34	9	19
FSC-6/M6X1	6 mm "OD"	M6X1	7	22	32	11	13
FSC-6/M8X1	6 mm "OD"	M8X1	7	22	32	11	13
*FSC-6T/M10X1	6 mm "OD"	M10X1	7	22	32	11	13
FSC-6/1/8"BSP	6 mm "OD"	1/8"BSP	7	22	32	11	13
FSC-6/1/4"BSP	6 mm "OD"	1/4"BSP	7	26	34	11	19

CONNECTOR BLOCKS

MODEL	Suitable for tube	C	A	B	S
FCB-4	4 mm "OD"	18	35	50	9
FCB-6	6 mm "OD"	18	35	55	11

ELBOW BLOCKS

MODEL	Suitable for tube	A	B	S
FEB-4	4 mm "OD"	25	33	9
FEB-6	6 mm "OD"	25	35	11

TEE BLOCKS

MODEL	Suitable for tube	C1	C	A	B	S
FT-4	4 mm "OD"	27	37	35	45	9
FT-6	6 mm "OD"	27	37	35	45	11

CROSS BLOCKS

MODEL	Suitable for tube	A	B	S
FCR-4	4 mm "OD"	35	50	9
FCR-6	6 mm "OD"	35	55	11

LOCKING SCREW

MODEL	Suitable for tube	D	A	B	S
LS-4	4 mm "OD"	M8X1	8.5	12.5	11
LS-6	6 mm "OD"	M10X1	11	15	13

ELBOWS

*TAPER

MODEL	Suitable for tube	D	A	B	C	E	S
*FE-4T/M6X1	4 mm "OD"	M6X1	22	30	10	21	9
*FE-4T/M8X1	4 mm "OD"	M8X1	22	30	10	21	9
*FE-4T/M10X1	4 mm "OD"	M10X1	22	30	10	24	9
*FE-4T/1/8"BSP	4 mm "OD"	1/8"BSP	22	30	10	24	9
*FE-4T/1/4"BSP	4 mm "OD"	1/4"BSP	25	30	12	26	9
*FE-6T/M6X1	6 mm "OD"	M6X1	22	32	10	21	11
*FE-6T/M8X1	6 mm "OD"	M8X1	22	32	10	21	11
*FE-6T/M10X1	6 mm "OD"	M10X1	22	32	10	24	11
*FE-6T/1/8"BSP	6 mm "OD"	1/8"BSP	22	32	10	24	11
*FE-6T/1/4"BSP	6 mm "OD"	1/4"BSP	25	35	12	26	11

BANJO (4mm)

MODEL	Suitable for tube	D	A	B	C	E	S	S1
FB-4/M6X1	4 mm "OD"	M6X1	25	33	7	22	9	9
FB-4/M8X1	4 mm "OD"	M8X1	25	33	7	22	9	11
FB-4/M10X1	4 mm "OD"	M10X1	27	35	7	22	9	13
FB-4/1/8"BSP	4 mm "OD"	1/8"BSP	27	35	7	22	9	13

BANJO (6mm)

MODEL	Suitable for tube	D	A	B	C	E	S	S1
FB-6/M6X1	6 mm "OD"	M6X1	27	37	7	22	11	13
FB-6/M10X1	6 mm "OD"	M10X1	27	37	7	22	11	13
FB-6/1/8"BSP	6 mm "OD"	1/8"BSP	27	37	7	22	11	13
FB-6/1/4"BSP	6 mm "OD"	1/4"BSP	30	40	8	33	11	17

CLAMPS

MODEL	Suitable for tube	Suitable for	D	C1	B	C
C-4-1	4 mm "OD"	1 Tube	5.5	6	20	1.5
C-4-2	4 mm "OD"	2 Tube	5.5	6	23	1.5
C-4-3	4 mm "OD"	3 Tube	5.5	6	26	1.5
C-6-1	6 mm "OD"	1 Tube	5.5	6	20	1.5
C-6-2	6 mm "OD"	2 Tube	5.5	6	26	1.5
C-10-1	10 mm "OD"	1 Tube	6.5	7	28	2.0

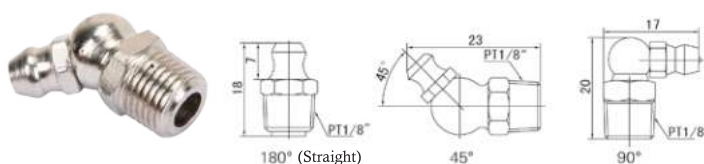
PLUGS

MODEL	Sealing Washer	D	A	B	S
P-8	SW-8 mm "OD"	M8X1	5	10	11
P-10	SW-10 mm "OD"	M10X1	5	10	13
P-1/4"BSP	SW-1/4"BSP "OD"	1/4"BSP	9	15	17
P-1/2"BSP	SW-1/2"BSP "OD"	1/2"BSP	12	19	22

LOCKING CONE (Ferule)

MODEL	Suitable for tube	
LC-4 Brass	4 mm	Material brass ID-4mm
LC-6 Brass	6 mm	Material brass ID-6mm
LC-10 All.	10 mm	Material All./M.S. ID-10mm

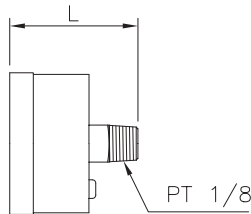
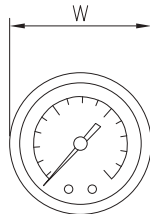
GREASE NOZZLE



Model	Spec	Weight (g)
04-440029	PT1/4x45°	15
04-440026	PT1/8x45°	8.5
04-440027	PT1/8x90°	9
04-440057	M8x90°	8
04-440023	PT1/4x180°(straight)	12.5
04-440000	PT1/8x180°(straight)	8.5
04-440047	M8x180°(straight)	4

1.Dimension is in "mm".

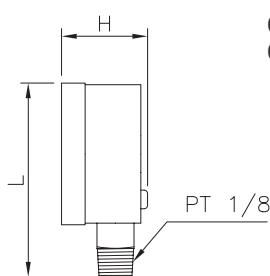
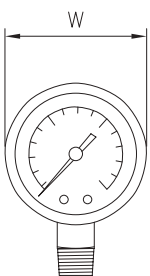
HORIZONTAL PRESSURE GAUGE



Model	Specification (kgf/cm ²)	W	L	Weight (g)
04-327000	15	42	38	53
04-327001	35	42	38	53
04-327400	35	48	44	96

Model	Specification (Bar/Mpa)	W	L	Weight (g)
04-327004	1.5	42	38	53
04-327005	3.5	42	38	53

VERTICAL PRESSURE GAUGE



Model	Specification (kgf/cm ²)	W	L	H	Weight (g)
04-327200	15	42	58	24	53
04-327201	35	42	58	24	53

Model	Specification (Bar/Mpa)	W	L	H	Weight (g)
04-327203	1.5	42	58	24	50
04-327204	3.5	42	58	24	50

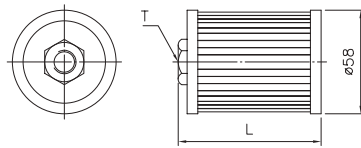
VALVE



Model	Specification	Weight (g)
04-MA0405	PS1/4 X PE5/16	64.5
04-MB0404	PS1/4 double female	57
04-MB0606	PS3/8 double male	94
04-MC0404	PT1/4 double male	59
04-MD0402	1/4 (female) X 1/8 (male)	51
04-MD0402	1/4 (female & male)	53
04-MD0606	3/8 (female & male)	82.5
04-ME0404	PT1/4 x PE1/4	58
04-ME0405	PT1/4 x PE5/16	54
04-ME0406	PT1/4 x PE3/8	59

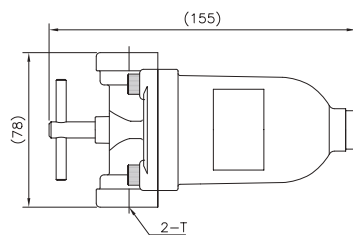
1.Dimension is in"mm".

OIL FILTER



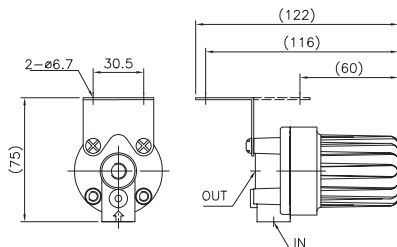
Model	T	L	Filter Precision (μ)	Weight (g)
04-PF25806	PT1/4"	60	196	125
04-PF25808	PT1/4"	80	196	140
04-PF25810	PT1/4"	100	196	150
04-PF35806	PT3/8"	60	196	120
04-PF35808	PT3/8"	80	196	130
04-PF35810	PT3/8"	100	196	135

ADJUSTABLE OIL FILTER



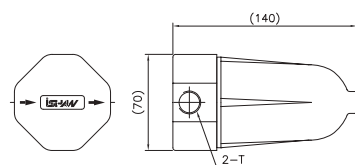
Model	Inlet/Outlet Thread	Filter Precision (Mesh)	Max. Output Volume (L/min)	Max. Pressure
04-PR-C1	PS1/4 x PS1/4	60	20L/min	1.5Mpa (15 kgf/cm ²)
04-PR-C2	PS3/8 x PS3/8	60	30L/min	
04-PR-C3	PS1/2 x PS1/2	60	30L/min	

FL OIL FILTER



Model	Max. Operation Pressure (kgf/cm ²)	Max. Output Volume (L/min)	Filter Precision (μ)	INxOUT	Weight (g)
04-FL-010025	25	2.5	10	PS1/8xPS1/8 PS1/4xPS1/4	30.0
04-FL-025030	25	3	25		30.0
04-FL-125035	25	3.5	125		30.0

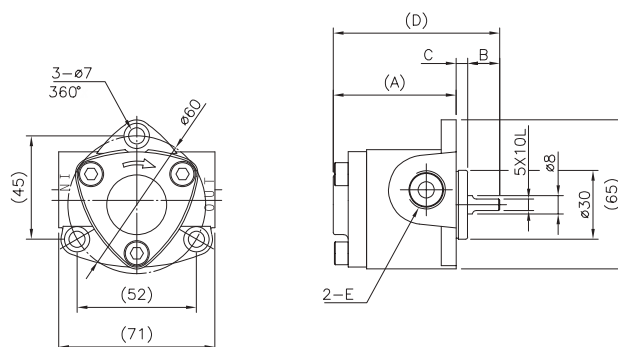
DOUBLE-SIDED OIL FILTER



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

1.Dimension is in"mm".

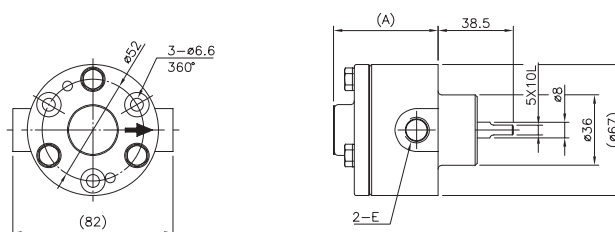
TOP OIL FEED PUMP



The structure is simple with strong suction and low noise as well as high speed. It is suitable for the continuous low pressure lubrication. Viscosity: 30~150cSt

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

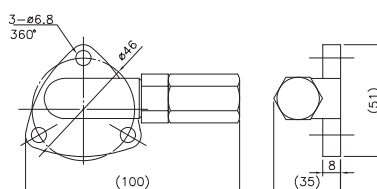
1RA FEED PUMP (REVERSABLE)



The structure is simple with strong suction and low noise as well as high speed. It is suitable for the continuous low pressure lubrication. The feature is of fixed inlet and outlet, but reversible rotation direction. Viscosity: 30~150cSt

Model	Output Volume (cc/rev)	Output Volume (L/min)		Max Pressure Mpa (kgf/cm ²)	Revolution (rpm)	Bore (E)	(A)	Weight (kg)
		1500rpm	1800rpm					
04-1RA-2FS	1.8	2.7	3.2	0.5 (5)	2000	PT1/4"	50	1.1
04-1RA-3FS	2.5	3.7	4.5	0.5 (5)	2000	PT1/4"	55	1.2

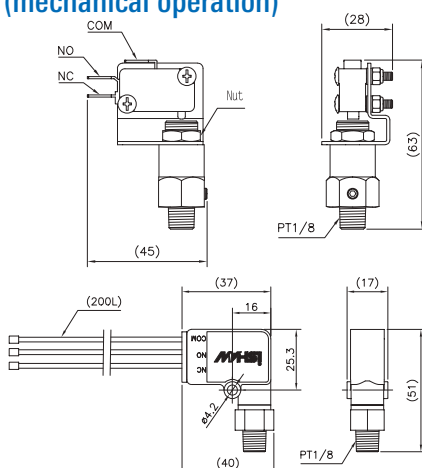
TOP ADJUSTABLE VALVE



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

Pressure Range : 0-0.5Mpa (0-5 kgf/ cm²); Weight(g):281

PRESSURE SWITCH (mechanical operation)



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. CDA operation pressure is 3Mpa (30 kgf/ cm²).

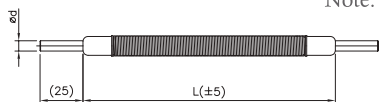
Model	Specification (kgf/cm ²)	Weight (g)
04-321661	2.5-1.9	81
04-321660	12-9	81

Model	Specification (kgf/cm ²)	Weight (g)
04-321652	11.5	39

1.Dimension is in "mm".

Fittings and Accessories

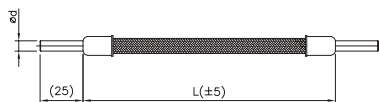
FLEXIBLE HOSE



Low pressure flexible hose: Model #PST. Pressure range 0-4Mpa(0-40 kgf/cm²).
Middle pressure flexible hose: model# PSM. Pressure range 4-8Mpa(40-80 kgf/cm²).
Note: Length is available via customers demand.

Model	Pipe Diameter
04-PST04	Ø4
04-PST06	Ø6

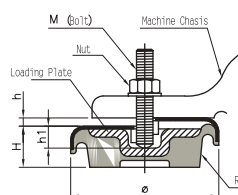
STEEL WIRE SHIELD TUBE



Note: Length is available via customers demand.

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

HEAVY DUTY MACHINERY VIBRATION ABSORBER



Model	Rubber Hardness	Dimension				Max Loading / pcs	Weight
		Ø	M	H	h		
04-S78-080-25-70	70	80	M10x80	25	8	255	0.4
04-S78-120-32-80	80	120	M12x100	32	12	1225	1.1
04-S78-160-35-80	80	160	M16x120	35	12	3570	2.2
04-S78-185-39-80	80	185	M20x160	39	12	4280	3.4
04-S78-228-54-80	80	228	M24 (P1.5)x180 (M20x180)	54	12	6630	7.3

NOZZLE



Specification	Length
PT1/4"	12"-30" (± 2")
PT3/8"	
PT1/2"	

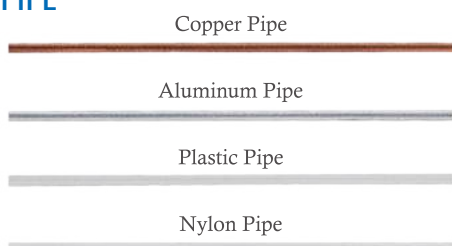
FLEXIBLE NOZZLE



Specification	PT1/4"	PT3/8"	PT1/2"
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Note: The outlet has flat type and round type.

PIPE



Description	Model	Specification			
Copper Pipe	04-P-CP	Bore	Ø4	Ø6	Ø8
		Minimum Bending Radius	R20	R30	R50
Aluminum Pipe	04-P-AP	Bore	Ø4	Ø6	Ø8
		Minimum Bending Radius	R20	R40	R40
Plastic Pipe	04-P-PP	Bore	Ø4	Ø6	Ø8
		Minimum Bending Radius	R20	R40	R40
Nylon Pipe	04-P-NP	Bore	Ø4	Ø6	Ø8
		Minimum Bending Radius	R20	R30	R50

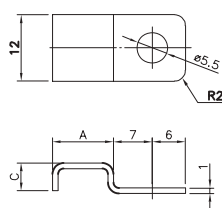
NYLON PIPE SPRING



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

Description	Model	Specification	Length
Nylon Pipe Spring	04-NPS	Ø4 and Ø6	1800±5mm

PIPE CLIP

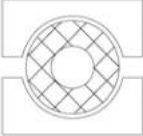
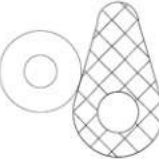
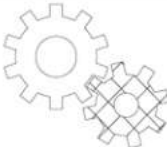


Model	Pipe Diameter	Number of holes	A	C	Weight(g)
04-PZ1104	Ø4	1	6	5	1.2
04-PZ1106	Ø6	1	8.5	7	2.6
04-PZ1108	Ø8	1	10	9	2.2
04-PZ1110	Ø10	1	12.5	11	3.6
04-PZ1204	Ø4	2	11	5	1.8
04-PZ1206	Ø6	2	14.5	7	2.8
04-PZ1304	Ø4	3	15	5	2.8

1.Dimension is in "mm".

INTRODUCTION OF LUBRICATION OIL

Calculation of Oil Volume (for reference)

Application	Formula (Unit:cm)	Example (Unit:cm)
Ball Bearings 	$F(\text{cc/hr}) = 0.04 \times \text{Dia. of Bearing} \times \text{Number of Bearing}$	Supposing Dia. of bearing is 8. $F = 0.04 \times 8 \times 1 = 0.32(\text{cc/hr})$
Plain Bearings 	$F(\text{cc/hr}) = 0.023 \times \text{Dia. of Shaft} \times \text{Contacting Shaft Length}$	Supposing a plain bearing with the shaft Dia. 8 and 10 contact shaft length.. $F = 0.023 \times 8 \times 10 = 1.84(\text{cc/hr})$
Slides 	Vertical: $F(\text{cc/hr}) = 0.006 \times \text{Length of Slide} \times \text{Width of Slide}$	Supposing a vertically mounted slide with the length of 10 and width of 4, $F = 0.006 \times 10 \times 4 = 0.24(\text{cc/hr})$
Cylindrical Slides 	$F(\text{cc/hr}) = 0.023 \times \text{Length of Slide} \times \text{Number of Slide}$	Supposing a vertically mounted slide with the length of 10 and width of 4, $F = 0.006 \times 10 \times 4 = 0.24(\text{cc/hr})$
Linear Guide 	$F(\text{cc/hr}) = 0.012 \times \text{Length of Slide} \times \text{Number of Slide}$	Supposing a liner gide of length 8 with two blocks, $F = 0.012 \times 8 \times 2 = 0.19(\text{cc/hr})$
Cam 	$F(\text{cc/hr}) = 0.013 \times \text{Circumference} \times \text{Width}$	Supposing a cam with the Circumference of 20 and width of 4, $F = 0.013 \times 20 \times 2 = 0.52(\text{cc/hr})$
Gears 	$F(\text{cc/hr}) = 0.046 \times \text{Pith Dia.} \times \text{Tooth Width}$	Supposing a gear with the pith Dia of 8 and tooth width of 2, $F = 0.046 \times 8 \times 2 = 0.74(\text{cc/hr})$
Chains 	$F(\text{cc/hr}) = 0.008 \times \text{Total Length of Chain} \times \text{Width}$	Supposing a chain with the total length of 30 and the width of 0.8, $F = 0.008 \times 30 \times 0.8 = 0.19(\text{cc/hr})$

Threads and Units Index of Lubrication System

PS: G,Rp

PT: ZG,R(External Thread),Rc(Internal Thread)

Z : NPT

Pressure : $1\text{kgf/cm}^2 = 0.1\text{Mpa} = 1\text{bar} = 14.5\text{psi}$

Viscosity : $1\text{cSt} = 1\text{mm}^2/\text{s}$

CENTRALIZED LUBRICATION SYSTEM



VET-A2-1.5L
Microcomputer Piston Lubricator



ELU-2700
Automatic Single Shot Lubricator



ALU03/S
Automatic Single Shot Lubricator
Single Phase



ALU03/3Phase
Automatic Single Shot Lubricator
(Adjustment Device in side
the Control Box)



ALU05-5L
Automatic Single Shot Lubrication



ALU20-20L
Automatic Single Shot Lubricator
(without float switch)



VLS-30H
Forced Cycle Lubricator



VLB-50H
Forced Cycle Lubricator



TOP
Oil Feed Pump



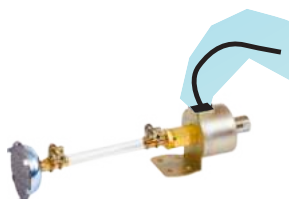
1RA
Oil Feed Pump (reversible)



TOP
Adjusting Valve



Connecting Motor-Iron Case



YEL
Electromagnetic Pump



MGP-5KG
Manual Grease Lubricator



RL-50-6
Multi-Line Grease Lubricator



Dual Line
Automatic Grease Lubricator



Metering Injector with Manifold



PB-12
Grease Distributor



SD
Spray Mist Distributor



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



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



Compression Bushing
Pipe die : Ø4,6,8,10



Compression Sleeve
Pipe die : Ø4,6,8,10



Straight-Adapter
Pipe die : Ø4,6,8,10



Elbow-Adapter
Pipe die : Ø4,6,8,10



Proportion Devices
SIZE : M8xM8, M8xPT1/8



T-Junction
Pipe die : Ø4,6



Cross-Junction
Pipe die : Ø4,6



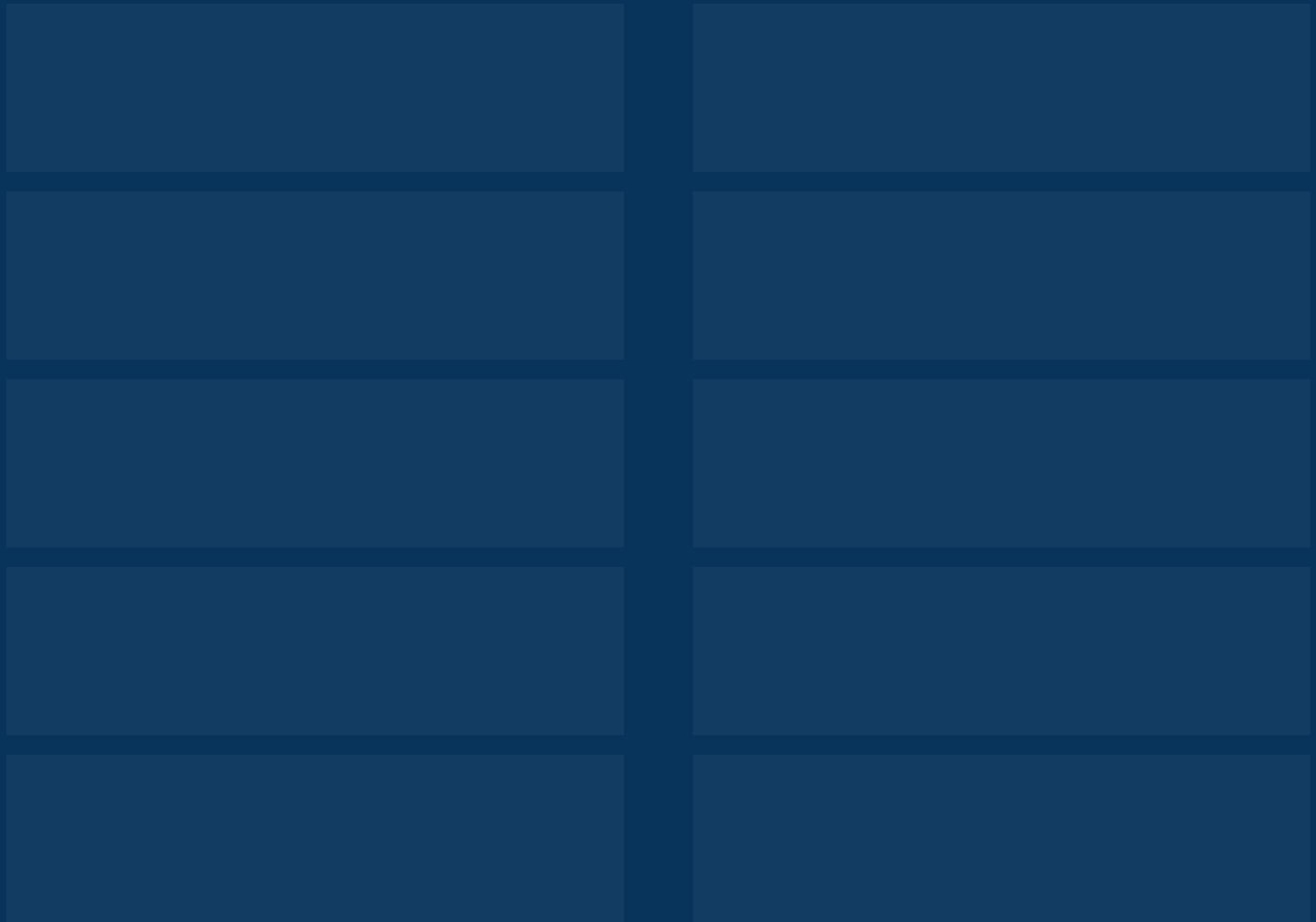
2-WAY Junction
Pipe die : Ø4,6



Oil Filter
SIZE : PS1/4, 3/8



FL Filter
SIZE : PS1/8, 1/4



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Systems

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Systems for
Cement Industry

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Systems for
Plastic
Processing

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