

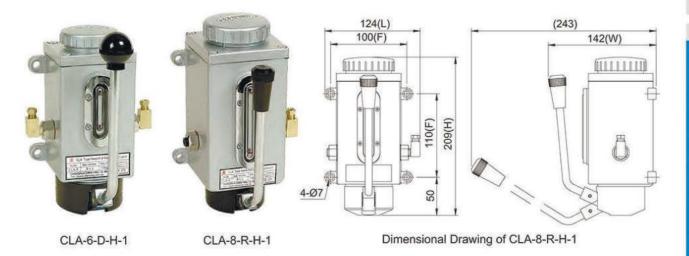


VKE

TABLE OF CONTENTS

Oil Lubrication System-SRI	Grease Lui	Grease Lubrication System-PDI				
Resistance Type Oil Lubricators	Pressure-Rel	ief Type Grease Lubricators				
P. 01~P. 17	P. 69~P. 74					
Manual Type CLA, CTA, CKE						
Electric Type	Controlled by PLC	KGB/P, KAB/P, KGVB69				
Controlled by PLC CEN01, CESG01, CEV-						
Controlled by Timer						
- Time Adjustable CESP/H/D/W, CEN02, C		antity Grease Lubricators				
- Interval Time Fixed CESMA/B, CESC, CESS	r. 11~P. 00					
Pneumatic Type PNA	Pneumatic Tyne	POM-A, POM-AP77				
76-	Distributors.	Proportion Adapters,				
Circulating Type Oil Lubricators	Spray Guns	P. 81~P. 100				
		Type Distributors				
Electric Type	27-11-21-21-21-21-21-21-21-21-21-21-21-21-	A, AE, B, CB, AB, BB, BS81				
Controlled by PLC CEH, CEU, CLS, CLSA/E	Flouressive re	eders				
CLST Controlled by Timer CEF	20	CV85				
	Proportion Ada					
	P. 29~P. 33	CPS, CPB, PTT, CPT, CPV, ST, SS87 ers RC, RD, RE, RF88				
Electric Type	Volume Distribu					
Controlled by PLC CEN24, CEN25	29	CAB, CBB, CCB, CDB, T, CO, OA, OC,				
Controlled by Timer CEN22, CEN23 Pneumatic Type COM	The state of the s	CFB89				
	Spray Guns	OT, OTS, OE, OG, OQ99				
Oil Lubrication System-PDI	Oil Pumps, N	lotors P. 101~P. 107				
Pressure-Relief Type Oil Lubric	Rotary Oil Pump	S101				
P. 34~P. 44		s102				
Manual Type CLAB		103				
Electric Type	A SECTION ASSESSMENT A	nectors (PMO-2), sure Valves105				
Controlled by PLC CEN03, CESG03, CEVB Controlled by Timer CEPB, CEWB, CEN04, CE	01 0 111	Notors (PMO-8)106				
Controlled by Timer CEPB, CEWB, CEN04, C		Pumps, Gear Pumps with Motors107				
Pneumatic Type PNB	44					
Oil-Air Type Lubricators	D 15~D 17	essories P. 108~P. 128				
Pneumatic Type	Adapters	108				
Controlled by PLC POA, PNC03	the state of the s	Pressure Gauges, Oil Windows116 Unions117				
Electric Type	Diddito, itolary	118				
Controlled by Timer COA		es119				
Minimum Quantity Oil Lubricate		120				
P. 48~P. 49	Magnetic Senso	Reed Switches122				
TOTAL CONTRACTOR OF THE PROPERTY OF THE PROPER		ipe Clamps, Pipe Clips125				
	Section State and Company of the Com	pe Clamps, Fipe Clips125				
Grease Lubrication System	Others	P. 129~P. 131				
	Air Operated Fill	ers129				
	Adjustable Autor	natic Lubricators130				
Manual Type CLHA, CLHA-25, CLHP-	50 Appendix	P. 132~P. 147				
Electric Type		cation Systems132				
Controlled by PLC KSC/P, KGA/P, KGC/P, KAC/P		ducts146				
Controlled by Timer KSB/P, KGN/P, KGNV		Maintenance Instructions,				
Pneumatic Type MAG		rms147				

CLA Resistance Type Oil | Manual Lubricator



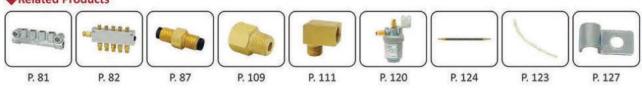
◆Features

- 1. The compact size of CLA makes the installation easy.
- 2. CLA discharges oil whenever its handle is pulled.
- The outlet of CLA can be on either the right side or the left side of the handle. A dual-outlet model is also available for selection.
- 4. CLA has a reverse stopper that prevents the back-flow of oil.
- 5. CLA can work with machines that do not require oil feeding at a particular time.

◆Technical Data & Dimensional Data

Model	Tank Capacity	Length (mm)	Width (mm)	Height (mm)	Mounting Hole Distance (mm)	Max. Discharge Volume	Max. Operating Pressure	Suitable Viscosity	Discharge Bore	Outlet Number	N.W. (kg)
									da	1	1.23
CIAC	350cc	112	137	188	85x85				Ø4	2	1.25
CLA-6	350CC	112	137	100	бэхбэ			Oil	de	1	1.24
						8cc/stroke	15	32-68	Ø6	2	1.27
						acc/stroke	kgf/cm²	cSt@40°C	Ø4	1	1.50
CLAO	C00	124	142	200	100-110			C316940 C	94	2	1.52
CLA-8	600cc	124	142	209	100x110				de	1	1.50
									Ø6	2	1.53

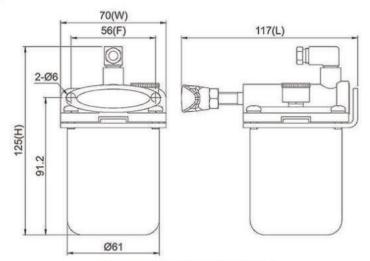
♦Order Code CLA-Discharge Bore Tank Capacity **Outlet Type Outlet Adapter** 350cc Left Outlet Straight Adapter Ø4 8 600cc **Right Outlet Elbow Adapter** Ø6 **Dual Outlets**



CTA Resistance Type Oil **Manual Lubricator**



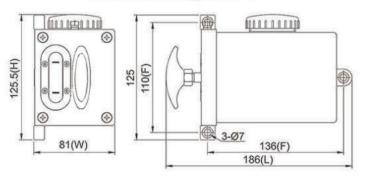
CTA-3-H-0



Dimensional Drawing of CTA-3-H-0



CTA-8-L-U-0 and CTA-8-R-U-0



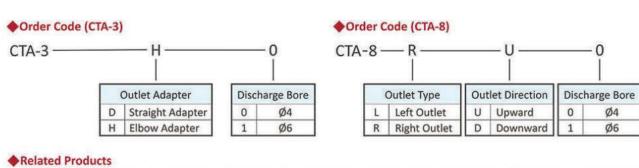
Dimensional Drawing of CTA-8-R-U-0

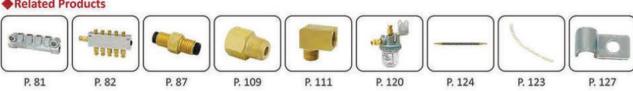
Features

- 1. CTA-3, the smallest manual lubricator, is suitable for the machine that has limited space.
- 2. The outlet of CTA-8 can be on either the right side or the left side of the mounting holes.
- 3. CTA discharges oil whenever its handle is pulled.
- 4. CTA has a reverse stopper that prevents the back-flow of oil.
- 5. CTA can work with machines that do not require oil feeding at a particular time.

◆Technical Data & Dimensional Data

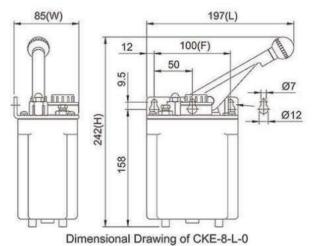
Model	Tank Capacity	Mounting Hole Distance (mm)	Length (mm)	Width (mm)	Height (mm)	Discharge Bore	Max. Discharge Volume	Max. Operating Pressure	Suitable Viscosity	N.W. (kg)
CTA 2	100	5.0	447	70	123.0	Ø4	2/		Oil	0.40
CTA-3	180cc	56	117	70	130.0	Ø6	3cc/stroke	3.5	Oil	0.49
CTA O	GEO.co	110,126	186	81	125.5	Ø4	Quality also	kgf/cm²	32-68	1.01
CTA-8	650cc	110x136	186	91	133.5	Ø6	8cc/stroke		cSt@40°C	1.01





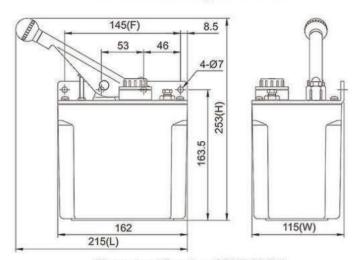
CKE Resistance Type Oil Manual Lubricator







CKE-20-R-0



Dimensional Drawing of CKE-20-R-0

Features

- 1. The compact size of CKE makes the installation easy.
- 2. CKE discharges oil whenever its handle is pushed down.
- 3. The outlet of CKE can be on either the right side or the left side of the handle.
- 4. CKE has a reverse stopper that prevents the back-flow of oil.
- 5. CKE can work with machines that do not require oil feeding at a particular time.

◆Technical Data & Dimensional Data

Model	Tank Capacity	Mounting Hole Distance (mm)	Length (mm)	Width (mm)	Height (mm)	Outlet Type	Max. Discharge Volume	Max. Operating Pressure	Suitable Viscosity	Discharge Bore	N.W. (kg)
CKE-8	1L	100	197	85	242	Left			Oil		1.33
CKE-8	1L	100	193	85	250	Right	8cc/stroke	5	Oil	Ø4	1.55
CKE-20	2L	145	215	115	253	Left Right	occ/stroke	kgf/cm²	32-68 cSt@40°C	Ø6	1.84

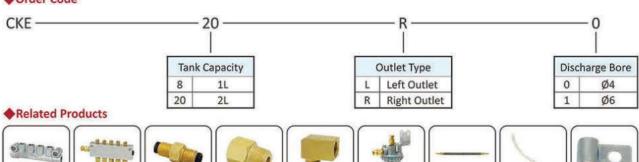
Order Code

P. 81

P. 82

P. 87

P. 109



P. 111

P. 120

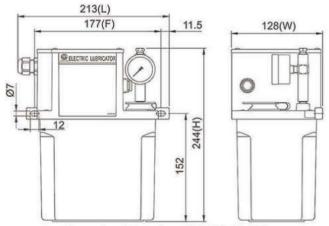
P. 124

P. 123

CEN01 Resistance Type Oil PLC Electric Lubricator





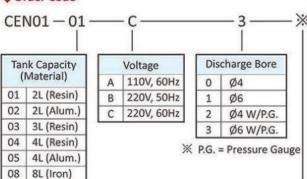


Dimensional Drawing of CEN01-01-C-3

Features

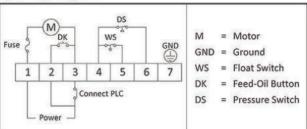
- 1. The operation and interval time of CEN01 are controlled by PLC.
- 2. CEN01 has a pressure gauge that enables the user to check the operating pressure easily.
- CEN01 has a 1kgf/cm² NC contact socket pressure switch that detects the operating pressure automatically and send signals when the pressure is below the preset value.
- 4. CEN01 has a NC contact float switch that detects the oil level automatically and sends signals when the oil level is low.
- CEN01 has a spark quencher that prevents the spark of switch contacts and the interference of surge voltage with the PLC and prolongs the service life.
- CEN01 has a feed-oil button, which can be used as manual oil feeding for less than 3 minutes to avoid overloading the motor.
- 7. CENO1 has a thermal control that shuts down the motor for about 5 minutes when the motor is overheated.

Order Code



	Special Request
В	Add a Buzzer
PO	NO Contact Pressure Switch
SO	NO Contact Float Switch
Z	Increase Discharge Volume to 260cc/min

♦Wiring Diagram



Dimensional Data

Tank Capacity	Tank Material	Length (mm)	Width (mm)	Height (mm)	Mounting Hole Distance (mm)	N.W. (kg)
2L	Resin	213	128	244	177	3.40
2L	Alum.	221	150	234	95x200	4.55
3L	Resin	227	167	248	205	3.85
4L	Resin	277	162	259	250	4.30
4L	Alum.	297	170	253	95x280	5.30
8L	Iron	355	201	270	95x338	7.95

◆Technical Data

Motor Power	30	0±3W			
Voltage	110V	220V			
Ampere	2A	1A			
Hertz	60Hz	50Hz, 60Hz			
Max. Discharge Volume	130cc/min, 260cc/min				
Max. Operating Pressure	15	kgf/cm²			
Discharge Bore	Ø4, Ø6				
Float Switch	NC Contact (NO	Contact on request)			
Pressure Switch	NC Contact (NO	Contact on request)			
Suitable Viscosity	Oil, 32-6	58 cSt@40°C			

◆Related Products



















P. 81

P. 82

P. 87

P. 109

P. 111

P. 120

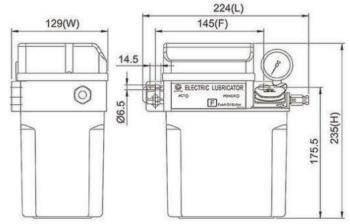
P. 124

P. 123

CESG01 Resistance Type Oil PLC Electric Lubricator





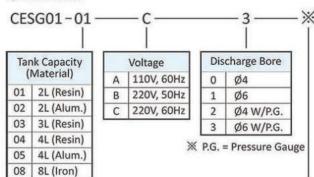


Dimensional Drawing of CESG01-01-C-3

♦Features

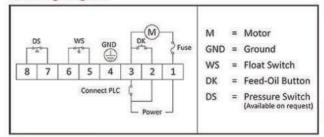
- 1. The operation and interval time of CESG01 are controlled by PLC.
- 2. CESG01 has a pressure gauge that enables the user to check the operating pressure easily.
- 3. CESG01 has a NC contact float switch that detects the oil level automatically and sends signals when the oil level is low.
- 4. CESG01 has a feed-oil button (F button), which can be used as manual oil feeding for less than 3 minutes to avoid overloading the motor.
- 5. CESG01 has a thermal control that shuts down the motor for about 5 minutes when the motor is overheated.
- 6. A 1kgf/cm2 socket pressure switch can be added to CESG01 on request to detect the operating pressure automatically.

Order Code



	Special Request
PC	Add a NC Contact Pressure Switch
PO	Add a NO Contact Pressure Switch
SO	NO Contact Float Switch
Z	Increase Discharge Volume to 260cc/min

♦Wiring Diagram



♦Dimensional Data

Tank Capacity	Tank Material	Length (mm)	Width (mm)	Height (mm)	Mounting Hole Distance (mm)	N.W. (kg)
2L	Resin	224	129	235	145	2.70
2L	Alum.	224	150	225	95x200	3.80
3L	Resin	227	167	239	205	3.15
4L	Resin	277	162	250	250	3.60
4L	Alum.	297	170	244	95x280	4.60
8L	Iron	355	201	261	95x338	7.25

◆Technical Data

Motor Power	2:	5±3W
Voltage	110V	220V
Ampere	1.8A	0.9A
Hertz	60Hz	50Hz, 60Hz
Max. Discharge Volume	130cc/min, 260cc/min	
Max. Operating Pressure	15	gf/cm²
Discharge Bore	Ø	4, Ø6
Float Switch	NC Contact (NO	Contact on request)
Pressure Switch	Optional (NO	or NO Contact)
Suitable Viscosity	Oil, 32-6	8 cSt@40°C

◆Related Products



P. 81



P. 82



P. 87



P. 109



P. 111









CEV Resistance Type Oil PLC Electric Lubricator



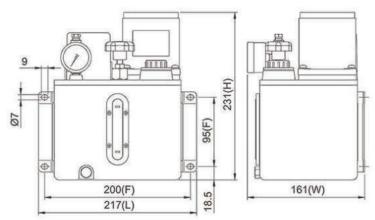




CEV-03-C-25-3

CEV-02-C-25-3

CEV-08-C-25-3-F-L-PC



Dimensional Drawing of CEV-02-C-25-3

◆Features

- 1. The operation and interval time of CEV are controlled by PLC.
- 2. CEV has a pressure gauge that enables the user to check the operating pressure easily.
- 3. CEV has a NC contact float switch that detects the oil level automatically and sends signals when the oil level is low.
- 4. CEV has a pressure-regulating valve that enables the user to adjust the operating pressure.
- 5. The gear pump of CEV is made of special aluminum alloy and assembled with the induction motor to provide stable output pressure, low operating noise, and long service life.
- 6. The CEV with 3L and above oil tank can be added with the following parts on request.
 - A 1kgf/cm² socket pressure switch that detects the operating pressure automatically.
 - · A feed-oil button can be used for manual oil feeding.
 - An indicator light that shows when CEV discharges oil.

Dimensional Data

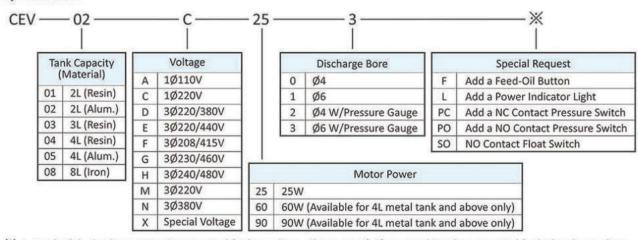
Motor Power	Tank Capacity	Tank Material	Length (mm)	Width (mm)	Height (mm)	Mounting Hole Distance (mm)	N.W. (kg)
	2L	Aluminum	217	161	231	95×200	5.50
	3L	Resin	230	165	241	205	4.65
25W	4L	Resin	275	159	252	250	5.00
	4L	Aluminum	297	170	251	95x280	5.85
	8L	Iron	355	201	271	95x338	9.00
COM	4L	Aluminum	297	175	311	95x280	7.45
60W	8L	Iron	355	201	331	95x338	10.20

CEV Resistance Type Oil PLC Electric Lubricator

◆Technical Data

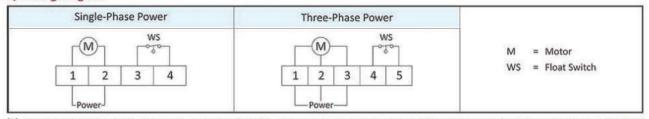
Motor Power		25W		60W			
Voltage	1Ø110V	1Ø220V	Three Phase	1Ø110V	1Ø220V	Three Phase	
Ampere	0.6A	0.3A	0.3A	1.2A	0.6A	0.6A	
Max. Discharge Volume		250cc/min			500cc/min		
Max. Operating Pressure		15kgf/cm ²			30kgf/cm ²		
Hertz			50/60Hz Co	mpatible			
Discharge Bore			Ø4,	Ø6			
Float Switch			NC Contact (NO Co	ntact on reques	st)		
Pressure Switch		Optional (NC or NO Contact)					
Suitable Viscosity			Oil, 32-68 d	St@40°C			

Order Code



- X A standard dual-voltage motor is connected for low voltage. Please specify if you need it to be connected for high voltage when placing an order.
- X Special request codes F, L, PC, and PO are only available for the CEV with 3L and above oil tanks.

Wiring Diagram



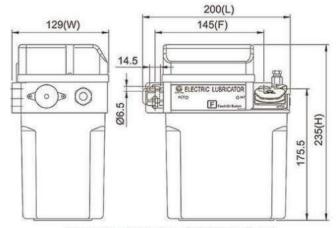
- 💥 For the CEV with a feed-oil button, an indicator light, and a pressure switch, please follow the particular wiring diagram on the CEV.
- * The motor shaft is marked with a red dot. When wiring the three-phase-voltage CEV, please note the motor should rotate anticlockwise. If the motor rotates clockwise, please switch the position of any two of the power wires and rewire them.



CESP Resistance Type Oil Timer Electric Lubricator



CESP-01-C-1-2

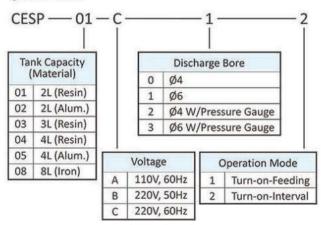


Dimensional Drawing of CESP-01-C-1-2

Features

- 1. The time adjusters are inside the control box of CESP. There are eight kinds of operation time and interval time for selection.
- 2. There are operation (ACT) and interval (INT) indicators on the control box.
- 3. There are two operation modes after the power of CESP is on. The standard mode is turn-on-interval.
 - · Turn-on-feeding: Operation time starts first after the power is on.
 - Turn-on-interval: Interval time starts first after the power is on.
- 4. Turn-on-interval model has a memory function. If the power is suddenly off during the interval time, CESP will continue to operate from the remaining interval time after restarting, which can effectively avoid over-lubrication.
- 5. CESP has a NC contact float switch that detects the oil level automatically and sends signals when the oil level is low.
- 6. CESP has a buzzer that sends an alarm sound when the oil level is low.
- CESP has a feed-oil button (F button), which can be used as manual oil feeding for less than 3 minutes to avoid overloading the motor.
- 8. CESP has a thermal control that shuts down the motor for about 5 minutes when the motor is overheated.

Order Code



Wiring Diagram

Por	wer	Ground	Abnormal Output			
POWER		GND(P.E)	COM NC(B) NO			
0	0	0	\oplus	0	0	

Dimensional Data

Tank Capacity	Tank Material	Length (mm)	Width (mm)	Height (mm)	Mounting Hole Distance (mm)	N.W. (kg)
2L	Resin	200	129	235	145	2.30
2L	Alum.	221	150	225	95x200	3.50
3L	Resin	227	167	239	205	2.80
4L	Resin	277	162	250	250	3.20
4L	Alum.	297	170	244	95x280	4.20
8L	Iron	355	201	261	95x338	6.85

▶Technical Data

Operation Time	2, 3, 5, 10, 15, 20, 25, 30 se	
Interval Time	3, 5, 10, 15, 20, 30, 60, 180 m	
Motor Power	20	D±3W
Voltage	110V	220V
Ampere	1.5A	1.0A
Hertz	60Hz	50Hz, 60Hz
Max. Discharge Volume	130	cc/min
Max. Operating Pressure	10k	gf/cm²
Discharge Bore	Ø4, Ø6	
Float Switch	NC Contact	
Suitable Viscosity	Oil, 32-6	8 cSt@40°C



















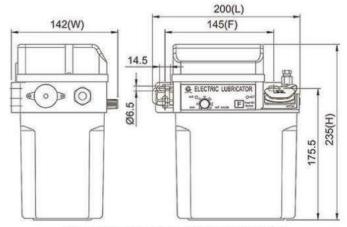
P. 123

P. 127

CESH Resistance Type Oil Timer Electric Lubricator





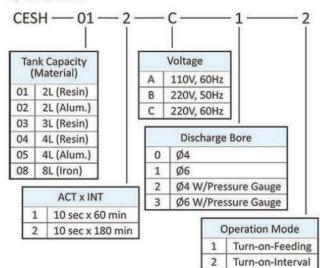


Dimensional Drawing of CESH-01-2-C-1-2

Features

- 1. The operation time of CESH is 10 seconds. Users can set the interval time by the time adjuster on the control box. There are operation (ACT) and interval (INT) indicators on the control box.
- 2. There are two operation modes after the power of CESH is on. The standard mode is turn-on-interval.
 - · Turn-on-feeding: Operation time starts first after the power is on.
 - · Turn-on-interval: Interval time starts first after the power is on.
- 3. Turn-on-interval model has a memory function. If the power is suddenly off during the interval time, CESH will continue to operate from the remaining interval time after restarting, which can effectively avoid over-lubrication.
- 4. CESH has a NC contact float switch that detects the oil level automatically and sends signals when the oil level is low.
- 5. CESH has a buzzer that sends an alarm sound when the oil level is low.
- 6. CESH has a feed-oil button (F button), which can be used as manual oil feeding for less than 3 minutes to avoid overloading the motor.
- 7. CESH has a thermal control that shuts down the motor for about 5 minutes when the motor is overheated.

Order Code



♦Wiring Diagram

Abnormal Output			Ground	Power	
NO(A)	NC(B)	COM	GND(P.E)	POWER	
\oplus	0	\oplus	0	(1)	A

Dimensional Data

Tank Capacity	Tank Material	Length (mm)	Width (mm)	Height (mm)	Mounting Hole Distance (mm)	N.W. (kg)
2L	Resin	200	142	235	145	2.30
2L	Alum.	221	153	225	95x200	3.50
3L	Resin	227	167	239	205	2.80
4L	Resin	277	162	250	250	3.20
4L	Alum.	297	170	244	95x280	4.20
8L	Iron	355	201	261	95x338	6.85

◆Technical Data

Operation Time	10 sec	
Interval Time	1-60 min, 1-180 min	
Motor Power	20±3W	
Voltage	110V	220V
Ampere	1.5A	1.0A
Hertz	60Hz	50Hz, 60Hz
Max. Discharge Volume	130	cc/min
Max. Operating Pressure	10k	gf/cm ²
Discharge Bore	Ø4, Ø6	
Float Switch	NC Contact	
Suitable Viscosity	Oil, 32-6	8 cSt@40°C

◆Related Products



P. 81



P. 82



P. 87









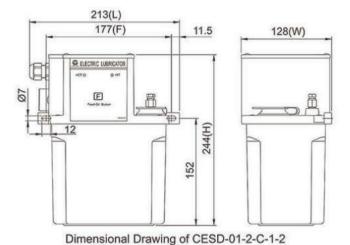




CESD Resistance Type Oil Timer Electric Lubricator



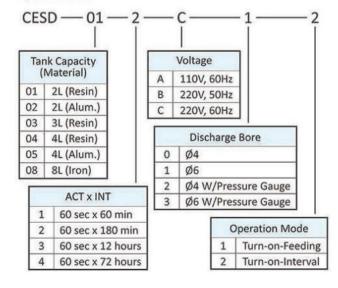
CESD-01-2-C-1-2



Features

- The operation and interval time adjusters are inside the control box of CESD. There are operation (ACT) and interval (INT) indicators on the control box.
- 2. There are two operation modes after the power of CESD is on. The standard mode is turn-on-interval.
 - · Turn-on-feeding: Operation time starts first after the power is on.
 - Turn-on-interval: Interval time starts first after the power is on.
- 3. Turn-on-interval model has a memory function. If the power is suddenly off during the interval time, CESD will continue to operate from the remaining interval time after restarting, which can effectively avoid over-lubrication.
- 4. CESD has a NC contact float switch that detects the oil level automatically and sends signals when the oil level is low.
- 5. CESD has a buzzer that sends an alarm sound when the oil is below the minimum level.
- CESD has a feed-oil button (F button), which can be used as manual oil feeding for less than 3 minutes to avoid overloading the motor.
- 7. CESD has a thermal control that shuts down the motor for about 5 minutes when the motor is overheated.

Order Code



Wiring Diagram

Abnormal Output			Ground	Power	
NO(A)	NC(B)	COM	GND(P.E)	P.E) POWE	
\oplus	\oplus	0	\oplus	\oplus	1

♦ Dimensional Data

Tank Capacity	Tank Material	Length (mm)	Width (mm)	Height (mm)	Mounting Hole Distance (mm)	N.W. (kg)
2L	Resin	213	128	244	177	3.00
2L	Alum.	221	150	234	95x200	4.15
3L	Resin	227	167	248	205	3.45
4L	Resin	277	162	259	250	3.90
4L	Alum.	297	170	253	95x280	4.90
8L	Iron	355	201	270	95x338	7.55

◆Technical Data

Operation Time	3-60 sec		
Interval Time	1-60min, 1-180min, 1-12hr, 1-72		
Motor Power	12±3W		
Voltage	110V	220V	
Ampere	1.5A	0.7A	
Hertz	60Hz	50Hz, 60Hz	
Max. Discharge Volume	130	cc/min	
Max. Operating Pressure	8k	gf/cm ²	
Discharge Bore	Ø4, Ø6		
Float Switch	NC Contact		
Suitable Viscosity	Oil, 32-68 cSt@40°C		



















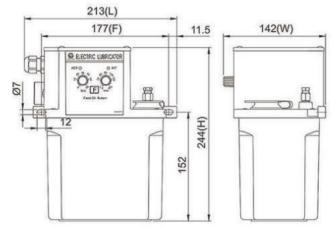
P. 124

P. 123 P. 127

CESW Resistance Type Oil Timer Electric Lubricator



CESW-01-2-C-1-2

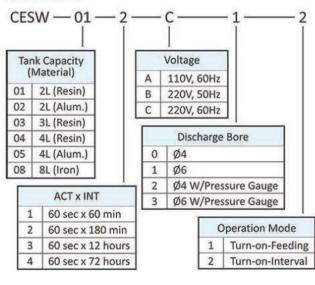


Dimensional Drawing of CESW-01-2-C-1-2

Features

- The operation and interval time adjusters are on the control box of CESW. There are operation (ACT) and interval (INT) indicators on the control box.
- 2. There are two operation modes after the power of CESW is on. The standard mode is turn-on-interval.
 - · Turn-on-feeding: Operation time starts first after the power is on.
 - Turn-on-interval: Interval time starts first after the power is on.
- 3. Turn-on-interval model has a memory function. If the power is suddenly off during the interval time, CESW will continue to operate from the remaining interval time after restarting, which can effectively avoid over-lubrication.
- 4. CESW has a NC contact float switch that detects the oil level automatically and sends signals when the oil level is low.
- 5. CESW has a buzzer that sends an alarm sound when the oil level is low.
- CESW has a feed-oil button (F button), which can be used as manual oil feeding for less than 3 minutes to avoid overloading the motor.
- 7. CESW has a thermal control that shuts down the motor for about 5 minutes when the motor is overheated.

♦Order Code



♦Wiring Diagram

Abnormal Output			Ground	Power		
NO(A)	NC(B)	COM	GND(P.E) PO		WER	
\oplus	0	\oplus	0	\oplus	0	

♦ Dimensional Data

Tank Capacity	Tank Material	Length (mm)	Width (mm)	Height (mm)	Mounting Hole Distance (mm)	N.W. (kg)
2L	Resin	213	142	244	177	3.00
2L	Alum.	221	156	234	95x200	4.15
3L	Resin	227	167	248	205	3.45
4L	Resin	277	162	259	250	3.90
4L	Alum.	297	173	253	95x280	4.90
8L	Iron	355	201	270	95x338	7.55

◆Technical Data

Operation Time	3-60 sec	
Interval Time	1-60min, 1-180min, 1-12hr, 1-7	
Motor Power	12	2±3W
Voltage	110V	220V
Ampere	1.5A	0.7A
Hertz	60Hz	50Hz, 60Hz
Max. Discharge Volume	130	cc/min
Max. Operating Pressure	8kg	gf/cm ²
Discharge Bore	Ø4, Ø6	
Float Switch	NC Contact	
Suitable Viscosity	Oil, 32-6	8 cSt@40°C

◆Related Products



P. 81



P. 82



P. 87



P. 109





P. 120



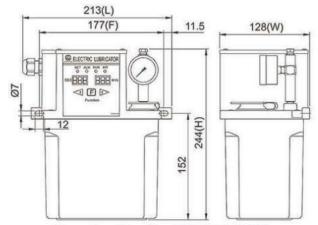




CEN02 Resistance Type Oil Timer Electric Lubricator



CEN02-01-2-C-3

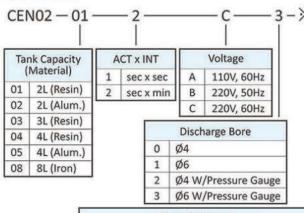


Dimensional Drawing of CEN02-01-2-C-3

Features

- CEN02 has a timer that controls its operation and interval time. The control box has a built-in buzzer that sends an alarm sound when the oil level is low. The control box also has four indicators, operation (ACT), alarm (ALM), immediate lubrication (RUN), and interval (INT).
- 2. CEN02 can memorize the set value of operation time and interval time.
- 3. There are two operation modes after the power of CEN02 is on. The standard mode is turn-on-feeding.
 - Turn-on-feeding: Operation time starts first after the power is on.
 - Turn-on-interval: Interval time starts first after the power is on.
- Turn-on-interval model has a memory function. If the power is suddenly off during the interval time, CENO2 will continue
 to operate from the remaining interval time after restarting, which can effectively avoid over-lubrication.
- 5. CENO2 has a pressure gauge that enables the user to check the operating pressure easily.
- 6. CENO2 has a NC contact float switch that detects the oil level automatically and sends signals when the oil level is low.
- 7. CENO2 has a feed-oil button (F button), which can be used as manual oil feeding for less than 3 minutes to avoid overloading the motor.
- 8. CEN02 has a thermal control that shuts down the motor for about 5 minutes when the motor is overheated.
- 9. A 1kgf/cm2 socket pressure switch can be added to CENO2 on request to detect the operating pressure automatically.

♦Order Code



	Special Request
2	Turn-on-Interval Operation Mode
В	Add a Larger Buzzer
PC	Add a NC Contact Pressure Switch
Z	Increase Discharge Volume to 260cc/min

♦Wiring Diagram

AŁ	onormal Outp	out	Ground	Pov	ver
NO(A)	NC(B)	COM	GND(P.E)	POV	VER
Φ	Φ	Ф	Φ	0	a
(1)	(1)	(1)		(1)	

Dimensional Data

Tank Capacity	Tank Material	Length (mm)	Width (mm)	Height (mm)	Mounting Hole Distance (mm)	N.W. (kg)
2L	Resin	213	128	244	177	3.45
2L	Alum.	221	150	234	95x200	4.60
3L	Resin	227	167	248	205	3.90
4L	Resin	277	162	259	250	4.35
4L	Alum.	297	170	253	95x280	5.35
8L	Iron	355	201	270	95x338	8.00

◆Technical Data

Operation Time	1-9	999 sec
Interval Time	1-999 se	c, 1-999 min
Motor Power	30	0±3W
Voltage	110V	220V
Ampere	2A	1A
Hertz	60Hz	50Hz, 60Hz
Max. Discharge Volume	130cc/mi	n, 260cc/min
Max. Operating Pressure	15k	cgf/cm ²
Discharge Bore	Ø	4, Ø6
Float Switch	NC	Contact
Pressure Switch	Optional	(NC Contact)
Suitable Viscosity	Oil, 32-6	8 cSt@40°C



















119

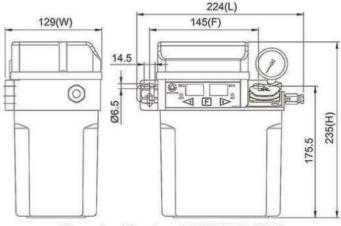
P. 120

P. 124

P. 127

CESG02 Resistance Type Oil Timer Electric Lubricator





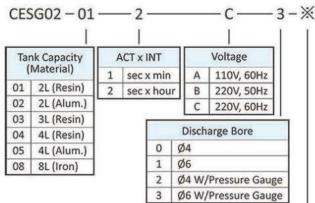
CESG02-01-2-C-3

Dimensional Drawing of CESG02-01-2-C-3

Features

- 1. CESG02 has a timer that controls its operation and interval time. The control box has a built-in buzzer that sends an alarm sound when the oil level is low. The control box also has two indicators, operation (ACT), and interval (INT).
- 2. CESG02 can memorize the set value of operation time and interval time.
- 3. There are two operation modes after the power of CESG02 is on. The standard mode is turn-on-feeding.
 - Turn-on-feeding: Operation time starts first after the power is on.
 - Turn-on-interval: Interval time starts first after the power is on.
- 4. Turn-on-interval model has a memory function. If the power is suddenly off during the interval time, CESG02 will continue to operate from the remaining interval time after restarting, which can effectively avoid over-lubrication.
- 5. CESG02 has a pressure gauge that enables the user to check the operating pressure easily.
- 6. CESG02 has a NC contact float switch that detects the oil level automatically and sends signals when the oil level is low.
- CESG02 has a feed-oil button (F button), which can be used as manual oil feeding for less than 3 minutes to avoid overloading the motor.
- 8. CESG02 has a thermal control that shuts down the motor for about 5 minutes when the motor is overheated.
- 9. A 1kgf/cm² socket pressure switch can be added to CESG02 on request to detect the operating pressure automatically.

♦Order Code



	Special Request
2	Turn-on-Interval Operation Mode
В	Add a Larger Buzzer
PC	Add a NC Contact Pressure Switch
Z	Increase Discharge Volume to 260cc/min

♦Wiring Diagram

AŁ	onormal Outp	ut	Ground	Pov	wer
NO(A)	NC(B)	COM	GND(P.E)	PO	NER
\oplus	0	\oplus	0	0	A

♦ Dimensional Data

Tank Capacity	Tank Material	Length (mm)	Width (mm)	Height (mm)	Hole Distance (mm)	N.W. (kg)
2L	Resin	224	129	235	145	2.80
2L	Alum.	224	150	225	95x200	3.90
3L	Resin	227	167	239	205	3.25
4L	Resin	277	162	250	250	3.70
4L	Alum.	297	170	244	95x280	4.70
8L	Iron	355	201	261	95x338	7.35

◆Technical Data

Operation Time	1-9	99 sec
Interval Time	1-999 mir	n, 1-999 hour
Motor Power	25	5±3W
Voltage	110V	220V
Ampere	1.8A	0.9A
Hertz	60Hz	50Hz, 60Hz
Max. Discharge Volume	130cc/mi	n, 260cc/min
Max. Operating Pressure	15k	gf/cm ²
Discharge Bore	Ø	4, Ø6
Float Switch	NC	Contact
Pressure Switch	Optional	(NC Contact)
Suitable Viscosity	Oil, 32-6	8 cSt@40°C

◆Related Products



P. 81



P. 82



P. 87



P. 109







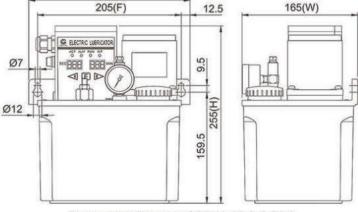
P. 120





CENA Resistance Type Oil Timer Electric Lubricator





230(L)

CENA-03-2-C-25-3

Dimensional Drawing of CENA-03-2-C-25-3

Features

- 1. CENA has a timer that controls its operation and interval time. The control box has a built-in buzzer that sends an alarm sound when the oil level is low. The control box also has four indicators, operation (ACT), alarm (ALM), immediate lubrication (RUN), and interval (INT).
- 2. CENA can memorize the set value of operation time and interval time.
- 3. CENA has a pressure gauge that enables the user to check the operating pressure easily.
- 4. CENA has a NC contact float switch that detects the oil level automatically and sends signals when the oil level is low.
- 5. CENA has a pressure-regulating valve that enables the user to adjust the operating pressure.
- 6. CENA has a feed-oil button (F button), which can be used as manual oil feeding for less than 3 minutes to avoid overloading the motor.
- 7. CENA with 3L above tank can add a 1kgf/cm² socket pressure switch to detect the operating pressure automatically, which sends signals when the pressure is below the preset value.
- 8. The gear pump of CENA is made of special aluminum alloy and assembled with the induction motor to provide stable output pressure, low operating noise, and long service life. It meets the requirements of most large machines.

Dimensional Data

Motor Power	Tank Capacity	Tank Material	Length (mm)	Width (mm)	Height (mm)	Mounting Hole Distance (mm)	N.W. (kg)
	2L	Aluminum	222	150	245	95x200	5.70
	3L	Resin	230	165	255	205	4.80
25W	4L	Resin	277	162	266	250	5.20
	4L	Aluminum	297	170	264	95x280	6.65
	8L	Iron	355	201	285	95x338	9.40
COLL	4L	Aluminum	297	170	311	95x280	7.70
60W	8L	Iron	355	201	331	95x338	10.45

Wiring Diagram

A	bnormal Outp	ut	Ground	Pov	ver
NO(A)	NC(B)	COM	GND(P.E)	POV	VER
\oplus	0	\oplus	0	0	\oplus

Technical Data

Operation Time		1-99	9 sec	
Interval Time	1	-999 sec,	1-999 mi	n
Motor Power	25	W	60	W
Voltage	110V	220V	110V	220V
Ampere	0.6A	0.3A	1.2A	0.6A
Max. Discharge Volume	250c	c/min	500c	c/min
Max. Operating Pressure	15kgf/cm ² 30kgf		gf/cm ²	
Hertz	5	60/60Hz C	ompatibl	e
Discharge Bore		Ø4,	Ø6	
Float Switch		NC Co	ontact	
Pressure Switch	0	ptional (N	NC Contac	t)
Suitable Viscosity	(Oil, 32-68	cSt@40°	С

NO(A)	NC(B)	COM	GND(P.E)	POV	WER
\oplus	\oplus	\oplus	0	\oplus	0

CENA — - 03 25 **Tank Capacity** ACT x INT Motor Discharge Bore Special Request (Material) Power 0 Ø4 Add a Larger Buzzer sec x sec 2L (Alum.) 25 25W sec x min Add a NC Contact Pressure Switch 3L (Resin) 60 60W Ø4 W/Pressure Gauge 2 (Available for 3L and above tanks 04 4L (Resin) Voltage 90 90W Ø6 W/Pressure Gauge only) 4L (Alum.) 110V

8L (Iron) Related Products





P. 82



220V







X 60W and 90W motors are only available for CENA with a 4L metal tank and above.







P. 120

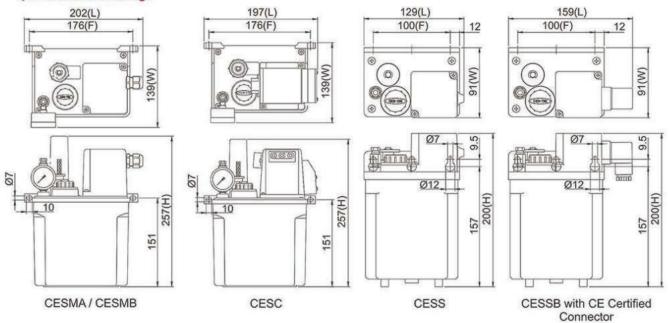
P. 124

P. 127

CESMA/B, CESC, CESS (B) Interval Time Fixed Resistance Type Oil Electric Lubricator



Dimensional Drawings



Features

- The interval time of CES series lubricators is controlled by the rotational speed of the small synchronous motor that no external controllers or timers are needed.
- 2. The discharge volume of CES series lubricators is adjustable.
- 3. CESMB and CESSB have NO contact float switches that detect the oil levels automatically and send signals when the oil levels are high.
- 4. CESC have a NC contact float switch that detects the oil level automatically and sends signals when the oil level is low.
- 5. The control box of CESC has three indicators that show power, action, and alarm.
- 6. A power indicator can be added to CESMA and CESMB on request to show when the power is on.
- 7. A CE certified connector can be added to CESSB on request to change the wiring method from external to internal.

♦Dimensional and Equipment Data

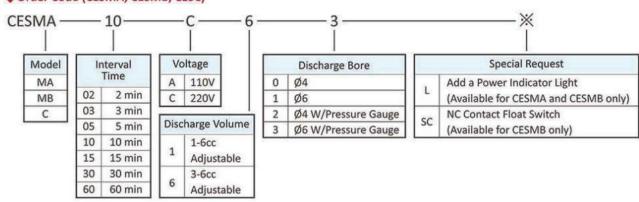
Model	Tank Capacity	Length (mm)	Width (mm)	Height (mm)	Mounting Hole Distance (mm)	N.W. (kg)	Float Switch	Buzzer	Pressure Gauge	Control Box	Indicator Light	Wiring Method
CESMA		202	139	257	176	1.84	X	X	0	X	Optional	Internal
CESMB	2L	202	139	257	176	1.86	0	X	0	Х	Optional	Internal
CESC		197	139	257	176	1.96	0	0	0	0	0	External
CESS	1L	129	91	200	100	1.28	Х	X	X	X	X	External
CESSB	11	159	91	200	100	1.30	0	X	X	X	X	External

CESMA/B, CESC, CESS (B) Interval Time Fixed Resistance Type Oil Electric Lubricator

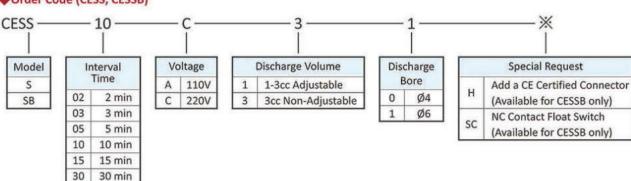
◆Technical Data

Interval Time	2, 3, 5, 10, 15, 30, 60 min (Non-Adjustable) (2 min is not available for CESC.)				
Motor Power		W			
Voltage	110V	220V			
Ampere	0.10A	0.05A			
Hertz	50/60Hz Compatible				
Max. Discharge Volume	CESMA, CESMB, CESC: 3-6cc Adjustable or 1-6cc Adjustable				
CONTRACTOR CONTRACTOR	CESS, CESSB: 3cc Non-Adju	ustable or 1-3cc Adjustable			
Max. Operating Pressure	3kgf	/cm²			
Discharge Bore	Ø4,	, Ø6			
	CESMB : NO Contact (I	NC Contact on request)			
Float Switch	CESC : N	C Contact			
	CESSB : NO Contact (N	IC Contact on request)			
Suitable Viscosity	Oil, 32-68	cSt@40°C			

◆Order Code (CESMA, CESMB, CESC)



Order Code (CESS, CESSB)

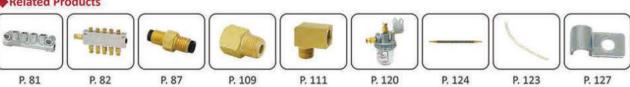


Wiring Diagram

60

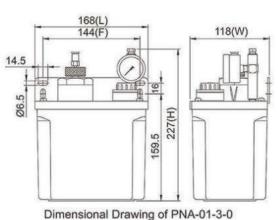
60 min

CESMA	CESMB	CESC	CESSB with CE Certified Connector	
M D D D	ws B Power	WS Power	WS WS WS WS WS WS WS WS	M = Motor WS = Float Switch



PNA Resistance Type Pneumatic Lubricator





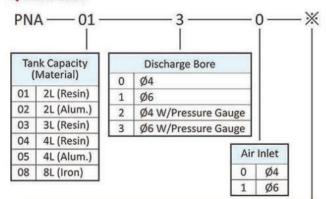


PNA-04-3-0-C-D

Features

- PNA is actuated pneumatically by a solenoid valve to discharge oil intermittently. The pneumatic pressure supply controls
 the output pressure of PNA.
- PNA requires 4-8 kgf/cm² pneumatic pressure supply and 5 seconds above ON/OFF time of the solenoid valve to work functionally.
- 3. PNA has a pressure gauge that enables the user to check the operating pressure easily.
- 4. PNA has a NC contact float switch that detects the oil level automatically and sends signals when the oil level is low.
- 5. PNA has an oil volume adjuster that enables the user to adjust the discharge volume upon the demand.
- 6. A 1kgf/cm2 socket pressure switch can be added to PNA on request to detect the operating pressure automatically.
- A magnetic filter and a partition can be added to PNA on request to filter the oil that returns to the oil tank through the cyclic inlet.
 - 3L oil tank and above can add a magnetic filter.
 - 3L, 4L resin oil tanks, and 8L iron oil tanks can add a partition.

Order Code



	Special Request
С	Add a Magnetic Filter (Available for 3L and above tanks only)
D	Add a Partition (Available for 3L, 4L resin tanks, and 8L iron tanks only)
PC	Add a NC Contact Pressure Switch
PO	Add a NO Contact Pressure Switch
so	NO Contact Float Switch

Dimensional Data

Tank Capacity	Tank Material	Length (mm)	Width (mm)	Height (mm)	Mounting Hole Distance (mm)	N.W. (kg)
2L	Resin	168	118	227	144	2.35
2L	Alum.	217	150	212	95x200	3.15
3L	Resin	231	166	222	205	2.94
4L	Resin	277	160	236	250	2.76
4L	Alum.	297	170	232	95x280	4.22
8L	Iron	355	201	232	95x338	7.32

♦Technical Data

Pneumatic Pressure (kgf/cm²)	4	5	6	7	8
Operating Pressure (kgf/cm²)	14	18	23	28	33
Discharge Volume	0-8	cc/str	oke (A	djusta	ble)
Air Inlet	Ø4,	Ø6 (Ir	ner T	hread	M5)
Discharge Bore	Ø4, Ø6				
Float Switch	(NO		Cont act or	act requ	est)
Pressure Switch			ption NO C	al ontact	:)
Suitable Viscosity	0	il, 10-	220 cs	t@40	°C

◆Related Products



P. 81



P. 82









P. 120



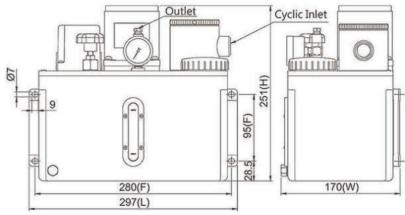


P. 123



CEH Circulating Type Oil PLC Electric Lubricator





CEH-05-C-25-3-A

Dimensional Drawing of CEH-05-C-25-3-A

♦Features

- 1. CEH has a cyclic inlet that allows the oil to return to the oil tank, which saves the oil consumption.
- 2. CEH has a magnetic filter inside the cyclic inlet that prevents iron filings from entering the oil tank to maintain the cleanness of the circulating oil.
- 3. The operation and interval time of CEH are controlled by PLC. CEH also can operate continuously without interval time.
- 4. The gear pump of CEH is made of special aluminum alloy and assembled with the induction motor to provide stable output pressure, low operating noise, and long service life.
- 5. CEH has a pressure-regulating valve that enables the user to adjust the operating pressure.
- 6. CEH has a NC float switch that detects the oil level automatically and sends signals when the oil is level is low.
- 7. After installing CEH and connecting all oil pipes, let CEH continue running until oil fulfills all oil pipes. The lubricator is ready to use when the oil flows out to remove the air bubbles.

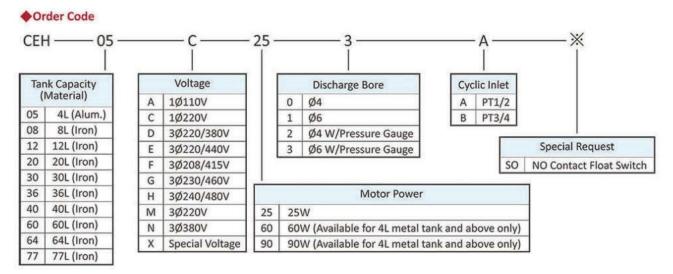
Dimensional Data

Motor Power	Tank Capacity	Tank Material	Length (mm)	Width (mm)	Height (mm)	Mounting Hole Distance (mm)	N.W. (kg)
	4L	Aluminum	297	170	251	95x280	6.85
25W	8L	Iron	355	201	271	95x338	9.85
	12L	Iron	495	225	251	95x478	12.60
COM	8L	Iron	355	201	331	95x338	11.35
60W	12L	Iron	495	225	311	95x478	13.65

◆Technical Data

Motor Power		25W			60W		
Voltage	1Ø110V	1Ø220V	Three Phase	1Ø110V	1Ø220V	Three Phase	
Ampere	0.6A	0.3A	0.3A	1.2A	0.6A	0.6A	
Max. Discharge Volume		250cc/min		500cc/min			
Max. Operating Pressure	15kgf/cm ² 30kgf/cm ²						
Hertz			50/60Hz Co	mpatible			
Discharge Bore			Ø4,	Ø6			
Cyclic Inlet			PT1/2,	PT3/4			
Float Switch		NC Contact (NO Contact on request)					
Suitable Viscosity		Oil, 32-68 cSt@40°C					

CEH Circulating Type Oil PLC Electric Lubricator



X A standard dual-voltage motor is connected for low voltage. Please specify if you need it to be connected for high voltage when placing an order.

♦Wiring Diagram

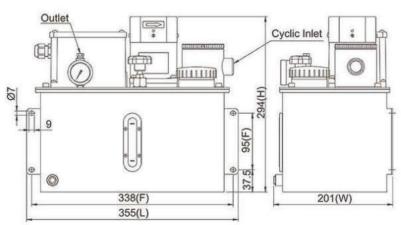
Single-Phase Power	Three-Phase Power	
1 2 3 4	1 2 3 4 5	M = Motor WS = Float Switch

X The motor shaft is marked with a red dot. When wiring the three-phase-voltage CEH, please note the motor should rotate anticlockwise. If the motor rotates clockwise, please switch the position of any two of the power wires and rewire them.



CEU Circulating Type Oil PLC Electric Lubricator





CEU-08-C-25-3-A

Dimensional Drawing of CEU-08-C-25-3-A

♦Features

- 1. CEU has a cyclic inlet that allows the oil to return to the oil tank, which saves the oil consumption.
- CEU has a magnetic filter inside the cyclic inlet that prevents iron filings from entering the oil tank to maintain the cleanness of the circulating oil.
- 3. The operation and interval time of CEU are controlled by PLC. CEU also can operate continuously without interval time.
- 4. The gear pump of CEU is made of special aluminum alloy and assembled with the induction motor to provide stable output pressure, low operating noise, and long service life.
- 5. The induction motor has a fan that reduces the temperature and prolongs the service life of CEU.
- 6. CEU has a pressure-regulating valve that enables the user to adjust the operating pressure.
- 7. CEU has a NC contact float switch that detects the oil level automatically and sends signals when the oil level is low.
- 8. CEU has a 1kgf/cm² socket pressure switch that detects the operating pressure automatically.
- After installing CEU and connecting all oil pipes, let CEU continue running until oil fulfills all oil pipes. The lubricator is ready to use when the oil flows out to remove the air bubbles.

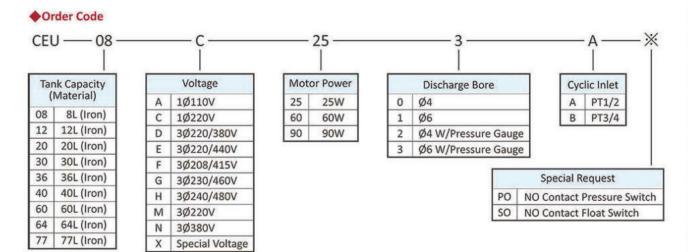
♦ Dimensional Data

Motor Power	Tank Capacity	Tank Material	Length (mm)	Width (mm)	Height (mm)	Mounting Hole Distance (mm)	N.W. (kg)
	8L	Iron	355	201	294	95x338	12.25
25W	20L	Iron	446	267	399	410x200	17.80
	64L	Iron	560	480	534	450x300	43.00
	8L	Iron	355	201	331	95x338	12.15
60W	20L	Iron	446	267	436	410x200	18.90
585.555	64L	Iron	560	480	571	450x300	44.05

◆Technical Data

Motor Power		25W			60W	
Voltage	1Ø110V	1Ø220V	Three Phase	1Ø110V	1Ø220V	Three Phase
Ampere	0.6A	0.3A	0.3A	1.2A	0.6A	0.6A
Max. Discharge Volume		250cc/min			500cc/min	
Max. Operating Pressure	15kgf/cm ² 30kgf/cm ²					
Hertz	50/60Hz Compatible					
Discharge Bore			Ø4,	Ø6		
Cyclic Inlet			PT1/2,	PT3/4		
Float Switch		NC Contact (NO Contact on request)				
Pressure Switch		Optional (NC or NO Contact)				
Suitable Viscosity			Oil, 32-68	St@40°C		

CEU Circulating Type Oil PLC Electric Lubricator



A standard dual-voltage motor is connected for low voltage. Please specify if you need it to be connected for high voltage when placing an order.

Wiring Diagram

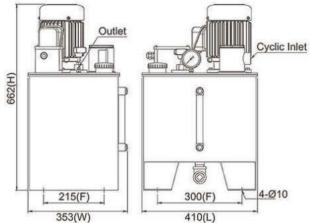


X The motor shaft is marked with a red dot. When wiring the three-phase-voltage CEU, please note the motor should rotate anticlockwise. If the motor rotates clockwise, please switch the position of any two of the power wires and rewire them.



CLS Circulating Type Oil Electric Lubricator





Features

CLS-10-36-D-2-3-C

Dimensional Drawing of CLS-10-36-D-2-3-C

- 1. CLS has a cyclic inlet that allows the oil to return to the oil tank, which saves the oil consumption.
- 2. CLS has a magnetic filter inside the cyclic inlet that prevents iron filings from entering the oil tank to maintain the cleanness of the circulating oil.
- 3. The operation and interval time of CLS are controlled by PLC. CLS also can operate continuously without interval time.
- 4. The gear pump of CLS is made of special aluminum alloy and assembled with the 1/2HP or 1HP motor to provide stable output pressure, low operating noise, and long service life.
- 5. CLS has a pressure-regulating valve that enables the user to adjust the operating pressure.
- 6. CLS has a NC contact float switch that detects the oil level automatically and sends signals when the oil level is low.
- 7. CLS has a 1kgf/cm2 socket pressure switch that detects the operating pressure automatically.
- 8. After installing CLS and connecting all oil pipes, let CLS continue running until oil fulfills all oil pipes. The lubricator is ready to use when the oil flows out to remove the air bubbles.

Dimensional Data

Model	Tank Capacity	Tank Material	Length (mm)	Width (mm)	Height (mm)	Mounting Hole Distance (mm)	N.W. (kg)
CLS-10	36L	Iron	410	353	662	300x215	46.3
CLS-30	64L	Iron	560	480	662	450x300	52.5
CLS-50	77L	Iron	610	480	692	500x300	75.5

Technical Data

Motor Power (Number of Poles)		1/2HP, 1HP (4P)				
Voltage	1	Ø110V, 1Ø220V, Three Phas	se			
Max. Discharge Volume	CLS-10: 1.5 L/min CLS-30: 3.0 L/min					
Max. Operating Pressure	15kgf/cm ²					
Discharge Bore	Ø4, Ø6					
Cyclic Inlet		PT3/4, PT1				
Float Switch	NC Contact (NO Contact on request)					
Pressure Switch	NC Contact (NO Contact on request)					
Suitable Viscosity		Oil, 32-100 cSt@40°C				

Order Code

5-10-30-			P	D 55m	1		3			ĭ		
	ischarge		k Capacity		Voltage	Motor Power		D	ischarge Bo	ore (PT1/4)	Cyclic Inlet	
1	Volume	(1	Material)	Α	1Ø110V	2	1/2HP	2	Ø4 W/Pre	essure Gauge	В	PT3/4
10	1.5 L/min	30	30L (Iron)	С	1Ø220V	4	1HP	3	Ø6 W/Pre	V/Pressure Gauge		PT1
30	3.0 L/min	36	36L (Iron)	D	3Ø220/380V	1 —					_	V.
50	4.5 L/min	40	40L (Iron)	E	3Ø220/440V	1				Special F	Reque	st
		60	60L (Iron)	F	3Ø208/415V	1			PO	NO Contact	Press	ure Swite
		64	64L (Iron)	G	3Ø230/460V	1			SO	NO Contact	Float	Switch
77 77L (Ir		77L (Iron)	Н	3Ø240/480V	*	A standard	dual-	voltage mo	tor is connecte	d for	low volta	
			100L (Iron)	M	3Ø220V				and the same of th	to be connect		
	100 100L (Iron) 130 130L (Iron)		130L (Iron)	N	3Ø380V	-	when placi	Olcows to to	· Comment of the comm			

Related Products





P. 82

204



204L (Iron)



Special Voltage











P. 84

P. 109

150 150L (Iron)

P. 111

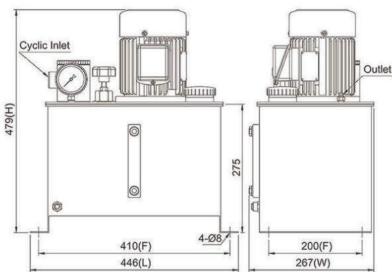
P. 121

P. 124

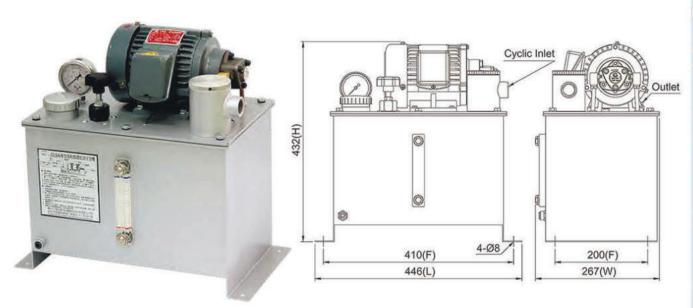
CLSA / CLSB Circulating Type Oil PLC Electric Lubricator







Dimensional Drawing of CLSA-20-10-D-1-3-B



CLSB-20-10-D-1-3-B

Dimensional Drawing of CLSB-20-10-D-1-3-B

◆Features

- 1. CLSA has a vertical 1/4HP cast iron frame motor, and CLSB has a horizontal one.
- 2. CLSA and CLSB have cyclic inlets that allow oil to return to the oil tank to save the oil consumption.
- 3. CLSA and CLSB have magnetic filters inside the cyclic inlets that prevent iron filings from entering the oil tank to maintain the cleanness of the circulating oil.
- The operation and interval time of CLSA and CLSB are controlled by PLC. Both CLSA and CLSB also can operate continuously without interval time.
- 5. The rotary oil pumps of CLSA and CLSB are made of special aluminum alloy and assembled with the 1/4HP motor to provide stable output pressure, low operating noise, and long service life.
- 6. CLSA and CLSB have pressure-regulating valves that enable the user to adjust the operating pressure.
- CLSA and CLSB have NC contact float switches that detect the oil level automatically and send signals when the oil level is low.
- 8. After installing the lubricator and connecting all oil pipes, let the lubricator continue running until oil fulfills all oil pipes. The lubricator is ready to use when the oil flows out to remove the air bubbles.

CLSA / CLSB Circulating Type Oil PLC Electric Lubricator

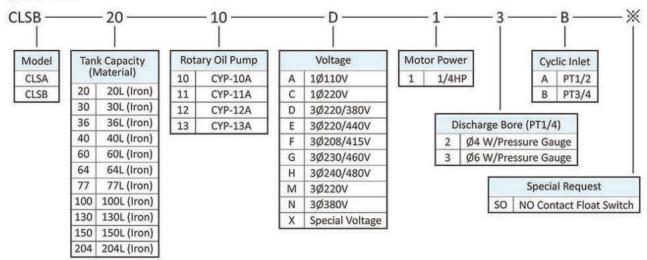
♦ Dimensional Data

Model	Tank Capacity	Tank Material	Length (mm)	Width (mm)	Height (mm)	Mounting Hole Distance (mm)	N.W. (kg)
	20L	Iron	446	267	479	410x200	26.7
CLSA	36L	Iron	410	353	614	300x215	38.8
	64L	Iron	560	480	614	450x300	52.2
	20L	Iron	446	267	432	410x200	26.7
CLSB	36L	Iron	410	353	567	300x215	38.8
	64L	Iron	560	480	567	450x300	52.2

◆Technical Data

Motor Power (Number of Poles)		1/4H	P (4P)				
Voltage		1Ø110V, 1Ø220	OV, Three Phase	127			
Rotary Oil Pump	CYP-10A	CYP-11A	CYP-12A	CYP-13A			
Max. Discharge Volume	1.1-1.4 L/min	2.2-2.7 L/min	3.7-4.5 L/min	6.5-7.9 L/min			
Max. Operating Pressure	5kgf/cm ²						
Discharge Bore		Ø4,	, Ø6				
Cyclic Inlet		PT1/2,	PT3/4				
Float Switch	NC Contact (NO Contact on request)						
Suitable Viscosity	Oil, 32-68 cSt@40°C						

Order Code



X A standard dual-voltage motor is connected for low voltage. Please specify if you need it to be connected for high voltage when placing an order.



CLSS Small-Size Circulating Type Oil PLC Electric Lubricator with Cooler



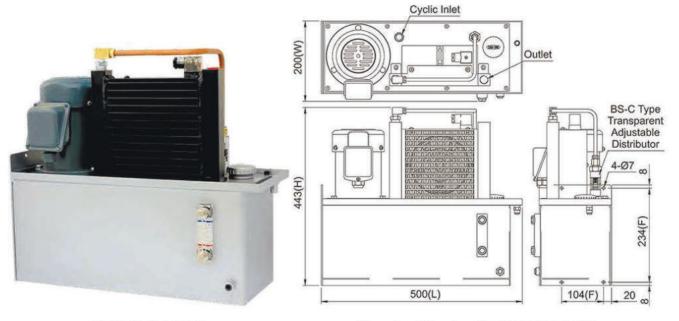
BS-C Type Transparent
Adjustable Distributor

501(L)

86.5(F) 36
140(W)

CLSS-08-M-90-A-A

Dimensional Drawing of CLSS-08-M-90-A-A



CLSS-14-13-1-D-A-A

Dimensional Drawing of CLSS-14-13-1-D-A-A

Features

- CLSS is a small-size circulating lubricator with a cooler that is suitable for the machine with limited space. There are two
 models available, CLSS-08 with an 8-liter oil tank and CLSS-14 with a 14-liter tank.
- 2. The operation and interval time of CLSS are controlled by PLC. Both CLSS-08 and CLSS-14 also can operate continuously without interval time.
- 3. CLSS has a highly efficient air cooler that reduces the oil temperature to room temperature plus 10°C.
- 4. CLSS has a cyclic inlet that allows the oil to return to the oil tank, which saves the oil consumption.
- CLSS has a BS-C transparent distributor that enables the user to check if the oil flows into the cooler normally. A reed switch can be added to BS-C on request to detect the oil flow automatically.
- 6. CLSS-08 has a gear pump and a 90W induction motor. The discharge volume is 1.8L/min.
- 7. CLSS-14 has a rotary oil pump and a 1/4HP steel plate frame vertical motor with a connector. According to the discharge volume of the rotary oil pump, four types of choices are available upon request.
- 8. Please install CLSS in a clean and well-ventilated place. Please reserve space at least half of the fan diameter of the air cooler at its air inlet and outlet to allow the air to flow through smoothly.
- 9. Please clean the air cooler regularly to prevent the buildup of dust on its surface that affects the performance it.
- 10. After installing CLSS and connecting all oil pipes, let CLSS continue running until oil fulfills all oil pipes. The lubricator is ready to use when the oil flows out to remove the air bubbles.

CLSS Small-Size Circulating Type Oil PLC Electric Lubricator with Cooler

Dimensional Data

Model	Tank Capacity	Tank Material	Length (mm)	Width (mm)	Height (mm)	Mounting Hole Distance (mm)	N.W. (kg)
CLSS-08	8L	Iron	501	140	381	153x86.5	14.9
CLSS-14	14L	Iron	500	200	443	234×104.0	24.0

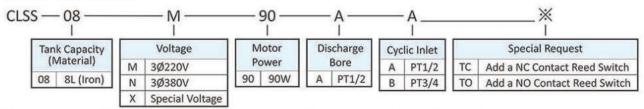
◆Technical Data (CLSS Lubricator)

Model	CLS	S-08		CLS	S-14				
Type of Motor	90W Induc	tion Motor	1/4HP Steel Plate Frame Vertical Motor with a Connector						
Number of Poles		- 4P							
Voltage	3Ø220V	3Ø380V	1Ø110V, 1Ø220V, Three Phase						
Ampere	0.6A	0.3A							
Hertz	50/60Hz C	Compatible							
Rotary Oil Pump		•	CYP-10A	CYP-11A	CYP-12A	CYP-13A			
Max. Discharge Volume	1.8 L	/min	1.1-1.4 L/min	2.2-2.7 L/min	3.7-4.5 L/min	6.5-7.9 L/min			
Max. Operating Pressure	5kgf	/cm²		5kgf	/cm²				
Discharge Bore	PT:	1/2		PT	1/2				
Cyclic Inlet	PT1/2,	PT3/4		PT1/2	PT3/4				
Reed Switch	Optional (NC	or NO Contact)	Optional (NC or NO Contact)						
Suitable Viscosity	Oil, 32-68	Oil, 32-68 cSt@40°C Oil, 32-68 cSt@40°C							

◆Technical Data (Highly Efficient Air Cooler) ※ Data origin is the catalogue of the manufacturer.

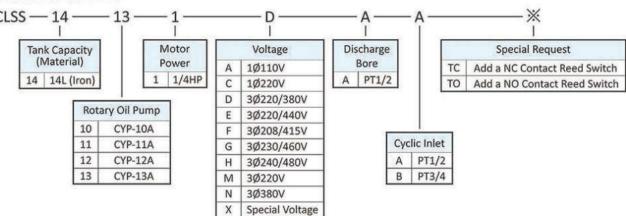
	Air Cooler			Motor with Fan						
Suitable Fluid	Max. Pressure	Heat Exchange	Pressure Loss	Voltage	Hertz	Input Power	Rotational Speed	Ampere		
Min Oil	1.0140-	3L/hour, 565kcal/hour	0.1 bar	1Ø230V	50Hz	45W	2850min ⁻¹	0.27A		
Mineral Oil	1.0MPa	(at 20°C above room temperature)	(3L/min)	1Ø230V	60Hz	37W	3450min ⁻¹	0.23A		

♦ Order Code (CLSS-08)



X The 90W motor of CLSS-08 has a terminal box. Due to limited wiring space, only three phase single voltage is available.

♦Order Code (CLSS-14)

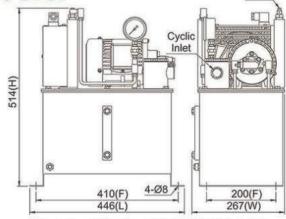


X A standard dual-voltage motor is connected for low voltage. Please specify if you need it to be connected for high voltage when placing an order.



CLST Circulating Type Oil PLC Electric Lubricator with Cooler





Dimensional Drawing of CLST-20-10-D-1-3-B

Features

CLST-20-10-D-1-3-B

- 1. CLST has a highly efficient air cooler that reduces the oil temperature to room temperature plus 10°C.
- 2. CLST has a cyclic inlet that allows the oil to return to the oil tank, which saves the consumption of oil.
- 3. CLST has a magnetic filter inside the cyclic inlet that prevents iron filings from entering the oil tank to maintain the cleanness of the circulating oil.
- 4. The operation and interval time of CLST are controlled by PLC. CLST also can operate continuously without interval time.
- 5. The rotary oil pump of CLST is made of special aluminum alloy and assembled with the 1/4HP motor to provide stable output pressure, low operating noise, and long service life.
- 6. CLST has a pressure-regulating valve that enables the user to adjust the operating pressure.
- 7. CLST has a NC contact float switch that detects the oil level automatically and sends signals when the oil level is low.
- 8. After installing CLST and connecting all oil pipes, let CLST continue running until oil fulfills all oil pipes. The lubricator is ready to use when the oil flows out to remove the air bubbles.

Dimensional Data

Tank Capacity	Tank Material	Length (mm)	Width (mm)	Height (mm)	Mounting Hole Distance (mm)	N.W. (kg)
20L	Iron	446	267	514	410×200	29.5
36L	Iron	410	353	649	300x215	41.5
64L	Iron	560	480	649	450x300	54.4

Technical Data

Motor Power (Number of Poles)		1/4HP (4P)							
Voltage		1Ø110V, 1Ø220V, Three Phase							
Max. Discharge Volume	CYP-10A: 1.1-1.4L/min CYP-11A: 2.2-2.7L/min CYP-12A: 3.7-4.5Lmin CYP-13A: 6.5-7								
Max. Operating Pressure	5kgf/cm ²								
Discharge Bore		Ø4,	Ø6						
Cyclic Inlet		PT1/2,	PT3/4						
Float Switch	NC Contact (NO Contact on request)								
Suitable Viscosity		Oil, 32-68 cSt@40°C							

Order Code

CLST	-20		- 10		— p——				- 3	- B	—×	
Tank (Capacity (Material)	Rota	ary Oil Pump		Voltage		Motor Power		er Cyclic Inlet		1	
20	20L (Iron)	10	CYP-10A	A	1Ø110V	1	1/4	HP		A	PT1/2	
30	30L (Iron)	11	CYP-11A	C	1Ø220V	1		-		В	PT3/4	1
36	36L (Iron)	12	CYP-12A	D	3Ø220/380V					1		•
40	40L (Iron)	13	CYP-13A	E	3Ø220/440V			Disc	scharge Bore (PT3/8)			
60	60L (Iron)			F	3Ø208/415V			2 9	04 W	//Pressure	Gauge	
64	64L (Iron)			G	3Ø230/460V			3 9	Ø6 W	//Pressure	Gauge	
77	77L (Iron)			Н	3Ø240/480V						in the	
100	100L (Iron)			M	3Ø220V					Special	Request	
130	130L (Iron)			N	3Ø380V				SO	NO Conta	ct Float S	witch
150	150L (Iron)			X	Special Voltage				M	1 Customized Motor Powe		Power
204	204L (Iron)	× Ac	tandard dual ua	ltogo m	ataria sannastad f	ar laur	oltage Please specify if you need it to be			, ha		

Related Products











connected for high voltage when placing an order.



X A standard dual-voltage motor is connected for low voltage. Please specify if you need it to be

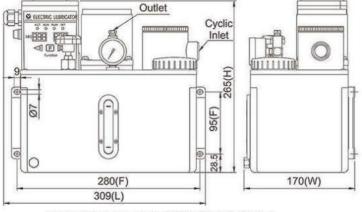






CEF Circulating Type Oil Timer Electric Lubricator





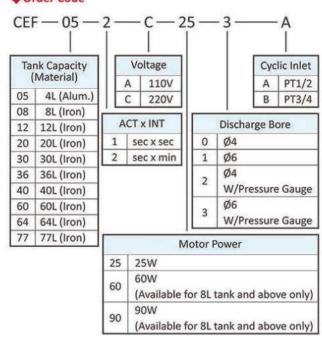
CEF-05-2-C-25-3-A

Dimensional Drawing of CEF-05-2-C-25-3-A

♦Features

- 1. CEF has a cyclic inlet that allows the oil to return to the oil tank, which saves the oil consumption.
- CEF has a magnetic filter inside the cyclic inlet that prevents iron filings from flowing into the oil tank to maintain the cleanness of the circulating oil.
- 3. CEF has a timer that controls its operation and interval time. The control box has four indicators, operation (ACT), alarm (ALM), immediate lubrication (RUN), and interval (INT).
- 4. The control box has a build-in buzzer that sends an alarm sound when the oil level is low.
- The gear pump of CEF is made of special aluminum alloy and assembled with the induction motor to provide stable output pressure, low operating noise, and long service life.
- 6. CEF has a pressure-regulating valve that enables the user to adjust the operating pressure.
- 7. CEF has a NC contact float switch that detects the oil level automatically and sends signals when the oil level is low.
- 8. CEF has a feed-oil button (F button), which can be used as manual oil feeding for less than 3 minutes to avoid overloading the motor.
- After installing CEF and connecting all oil pipes, let CEF continue running until oil fulfills all oil pipes. The lubricator is ready to use when the oil flows out to remove the air bubbles.

♦Order Code



♦Dimensional Data

Motor Power	Tank Capacity & Material	Length (mm)	Width (mm)	Height (mm)	Mounting Hole Distance (mm)	N.W. (kg)
	4L Alum.	309	170	265	95x280	7.50
25W	8L Iron	355	201	285	95x338	10.10
	12L Iron	495	225	265	95x478	12.40
COLL	8L Iron	355	201	331	95x338	11.15
60W	12L Iron	495	225	311	95x478	13.45

◆Technical Data

Operation Time		1-99	9 sec			
Interval Time	1	-999 sec,	1-999 mi	n		
Motor Power	25	W	60	W		
Voltage	110V	220V	110V	220V		
Ampere	0.6A	0.3A	1.2A	0.6A		
Hertz	5	0/60Hz C	ompatibl	e		
Discharge Bore		Ø4,	Ø6			
Cyclic Inlet		PT1/2,	PT3/4			
Float Switch	NC Contact					
Suitable Viscosity	(Oil, 32-68	cSt@40°	С		

♦Wiring Diagram

Ak	onormal Outp	Ground	Power			
NO(A)	NC(B)	COM	GND(P.E)	POWER		
0	0	(1)	0	0	T	

◆Related Products









P. 81

P. 82

P. 123

CEN24 Horizontal / CEN25 Vertical Oil-Mist Type Electric Lubricator



178(W) 205(F) 12.5 шини Ø12 Air Inlet 159 Outlet

295(L)

CEN24-03-C-25-3

Dimensional Drawing of CEN24-03-C-25-3

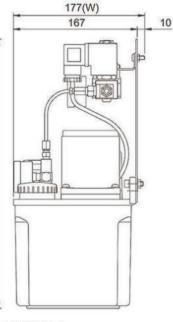
12.5

364(H)



12.5 205(F Outlet Air Inlet Ø7 шищт Ø12 59

230(L)



CEN25-03-C-25-3

Dimensional Drawing of CEN25-03-C-25-3

Features

- 1. CEN24 and CEN25 have solenoid valves to control the pneumatic supply. The solenoid valve installed on the left side is CEN24 and on the top is CEN25.
- 2. The operation and interval time are controlled by PLC.
- 3. CEN24 and CEN25 have pressure gauges that enable the users to check the operating pressure easily.
- 4. CEN24 and CEN25 have NC contact float switches that detect the oil level automatically and sends signals when the oil
- 5. CEN24 and CEN25 have pressure-regulating valves that enable the users to adjust the operating pressure. Turn the pressure-regulating valve clockwise to increase the discharge volume and turn it anticlockwise to decrease the discharge
- 6. CEN24 and CEN25 have air-regulating valves that enable the users to adjust the air volume upon their demands.
- 7. When the power of CEN24 and CEN25 is off, the pneumatic pressure and output power will be off simultaneously for safety concerns.
- 8. CEN24 and CEN25 can cool down the lubrication area and filter out the wear particles from friction points to reduce mechanical wear and prolong the machine's service life during lubrication process.
- 9. Each lubrication point should be with an individual oil-mist lubricator for better lubrication results.

CEN24 Horizontal / CEN25 Vertical PLC Oil-Mist Type Electric Lubricator

♦ Dimensional Data

Model	Tank Capacity	Tank Material	Length (mm)	Width (mm)	Height (mm)	Mounting Hole Distance (mm)	N.W. (kg)
CENDA	3L	Resin	295	178	297	205	5.40
CEN24	4L	Resin	353	185	308	250	6.00
CENIDE	3L	Resin	230	177	363	205	6.36
CEN25	4L	Resin	275	177	377	250	6.90

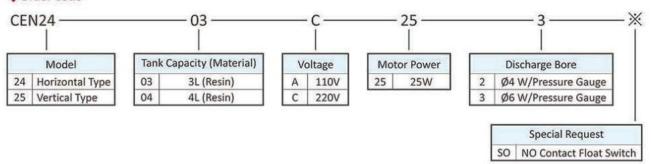
◆Technical Data

Motor Power	25	5W			
Voltage	110V	220V			
Ampere	0.6A	0.3A			
Max. Discharge Volume	200c	c/min			
Max. Operating Pressure	15kgf/cm² 50/60Hz Compatible				
Hertz					
Discharge Bore	Ø4,	, Ø6			
Float Switch	NC Contact (NO C	ontact on request)			
Suitable Viscosity	Oil, 32-68 cSt@40°C				

♦Wiring Diagram



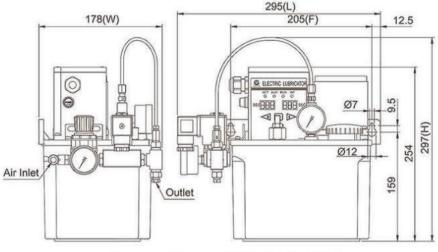
♦Order Code





CEN22 Horizontal / CEN23 Vertical Timer Oil-Mist Type Electric Lubricator

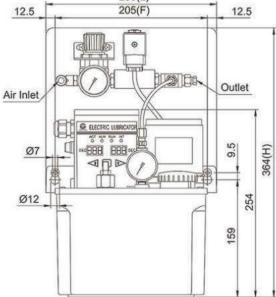




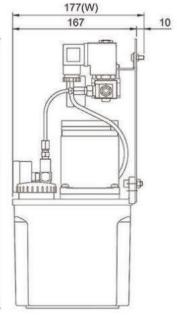
CEN22-03-1-C-25-3

Dimensional Drawing of CEN22-03-1-C-25-3





230(L)



CEN23-03-1-C-25-3

Dimensional Drawing of CEN23-03-1-C-25-3

Features

- CEN22 and CEN23 have solenoid valves to control the pneumatic supply. The solenoid valve is on the left side of CEN22 and on the top of CEN23.
- CEN22 and CEN23 have timers that control the operation and interval time. The control box has a built-in buzzer that sends an alarm sound when the oil level is low. The control box also has four indicators, operation (ACT), alarm (ALM), immediate lubrication (RUN), and interval (INT).
- 3. CEN22 and CEN23 can memorize the set value of operation time and interval time.
- 4. There are two operation modes after the power of CEN22 and CEN23 is on. The standard mode is turn-on-interval.
 - Turn-on-feeding: Operation time starts first after the power is on.
 - Turn-on-interval: Interval time starts first after the power is on.
- 5. Turn-on-interval model has a memory function. If the power is suddenly off during the interval time, CEN22 and CEN23 will continue to operate from the remaining interval time after restarting, which can effectively avoid over-lubrication.
- 6. CEN22 and CEN23 have pressure gauges that enable the user to check the operating pressure easily.
- 7. CEN22 and CEN23 have NC contact float switches that detect the oil level automatically and send signals when the oil levels are low.
- 8. CEN22 and CEN23 have pressure-regulating valves that enable the user to adjust the operating pressure. Turn the valve clockwise to increase the discharge volume and turn it anticlockwise to decrease the discharge volume.
- 9. CEN22 and CEN23 have air-regulating valves that enable the users to adjust the air volume upon the need.
- 10.CEN22 and CEN23 have feed-oil buttons (F button), which can be used as manual oil feeding for less than 3 minutes to avoid overloading the motor.
- 11.When the power of CEN22 and CEN23 is turned off, the pneumatic pressure and output power will be turned off simultaneously for safety concerns.
- 10.CEN22 and CEN23 can cool down the lubrication area and filter out the wear particles from friction points to reduce mechanical wear and prolong machine's service life during lubrication process.
- 12. Each lubrication point should be with an individual oil-mist lubricator for better results.

CEN22 Horizontal / CEN23 Vertical Timer Oil-Mist Type Electric Lubricator

Dimensional Data

Model	Tank Capacity	Tank Material	Length (mm)	Width (mm)	Height (mm)	Mounting Hole Distance (mm)	N.W. (kg)
CEN22	3L	Resin	295	178	297	205	5.60
	4L	Resin	355	188	337	250	6.20
CENIOO	3L	Resin	230	177	364	205	6.50
CEN23	4L	Resin	277	174	377	250	7.10

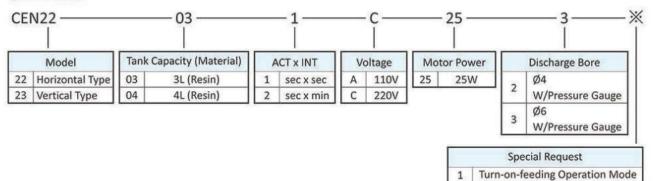
◆Technical Data

Operation Time	1-99	9 sec			
Interval Time	1-999 sec, 1-999 min				
Motor Power	25	5W			
Voltage	110V	220V			
Ampere	0.6A	0.3A			
Max. Discharge Volume	200cc/min				
Max. Operating Pressure	15kg	f/cm²			
Hertz	50/60Hz Compatible Ø4, Ø6				
Discharge Bore					
Float Switch	NC C	ontact			
Suitable Viscosity	Oil, 32-68	cSt@40°C			

♦Wiring Diagram

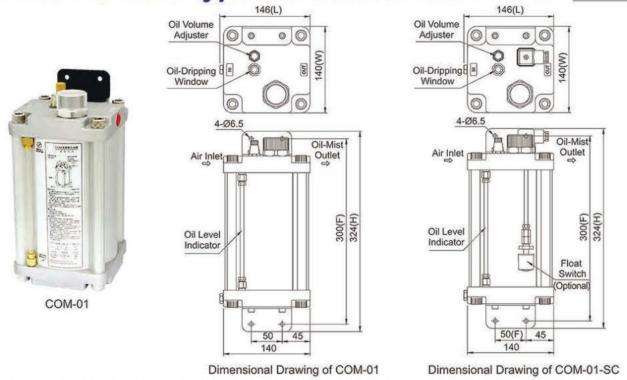
	Abnormal Output	Ground	Power			
NO(A)	NC(B)	COM	GND(P.E)	POWER		
\oplus	0	\oplus	0	0	(I	

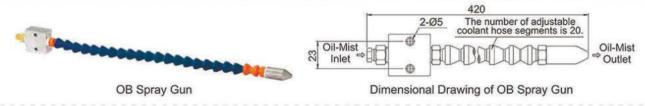
♦Order Code





COM Oil-Mist Type Pneumatic Lubricator





♦Features

- 1. With its superior oil-mist mixture, COM is suitable for high-speed cutting machines, special processing machines, and machines that need large-area lubrication and cooling effects.
- 2. COM requires 4-8kgf/cm² pneumatic pressure supply to operate.
- 3. COM has an oil volume adjuster that enables the users to adjust the discharge volume upon the need.
- 4. COM has an oil-dripping window that enables the users to check if COM discharges oil normally.
- COM has an oil level indicator that enables the users to check the oil level inside the oil tank. A float switch can be added to COM on request to detect the oil level automatically.
- Recommend adding an OB spray gun to COM outlet for lubricating a non-fixed lubrication point. A magnetic base can be added to an OB spray gun on request, enabling it to be fixed on any magnetic metal surface at any angle and relocated quickly. The net weight of OB spray gun is 149g.
- 7. COM is suitable for oil and cutting fluid.

◆Technical Data & Dimensional Data

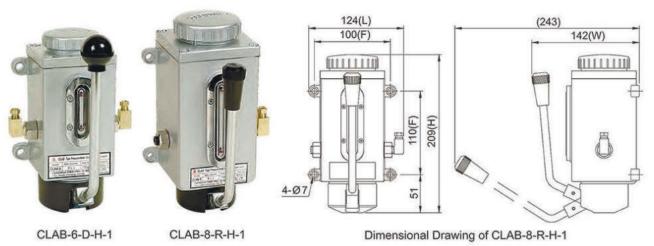
Tank	Length	Width	Height (mm)	Mounting Hole	Pneumatic	Air Inlet	Oil-Mist Outlet	Suitable	Suitable	N.W.
Capacity	(mm)	(mm)		Distance (mm)	Pressure	Thread	Thread	Temperature	Viscosity	(kg)
2L	146	140	324	300	4-8 kgf/cm²	PT1/4	PT1/4	5-60°C	32-68 cSt@40°C	4.1

♦Order Code





CLAB Pressure-Relief Type Oil Manual Lubricator



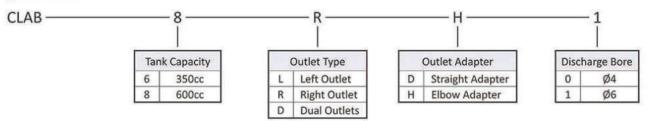
♦Features

- 1. The compact size of CLAB makes the installation easy.
- 2. CLAB discharges oil whenever its handle is pulled.
- The outlet of CLAB can be on either the right side or the left side of the handle. A dual-outlet model is also available for selection.
- 4. CLAB has to work with volume distributors to deliver the metered quantity of oil to the lubrication point.
- 5. CLAB can work with machines that do not require oil feeding at a particular time.

◆Technical Data & Dimensional Data

Model	Tank Capacity	Length (mm)	Width (mm)	Height (mm)	Mounting Hole Distance (mm)	Max. Discharge Volume	Max. Operating Pressure	Suitable Viscosity	Discharge Bore	Outlet Number	N.W. (kg)			
					85x85		15	Oil	Ø4 Ø6	1	1.23			
CLAB-6	350cc	111	137	188						2	1.24			
	33000	Oil	15/	100						1	1.24			
										2	1.25			
										occ/stroke	kgf/cm ²		da	1
CLAB-8	600		C31@40 C	Ø4	2	1.50								
CLAB-8	00000			de	1	1.49								
								Ø6	2	1.52				

Order Code

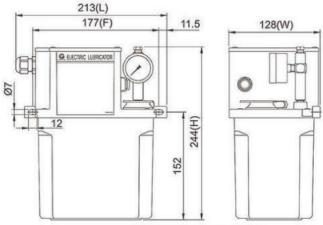




CEN03 Pressure-Relief Type Oil PLC Electric Lubricator





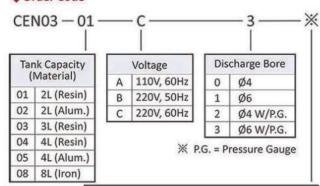


Dimensional Drawing of CEN03-01-C-3

Features

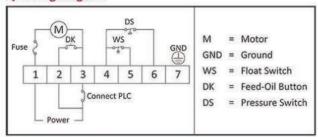
- 1. The operation and interval time of CEN03 are controlled by PLC.
- 2. CEN03 has to work with volume distributors to deliver the metered quantity of oil to the lubrication point.
- 3. CENO3 has a pressure gauge that enables the user to check the operating pressure easily.
- CEN03 has an 8kgf/cm² NC contact socket pressure switch that detects the operating pressure automatically and sends signals when the pressure is below the preset value.
- 5. CEN03 has a NC contact float switch that detects the oil level automatically and sends signals when the oil level is low.
- 6. CEN03 has a spark quencher that prevents the spark of switch contacts and the interference of surge voltage with the PLC and prolongs the service life.
- 7. CEN03 has a feed-oil button, which can be used as manual oil feeding for less than 3 minutes to avoid overloading the motor.
- 8. CEN03 has a thermal control that shuts down the motor for about 5 minutes when the motor is overheated.

♦Order Code



	Special Request
В	Add a Buzzer
РО	NO Contact Pressure Switch
SO	NO Contact Float Switch
Z	Increase Discharge Volume to 260cc/min

♦Wiring Diagram



♦Dimensional Data

Tank Capacity	Tank Material	Length (mm)	Width (mm)	Height (mm)	Mounting Hole Distance (mm)	N.W. (kg)
2L	Resin	213	128	244	177	3.45
2L	Alum.	221	150	234	95x200	4.56
3L	Resin	227	167	248	205	3.91
4L	Resin	277	162	259	250	4.35
4L	Alum.	297	170	253	95x280	5.35
8L	Iron	355	201	270	95x338	8.00

♦Technical Data

Motor Power	30	D±3W
Voltage	110V	220V
Ampere	2A	1A
Hertz	60Hz	50Hz, 60Hz
Max. Discharge Volume	130cc/mi	n, 260cc/min
Max. Operating Pressure	15kgf/cm ²	
Discharge Bore	Ø	4, Ø6
Float Switch	NC Contact (NO Contact on reque	
Pressure Switch	NC Contact (NO	Contact on request)
Suitable Viscosity	Oil, 32-6	8 cSt@40°C

Related Products



P. 89



P. 93





P. 111





P. 124



P. 123



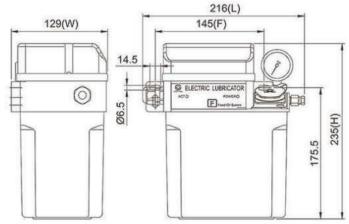
P. 127



CESG03 Pressure-Relief Type Oil PLC Electric Lubricator





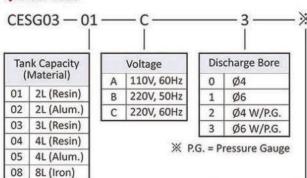


Dimensional Drawing of CESG03-01-C-3

Features

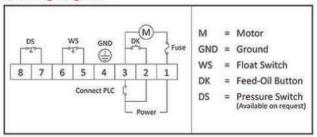
- 1. The operation and interval time of CESG03 are controlled by PLC.
- 2. CESG03 has to work with volume distributors to deliver the metered quantity of oil to the lubrication point.
- 3. CESG03 has a pressure gauge that enables the user to check the operating pressure easily.
- 4. CESG03 has a NC contact float switch that detects the oil level automatically and sends signals when the oil level is low.
- CESG03 has a feed-oil button (F button), which can be used as manual oil feeding for less than 3 minutes to avoid overloading the motor.
- 6. CESG03 has a thermal control that shuts down the motor for about 5 minutes when the motor is overheated.
- 7. An 8kgf/cm² socket pressure switch can be added to CESG03 on request to detect the operating pressure automatically.

♦Order Code



	Special Request
PC	Add a NC Contact Pressure Switch
PO	Add a NO Contact Pressure Switch
SO	NO Contact Float Switch
Z	Increase Discharge Volume to 260cc/min

♦Wiring Diagram



Dimensional Data

Tank Capacity	Tank Material	Length (mm)	Width (mm)	Height (mm)	Mounting Hole Distance (mm)	N.W. (kg)
2L	Resin	216	129	235	145	2.71
2L	Alum.	221	150	225	95x200	3.80
3L	Resin	227	167	239	205	3.17
4L	Resin	277	162	250	250	3.70
4L	Alum.	297	170	244	95x280	4.61
8L	Iron	355	201	261	95x338	7.26

◆Technical Data

Motor Power	2:	5±3W	
Voltage	110V	220V	
Ampere	1.8A	0.9A	
Hertz	60Hz	50Hz, 60Hz	
Max. Discharge Volume	130cc/mi	n, 260cc/min	
Max. Operating Pressure	15kgf/cm ²		
Discharge Bore	Ø4, Ø6		
Float Switch	NC Contact (NO Contact on reque		
Pressure Switch	Optional (NC or NO Contact		
Suitable Viscosity	Oil, 32-68 cSt@40°C		

♦Related Products





P. 93















P. 89

P. 109

P. 111

P. 120

P. 124

P. 123

P. 127

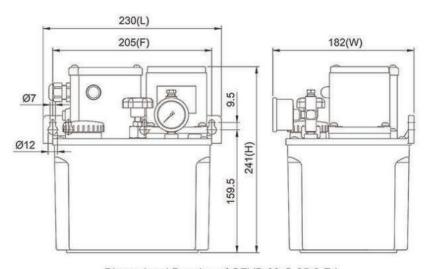
CEVB Pressure-Relief Type Oil PLC Electric Lubricator



CEVB-03-C-25-3-F-L

CEVB-04-C-25-3-F-L

CEVB-08-C-60-3-F-L



Dimensional Drawing of CEVB-03-C-25-3-F-L

Features

- 1. The operation and interval time of CEVB are controlled by PLC.
- 2. CEVB has to work with volume distributors to deliver the metered quantity of oil to the lubrication points.
- 3. CEVB has a pressure gauge that enables the user to check the operating pressure easily.
- 4. CEVB has an 8kgf/cm² NC contact socket pressure switch that detects the operating pressure automatically and sends a signal when the pressure is below the preset value.
- 5. CEVB has a NC contact float switch that detects the oil level automatically and sends signals when the oil level is low.
- 6. CEVB has a pressure-regulating valve that enables the user to adjust the operating pressure.
- 7. The gear pump of CEVB is made of special aluminum alloy and assembled with the induction motor to provide stable output pressure, low operating noise, and long service life.
- 8. CEVB can be added with the following parts on request.
 - · A feed-oil button can be used for manual oil feeding.
 - An indicator light that shows when CEVB discharges oil.

♦ Dimensional Data

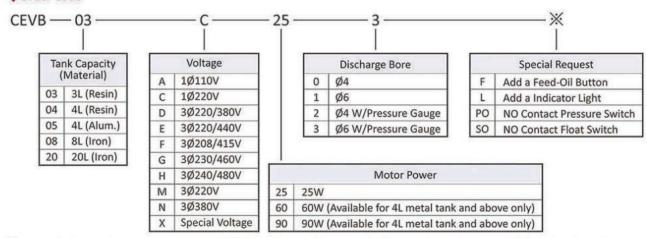
Motor Power	Tank Capacity	Tank Material	Length (mm)	Width (mm)	Height (mm)	Mounting Hole Distance (mm)	N.W. (kg)
	3L	Resin	230	182	241	205	4.89
2514/	4L	Resin	288	162	252	250	5.37
25W	4L	Aluminum	297	170	250	95×280	6.25
	8L	Iron	355	201	273	95x338	9.52
COM	4L	Aluminum	297	175	310	95x280	7.87
60W	8L	Iron	355	201	332	95x338	11.35

CEVB Pressure-Relief Type Oil PLC Electric Lubricator

◆Technical Data

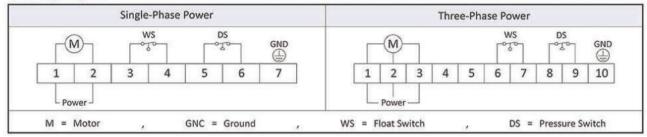
Motor Power		25W			60W	
Voltage	1Ø110V	1Ø220V	Three Phase	1Ø110V	1Ø220V	Three Phase
Ampere	0.6A	0.3A	0.3A	1.2A	0.6A	0.6A
Max. Discharge Volume 250cc/min			250cc/min			
Max. Operating Pressure	20kgf/cm ² 30kgf/cm ²					
Hertz		50/60Hz Co				
Discharge Bore			Ø4,	Ø6		
Float Switch		NC Contact (NO Contact on request)				
Pressure Switch	NC Contact (NO C			ntact on reques	it)	
Suitable Viscosity	Oil, 32-68 cSt@40°C					

Order Code



X A standard dual-voltage motor is connected for low voltage. Please specify if you need it to be connected for high voltage when placing an order.

Wiring Diagram



- 💥 For the CEVB with a feed-oil button and an indicator light, please follow the particular wiring diagram on the CEVB.
- X The motor shaft is marked with a red dot. When wiring the three-phase-voltage CEVB, please note that the motor should rotate anticlockwise. If the motor rotates clockwise, please switch the position of any two of the power wires and rewire them.

◆Related Products













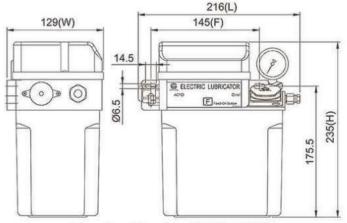




CEPB Pressure-Relief Type Oil Timer **Electric Lubricator**







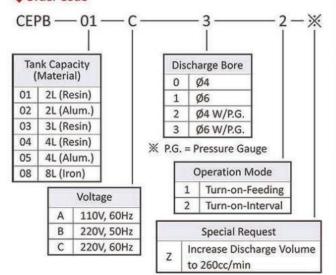
Dimensional Drawing of CEPB-01-C-3-2

◆Features

- 1. The time adjusters are inside the control box of CEPB. There are eight kinds of operation time and interval time for
- 2. There are operation (ACT) and interval (INT) indicators on the control box.
- 3. There are two operation modes after the power of CEPB is on. The standard mode is turn on interval.
 - Turn-on-feeding: Operation time starts first after the power is on.
 - Turn-on-interval: Interval time starts first after the power is on.
- 4. Turn-on-interval model has a memory function. If the power is suddenly off during the interval time, CEPB will continue to operate from the remaining interval time after restarting, which can effectively avoid over-lubrication.
- 5. CEPB has to work with volume distributors to deliver the metered quantity of oil to the lubrication points.
- 6. CEPB has a pressure gauge that enables the user to check the operating pressure easily.
- 7. CEPB has a NC contact float switch that detects the oil level automatically and sends signals when the oil level is low.
- 8. CEPB has a buzzer that sends an alarm sound when the oil level is low.
- 9. CEPB has a feed-oil button (F button), which can be used as manual oil feeding for less than 3 minutes to avoid overloading the motor.

10.CEPB has a thermal control that shuts down the motor for about 5 minutes when the motor is overheated.

♦Order Code



Wiring Diagram

Power POWER		Ground	Al	onormal Outp	out
		GND(P.E)	COM	NC(B)	NO(A)
\oplus	\oplus	0	\oplus	0	0

Dimensional Data

Tank Capacity	Tank Material	Length (mm)	Width (mm)	Height (mm)	Mounting Hole Distance (mm)	N.W. (kg)
2L	Resin	216	129	235	145	2.73
2L	Alum.	221	150	225	95x200	3.87
3L	Resin	227	167	239	205	3.15
4L	Resin	277	162	250	250	3.70
4L	Alum.	297	170	244	95x280	4.70
8L	Iron	355	201	261	95x338	7.35

◆Technical Data

Operation Time	2, 3, 5, 10, 1	5, 20, 25, 30 sec
Interval Time	3, 5, 10, 15, 20	0, 30, 60, 180 min
Motor Power	2.	5±3W
Voltage	110V	220V
Ampere	1.8A	0.9A
Hertz	60Hz	50Hz, 60Hz
Max. Discharge Volume	130cc/mi	n, 260cc/min
Max. Operating Pressure	15k	gf/cm ²
Discharge Bore	Ø	4, Ø6
Float Switch	NC	Contact
Suitable Viscosity	Oil, 32-6	8 cSt@40°C

Related Products

















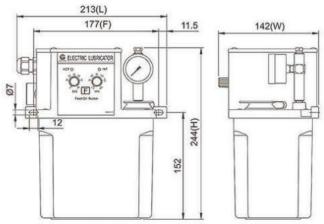




CEWB Pressure-Relief Type Oil Timer Electric Lubricator



CEWB-01-2-C-3-2

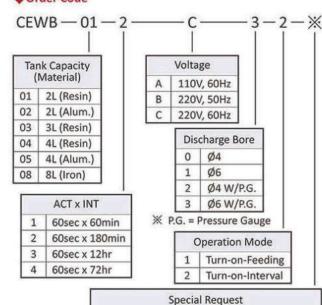


Dimensional Drawing of CEWB-01-2-C-3-2

Features

- The operation and interval time adjusters are on the control box of CEWB. There are operation (ACT) and interval (INT)
 indicators on the control box.
- 2. There are two operation modes after the power of CEWB is on. The standard mode is turn on interval.
 - · Turn-on-feeding: Operation time starts first after the power is on.
 - · Turn-on-interval: Interval time starts first after the power is on.
- Turn-on-interval model has a memory function. If the power is suddenly off during the interval time, CEWB will continue to operate from the remaining interval time after restarting, which can effectively avoid over-lubrication.
- 4. CEWB has to work with volume distributors to deliver the metered quantity of oil to the lubrication points.
- 5. CEWB has a pressure gauge that enables the user to check the operating pressure easily.
- 6. CEWB has a NC contact float switch that detects the oil level automatically and sends signals when the oil level is low.
- 7. CEWB has a buzzer that sends an alarm sound when the oil level is low.
- CEWB has a feed-oil button (F button), which can be used as manual oil feeding for less than 3 minutes to avoid overloading the motor.
- 9. CEWB has a thermal control that shuts down the motor for about 5 minutes when the motor is overheated.

♦Order Code



♦Wiring Diagram

Ak	onormal Outp	Ground	Pov	wer	
NO(A)	NC(B)	COM	GND(P.E)	POWER	
\oplus	\oplus	\oplus	\oplus	0	0

Dimensional Data

Tank Capacity	Tank Material	Length (mm)	Width (mm)	Height (mm)	Mounting Hole Distance (mm)	N.W. (kg)
2L	Resin	213	142	244	177	3.42
2L	Alum.	221	156	234	95x200	4.53
3L	Resin	227	167	248	205	3.86
4L	Resin	277	162	259	250	4.36
4L	Alum.	297	173	253	95x280	5.36
8L	Iron	355	201	270	95x338	8.06

♦Technical Data

Operation Time	3-60 sec			
Interval Time	1-60min, 1-180min, 1-12hr, 1-			
Motor Power	30	0±3W		
Voltage	110V	220V		
Ampere	2A	1A		
Hertz	60Hz	50Hz, 60Hz		
Max. Discharge Volume	130cc/mi	n, 260cc/min		
Max. Operating Pressure	15	cgf/cm²		
Discharge Bore	Ø	4, Ø6		
Float Switch	NC Contact			
Suitable Viscosity	Oil, 32-6	58 cSt@40°C		

◆Related Products







Increase Discharge Volume to 260cc/min













P. 124

P. 123

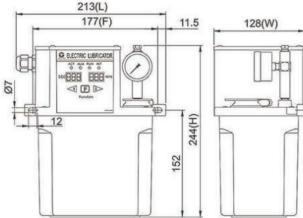
P. 127

P. 125

CEN04 Pressure-Relief Type Oil Timer Electric Lubricator





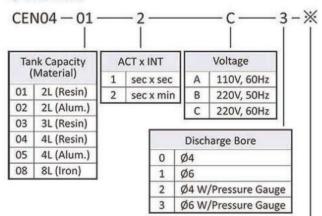


Dimensional Drawing of CEN04-01-2-C-3

Features

- CEN04 has a timer that controls its operation and interval time. The control box has a built-in buzzer that sends an alarm sound when the oil level is low. The control box also has four indicators, operation (ACT), alarm (ALM), immediate lubrication (RUN), and interval (INT).
- 2. CEN04 has to work with volume distributors to deliver the metered quantity of oil to the lubrication points.
- 3. CEN04 can memorize the set value of operation time and interval time.
- 4. There are two operation modes after the power of CEN04 is on. The standard mode is turn on feeding.
 - Turn-on-feeding: Operation time starts first after the power is on.
 - Turn-on-interval: Interval time starts first after the power is on.
- Turn-on-interval model has a memory function. If the power is suddenly off during the interval time, CEN04 will continue to operate from the remaining interval time after restarting, which can effectively avoid over-lubrication.
- 6. CEN04 has a pressure gauge that enables the user to check the operating pressure easily.
- 7. CEN04 has an 8kgf/cm2 NC contact socket pressure switch that detects the operating pressure automatically.
- 8. CEN04 has a NC contact float switch that detects the oil level automatically and sends signals when the oil level is low.
- CEN04 has a feed-oil button (F button), which can be used as manual oil feeding for less than 3 minutes to avoid overloading the motor.
- 10. CEN04 has a thermal control that shuts down the motor for about 5 minutes when the motor is overheated.

Order Code



	Special Request
2	Turn-on-Interval Operation Mode
В	Add a Larger Buzzer
Z	Increase Discharge Volume to 260cc/min

♦Wiring Diagram

Abnormal Output		Ground		Power	
NO(A)	NC(B)	COM	GND(P.E)	POV	VER
A	A	A	A	A	A

♦Dimensional Data

Tank Capacity	Tank Material	Length (mm)	Width (mm)	Height (mm)	Mounting Hole Distance (mm)	N.W. (kg)
2L	Resin	213	128	244	177	3.55
2L	Alum.	221	150	234	95x200	4.66
3L	Resin	227	167	248	205	3.99
4L	Resin	277	162	259	250	4.45
4L	Alum.	297	170	253	95x280	5.45
8L	Iron	355	201	270	95x338	8.10

♦Technical Data

Operation Time	1-9	99 sec	
Interval Time	1-999 se	c, 1-999 min	
Motor Power	30±3W		
Voltage	110V	220V	
Ampere	2A	1A	
Hertz	60Hz	50Hz, 60Hz	
Max. Discharge Volume	130cc/min, 260cc/min		
Max. Operating Pressure	15k	gf/cm ²	
Discharge Bore	Ø4, Ø6		
Float Switch	NC Contact		
Pressure Switch	NC	Contact	
Suitable Viscosity	Oil, 32-6	8 cSt@40°C	

◆Related Products













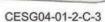


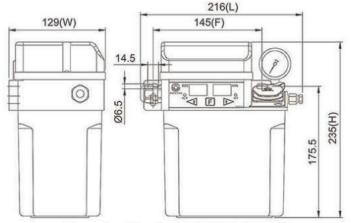




CESG04 Pressure-Relief Type Oil Timer Electric Lubricator





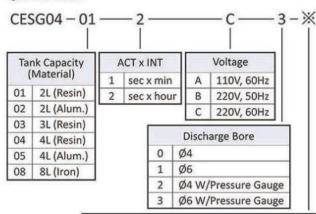


Dimensional Drawing of CESG04-01-2-C-3

Features

- 1. CESG04 has a timer that controls its operation and interval time. The control box has a built-in buzzer that sends an alarm sound when the oil level is low. The control box also has two indicators, operation (ACT), and interval (INT).
- 2. CESG04 has to work with volume distributors to deliver the metered quantity of oil to the lubrication points.
- 3. CESG04 can memorize the set value of operation time and interval time.
- 4. There are two operation modes after the power of CESG04 is on. The standard mode is turn on feeding.
 - · Turn-on-feeding: Operation time starts first after the power is on.
 - Turn-on-interval: Interval time starts first after the power is on.
- Turn-on-interval model has a memory function. If the power is suddenly off during the interval time, CESG04 will continue to operate from the remaining interval time after restarting, which can effectively avoid over-lubrication.
- 6. CESG04 has a pressure gauge that enables the user to check the operating pressure easily.
- 7. CESG04 has a NC contact float switch that detects the oil level automatically and sends signals when the oil level is low.
- 8. CESG04 has a feed-oil button (F button), which can be used as manual oil feeding for less than 3 minutes to avoid overloading the motor.
- 9. CESG04 has a thermal control that shuts down the motor for about 5 minutes when the motor is overheated.
- An 8kgf/cm² NC contact socket pressure switch can be added to CESG04 on request to detect the operating pressure automatically.

Order Code



	Special Request
2	Turn-on-Interval Operation Mode
В	Add a Larger Buzzer
PC	Add a NC Contact Pressure Switch
Z	Increase Discharge Volume to 260cc/min

Wiring Diagram

Abnormal Output		mal Output Ground		Power	
NO(A)	NC(B)	COM	GND(P.E)	POWER	
(1)	\oplus	\oplus	\oplus	(1)	A

♦ Dimensional Data

Tank Capacity	Tank Material	Length (mm)	Width (mm)	Height (mm)	Mounting Hole Distance (mm)	N.W. (kg)
2L	Resin	216	129	235	145	2.75
2L	Alum.	221	150	225	95x200	3.86
3L	Resin	227	167	239	205	3.21
4L	Resin	277	162	250	250	3.74
4L	Alum.	297	170	244	95x280	4.65
8L	Iron	355	201	261	95x338	7.30

◆Technical Data

Operation Time	1-9	999 sec	
Interval Time	1-999 mi	n, 1-999 hour	
Motor Power	2	5±3W	
Voltage	110V	220V	
Ampere	1.8A	0.9A	
Hertz	60Hz	50Hz, 60Hz	
Max. Discharge Volume	130cc/mi	in, 260cc/min	
Max. Operating Pressure	15	kgf/cm²	
Discharge Bore	Ø	i4, Ø6	
Float Switch	NC Contact (NO	Contact on request)	
Pressure Switch	Optional (NC Contact)		
Suitable Viscosity	Oil, 32-6	58 cSt@40°C	

◆Related Products



















P. 109

P. 111

P. 120

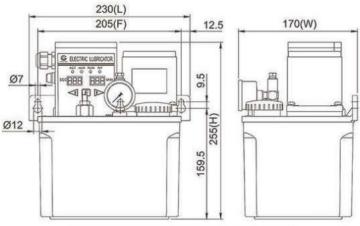
P. 124

P. 123

P. 127

CENB Pressure-Relief Type Oil Timer Electric Lubricator





Features

CENB-03-2-C-25-3

Dimensional Drawing of CENB-03-2-C-25-3

- CENB has a timer that controls its operation and interval time. The control box has a built-in buzzer that sends an alarm sound when the oil level is low. The control box also has four indicators, operation (ACT), alarm (ALM), immediate lubrication (RUN), and interval (INT).
- 2. CENB has to work with volume distributors to deliver the metered quantity of oil to the lubrication points.
- 3. CENB can memorize the set value of operation time and interval time.
- 4. CENB has a pressure gauge that enables the user to check the operating pressure easily.
- 5. CENB has a NC contact float switch that detects the oil level automatically and sends signals when the oil level is low.
- CENB has a pressure-regulating valve that enables the user to adjust the operating pressure.
- CENB has a feed-oil button (F button), which can be used as manual oil feeding for less than 3 minutes to avoid overloading the motor.
- 8. CENB with 3L above tank has an 8kgf/cm² NC contact socket pressure switch that detects the operating pressure automatically.
- The gear pump of CENB is made of special aluminum alloy and assembled with the induction motor to provide stable output pressure, low operating noise, and long service life. It meets the requirements of most large machines.

♦Dimensional Data

Motor Power	Tank Capacity	Tank Material	Length (mm)	Width (mm)	Height (mm)	Mounting Hole Distance (mm)	N.W. (kg)
	2L	Aluminum	222	167	245	95x200	5.81
25W	3L	Resin	230	170	255	205	5.10
	4L	Resin	277	162	266	250	5.50
	4L	Aluminum	297	170	264	95x280	6.41
	8L	Iron	355	201	285	95x338	9.54
	4L	Aluminum	297	170	311	95x280	8.15
60W	8L	Iron	355	201	331	95x338	10.55

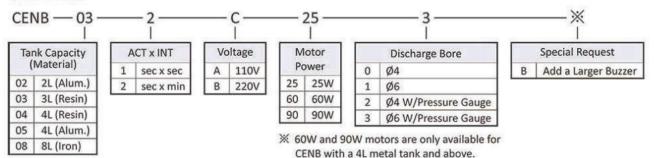
♦Wiring Diagram

Al	onormal Outp	Ground	d Powe		
NO(A)	NC(B)	COM	GND(P.E)	POWER	
A	A	A	T A	A	(1)
W	W	W	W		W

◆Technical Data

Operation Time	1-999 sec					
Interval Time	1-999 sec, 1-999 min					
Motor Power	25	W	60	W		
Voltage	110V	220V	110V	220V		
Ampere	0.6A	0.3A	1.2A	0.6A		
Max. Discharge Volume	250cc	c/min	500c	c/min		
Max. Operating Pressure	20kgf/cm²		30kgf/cm ²			
Hertz	5	60/60Hz C	ompatibl	e		
Discharge Bore	Ø4, Ø6					
Float Switch	NC Contact					
Pressure Switch	NC Contact					
Suitable Viscosity	(Oil, 32-68	cSt@40°	С		

♦Order Code



Related Products















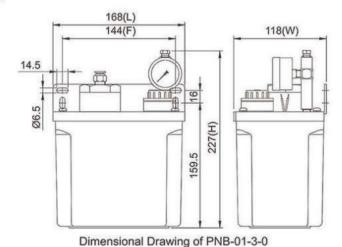




PNB Pressure-Relief Type Pneumatic Lubricator



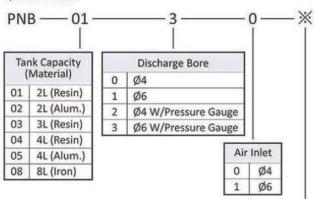
PNB-01-3-0



Features

- PNB is actuated pneumatically by a solenoid valve to discharge oil intermittently. The pneumatic pressure supply controls
 the output pressure of PNB.
- PNB requires 4-8 kgf/cm² pneumatic pressure supply and 5 seconds above ON/OFF time of the solenoid valve to work functionally.
- 3. PNB has to work with volume distributors to deliver the metered quantity of oil to the lubrication points.
- 4. PNB has a pressure gauge that enables the user to check the operating pressure easily.
- 5. PNB has a NC contact float switch that detects the oil level automatically and sends signals when the oil level is low.
- 6. An 8kgf/cm² socket pressure switch can be added to PNB on request to detect the operating pressure automatically.
- A magnetic filter and a partition can be added to PNB on request to filter the oil that returns to the oil tank through the cyclic inlet.
 - · 3L oil tank and above can add a magnetic filter.
 - 3L, 4L resin oil tanks, and 8L iron oil tanks can add a partition.

♦Order Code



	Special Request
С	Add a Magnetic Filter (Available for 3L and above tanks only)
D	Add a Partition (Available for 3L, 4L resin tanks, and 8L iron tanks only)
PC	Add a NC Contact Pressure Switch
PO	Add a NO Contact Pressure Switch
so	NO Contact Float Switch

Dimensional Data

Tank Capacity	Tank Material	Length (mm)	Width (mm)	Height (mm)	Mounting Hole Distance (mm)	N.W. (kg)
2L	Resin	168	118	227	144	2.27
2L	Alum.	217	150	212	95x200	3.07
3L	Resin	231	166	222	205	2.86
4L	Resin	277	160	236	250	2.68
4L	Alum.	297	170	232	95x280	4.14
8L	Iron	355	201	252	95x338	7.24

◆Technical Data

Pneumatic Pressure (kgf/cm²)	4	5	6	7	8	
Operating Pressure (kgf/cm²)	14	18	23	28	33	
Discharge Volume	8cc/stroke					
Air Inlet	Ø4, Ø6 (Outer Thread PT1/4)					
Discharge Bore	Ø4, Ø6					
Float Switch	NC Contact (NO Contact on request)			est)		
Pressure Switch	Optional (NC or NO Contact)					
Suitable Viscosity	Oil, 10-220 cSt@40°C					

◆Related Products



















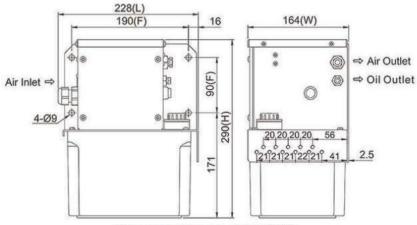
P. 120

P. 124

P. 123

POA Oil-Air Type PLC Pneumatic Lubricator





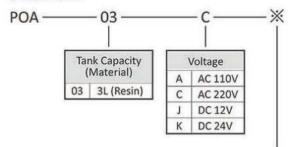
POA-03-C

Dimensional Drawing of POA-03-C

Features

- 1. The operation and interval time of POA are controlled by PLC.
- POA is actuated by pneumatic and controlled by a solenoid valve, which could be an ON/OFF switch. The input pneumatic pressure determines the output pressure. Oil discharges during operation.
- Recommend using input pneumatic pressure of 3.5~7 kgf/cm² and setting up a solenoid valve's ON/OFF time of more than 5 seconds for discharging oil.
- 4. POA has a feed-oil button which can be used for manual oil feeding.
- Recommend working with OC type oil-air volume distributors to deliver the metered quantity of oil-air mixture to lubrication points.
- 6. POA has two pressure gauges that enable the user to check the input pneumatic and output operating pressure easily.
- 7. POA has a NC contact float switch that detects the oil level automatically and sends signals when the oil level is low.
- 8. POA has three NC Contact socket pressure switches, and the specifications are as follows.
 - High Oil-Pressure Switch sets 20 kgf/cm² to detect the operating pressure.
 - (2) Low Oil-Pressure Switch sets 1 kgf/cm² to detect the pressure-relief function.
 - 3 Air-Pressure Switch sets 3.5 kgf/cm² to detect the pneumatic pressure.

♦Order Code



	Special Request
AO	NO Contact Air Pressure Switch
НО	NO Contact High Oil-Pressure Switch
LO	NO Contact Low Oil-Pressure Switch
ос	Add an OC Oil-Air Volume Distributor (Please refer to OC catalog and provide order code.)
SO	NO Contact Float Switch

Float switch and pressure switch contact instructions are on pages 118 and 119.

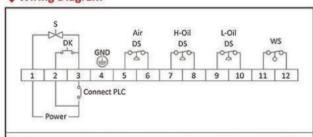
◆Dimensional Data

Tank Capacity	Tank Material	Length (mm)	Width (mm)	The state of the s	Mounting Hole Distance (mm)	N.W. (kg)
3L	Resin	228	164	290	90x190	5.50

◆Technical Data

Voltage	1	AC110V, AC220V, DC12V, DC24V						/
Pneumatic Pressure (kgf/cm²)	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0
Operating Pressure (kgf/cm²)	26	30	34	38	41	45	49	53
Discharge Volume	5cc/stroke							
Air Inlet	PT3/4							
Air Outlet		Ø8						
Oil Outlet	Ø6							
Float Switch	NC Contact (NO Contact on request)							
Pressure Switch	NC Contact (NO Contact on request)							
Suitable Viscosity			Oil, 1	0-68	cSt@	40°C		

Wiring Diagram



 $\mathsf{GND} = \mathsf{Ground}$, $\mathsf{DS} = \mathsf{Pressure}\,\mathsf{Switch}$, $\mathsf{WS} = \mathsf{Float}\,\mathsf{Switch}$ $\mathsf{DK} = \mathsf{Feed}\text{-Oil}\,\mathsf{Button}$, $\mathsf{S} = \mathsf{Solenoid}\,\mathsf{Valve}$

◆Related Products



P. 96

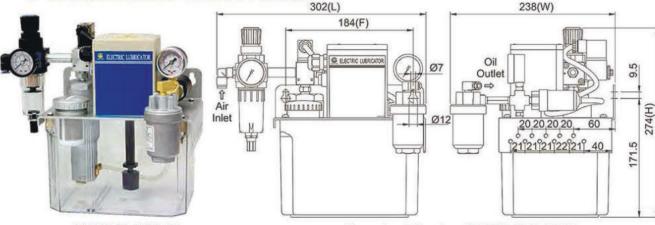








PNC03 Oil-Air Type PLC Pneumatic Lubricator



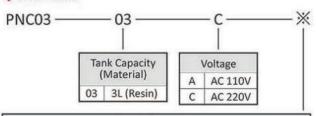
PNC03-03-C-AF-BF

Dimensional Drawing of PNC03-03-C-AF-BF

Features

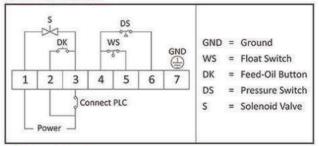
- 1. PLC controls the operation and interval time of PNC03.
- 2. PNC03 is actuated by pneumatic and controlled by a solenoid valve, which could be an ON/OFF switch. The input pneumatic pressure determines the output pressure. Oil discharges during operation.
- 3. Recommend using input pneumatic pressure of 4-8kgf/cm² and setting up a solenoid valve's ON/OFF time of more than 5 seconds for discharging oil.
- 4. Recommend working with OC oil air volume distributors that the discharge volume is above 0.03cc to deliver the metered quantity of oil-air mixture to lubrication points.
- 5. PNC03 has a pressure gauge that enables the user to check the operating pressure easily.
- 6. PNC03 has a NC float switch that detects the oil level automatically and sends signals when the oil level is low.
- 7. PNC03 has a 12.5kgf/ cm2 socket pressure switch that detects the operating pressure automatically.
- 8. PNC03 has a feed-oil button which can be used for manual oil feeding.
- 9. PNC03 can add an air filter regulator to filter out water and impurities from the pneumatic supply.
- 10.PNC03 can add an A-101-2 type filter to filter the impurity from oil.

♦Order Code



	Special Request
AF	Add an Air Filter Regulator
BF	Add an A-101-2 Filter
	Add an OC Oil-Air Distributor
oc	(Please refer to OC catalog and provide the order code.)
i a	(OC's discharge volume should be above 0.03cc.)
РО	NO Contact Pressure Switch
SO	NO Contact Float Switch

Wiring Diagram



◆Dimensional Data (PNC03-03-C)

Model	Tank Capacity & Material	Length (mm)	Width (mm)	Height (mm)	Mounting Hole Distance (mm)	N.W. (kg)
Without AF & BF	3L Resin	219	188	256	184	3.60
With AF & BF	3L Resin	302	238	274	184	4.32

Float switch and pressure switch contact instructions are on pages 118 and 119.

Technical Data

Voltage	AC110V, AC220V					
Pneumatic Pressure (kgf/cm²)	4	5	6	7	8	
Operating Pressure (kgf/cm²)	14	18	23	28	33	
Discharge Volume	8cc/stroke					
Air Inlet			Ø8			
Air Outlet			Ø8			
Oil Outlet			Ø6			
Float Switch	NC Contact (NO Contact on request)					
Pressure Switch	NC Contact (NO Contact on request)					
Suitable Viscosity	Oil, 10-68 cSt@40°C					

Related Products



















P. 127



P. 96

P. 111

P. 109

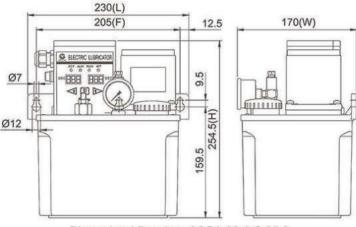
P. 113

P. 120

P. 124

COA Oil-Air Type Timer Electric Lubricator





COA-03-1-C-25-3

Dimensional Drawing of COA-03-1-C-25-3

Features

- COA has a timer that controls its operation and interval time. The control box has a built-in buzzer that sends an alarm when the oil level is low. The control box also has four indicators, operation (ACT), alarm (ALM), immediate lubrication (RUN), and interval (INT).
- COA has to work with CO, OA, or OC type oil-air volume distributors to deliver the metered quantity of oil-air mixture to the lubrication points.
- 3. COA can memorize the set value of operation time and interval time.
- 4. COA has a pressure gauge that enables the user to check the operating pressure easily.
- 5. COA has a NC contact float switch that detects the oil level automatically and sends signals when the oil level is low.
- 6. COA has a pressure-regulating valve that enables the user to adjust the operating pressure.
- COA has a feed-oil button (F button), which can be used as manual oil feeding for less than 3 minutes to avoid overloading the motor.
- 8. COA has an 8kgf/cm2 NC NC contact socket pressure switch that detects the operating pressure.
- The gear pump of COA is made of special aluminum alloy and assembled with the induction motor to provide stable output pressure, low operating noise, and long service life. It meets the requirements of most large machines.

Dimensional Data

Motor Power	Tank Capacity	Tank Material	Length (mm)	Width (mm)	Height (mm)	Mounting Hole Distance (mm)	N.W. (kg)
25111	3L	Resin	230	170	254.5	205	5.10
	4L	Resin	277	162	265.5	250	5.50
25W	4L	Aluminum	297	170	263.5	95x280	6.41
	8L	Iron	355	201	284.5	95x338	9.54
60W	4L	Aluminum	297	170	310.5	95x280	8.15
	8L	Iron	355	201	331.0	95x338	10.55

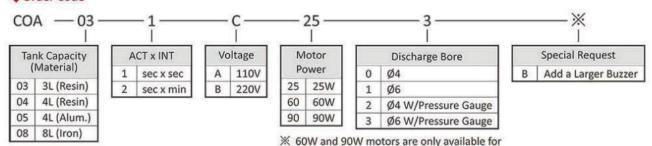
Wiring Diagram

Al	Abnormal Output			Power	
NO(A)	NC(B)	COM	GND(P.E)	POWER	
\oplus	\oplus	\oplus	0	0	0

◆Technical Data

Operation Time		1-99	9 sec		
Interval Time	1	-999 sec,	1-999 mi	n	
Motor Power	25W		60W		
Voltage	110V	220V	110V	220V	
Ampere	0.6A	0.3A	1.2A	0.6A	
Max. Discharge Volume	250cc/min		500cc/min		
Max. Operating Pressure	20kgf/cm ²		30kgf/cm ²		
Hertz		60/60Hz C	Compatible		
Discharge Bore		Ø4,	Ø6		
Float Switch		NC Co			
Pressure Switch		NC Contact			
Suitable Viscosity	(Oil, 32-68	cSt@40°	С	

♦Order Code



Related Products



P. 95



P. 95



P. 96







COA with a 4L metal tank and above.







POM Minimum Quantity Oil Pneumatic Lubricator



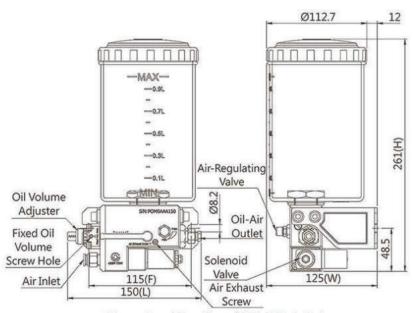




POM-01-1-A-0-SC



POM-50-1-1-0-TC-SC



Dimensional Drawing of POM-35-1-A-0

♦Features

- The discharge volume of POM is precise and can be adjusted from 0.01cc to 0.08cc per stroke.
- POM can be actuated either by a frequency generator or a solenoid valve.
 - The pneumatic pressure supply drives the frequency generator, and the user can adjust each stroke frequency upon demand. The service life is ten million cycles.
 - The input voltage powers the solenoid valve, and the PLC can precisely control its stroke frequency. The solenoid
 valve works as the ON/OFF switch of the pneumatic pressure supply. The service life is two million cycles.
- 3. POM requires 4-8kgf/cm² pneumatic pressure supply to operate.
- 4. The standard POM has one outlet, which can be increased to four on request. Do not plug any outlet of POM.
- POM has an oil volume adjuster for adjusting the discharge volume. The fixed oil volume screw hole secures the oil volume adjuster to prevent its setting from being changed.
- The air-regulating valve can adjust the air volume upon the need. Turn the air-regulating valve clockwise to decrease the air volume and turn it anti-clockwise to increase the air volume.
- All POM lubricators have 80-mesh oil filters. The oil inlet of the 2L-square tank has an additional 40-mesh oil filter to filter the impurities.
- 8. Each outlet of POM can add a reed switch to detect if stroke movements are regular.
- 9. 2L square tank and 2000cc cylindrical tank can add a float switch to detect oil level automatically.
- 10. Recommend using vegetable oil viscosity 22~68cSt@40 °C. Forbid filling cutting fluid and volatile lubricants, such as alcohols and ethylene glycol-based lubricants.

POM Minimum Quantity Oil Pneumatic Lubricator

♦Dimensional Data

		Mounting				Height	(mm)	N.W.	(kg)
Model	Tank Capacity	Hole Distance (mm)	Oil-Air Outlet Number	Length (mm)	Width (mm)	Without Float Switch	With Float Switch	Without Float Switch	With Float Switch
			1		121	247	273	2.3	2.4
DOM 01	2L Square	115	2	100		275	301	2.7	2.8
POM-01 Oil Tank	115	3	169	121	304	330	3.1	3.2	
		4			332	358	3.4	3.6	
			1	150	125	261	7.4	1.5	
POM-35	1000cc Cylindrical	115	2			290		2.0	
POIVI-35	Oil Tank	115	3			318		2.4	
			4			347		2.8	44
			1			346	394	1.7	1.9
POM-50	2000cc Cylindrical	115	2	154	135	374	423	2.1	2.3
POIVI-50	Oil Tank	115	3	154	135	403	451	2.5	2.7
		1 1	4	1		431	480	2.9	3.1

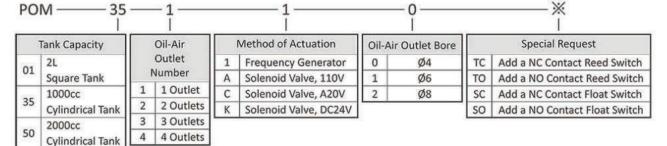
♦Technical Data

Method of Actuation		Frequency Generator				
Voltage	AC110V	(##				
Ampere	0.1A	0.1A	0.2A	**		
Pneumatic Pressure		4-8kgf/cm ²				
Discharge Volume	0.01cc-0.08cc/stroke (Adjustable)					
Air Inlet	Ø8					
01.41-0.41-4	Ø4, Ø6, Ø8					
Oi-Air Outlet	(Ø8 Oil-Air outlet needs to be connected with Ø4xØ8 pipe-in-pipe.)					
Suitable Viscosity	Vegetable Oil, 22-68cSt@40°C					

◆Pressure Chart (Reference Value)

Pneumatic Pressure (kgf/cm²)	4	5	6	7	8
Air Consumption (L/min)	102	127	145	156	160

Order Code



◆Related Products



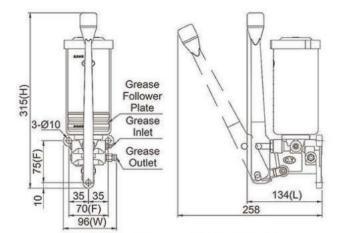
CLHA Resistance Type Grease Manual Lubricator







CLHA-20-R-D-1



Dimensional Drawing of CLHA-20-R-D-1

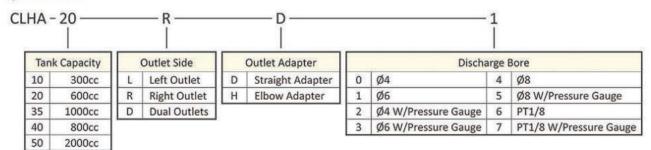
Features

- 1. CLHA discharges grease whenever its handle is pulled and pushed back.
- CLHA has a grease follower plate tightly fit with the grease tank that pushes grease downwards while discharging so no grease remains inside the tank.
- 3. The outlet of CLHA can be on either the right side or the left side of the handle. A dual-outlet model is also available for selection.
- CLHA is suitable for machines that do not require continuous lubrication, such as press machines and woodworking machines.

◆Technical Data & Dimensional Data

Model	Tank Capacity	Mounting Bracket	Length (mm)	Width (mm)	Height (mm)	Mounting Hole Distance (mm)	Max. Discharge Volume	Max. Operating Pressure	Discharge Bore	Suitable Viscosity	N.W. (kg)	
CLHA-10	300cc	X	134	96	315				Ø4		1.08	
CLHA-20	600cc	X	134	96	315				100			1.11
CLHA-35	1000cc	0	166	113	340	70x75	2cc/stroke	Control of the Contro	Ø6	Grease	1.61	
CLHA-40	800cc	Х	134	96	325			Kgf/cm ²	Ø8	NLGI 000-0	1.14	
CLHA-50	2000cc	0	166	130	391				PT1/8		2.09	

♦Order Code



◆Related Products



















P. 85

P. 81

P. 82

P. 83

P. 109

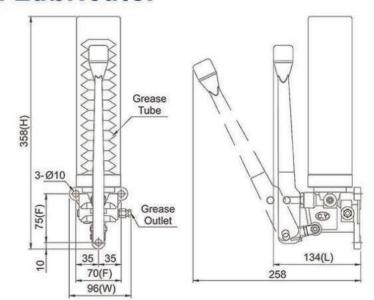
P. 111

P. 129

P. 124

CLHA-25 Resistance Type Grease Tube Manual Lubricator





CLHA-25-R-D-1-A with Grease Tube

Dimensional Drawing of CLHA-25-R-D-1-A with Grease Tube

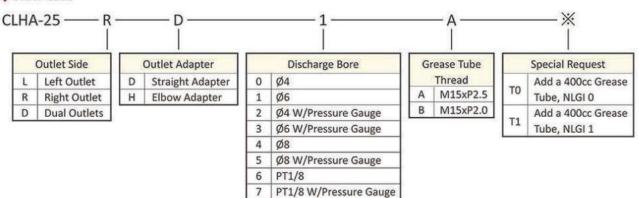
Features

- 1. CLHA-25 discharges grease whenever its handle is pulled and pushed back.
- 2. The outlet of CLHA-25 can be on either the right side or the left side of the handle. A dual-outlet model is also available for selection.
- 3. CLHA-25 works with a 400cc disposable grease tube. When the grease is empty, replace CLHA-25 with a new grease tube. Standard CLHA-25 does not include a grease tube but is available upon request.
- 4. CLHA-25 has a protective cover that prevents the grease tube from being damaged.
- 5. CLHA-25 is suitable for machines that do not require continuous lubrication, such as press machines and woodworking machines.

Technical Data & Dimensional Data

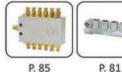
Model	Effective Capacity	Length (mm)	Width (mm)	Height (mm)	Mounting Hole Distance (mm)	Max. Discharge Volume	Max. Operating Pressure	Discharge Bore	Suitable Viscosity	N.W. (kg)
CLHA-25	400cc Grease Tube	134	96	358	70x75	2cc/stroke	100 Kgf/cm²	Ø4 Ø6 Ø8 PT1/8	Grease NLGI 0, 1	1.06

Order Code



The 400cc grease cartridges we supply are for the CLHA-25 models, and the grease tube thread is M15xP2.5.

Related Products









P. 83







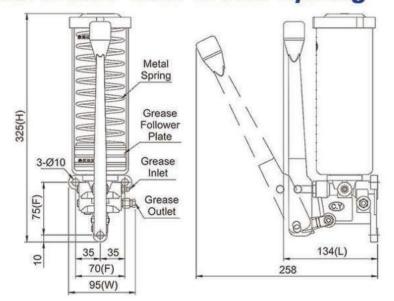




CLHP Resistance Type Grease Manual Lubricator with Metal Spring







Dimensional Drawing of CLHP-40-R-D-1

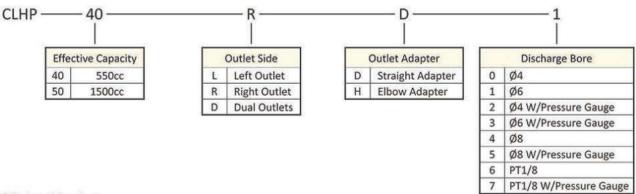
◆Features

- 1. CLHP discharges grease whenever its handle is pulled and pushed back.
- 2. The outlet of CLHP can be on either the right side or the left side of the handle. A dual-outlet model is also available for selection.
- 3. CLHP has a metal spring inside its grease tank, enabling it to work with thicker grease of the viscosity NLGI 1 and NLGI 2. Please refill grease from the grease inlet of CLHP to prevent air and impurities from entering the grease tank.
- 4. CLHP has a grease follower plate tightly fit with the grease tank that pushes grease downwards while discharging so no grease remains inside the tank.
- CLHP is suitable for machines that do not require continuous lubrication, such as press machines and woodworking machines.

▶ Technical Data & Dimensional Data

Model	Effective Capacity	Length (mm)	Width (mm)	Height (mm)	Mounting Hole Distance (mm)	Max. Discharge Volume	Max. Operating Pressure	Discharge Bore	Suitable Viscosity	N.W. (kg)	
CLHP-40	550cc	134	96	325		70.75	2-/	100	Ø4 Ø6	Grease	1.50
CLHP-50	1500cc	166	130	391	70x75	2cc/stroke	Kgf/cm²	Ø8 PT1/8	NLGI 1, 2	2.82	

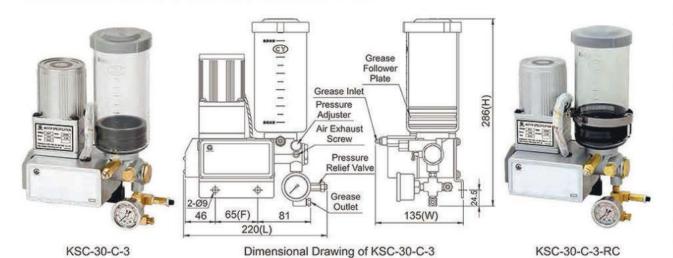
♦Order Code



♦Related Products



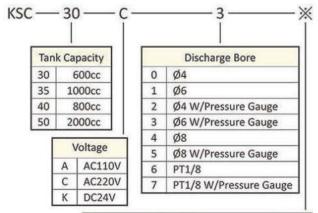
KSC Resistance Type PLC Grease Electric Lubricator



◆Features

- 1. The operation and interval time of KSC are controlled by PLC.
- 2. KSC has a pressure gauge that enables the user to check the operating pressure easily.
- 3. A magnetic level switch can be added to KSC on request to detect the grease level automatically.
- 4. Please refill grease from the grease inlet of KSC to prevent air and impurities from entering the grease tank.

♦Order Code



Special Request						
RC	Add a NC Contact Magnetic Level Switch					
RO	Add a NO Contact Magnetic Level Switch					

♦ Dimensional Data

Model	Tank Capacity	Length (mm)	Width (mm)	Height (mm)	Mounting Hole Distance (mm)	N.W. (kg)
KSC-30	600cc	220	135	286		3.68
KSC-35	1000cc	220	161	301	CF	4.19
KSC-40	800cc	220	135	340	65	3.71
KSC-50	2000cc	220	161	386		4.36

♦Wiring Diagram

AC110V, AC220V	DC24V
M — — — — — — — — — — — — — — — — — — —	Green Red
Power—	+ Power -

◆Technical Data

Voltage	AC110V	AC220V	DC24V		
Motor Power	15W	15W	20W		
Ampere	0.5A	0.2A	0.4A		
Hertz	50/60Hz C	ompatible			
Max. Discharge Volume	15cc/min				
Max. Operating Pressure	150kgf/cm ²				
Discharge Bore	Ø4, Ø6, Ø8, PT1/8				
Suitable Viscosity	Grease, NLGI 000-0				

◆Related Products



P. 85



P. 81



P. 82



P. 83



P. 109



P. 111





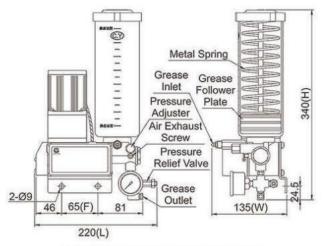
P. 124



KSCP Resistance Type PLC Grease Electric Lubricator with Metal Spring



KSCP-40-C-3

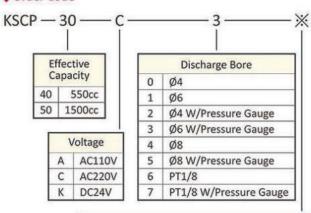


Dimensional Drawing of KSCP-40-C-3

◆Features

- 1. The operation and interval time of KSCP are controlled by PLC.
- 2. KSCP has a pressure gauge that enables the user to check the operating pressure easily.
- 3. KSCP has a metal spring inside its grease tank, enabling it to work with thicker grease of the viscosity NLGI 1 and NLGI 2.
- 4. A magnetic level switch can be added to KSCP on request to detect the grease level automatically.
- 5. Please refill grease from the grease inlet of KSCP to prevent air and impurities from entering the grease tank.

Order Code

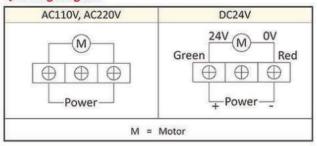


	Special Request
RC	Add a NC Contact Magnetic Level Switch
RO	Add a NO Contact Magnetic Level Switch

♦Dimensional Data

Model	Effective Capacity	Length (mm)	Width (mm)	Height (mm)	Mounting Hole Distance (mm)	N.W. (kg)
KSCP-40	550cc	220	135	340	CE	4.33
KSCP-50	1500cc	220	161	386	65	5.55

Wiring Diagram



◆Technical Data

Voltage	AC110V	AC220V	DC24V		
Motor Power	15W	15W	20W		
Ampere	0.5A	0.2A	0.4A		
Hertz	50/60Hz C	compatible	**		
Max. Discharge Volume	15cc/min				
Max. Operating Pressure	150kgf/cm ²				
Discharge Bore	Ø4, Ø6, Ø8, PT1/8				
Suitable Viscosity	Grease, NLGI 1, 2				

♦ Related Products













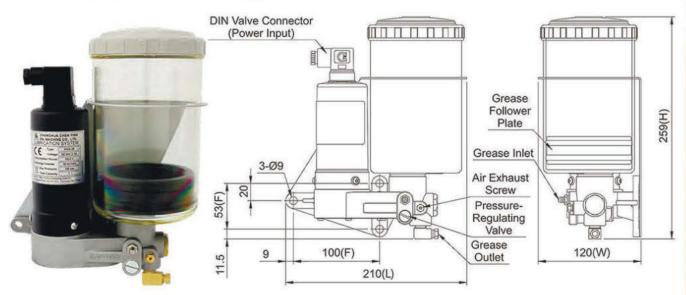
P. 111







KGA / KGAP Resistance Type PLC Grease Electric Lubricator

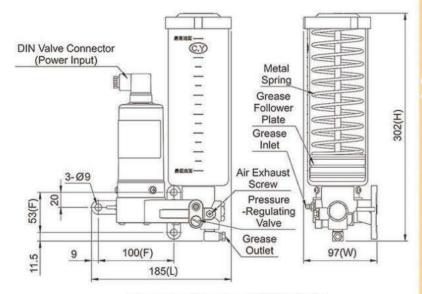


KGA-35-K-1

Dimensional Drawing of KGA-35-K-1



KGAP-40-K-1



Dimensional Drawing of KGAP-40-K-1

Features

- 1. The operation and interval time of KGA and KGAP are controlled by PLC.
- 2. A magnetic level switch can be added to KGA and KGAP on request to detect the grease level automatically.
- 3. Please refill grease from the grease inlet of KGA and KGAP to prevent air and impurities from entering the grease tank.
- KGAP has a metal spring inside its grease tank, enabling it to work with thicker grease viscosity NLGI 1 and NLGI 2, while KGA is only available for NLGI 000 to 0.

◆Dimensional Data (KGA)

Model	Tank Capacity	Length (mm)	Width (mm)	Height (mm)	Mounting Hole Distance (mm)	N.W. (kg)
KGA-30	600cc	185	97	247		1.69
KGA-40	800cc	185	97	302	100x53	1.71
KGA-35	1000cc	210	120	259		2.12

◆Dimensional Data (KGAP)

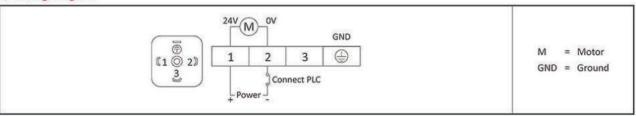
Model	Effective Capacity	Length (mm)	Width (mm)	Height (mm)	Mounting Hole Distance (mm)	N.W. (kg)
KGAP-40	550cc	185	97	302	100x53	2.07

KGA / KGAP Resistance Type PLC Grease Electric Lubricator

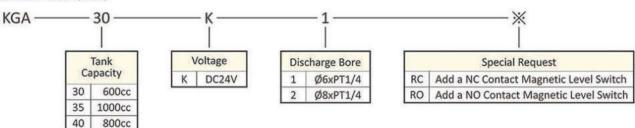
◆Technical Data

Motor Power	Voltage	Ampere	Max. Discharge Volume	Max. Operating Pressure	Discharge Bore	Suitable Viscosity
35±3W	DC24V	2.1A	16cc/min	150kgf/cm²	Ø6, Ø8	KGA: Grease, NLGI 000-0 KGAP: Grease, NLGI 1, 2

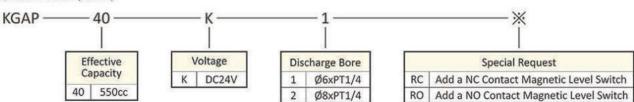
Wiring Diagram



◆Order Code (KGA)



◆Order Code (KGAP)



◆Related Products



KGC / KGCP Resistance Type PLC Grease Electric Lubricator



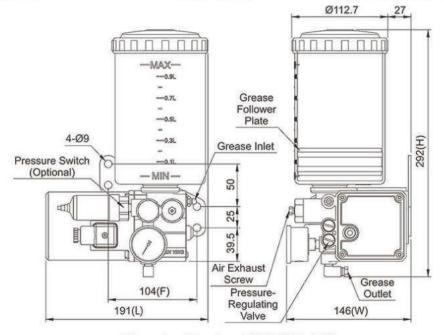




KGC-35-C-3

KGCP-50-C-3

KGCP-07-C-3 with Grease Cartridge



♦Features

Dimensional Drawing of KGC-35-C-3-PC

- 1. The operation and interval time of KGC and KGCP are controlled by PLC.
- 2. KGC and KGCP have pressure gauges that enables the users to check the operating pressure easily.
- 1Ø110V, 1Ø220V, and DC24V models have feed-grease buttons, which can be used as manual grease feeding for less than 3 minutes to avoid overloading the motor.
- 1Ø110V and 1Ø220V models have thermal controls that will shut down the motors for about 5 minutes when the motors
 are overheated.
- A 60kgf/cm² socket pressure switch can be added to KGC and KGCP on request to detect the operating pressure automatically.
- 6. A magnetic level switch can be added to KGC and KGCP on request to detect the grease level automatically.
- 7. For KGC and KGCP-50, refill grease from the grease inlet to prevent air and impurities from entering the grease tank.
- 8. KGCP-07 works with a 700cc disposable grease cartridge. When the grease is empty, replace KGCP-07 with a new grease cartridge. Standard KGCP-07 does not include a grease cartridge but is available upon request.

◆Dimensional Data (KGC)

Model	Tank Capacity	Length (mm)	Width (mm)	Height (mm)	Mounting Hole Distance (mm)	N.W. (kg)
KGC-35	1000cc	191	146	292	104	4.07
KGC-50	2000cc	198	104		104	4.55

Dimensional Data (KGCP)

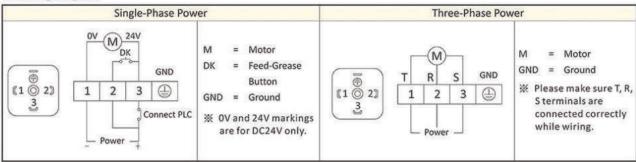
Model	Effective Capacity	Length (mm)	Width (mm)	Height (mm)	Mounting Hole Distance (mm)	N.W. (kg)
KGCP-50	1500cc	198	151	376	101	5.55
KGCP-07	700cc Grease Cartridge	700cc Grease Cartridge 195		298	104	4.12

KGC / KGCP Resistance Type PLC Grease Electric Lubricator

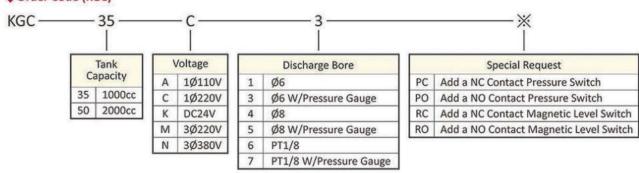
◆Technical Data

Voltage	1Ø110V	1Ø220V	3Ø220V	3Ø380V	DC24V		
Motor Output	60W	80W	60W	60W	60W		
Ampere	1.80A	1.00A	1.00A	1.00A	1.65A		
Feed-Grease Button	0	0	X	X	0		
Motor Thermal Control	0	0	X	X	X		
Hertz		50/60Hz Compatible					
Max. Discharge Volume		30cc/min					
Max. Operating Pressure			100kgf/cm ²				
Discharge Bore			Ø6, Ø8, PT1/8				
	KGC: Grease, NLGI 000-0						
Suitable Viscosity	KGCP-50: Grease, NLGI 1, 2						
	KGCP-07: Grease, NLGI 000-1						

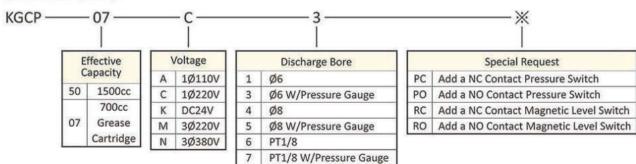
♦Wiring Diagram



♦Order Code (KGC)



♦ Order Code (KGCP)



💥 Please refer to the 700cc Grease Cartridge catalog if you need to purchase one.

◆Related Products



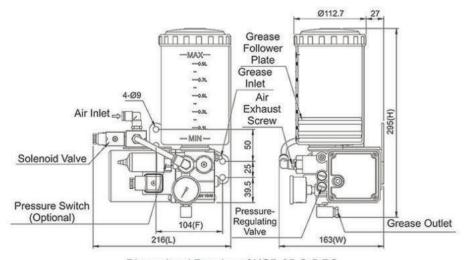
KGB / KGBP Pressure-Relief Type PLC Grease Electric Lubricator







KGBP-07-C-5 with Grease Cartridge



Dimensional Drawing of KGB-35-C-5-PC

◆Features

- The operation and interval time of KGB and KGBP are controlled by PLC. KGB and KGBP require 4.5-8kgf/cm² pneumatic
 pressure supply for the pressure-relief function.
- 2. KGB and KGBP have to work with CFB volume type grease distributors to deliver the metered quantity of grease to the lubrication points.
- 3. KGB and KGBP have pressure gauges that enable the user to check the operating pressure easily.
- KGB and KGBP have feed-grease buttons, which can be used as manual grease feeding for less than 3 minutes to avoid overloading the motor.
- 1Ø110V and 1Ø220V models have thermal controls that will shut down the motors for about 5 minutes when the motor is overheated.
- A 60kgf/cm² socket pressure switch can be added to KGB and KGBP on request to detect the operating pressure automatically.
- 7. A magnetic level switch can be added to KGB and KGBP on request to detect the grease level automatically.
- 8. For KGB, refill grease from the grease inlet to prevent air and impurities from entering the grease tank.
- KGBP-07 works with a 700cc disposable grease cartridge. When the grease is empty, replace KGBP-07 with a new grease cartridge. Standard KGBP-07 does not include a grease cartridge but is available upon request.

◆Dimensional Data (KGB)

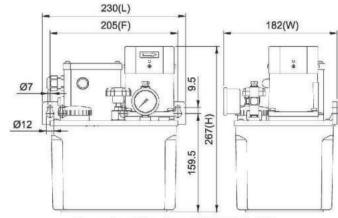
Model	Tank Capacity	Length (mm)	Width (mm)	Height (mm)	Mounting Hole Distance (mm)	N.W. (kg)
KGB-35	1000cc	216	163	295	104	4.37
KGB-50	2000cc	224	163	380	104	5.85

◆Dimensional Data (KGBP)

Model	Effective Capacity	Length (mm)	Width (mm)	Height (mm)	Mounting Hole Distance (mm)	N.W. (kg)
KGBP-07	700cc Grease Cartridge	220	163	302	104	4.42

KGV Resistance Type PLC Fluid Grease Electric Lubricator





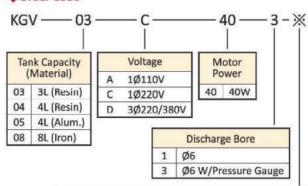
Features

KGV-03-C-40-3

Dimensional Drawing of KGV-03-C-40-3

- 1. The operation and interval time of KGV are controlled by PLC.
- 2. KGV has a pressure-regulating valve that enables the user to adjust the operating pressure.
- 3. KGV has a feed-grease button, which can be used as manual grease feeding for less than 3 minutes to avoid overloading the motor.
- 4. A 20kgf/cm2 socket pressure switch can be added to KGV on request to detect the operating pressure automatically.
- 5. A capacitive level switch can be added to KGV on request to detect the grease level automatically.
- The gear pump of KGV is made of special aluminum alloy and assembled with a 40W induction motor to provide stable output pressure, low operating noise, and long service life.
- 7. The induction motor has a fan that can reduce the temperature and prolong the service life of KGV.

Order Code



	Special Request
PC	Add a NC Contact Pressure Switch
PO	Add a NO Contact Pressure Switch
	Add a PNP, NO Contact Capacitive Level Switch

Dimensional Data

Tank Capacity	Tank Material	Length (mm)	Width (mm)	Height (mm)	Mounting Hole Distance (mm)	N.W. (kg)
3L	Resin	230	182	267	205	5.09
4L	Resin	288	162	278	250	5.69
4L	Alum.	297	170	276	95x280	6.64
8L	Iron	355	201	299	95x338	9.39

♦Technical Data

Voltage	1Ø110V	1Ø220V	3Ø220/380V	
Ampere	0.75A	0.50A	0.40A	
Motor Power	40W		1	
Hertz	50/60Hz Compatible			
Max. Discharge Volume	170cc/min			
Max. Operating Pressure	40kgf/cm²			
Discharge Bore		Ø6		
	Grease, NLGI 000, 00			
Suitable Viscosity		is suitable 3L resin t	for the mode	

Wiring Diagram

Single-Phase Power	Three-Phase Power	BU = Blue
WS + DS BU BK BN 2 3 4 5 6 7 8 9	WS	BU = Blue BK = Black BN = Brown M = Motor GND = Ground DK = Feed-Grease Button
To Pic Load Power OV 24V	Power D.oad	DS = Pressure Switch (Available on request) WS = Capacitive Level Switch (PNP, Available on request)

A standard dual-voltage motor is connected for low voltage. Please specify if you need it to be connected for high voltage when placing an order.

◆Related Products



















P. 85

P. 81

P. 82

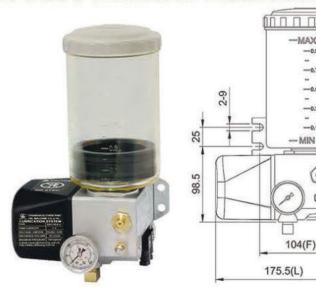
P. 83

P. 109

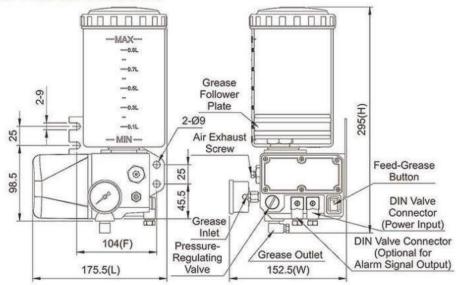
P. 129

P. 124

KAC / KACP Resistance Type PLC Grease Electric Lubricator



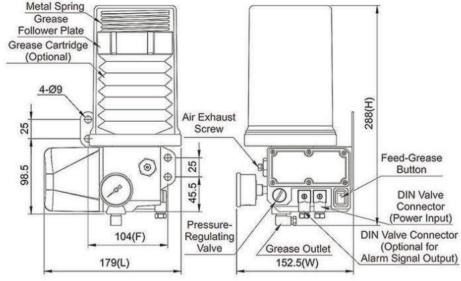
KAC-35-K-3-PC-RC



Dimensional Drawing of KAC-35-K-3-PC-RC



KACP-07-K-3-PC-RC with Grease Cartridge



Dimensional Drawing of KACP-07-K-3-PC-RC with Grease Cartridge

♦Features

- 1. The operation and interval time of KAC and KACP are controlled by PLC.
- 2. KAC and KACP have pressure gauges that enable the users to check the operating pressure easily.
- KAC and KACP have feed-grease buttons, which can be used as manual grease feeding for less than 3 minutes to avoid overloading the motor.
- A 60kgf/cm² socket pressure switch can be added to KAC and KACP on request to detect the operating pressure automatically.
- 5. A magnetic level switch can be added to KAC and KACP on request to detect the grease level automatically.
- 6. For KAC, refill grease from the grease inlet to prevent air and impurities from entering the grease tank.
- KACP-07 works with a 700cc disposable grease cartridge. When the grease is empty, replace KACP-07 with a new grease cartridge. Standard KACP-07 does not include a grease cartridge but is available upon request.

Dimensional Data (KAC)

Model	Tank Capacity	Length (mm)	Width (mm)	Height (mm)	Mounting Hole Distance (mm)	N.W. (kg)
KAC-40	800cc	172.0	152.5	338		2.12
KAC-35	1000cc	175.5	152.5	295	104	2.21
KAC-50	2000cc	182.5	152.5	379		2.55

◆Dimensional Data (KACP)

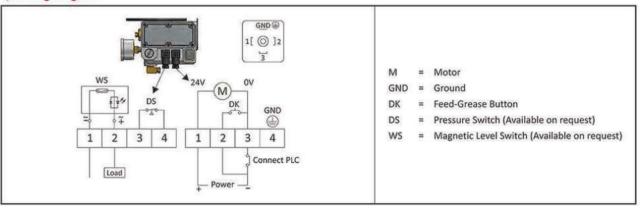
Model	Effective Capacity	Length (mm)	Width (mm)	Height (mm)	Mounting Hole Distance (mm)	N.W. (kg)
KACP-07	700cc Grease Cartridge	179.0	152.5	288	104	2.29

KAC / KACP Resistance Type PLC Grease Electric Lubricator

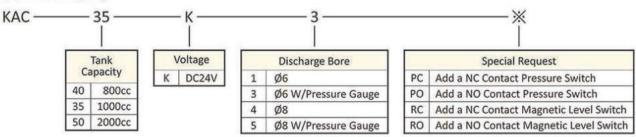
◆Technical Data

Motor Power	Voltage	Ampere	Max. Discharge Volume	Max. Operating Pressure	Discharge Bore	Suitable Viscosity
35±3W	DC24V	3.0A	10cc/min	100kgf/cm ²	Ø6, Ø8	Grease, NLGI 000-0

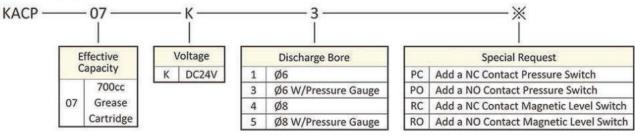
Wiring Diagram



◆Order Code (KAC)



Order Code (KACP)

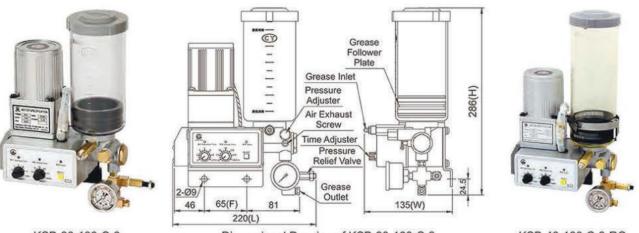


※ Please refer to the 700cc Grease Cartridge catalog if you need to purchase one.

◆Related Products



KSB Resistance Type Timer Grease Electric Lubricator



KSB-30-180-C-3

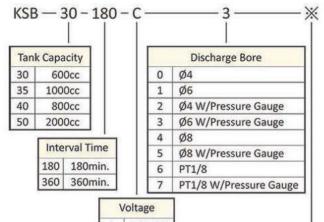
Dimensional Drawing of KSB-30-180-C-3

KSB-40-180-C-3-RC

♦Features

- 1. KSB has a timer that controls its operation and interval time.
- 2. KSB has a pressure gauge that enables the user to check the operating pressure easily.
- 3. A magnetic level switch can be added to KSB on request to detect the grease level automatically.
- 4. Please refill grease from the grease inlet of KSB to prevent air and impurities from entering the grease tank.

♦Order Code



L	Α	AC110V	
Г	C	AC220V	
	K	DC24V	
		S	pecial Request
DC		Add - NCC	antant Magnatia Laval Curital

	Special Request
RC	Add a NC Contact Magnetic Level Switch
RO	Add a NO Contact Magnetic Level Switch

♦Wiring Diagram

AC110V, AC220V	DC24V
M — — — — — — — — — — — — — — — — — — —	Green Rec
Power—	+ Power -

♦ Dimensional Data

Model	Tank Capacity	Length (mm)	Width (mm)	Height (mm)	Mounting Hole Distance (mm)	N.W. (kg)
KSB-30	600cc	220	135	286		3.70
KSB-35	1000cc	220	161	301		4.25
KSB-40	800cc	220	135	340	65	3.73
KSB-50	2000cc	220	161	386		4.82

◆Technical Data

Operation Time	3 sec. to 12 min.				
Interval Time	1-180 min., 1-360 min.				
Voltage	AC110V	AC220V	DC24V		
Motor Power	15W	15W	20W		
Ampere	0.5A	0.2A	0.4A		
Hertz	50/60Hz Compatible				
Max. Discharge Volume		15cc/min			
Max. Operating Pressure		150kgf/cm ²			
Discharge Bore	Ø4, Ø6, Ø8, PT1/8				
Suitable Viscosity	Gre	ase, NLGI 00	0-0		

◆Related Products



P. 85













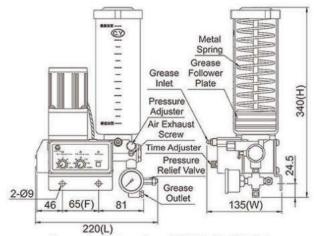




KSBP Resistance Type Timer Grease Electric Lubricator with Metal Spring



KSBP-40-180-C-3

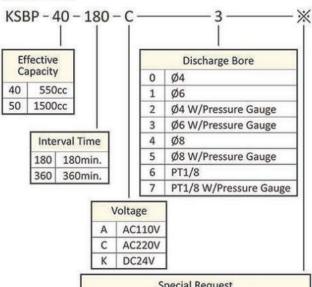


Dimensional Drawing of KSBP-40-180-C-3

Features

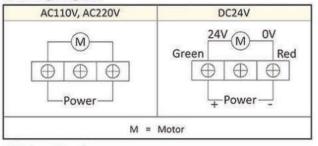
- 1. KSBP has a timer that controls its operation and interval time.
- 2. KSBP has a pressure gauge that enables the user to check the operating pressure easily.
- 3. KSBP has a metal spring inside its grease tank, enabling it to work with thicker grease of the viscosity NLGI 1 and NLGI 2.
- 4. A magnetic level switch can be added to KSBP on request to detect the grease level automatically.
- 5. Please refill grease from the grease inlet of KSBP to prevent air and impurities from entering the grease tank.

♦Order Code



	Special Request
RC	Add a NC Contact Magnetic Level Switch
RO	Add a NO Contact Magnetic Level Switch

♦Wiring Diagram



Dimensional Data

Model	Effective Capacity	Length (mm)	Width (mm)	Height (mm)	Mounting Hole Distance (mm)	N.W. (kg)
KSBP-40	550cc	220	135	340	C.F.	4.10
KSBP-50	1500cc	220	161	386	65	5.47

◆Technical Data

Operation Time	3 sec. to 12 min. 1-180 min., 1-360 min.					
Interval Time						
Voltage	AC110V	AC220V	DC24V			
Motor Power	15W	15W	20W			
Ampere	0.5A	0.2A	0.4A			
Hertz	50/60Hz C	22				
Max. Discharge Volume	15cc/min					
Max. Operating Pressure 150kgf/cm ²						
Discharge Bore	Ø4, Ø6, Ø8, PT1/8					
Suitable Viscosity	Grease, NLGI 1, 2					

♦ Related Products



















P. 111

P. 129

P. 124

P. 123

KGN / KGNP Resistance Type Timer Grease Electric Lubricator







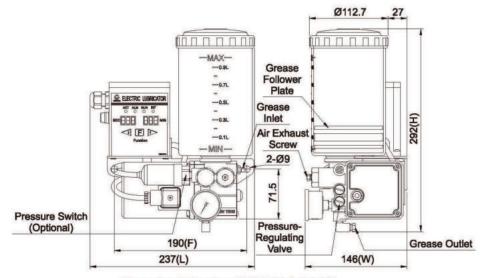




KGN-35-2-C-3-PC

KGN-50-2-C-3

KGNP-07-2-C-3 with Grease Cartridge



Dimensional Drawing of KGN-35-2-C-3-PC

Features

- 1. KGN and KGNP have timers that control the operation and interval time.
- 2. There are four indicators on the control box, operation (ACT), alarm (ALM), immediate lubrication (RUN), and interval
- 3. KGN and KGNP have pressure gauges that enable the users to check the operating pressure easily.
- KGN and KGNP have feed-grease buttons (F button), which can be used as manual grease feeding for less than 3 minutes to avoid overloading the motor.
- 5. KGN and KGNP have thermal controls that shut down the motor for about 5 minutes when the motor is overheated.
- A 60kgf/cm² socket pressure switch can be added to KGN and KGNP on request to detect the operating pressure automatically.
- 7. A magnetic level switch can be added to KGN and KGNP on request to detect the grease level automatically.
- The lubricator, which adds a pressure switch or a magnetic level switch, has abnormal pressure or low grease level; the build-in buzzer of the control box will send an alarm sound.
- 9. Please refill grease from the grease inlet to prevent air and impurities from entering the grease tank.
- 10.KGNP-07 works with a 700cc disposable grease cartridge. When the grease is empty, replace KGNP-07 with a new grease cartridge. Standard KGCP-07 does not include a grease cartridge but is available upon request.

◆Dimensional Data (KGN)

Model	Tank Capacity	Length (mm)	Width (mm)	Height (mm)	Mounting Hole Distance (mm)	N.W. (kg)
KGN-35	1000cc	237	146	292	100	4.65
KGN-50	2000cc	245	151	376	190	5.11

◆Dimensional Data (KGNP)

Model	Effective Capacity	Length (mm)	Width (mm)	Height (mm)	Mounting Hole Distance (mm)	N.W. (kg)
KGNP-50	1500cc	245	151	376	100	6.11
KGNP-07	700cc Grease Cartridge	241	156	298	190	4.70

KGN / KGNP Resistance Type Timer Grease Electric Lubricator

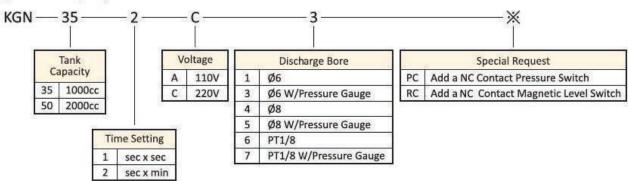
◆Technical Data

Operation Time	1-99	9 sec.			
Interval Time	1-999 sec., 1-999 min.				
Voltage	110V	220V			
Motor Output	60W	80W			
Ampere	1.8A	1.0A			
Hertz	50/60Hz C	ompatible			
Max. Discharge Volume	30cc/min				
Max. Operating Pressure	100kgf/cm ²				
Discharge Bore	Ø6, Ø8	, PT1/8			
	KGN: Grease	, NLGI 000-0			
Suitable Viscosity	KGNP-50: Grease, NLGI 1, 2				
American part - Consequent and Chapping	KGNP-07: Grease, NLGI 000-1				

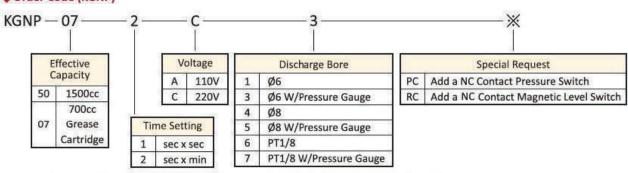
♦Wiring Diagram

Al	onormal Outp	Ground	Pov	wer	
NO(A)	NC(B)	COM	GND(P.E)	POWER	
A	A	Ф	A	A	A

Order Code (KGN)



♦Order Code (KGNP)



Please refer to the 700cc Grease Cartridge catalog if you need to purchase one.

Related Products





P. 81









P. 111



P. 80



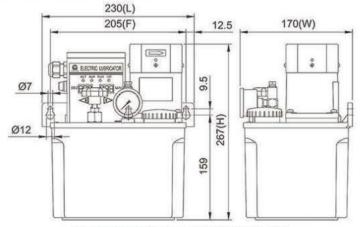
P. 124



KGNV Resistance Type Timer Fluid Grease Electric Lubricator



KGNV-03-C-40-3

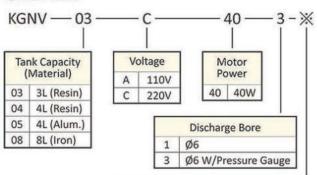


Dimensional Drawing of KGNV-03-C-40-3

Features

- 1. KGNV has a timer that controls the operation and interval time.
- There are four indicators on the control box, operation (ACT), alarm (ALM), immediate lubrication (RUN), and interval (INT).
- 3. KGNV has a pressure-regulating valve that enables the user to adjust the operating pressure.
- KGNV has a feed-grease button (F button), which can be used as manual grease feeding for less than 3 minutes to avoid overloading the motor.
- 5. A 20kgf/cm² socket pressure switch can be added to KGNV on request to detect the operating pressure automatically.
- The gear pump of KGNV is made of special aluminum alloy and assembled with a 40W induction motor to provide stable output pressure, low operating noise, and long service life.
- 7. The induction motor has a fan that can reduce the temperature and prolong the service life of KGNV.

♦Order Code



	Special Request
PC	Add a NC Contact Pressure Switch

Wiring Diagram

Al	onormal Outp	Ground	Power			
NO(A)	NC(B)	COM	GND(P.E)	POWER		
A	(\oplus	(A)	(1)	A	

♦Dimensional Data

Tank Capacity	Tank Material	Length (mm)	Width (mm)	Height (mm)	Mounting Hole Distance (mm)	N.W. (kg)
3L	Resin	230	170	267	205	5.25
4L	Resin	277	162	278	250	5.85
4L	Alum.	297	170	276	95x280	6.85
8L	Iron	355	201	299	95x338	9.59

◆Technical Data

Operation Time	1-99	9 sec.			
Interval Time	1-999 min.				
Voltage	110V	220V			
Ampere	0.75A	0.50A			
Motor Power	40	OW .			
Hertz	50/60Hz Compatible				
Max. Discharge Volume	170cc/min				
Max. Operating Pressure	40kgf/cm ²				
Discharge Bore	Ø6				
	Grease, NLGI 000, 00				
Suitable Viscosity	(NLGI 00 is suitable for the model				
	with 3L resin tank only.)				

◆Related Products



P. 85



P. 81



P. 82





P. 109



P. 111



P. 115

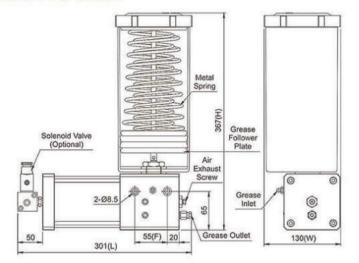




MAG Resistance Type Grease Pneumatic Lubricator



MAG-50-0-1-A



Dimensional Drawing of MAG-50-0-1-A

♦Features

- 1. The operation and interval time of MAG are controlled pneumatically.
- A solenoid valve can be added as a switch for the pneumatic pressure supply to control the ON/OFF switch of MAG upon request.
- 3. The operation time (ON) should be set up as 25 seconds, and the interval time (OFF) should be set up as 5 seconds to complete one operation cycle.
- 4. MAG requires 4-8kgf/cm² pneumatic pressure supply to have the corresponding 117-290kgf/cm² operating pressure. It can meet different pressure requirements and applications.
- 5. Please refill grease from the grease inlet to prevent air and impurities from entering the grease tank.

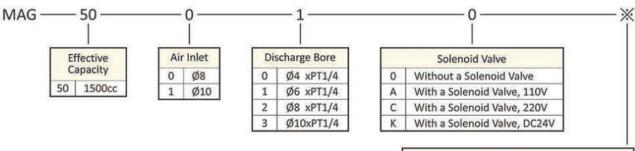
◆Technical Data & Dimensional Data

Effective Capacity	Length (mm)	Width (mm)	Height (mm)	Mounting Hole Distance (mm)	Operation Time	Interval Time	Discharge Volume	Grease Inlet	Air Inlet	Discharge Bore	Suitable Viscosity	N.W. (kg)
1500cc	292 309	130	367	55	Over 25 sec.	Over 5 sec.	About 2.5 cc/stroke	Ø8 Ø10	PT1/8 Grease Nipple	Ø4 Ø6 Ø8 Ø10	Grease NLGI 000-2	1.08

Pressure Chart (Reference Value)

Pneumatic Pressure (kgf/cm²)	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0
Operating Pressure (kgf/cm²)	117	140	160	181	201	222	242	265	290

♦Order Code



	Special Request
G	Add a Pressure Gauge
RC	Add a NC Contact Magnetic Level Switch
RO	Add a NO Contact Magnetic Level Switch

Related Products





P. 81



P. 82







P. 111





P. 124



P. 123

68

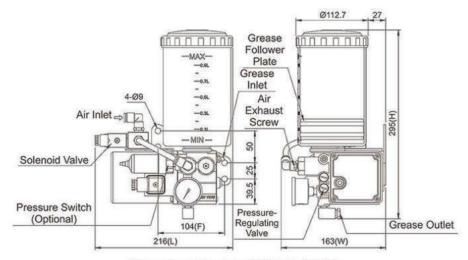
KGB / KGBP Pressure-Relief Type PLC Grease Electric Lubricator







KGBP-07-C-5 with Grease Cartridge



Dimensional Drawing of KGB-35-C-5-PC

Features

- The operation and interval time of KGB and KGBP are controlled by PLC. KGB and KGBP require 4.5-8kgf/cm² pneumatic
 pressure supply for the pressure-relief function.
- 2. KGB and KGBP have to work with CFB volume type grease distributors to deliver the metered quantity of grease to the lubrication points.
- 3. KGB and KGBP have pressure gauges that enable the user to check the operating pressure easily.
- KGB and KGBP have feed-grease buttons, which can be used as manual grease feeding for less than 3 minutes to avoid overloading the motor.
- 1Ø110V and 1Ø220V models have thermal controls that will shut down the motors for about 5 minutes when the motor is overheated.
- A 60kgf/cm² socket pressure switch can be added to KGB and KGBP on request to detect the operating pressure automatically.
- 7. A magnetic level switch can be added to KGB and KGBP on request to detect the grease level automatically.
- 8. For KGB, refill grease from the grease inlet to prevent air and impurities from entering the grease tank.
- 9. KGBP-07 works with a 700cc disposable grease cartridge. When the grease is empty, replace KGBP-07 with a new grease cartridge. Standard KGBP-07 does not include a grease cartridge but is available upon request.

◆Dimensional Data (KGB)

Model	Tank Capacity	Length (mm)	Width (mm)	Height (mm)	Mounting Hole Distance (mm)	N.W. (kg)
KGB-35	1000cc	216	163	295	104	4.37
KGB-50	2000cc	224	163	380	104	5.85

Dimensional Data (KGBP)

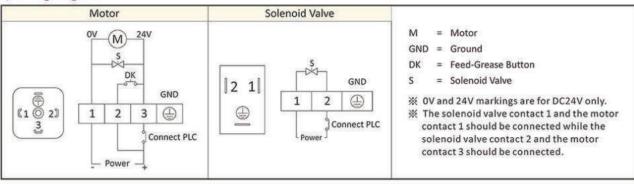
Model	Effective Capacity	Length (mm)	Width (mm)	Height (mm)	Mounting Hole Distance (mm)	N.W. (kg)
KGBP-07	700cc Grease Cartridge	220	163	302	104	4.42

KGB / KGBP Pressure-Relief Type PLC Grease Electric Lubricator

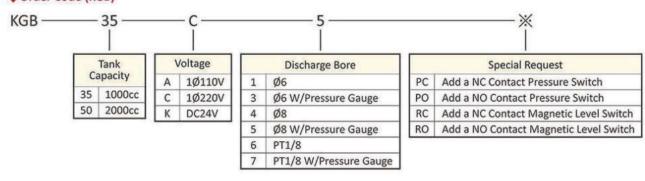
◆Technical Data

Voltage	AC110V	AC220V	DC24V		
Motor Output	60W	80W	60W		
Motor Ampere	1.8A	1.0A	1.65A		
Solenoid Valve Ampere	0.1 A	0.1 A	0.2A		
Hertz	50/60Hz Compatible				
Max. Discharge Volume	30cc/min		35cc/min		
Max. Operating Pressure	100kgf/cm ²				
Discharge Bore	Ø6, Ø8, PT1/8				
Cuitable Manaday	KGB: Grease, NLGI 000-0 KGBP-07: Grease, NLGI 000-1				
Suitable Viscosity					

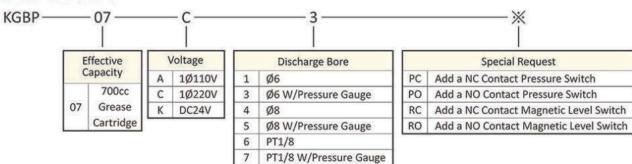
♦Wiring Diagram



♦Order Code (KGB)



♦Order Code (KGBP)



💥 Please refer to the 700cc Grease Cartridge catalog if you need to purchase one.

♦Related Products

















P. 125



70

P. 124

P. 123

P. 129

KAB / KABP Pressure-Relief Type PLC Grease Electric Lubricator

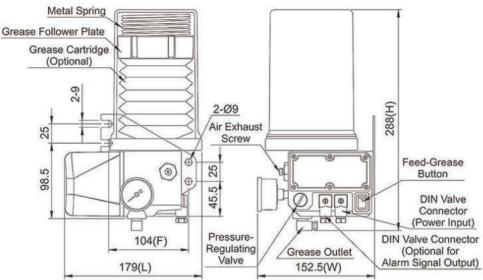


MARIA PARTITION -MAX--0.9L -0.71 Grease Follower Plate 295(H) 2-Ø9 -0.1L 25 MIN-Air Exhaust Screw Feed-Grease 25 5 (0) Button 98 2 **DIN Valve** 45. 0 0 Connector (Power Input) Grease Inlet **DIN Valve Connector** 104(F) Pressure-(Optional for **Grease Outlet** Regulating Alarm Signal Output) 175.5(L) 152.5(W) Valve

KAB-35-K-3-PC-RC

Dimensional Drawing of KAB-35-K-3-PC-RC





KABP-07-K-3-PC-RC

Dimensional Drawing of KABP-07-K-3-PC-RC with Grease Cartridge

Features

- 1. The operation and interval time of KAB and KABP are controlled by PLC.
- KAB and KABP have to work with CFB volume type grease distributors to deliver the metered quantity of grease to the lubrication points.
- 3. KAB and KABP have pressure gauges that enable the users to check the operating pressure easily.
- KAB and KABP have feed-grease buttons, which can be used as manual grease feeding for less than 3 minutes to avoid overloading the motor.
- A 60kgf/cm² socket pressure switch can be added to KAB and KABP on request to detect the operating pressure automatically.
- 6. A magnetic level switch can be added to KAB and KABP on request to detect the grease level automatically.
- 7. For KAB, please refill grease from the grease inlet to prevent air and impurities from going into the grease tank.
- 8. KABP-07 works with a 700cc disposable grease cartridge. When the grease is empty, replace KABP-07 with a new grease cartridge. Standard KABP-07 does not include a grease cartridge but is available upon request.

◆Dimensional Data (KAB)

Model	Tank Capacity	Length (mm)	Width (mm)	Height (mm)	Mounting Hole Distance (mm)	N.W. (kg)
KAB-40	800cc	172.0	152.5	338		2.32
KAB-35	1000cc	175.5	152.5	295	104	2.41
KAB-50	2000cc	182.5	152.5	379		2.74

Dimensional Data (KABP)

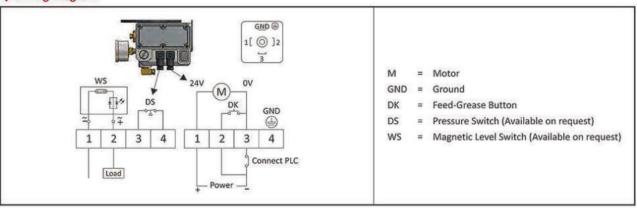
Model	Effective Capacity	Length (mm)	Width (mm)	Height (mm)	Mounting Hole Distance (mm)	N.W. (kg)
KABP-07	700cc Grease Cartridge	179.0	152.5	288	104	2.49

KAB / KABP Pressure-Relief Type PLC Grease Electric Lubricator

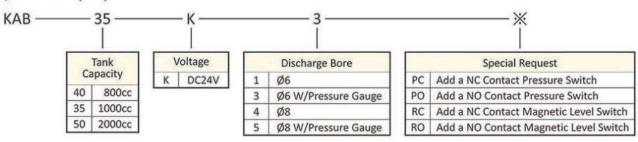
◆Technical Data

Motor Power	Voltage	Ampere	Max. Discharge Volume	Max. Operating Pressure	Discharge Bore	Suitable Viscosity
35±3W	DC24V	3.0A	10cc/min	100kgf/cm ²	Ø6, Ø8	Grease, NLGI 000-0

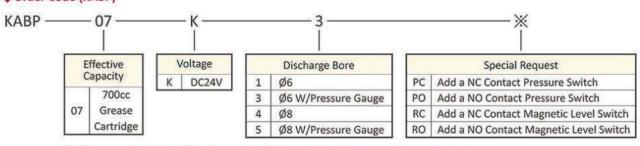
♦Wiring Diagram



◆Order Code (KAB)



Order Code (KABP)



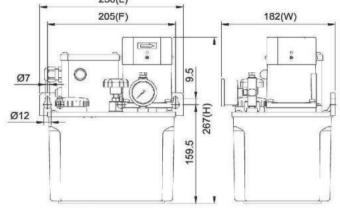
※ Please refer to the 700cc Grease Cartridge catalog if you need to purchase one.

◆Related Products



KGVB Pressure-Relief Type PLC Fluid Grease Electric Lubricator





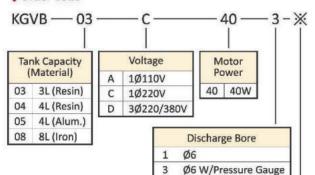
Features

KGVB-03-C-40-3

Dimensional Drawing of KGVB-03-C-40-3

- 1. The operation and interval time of KGVB are controlled by PLC.
- 2. KGVB has to work with CFB volume type grease distributors to deliver the metered quantity of grease to the lubrication
- 3. KGVB has a pressure-regulating valve that enables the user to adjust the operating pressure. KGVB also has a feed-grease button, which can be used as manual grease feeding for less than 3 minutes to avoid overloading the motor.
- 4. A 20kgf/cm² socket pressure switch can be added to KGVB on request to detect the operating pressure automatically.
- 5. A capacitive level switch can be added to KGVB on request to detect the grease level automatically.
- 6. The gear pump of KGVB is made of special aluminum alloy and assembled with a 40W induction motor to provide stable output pressure, low operating noise, and long service life.
- 7. The induction motor has a fan that can reduce the temperature and prolong the service life of KGVB.

Order Code



	Special Request
PC	Add a NC Contact Pressure Switch
	Add a NO Contact Pressure Switch
КО	Add a PNP, NO Contact Capacitive Level Switch

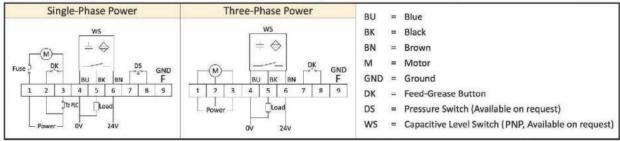
Dimensional Data

Tank Capacity	Tank Material	Length (mm)	Width (mm)	Height (mm)	Mounting Hole Distance (mm)	N.W. (kg)
3L	Resin	230	182	267	205	5.29
4L	Resin	288	162	278	250	5.89
4L	Alum.	297	170	276	95x280	6.84
8L	Iron	355	201	299	95x338	9.54

Technical Data

Voltage	1Ø110V	1Ø220V	3Ø220/380V		
Ampere	0.75A	0.50A	0.40A		
Motor Power	40W				
Hertz	50	/60Hz Cor	npatible		
Max. Discharge Volume	170cc/min				
Max. Operating Pressure	40kgf/cm ²				
Discharge Bore	Ø6				
	NLGI 000, 00				
Suitable Viscosity	(NLGI 00 is suitable for the model with 3L resin tank only.)				

Wiring Diagram



A standard dual-voltage motor is connected for low voltage. Please specify if you need it to be connected to high voltage when placing an order.

Related Products



















P. 129

P. 98

P. 109

P. 111

P. 113

P. 112

P. 124

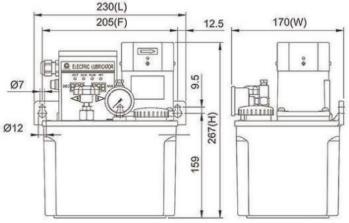
P. 123

73

KGNVB Pressure-Relief Type Timer Fluid Grease Electric Lubricator



KGNVB-03-C-40-3

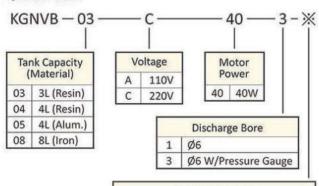


Dimensional Drawing of KGNVB-03-C-40-3

Features

- 1. KGNVB has a timer that controls its operation and interval time.
- KGNVB has to work with CFB volume type grease distributors to deliver the metered quantity of grease to the lubrication points.
- 3. There are four indicators on the control box, operation (ACT), alarm (ALM), immediate lubrication (RUN), and interval (INT).
- 4. KGNVB has a pressure-regulating valve that enables the user to adjust the operating pressure. KGNVB also has a feed-grease button (F button), which can be used as manual grease feeding for less than 3 minutes to avoid overloading the motor.
- 5. 20kgf/cm² socket pressure switch can be added to KGNVB on request to detect the operating pressure automatically.
- The gear pump of KGNVB is made of special aluminum alloy and assembled with a 40W induction motor to provide stable output pressure, low operating noise, and long service life.
- 7. The induction motor has a fan that can reduce the temperature and prolong the service life of KGNVB.

♦Order Code



Special Request						
PC	Add a NC Contact Pressure Switch					

Wiring Diagram

Ak	onormal Outp	Ground	Power		
NO(A)	NC(B)	COM	GND(P.E)	POWER	
0	Ф	0	\oplus	0	0

♦Dimensional Data

Tank Capacity	Tank Material	Length (mm)	Width (mm)	Height (mm)	Mounting Hole Distance (mm)	N.W. (kg)
3L	Resin	230	170	267	205	5.59
4L	Resin	277	162	278	250	6.09
4L	Alum.	297	170	276	95x280	6.94
8L	Iron	355	201	299	95x338	10.09

♦Technical Data

Operation Time	1-999 sec.		
Interval Time	1-999	min.	
Voltage	110V	220V	
Ampere	0.75A	0.50A	
Motor Power	40W		
Hertz	50/60Hz Compatible		
Max. Discharge Volume	170cc/min		
Max. Operating Pressure	40kgf/cm ²		
Discharge Bore	Ø	6	
0.0	NLGI 000, 00		
Suitable Viscosity	(NLGI 00 is suitable for the mode		
	with 3L resin tank only.)		

♦Related Products



















P. 124

P. 123

P. 125

KGNB / KGNBP Pressure-Relief Type Timer Grease Electric Lubricator



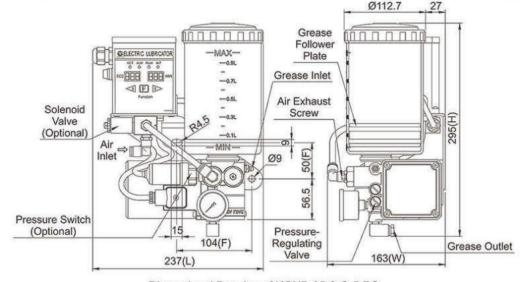




KGNB-35-2-C-5-PC

KGNBP-07-2-C-5

KGNBP-07-2-C-5 with Grease Cartridge



- Dimensional Drawing of KGNB-35-2-C-5-PC
- The operation and interval time of KGNB and KGNBP are controlled by PLC. KGNB and KGNBP require a 4.5-8kgf/cm² pneumatic pressure supply for the pressure-relief function.
- KGNB and KGNBP have to work with CFB volume type grease distributors to deliver the metered quantity of grease to the lubrication points.
- There are four indicators on the control box, operation (ACT), alarm (ALM), immediate lubrication (RUN), and interval (INT).
- 4. KGNB and KGNBP have pressure gauges that enable the users to check the operating pressure easily.
- KGNB and KGNBP have feed-grease buttons (F button), which can be used as manual grease feeding for less than 3 minutes to avoid overloading the motor.
- KGNB and KGNBP have thermal controls that will shut down the motor for about 5 minutes when the motor is overheated.
- A 60kgf/cm² socket pressure switch can be added to KGNB and KGNBP on request to detect the operating pressure automatically.
- 8. A magnetic level switch can be added to KGNB and KGNBP on request to detect the grease level automatically.
- The lubricator, which adds a pressure switch or a magnetic level switch, has abnormal pressure or low grease level; the built-in buzzer of the control box will send an alarm sound.
- 10. For KGNB, refill grease from the grease inlet to prevent air and impurities from entering the grease tank.
- 11.KGNBP-07 works with a 700cc disposable grease cartridge. When the grease is empty, replace KGNBP-07 with a new grease cartridge. Standard KGNBP-07 does not include a grease cartridge but is available upon request.

◆Dimensional Data (KGNB)

Model	Tank Capacity	Length (mm)	Width (mm)	Height (mm)	Mounting Hole Distance (mm)	N.W. (kg)
KGNB-35	1000cc	237	163	295	104-50	4.95
KGNB-50	2000cc	245	163	380	104x50	5.41

♦Dimensional Data (KGNBP)

Model	Effective Capacity	Length (mm)	Width (mm)	Height (mm)	Mounting Hole Distance (mm)	N.W. (kg)
KGNBP-07	700cc Grease Cartridge	241	163	302	104x50	5.00

KGNB / KGNBP Pressure-Relief Type Timer Grease Electric Lubricator

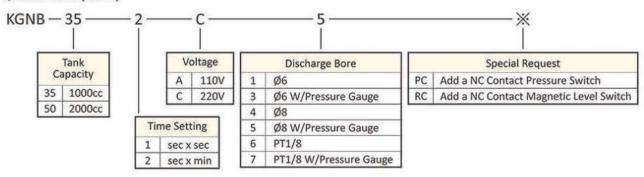
◆Technical Data

Operation Time	1-999 sec.			
Interval Time	1-999 sec., 1-999 min.			
Voltage	110V 220V			
Motor Output	60W 80W			
Ampere	1.8A 1.0A			
Hertz	50/60Hz Compatible			
Max. Discharge Volume	30cc/min			
Max. Operating Pressure	100kgf/cm ²			
Discharge Bore	Ø6, Ø8	3, PT1/8		
Suitable Viscosity	KGNB: Greas	e, NLGI 000-0		
Suitable Viscosity	KGNBP-07: Grease, NLGI 000-1			

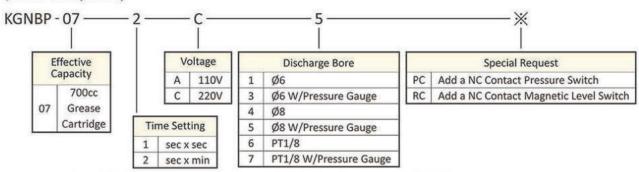
♦Wiring Diagram

AŁ	normal Outp	Ground	Power			
NO(A)	NC(B)	COM	GND(P.E)	POWER		
\oplus	\oplus	\oplus	0	\oplus	0	

◆Order Code (KGNB)



◆Order Code (KGNBP)



※ Please refer to the 700cc Grease Cartridge catalog if you need to purchase one.

Related Products







P. 111













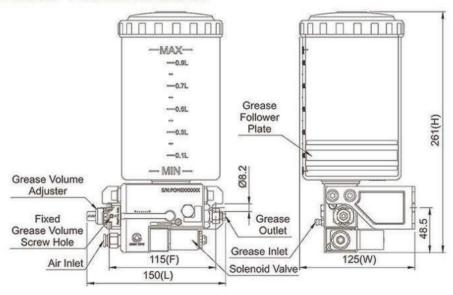
P. 124

P. 125

POM-A / POM-AP Minimum Quantity Grease Pneumatic Lubricator



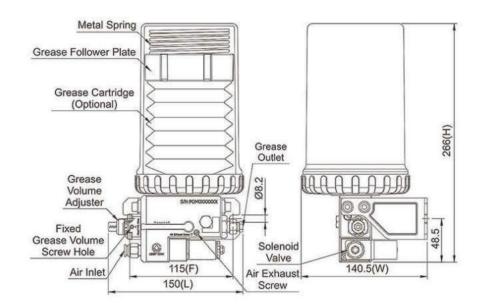
POM-A-35-1-K-0



Dimensional Drawing of POM-A-35-1-K-0



POM-AP-07-1-K-0 with Grease Cartridge



Dimensional Drawing of POM-AP-07-1-K-0 with Grease Cartridge

◆Features

- 1. The discharge volume of POM-A and POM-AP is precise and can be adjusted from 0.01cc to 0.08cc per stroke.
- 2. POM-A and POM-AP can be actuated either by a frequency generator or a solenoid valve.
 - Pneumatic pressure supply drives the frequency generator, and the user can adjust each stroke frequency upon the demand. The service life is ten million cycles.
 - The input voltage powers the solenoid valve, and the PLC can precisely control its stroke frequency. The solenoid valve
 works as the ON/OFF switch of the pneumatic pressure supply. The service life is two million cycles.
- 3. POM-A and POM-AP require 4-8kgf/cm² pneumatic pressure supply to operate.
- The standard POM-A and POM-AP have one outlet, which can be increased to two on request. Do not plug any outlet of POM-A and POM-AP.
- POM-A and POM-AP have grease volume adjusters for adjusting the discharge volume per stroke. It is fixed by the grease volume screw to prevent its setting from being changed easily.
- 6. Each outlet of POM-A can add a reed switch for monitoring every stroke.
- 7. A magnetic level switch can be added to POM-A and POM-AP on request to detect the grease level automatically.
- 8. An OT spray gun with the Ø4 inlet bore can work with either POM-A or POM-MP to have the grease mist effect.
- 9. Please refill grease from the grease inlet to prevent air and impurities from entering the grease tank.
- 10.POM-AP-07 works with a 700cc disposable grease cartridge. When the grease is empty, replace POM-AP-07 with a new grease cartridge. Standard POM-AP-07 does not include a grease cartridge but is available upon request.

POM-A / POM-AP Minimum Quantity Grease Pneumatic Lubricator

Dimensional Data (POM-A)

Model	Effective Capacity	Mounting Hole Distance (mm)	Length (mm)	Width (mm)	Height (mm)	Outlet Number	N.W. (kg)
DOM A 25	100000	115	150	125.0	261.0	1	1.67
POM-A-35	OM-A-35 1000cc 115 150	125.0	289.5	2	2.08		
DOMA A FO	2000	115	154	125.0	345.5	1	2.02
POM-A-50	2000cc	115	154	135.0	374.0	2	2.43

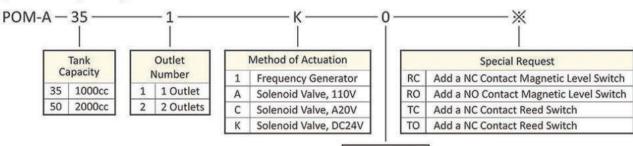
◆Dimensional Data (POM-AP)

Model	Effective Capacity	Mounting Hole Distance (mm)	Length (mm)	Width (mm)	Height (mm)	Outlet Number	N.W. (kg)
DOMA AD 07	700cc	115	150	140 5	266.0	1	1.82
POM-AP-07 Grease Cartric	Grease Cartridge	115	150	140.5	294.5	2	2.23
POM-AP-40 550cc	550	115	150	125.0	304.5	1	1.94
	550CC				330.0	2	2.35
DOMA AD FO	1500	115	154	135.0	345.5	1	3.02
POM-AP-50	1500cc	115	154	135.0	374.0	2	3.43

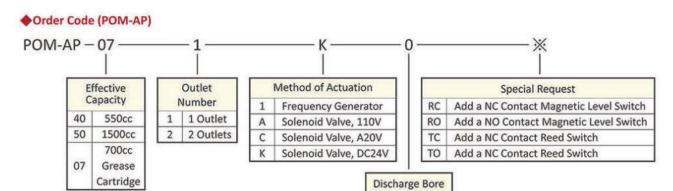
◆Technical Data

Method of Actuation		Frequency Generator					
Voltage	AC110V	AC220V	DC24V				
Ampere	0.1A	0.1A 0.1A 0.2A		(**)			
Pneumatic Pressure	4-8kgf/cm²						
Discharge Volume	0.01cc-0.08cc/stroke (Adjustable)						
Air Inlet Bore	Ø8						
Discharge Bore	Ø4						
	POM-A: Grease, NLGI 000-0						
Suitable Viscosity	POM-AP-07: Grease, NLGI 000-0						
TO THE STATE OF TH	POM-AP-40, POM-AP-50: Grease, NLGI 1, 2						

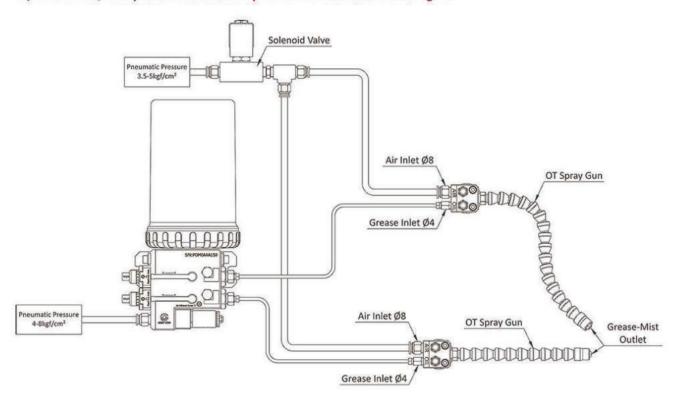
◆Order Code (POM-A)



POM-A / POM-AP Minimum Quantity Grease Pneumatic Lubricator



♦ Minimum Quantity Grease Lubrication System Installation Schematic Diagram





















P. 125

700cc Grease Cartridge



♦Order Code

Order Code	Grease Type	Grease Viscosity	Minimum Order Quantity Requirement
I01D0021	Mobil EP000	NLGI 000	
I01D0012	Mobil EP0	NLGI 0	
I01D0013	Mobil EP1	NLGI 1	100

♦Features

- 700cc grease cartridge is suitable for KACP-07, KABP-07, KGCP-07, KGNP-07, KGNP-07, KGNBP-07, and POM-AP-07 types
 grease lubricators.
- Standard 700cc grease cartridge is filled with Mobil grease. Please specify when you place an order if you require a different brand.

◆Notice

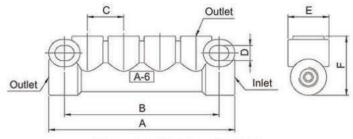
- 1. Please discard the empty used grease cartridge and replace a new one. Do not refill grease into the used grease cartridge.
- 2. Please hold the grease tank tightly to prevent it from popping out by the spring force while disassembling.
- 3. Before replacing a new grease cartridge, lightly squeeze out a little grease in the grease cartridge to prevent air from entering the lubricator.

◆Instruction of Replacing 700cc Grease Cartridge

♦ Ir	struction of Replacing	700cc Grease Cartridge			
1	Loosen	Hold the grease tank tightly and turn it anticlockwise to disassemble it from the grease tank holder.	5	Tighten	Assemble the new grease cartridge to the grease tank holder by turning it clockwise.
2	1	Take the grease tank out and put it aside.	6		Assemble the grease tank back to the grease tank holder.
3	Loosen	Rotate the used grease cartridge anticlockwise to remove it from the grease tank holder and dispose of it properly.	7	Tighten	Rotate the grease tank clockwise to assemble it with the grease tank holder to complete the replacement of the grease cartridge.
4		Before replacing a new grease cartridge, lightly squeeze out a little grease in the grease cartridge to prevent air from entering the lubricator.			

A Type Distributor





A-6-6-4

Dimensional Drawing of A-6-6-4

Order Code

t	Ou	tlat
e	177	ore
Ø4	4	Ø4
Ø6	6	Ø6
	Ø4 Ø6	Ø4 4

ı	Model	l
ı	A-4	ı
ı	A-5	ı
ı	A-6	ı
ı	A-7	I
ı	A-8	ı
ı	A-9	ı
ı	A-10	ı
ı	A-12	l
ı	A-700	ı
ı	A-8000	ı
ı	A-900	ı
ı	A-1000	l
ı	DB-12	
		۰

A-6. Special Request

	Add
	Compression
S	Bushing and
	Sleeve to Inlet
	and Outlets

Dimensional Data

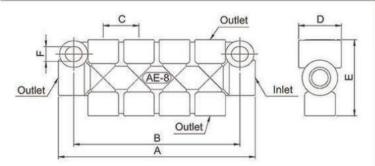
				St	andar	d Mod	dels									
NA 1 - 1	Outlet	Inlet	Outlet	А	В	С	D	E	F	N.W	/. (g)	Suitable				
Model	Num.	Bore	Bore	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	Ø4xØ4	Ø6xØ4	Lubricant				
A-4	3	Ø4 (M8xP1.0) or Ø6 (M10xP1.0)	C0000000000	Ø4 (M8xP1.0)	47	34	15	Ø6.2	17	24.5	70	68				
A-5	4		or	62	50	15	Ø6.2	17	24.5	86	83					
A-6	5		(M8xP1.0)	Ø6 (M10xP1.0)	82	68	15	Ø6.2	17	24.5	110	108	0:1			
A-7	6		Ø6		92 78 15 Ø6.2 :	17	24.5	125	120	Oil						
A-8	7				107	93	15	Ø6.2	17	24.5	131	127	&			
A-9	8			(M10xP1.0)	(M10xP1.0)	(M10xP1.0)	Ø4(M8xP1.0)	122	108	15	Ø6.2	17	24.5	158	157	Grease
A-10	9							137	123	15	Ø6.6	18	25.0	175	170	
A-12	11			167	152	15	Ø6.6	18	25.0	201	200					
	Y3			Non	Stand	lard N	lodels									
	Outlet	Inlet	Outlet	Α	В	С	D	E	F	N.W	/. (g)	Suitable				
Model	Num.	Bore	Bore	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	Ø4xØ4	Ø6xØ4	Lubricant				
A-700	6	Ø4		98	84	16	Ø6.2	17	23.5	124	122					
A-8000	7	(M8xP1.0)		115	100	15	Ø6.6	19	24.0	136	134	Oil				
A-900	8	or	Ø4 (M8xP1.0)	134	115	16	Ø6.8	18	26.0	160	154	&				
A-1000	9	Ø6		146	132	16	Ø6.5	20	25.0	176	173	Grease				
DB-12	11	(M10xP1.0)		176	164	16	Ø6.5	20	24.5	212	210					

- ※ Standard Type: inlet bore Ø6, and outlet bore Ø4
- ※ Both inlet and outlet bore PT1/8 are available for A-4, A-5, and A-6.

AE Type Distributor

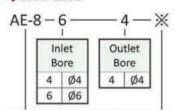


AE-8-6-4



Dimensional Drawing of AE-8-6-4

♦Order Code



Model	S	pecial Request
AE-4		Add
AE-6		Compression
AE-8	S	Bushing and
AE-10		Sleeve to Inlet
AE-12		and Outlets

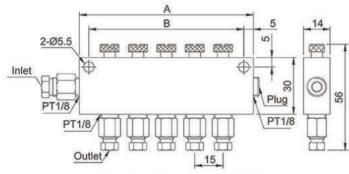
Dimensional Data

				St	andar	d Mod	dels					
Madal	Outlet	Inlet	Outlet	Α	В	С	D	E	F		/. (g)	Suitable
Model	Num.	n. Bore	Bore	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	Ø4xØ4	Ø6xØ4	Lubricant
AE-4	5	Ø4		48	35	16	18	32.1	Ø7.0	73	71	
AE-6	7	(M8xP1.0)		65	51	15	20	33.0	Ø7.5	103	101	Oil
AE-8	9	or	Ø4(M8xP1.0)	83	70	15	18	32.0	Ø6.2	114	113	&
AE-10	11	Ø6		97	83	15	18	32.0	Ø6.2	134	133	Grease
AE-12	13	(M10xP1.0)		112	99	15	18	32.0	Ø6.2	157	154	

※ Standard Type: inlet bore Ø6, and outlet bore Ø4

B Type Adjustable Distributor





B-5-6-4

Dimensional Drawing of B-5-6-4

♦Order Code

B-12

Model	100	let	10500	tlet
B-2		ore	-	ore
B-3	4	Ø4	4	Ø4
B-4	6	Ø6	6	Ø6
B-5				
B-6				
B-7				
B-8				
B-8 B-9				

Dimensional Data

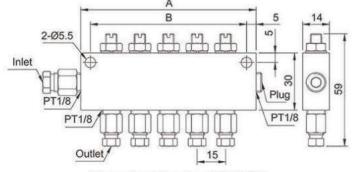
0.4 - 1 - 1	Outlet	Inlet	Outlet	A	В	N.W	/. (g)	Suitable
Model	Num.	Bore	Bore	(mm)	(mm)	Ø4xØ4	Ø6xØ4	Lubricant
B-2	2			47	37	86	88	
B-3	3			62	52	115	117	Oil & Grease
B-4	4			77	67	144	147	
B-5	5		Ø4 (M8xP1.0)	92	82	173	176	
B-6	6	Ø4 (M8xP1.0)		107	97	203	204	
B-7	7	or		122	112	230	232	
B-8	8	Ø6 (M10xP1.0)	Ø6 (M10xP1.0)	137	127	260	261	
B-9	9		100 NS 1000M	152	142	289	290	
B-10	10			167	157	316	318	
B-11	11			182	172	346	348	
B-12	12			197	187	373	375	

※ Standard Type: inlet bore Ø6, and outlet bore Ø4

CB Type Anti-Vibration Distributor with Nut



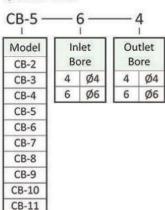
CB-5-6-4



Dimensional Drawing of CB-5-6-4

Order Code

CB-12



♦ Dimensional Data

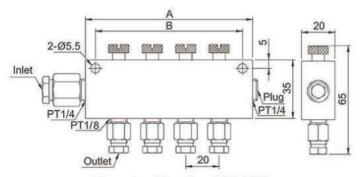
NA-del	Outlet	Inlet	Outlet	A	В	N.W	/. (g)	Suitable
Model	Num.	Bore	Bore	(mm)	(mm)	Ø4xØ4	Ø6xØ4	Lubricant
CB-2	2			47	37	92	94	
CB-3	3			62	52	122	124	
CB-4	4		Ø4 (M8xP1.0) or	77	67	153	155	Oil & Grease
CB-5	5			92	82	184	186	
CB-6	6	Ø4 (M8xP1.0)		107	97	215	217	
CB-7	7	or		122	112	248	250	
CB-8	8	Ø6 (M10xP1.0)	Ø6 (M10xP1.0)	137	127	280	282	
CB-9	9		N 56.1	152	142	312	314	
CB-10	10			167	157	339	341	
CB-11	11			182	172	370	372	
CB-12	12			197	187	400	402	

X Standard Type: inlet bore Ø6, and outlet bore Ø4

AB Type Adjustable Distributor



AB-4-8-6



Dimensional Drawing of AB-4-8-6

Order Code

Model	3.023	let	1/4/3500	tlet
AB-2	Be	ore	Bo	ore
AB-3	6	Ø6	6	Ø6
AB-4	8	Ø8	8	Ø8
AB-5				
AB-6				
AB-7				
AB-8				

Dimensional Data

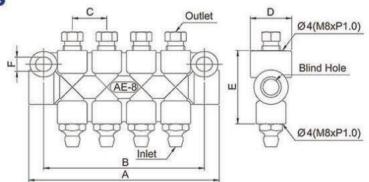
A A a al a I	Outlet	Inlet	Outlet	A	В	N.W	(g)	Suitable
Model	Num.	Bore	Bore	(mm)	(mm)	Ø6xØ6	Ø8xØ6	Lubricant
AB-2	2			60	50	166	186	
AB-3	3			80	70	221	240	
AB-4	4	Ø6 (M10xP1.0)	Ø6 (M10xP1.0)	100	90	277	295	Oil
AB-5	5	or	or	120	108	333	352	& Grease
AB-6	6	Ø8 (M14xP1.5)	Ø8 (M14xP1.5)	140	127	388	407	
AB-7	7		200 mm mm m m m m m m m m m m m m m m m	160	148	443	462	
AB-8	8			180	168	498	514	

※ Standard Type: inlet bore Ø8, and outlet bore Ø6

AE Type Grease Nipple Distributor with Parallel Outlets



AE-81



Dimensional Drawing of AE-81

Dimensional Data

Model	Outlet Num.	Inlet Bore	Outlet Bore	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	N.W. (g)	Suitable Lubricant
AE-41	2			48	35	16	18	32.1	Ø7.0	91	
AE-61	3			65	51	15	20	20 33.0	Ø7.5	130	
AE-81	4	Grease Nipple	Ø4 (M8xP1.0)	83	70	15	18 32.0 Ø6.2	Ø6.2	149	Grease	
AE-101	5		A	97	83	15	18	32.0	Ø6.2	178	
AE-121	6	6		112	99	15	18	32.0	Ø6.2	208	

BB Type Grease Nipple Distributor with Parallel Outlets



| Dinlet | 20 | PT1/8 | PT1/8

BB-6-4

Dimensional Drawing of BB-6-4

Order Code

BB-10

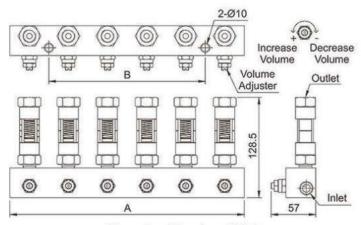
♦ Dimensional Data

NA-d-I	Outlet	Inlet	Outlet	A	В	N.W	/. (g)	Suitable
Model	Num.	Bore	Bore	(mm)	(mm)	Grease Nipple x Ø4	Grease Nipple x Ø6	Lubricant
BB-2	2			60	50	131	135	
BB-3	3			80	70	180	185	
BB-4	4	Grease Nipple	Ø4 (M8xP1.0)	100	90	228	235	
BB-5	5		TANDESDO A LINVESSO / NACIONA SERVI	120	108	277	286	C
BB-6	6		Nipple	or Ø6 (M10xP1.0)	140	127	325	336
BB-7	7		Ø6 (IVITUXP1.0)	160	148	373	386	
BB-8	8			180	168	421	436	
BB-10	10			220	208	518	537	

BS Type Transparent Adjustable Distributor



BS-6



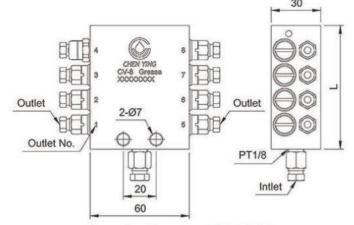
Dimensional Drawing of BS-6

◆Dimensional Data

		Values						Operating	BAON	1		
Model	Outlet Num.	Volume Control Base	Inlet Bore	Outlet Bore	A (mm)	B (mm)	Discharge Volume	Pressure Range	Max. Temp. Tolerance	Suitable Viscosity	N.W. (g)	
BS-A	1		Inner Thread PT1/4	Inner Thread PT1/4							82.6	
BS-B	1	X	X I	Inner Thread PT3/8	Inner Thread PT3/8	-		1-2L/min (Non-Adjustable)				78.6
BS-C	1		Outer Thread PT3/8	Inner Thread PT3/8				8-30	90%	Oil	88.8	
BS-1	1				70	50		kgf/cm ²	80 C		340.0	
BS-2	2				120	100		2.00	80°C 32-220 cSt@40°C	628.0		
BS-3	3	_	Inner Thread	Inner Thread	150	50	1-2L/min				862.0	
BS-4	4	0	PT3/8	PT3/8	200	100	(Adjustable)				1188.0	
BS-5	5			31	250	149					1490.0	
BS-6	6				300	200					1790.0	

CV Type Progressive Feeder



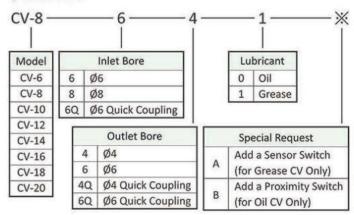


Dimensional Drawing of CV-8-6-4-1

Features

- CV progressive feeder can deliver a fixed volume of lubricant to each lubrication point. The standard discharge volume is 0.18cc per stroke. The outlets of the CV progressive feeder can be combined for a larger discharge volume on request.
- Each outlet of a CV progressive feeder has one piston inside. The lubricant flow moves each piston, and CV progressive feeder discharges lubricant one by one outlet to complete a circulation cycle.
- 3. Forbid to plug any CV progressive feeder outlet, or it cannot discharge lubricant functionally.
- Each standard CV progressive feeder has an indicator pin that moves in and out once as a completed circulation cycle.
 Monitoring can be done visually or electronically with a sensor or proximity switch.
- 5. There are two types of inlet and outlet adapters: compression bushings with sleeves and quick couplings. Please refer to page 110 for connecting and disconnecting the quick couplings.

Order Code



Dimensional Data

Model	Outlet Num.	Inlet Bore	Outlet Bore	L (mm)	N.W. (g)
CV-6	6			60	407
CV-8	8	1		75	514
CV-10	10		Ø4 (M8xP1.0)	90	628
CV-12	12			105	686
CV-14	14	or	or oc (Manor Da O)	120	840
CV-16	16	98 (WI14XP1.5)	Ø6 (M10xP1.0)	135	937
CV-18	18			150	1062
CV-20	20			165	1169

※ Standard Type: inlet bore Ø6, and outlet bore Ø4

◆Technical Data

Suitable Lubricant	Suitable Viscosity	Operating Pressure Range	Discharge Volume	Suitable Lubricators
Oil	32-220 cSt@40°C	5-30 kgf/cm²	About 0.18cc/Stroke	Resistance Type Oil Lubricators with Discharge Volume Above 500cc/min
Grease	NLGI 000-2	15-150 kgf/cm ²	About 0.18cc/Stroke	Resistance Type Grease Lubricators

◆Related Products



Proximity Switch



Sensor Switch

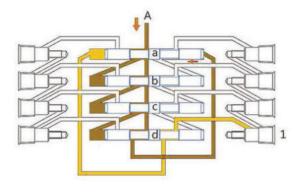




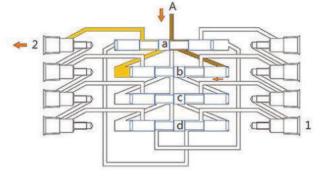
CV-12-6-4-1-A CV-12-6Q-4Q-1

CV Progressive Feeder

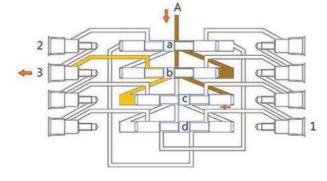
♦ How CV Progressive Feeder Works (Take CV-8 as an example)



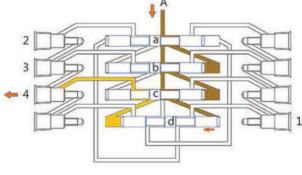
- The lubricant pressure forces the lubricant to flow into inlet "A", fills up each piston hole with lubricant, and pushes pistons to move to each tap stop.
- Piston "a" moves to the left that makes the lubricant changing the flow direction. The original lubricant of the left side piston "a" flows through piston "d" and keeps moving to the first outlets.



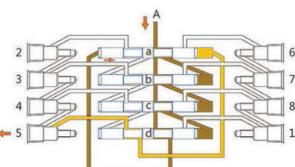
3. After the flow direction is changed, the lubricant moves toward piston "b" which forces piston "b" to move toward the left. The original lubricant of the left side piston "b" flows through piston "a", and keeps moving to the second outlet.



4. After the flow direction is changed, the lubricant moves toward piston "c" which forces piston "c" to move toward the left. The original lubricant of the left side piston "c" flows through piston "b", and keeps moving to the third outlet.

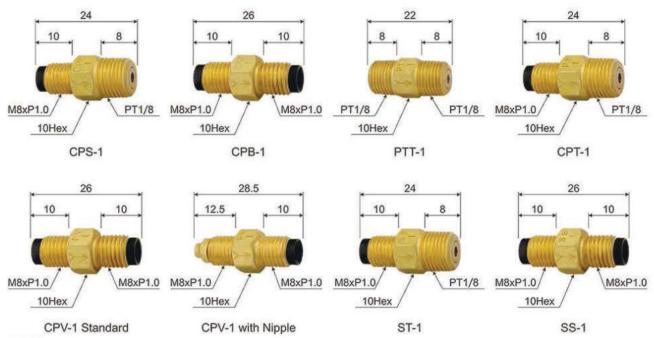


5. After the flow direction is changed, the lubricant moves toward piston "d" which forces piston "d" to move toward the left. The original lubricant of the left side piston "d" flows through piston "c", and keeps moving to the fourth outlet.



- 6. After the flow direction is changed, the lubricant moves toward piston "a" which forces piston "a" to move toward the left. The original lubricant of the right side piston "a" flows through piston "d", and keeps moving to the fifth outlet. The left side circulation is completed.
- 7. The right-side circulation is the same as the left-side circulation.

Proportion Adapter



Features

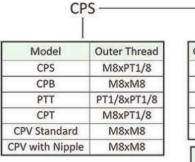
- Proportion adapters work with resistance type lubricators and open-straight type distributors, such as A types, AE types, B types, CB types, AE grease nipple types, and BB grease nipple types.
- 2. The flow between lubrication points can be more accurate by applying proportion adapters of different flow rates.
- 3. The flow rate of the proportion adapter is proportional. For example, under the same usage conditions, the flow rate of CPS-3 is about twice that of CPS-2; the flow rate of ST-2 is about four times that of ST-0.
- Please use a clean lubricant to avoid the accumulation of impurities inside the proportion adapter, which may affect the flow of discharge volume or block the lubricant from flowing through the adapters.

◆Technical Data and Dimensional Data

Model	Inlet (Outer Thread)	Outlet (Outer Thread)	Suitable Lubricators	Suitable Viscosity	Flow Code	F	low Rate	Internal Structure	Backflow Prevention	N.W.
CPS	M8xP1.0	PT1/8	Resistance Type	Grease					V	10
СРВ	M8xP1.0	M8xP1.0	Grease Lubricators	NLGI 000-0	1	[1]	Less ↑ Discharge		×	9
PTT	PT1/8	PT1/8			2	[1]				10
CPT	M8xP1.0	PT1/8		Oil	1000			Flow		10
CPV Standard	M8xP1.0	M8xP1.0	Resistance Type Oil Lubricators	32-90	3 4 5	[8]	Volume ↓	Restrictor	0	9
CPV with Nipple	M8xP1.0	M8xP1.0		cSt@40°C	5	[16]	More			9
					0 [2] Less	Less				
ST	M8xP1.0	PT1/8		0:1	1	[4]	1			9
			Resistance Type	Oil	2	[8]	Discharge	Flow	_	
			Oil Lubricators	32-90	3	[16]	Volume	Hole	0	
SS	M8xP1.0	M8xP1.0		cSt@40°C	4	[32]	4	10000		8
	SONORGO ANTONO				5	[64]	More			

◆Order Code (CPS, CPB, PTT, CPT, CPV)

◆Order Code (ST, SS)



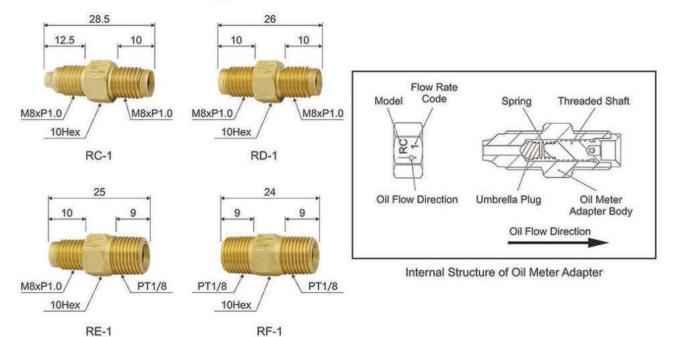
Code	Flow Rate
1	[1]
2	[2]
3	[4]
4	[8]
5	[16]

	Special Request
	Add Compression
3	Sleeve and Nut

١	Outer Thread	Code	Flow Rate
	M8xPT1/8	0	[2]
	M8xM8	1	[4]
		2	[8]
		3	[16]
		4	[32]
		5	[64]

1		Special Request
1		Add Compression
	2	Sleeve and Nut

Oil Meter Adapter



◆Features

- The oil meter adapter can deliver proper and exact volume to each lubrication point by calculating the total discharge volume needed. Based on the above calculation result, select the suitable lubricator model to work together.
- The total oil consumption of the lubrication points per minute should be less than half of the discharge volume of the lubricator to prevent pressure loss.
- 3. The main oil pipe should be 6mm or larger to keep the piping system pressurized.
- The flow rate of the oil meter adapter increases in an arithmetic series. (The flow rate with the flow code 00 is 1/3 of the flow code 0.)
- 5. Oil meter adapter obtained the Taiwan Utility Patent No. M571928.
- 6. Forbid to add used oil or any volatile oil to avoid the accumulation of impurities inside the oil meter adapter, which may affect the flow of discharge volume or block the oil from flowing through the adapters.

◆Technical Data and Dimensional Data

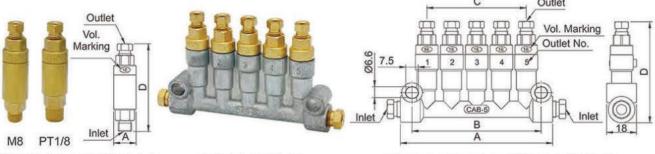
Model	Inlet (Outer Thread)	Outlet (Outer Thread)	Suitable Lubricators	Operating Pressure Range	Suitable Viscosity	Flow Code	FI	Flow Rate Internal Structure		Backflow Prevention	N.W (g)
RC	M8 with Nipple xP1.0	M8xP1.0				00	[1] [3]	Less			9.6
RD	M8xP1.0	M8xP1.0	Resistance Type	2-20	Oil 32-90	1 2	[6] [9]	个 Discharge	Flow	0	9.0
RE	M8xP1.0	PT1/8	Oil Lubricators	kgf/cm²	cSt@40°C	357	[12] [15]	Volume ↓	Restrictor		11.0
RF	PT1/8	PT1/8				5	[18]	More			13.0

Order Code 00 Model Flow Rate Outer Thread Code Special Request RC M8 with Nipple x M8 00 Add Compression Sleeve and Nut [1] RD M8 x M8 0 [3] M8 x PT1/8 RE 1 [6] RF PT1/8 x PT1/8 2 [9] 3 [12] 4 [15]

[18]

5

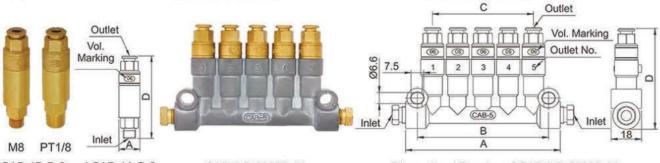
CAB Type Volume Distributor (Standard Type & Quick Coupling Type)



CAB-1B-A-4 and CAB-1A-A-4

CAB-5-A-44444-AA

Dimensional Drawing of CAB-5-A-44444-AA



CAB-1B-B-2 and CAB-1A-B-2

CAB-5-B-22222-AA

Dimensional Drawing of CAB-5-B-22222-AA

Features

- 1. CAB type volume distributor can deliver a precisely metered quantity of oil to each lubrication point.
- 2. CAB needs to work with a pressure-relief type oil lubricator and discharges oil during the operation time of the lubricator.
- There are two types of outlet adapters available; one is compression bushing and sleeve (standard type), and another is quick coupling.
- Recommend using quick coupling with N12 nylon pipe. Please refer to page 110 for connecting and disconnecting quick couplings.

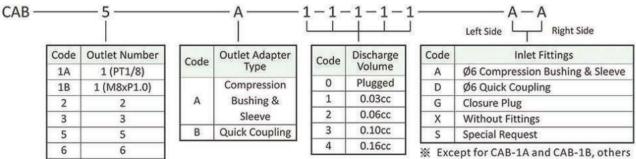
Dimensional Data & Technical Data

								Discharge	Operating		N.W	/. (g)		
Model	Outlet Num.	Inlet Bore	Outlet Bore	A (mm)	B (mm)	C (mm)	D (mm)	Volume/Stroke (Vol. Marking)	Pressure Range	Suitable Viscosity	Standard Type	Quick Coupling Type		
CAB-1A	1	Outer Thread PT1/8		Ø13.5		-	51			Oil 32-90 cSt@40°C	30	37		
CAB-1B	1	Outer Thread Ø4(M8xP1.0)	Ø4	Ø13.5	•		53	0.03cc (03) 0.06cc (06) 0.10cc (10)	8-30 kgf/cm²		30	39		
CAB-2	2		(M8xP1.0)	47	33	15	60				117	121		
CAB-3	3	de	(IVIOXP1.U)	62	48	30	60				154	161		
CAB-5	5	Ø6 - (M10xP1.0)	1	5 (M10xP1.0)	0xP1.0)	92	78	60	60	0.16cc (16)			229	239
CAB-6	6					107	93	75	60				269	272
CAB-8	8			151	102	105	60				350	365		

Order Code

8

8



CBB Type Volume Distributor



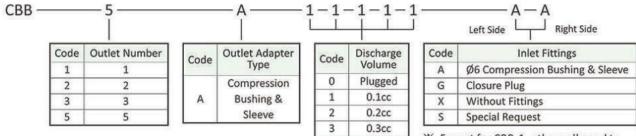
♦Features

- 1. CBB type volume distributor can deliver a precisely metered quantity of oil to each lubrication point.
- 2. CBB needs to work with a pressure-relief type oil lubricator and discharges oil during the operation time of the lubricator.

◆Dimensional Data & Technical Data

Model	Outlet Num.	Inlet Bore	Outlet Bore	A (mm)	B (mm)	C (mm)	D (mm)	Discharge Volume/Stroke (Volume Marking)	Operating Pressure Range	Suitable Viscosity	N.W. (g)
CBB-1	1	Outer Thread M10xP1.0		Ø15			75	0.1cc (1) 0.2cc (2)	8-30	Oil	79
CBB-2	2		Ø4 (M8xP1.0)	53	37	17	80	0.3cc (3)	kgf/cm²	32-90	178
CBB-3	3	Ø6 (M10xP1.0)		70	54	34	80	0.4cc (4)	Kgi/Cili	cSt@40°C	250
CBB-5	5			104	88	68	80	0.5cc (5)		rosatomadouss. 84	410

♦Order Code



4

5

0.4cc

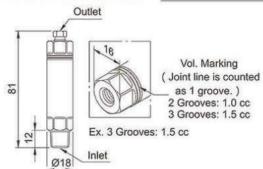
0.5cc

Except for CBB-1, others all need to provide the order code for inlet fittings.

CCB Type Large Volume Distributor



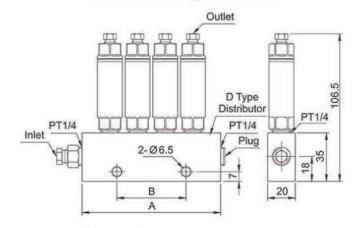
CCB-1-A-6



Dimensional Drawing of CCB-1-A-6



CCB-4-A-6666-AG



Dimensional Drawing of CCB-4-6666-AG

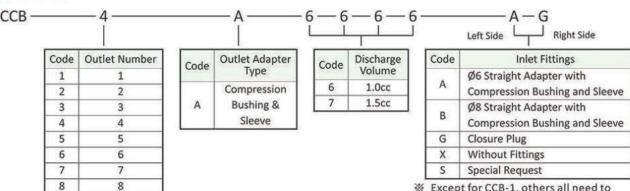
♦Features

- 1. CCB type large volume distributor can deliver a precisely metered quantity of oil to each lubrication point.
- CCB needs to work with a pressure-relief type oil lubricator and discharges oil during the operation time of the lubricator. The minimum interval time setting is 5 minutes.
- 3. There are two options for the discharge volume of CCB: two grooves stand for 1.0cc, and three grooves stand for 1.5cc.
- CCB is designed as a singular outlet unit, which can be assembled with a D type distributor to increase the outlet number from one to eight outlets.

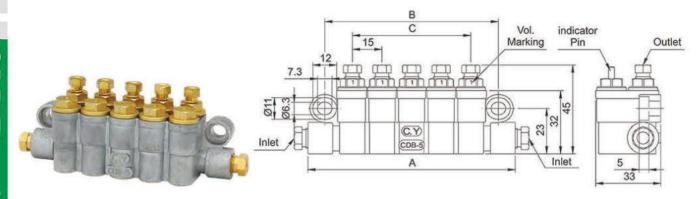
♦Dimensional Data & Technical Data

Model	Outlet Num.	Inlet Bore	Outlet Bore	A (mm)	B (mm)	Discharge Volume/Stroke (Volume Marking)	Operating Pressure Range	Suitable Viscosity	N.W. (g)
CCB-1	1	Outer Thread PT1/4	d. (440, 54.0)	-	-			Oil 32-90 cSt@40°C	113
CCB-2	2			60	30				341
CCB-3	3			80	30				486
CCB-4	4			100	50	1.0cc (2 Grooves)	8-30		632
CCB-5	5	Inner Thread PT1/4	Ø4 (M8xP1.0)	120	70	1.5cc (3 Grooves)	kgf/cm²		772
CCB-6	6			140	90				917
CCB-7	7			160	110				1059
CCB-8	8			180	130				1203

Order Code



CDB Type Volume Distributor



CDB-5-A-11111-AA

Dimensional Drawing of CDB-5-A-11111-AA

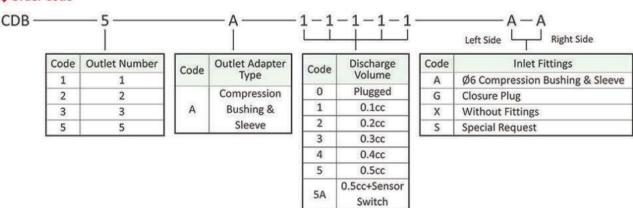
♦Features

- 1. CDB type large volume distributor can deliver a precisely metered quantity of oil to each lubrication point.
- 2. CDB needs to work with a pressure-relief type oil lubricator and discharges oil during the interval time of the lubricator.
- 3. Each outlet of CDB has an indicator pin that enables the user to monitor the oil discharging visually. It can optionally add a sensor switch to the indicator pin for an electronic signal.
- 4. CDB with an outlet of discharging volume 0.5 cc can add a sensor switch. The user can either set up NO contact, NC contact, or both upon need. When it is set as NO contact, it sends a signal during the operation time of the lubricator. When it is set as NC contact, it sends a signal during the interval time of the lubricator.

Dimensional Data & Technical Data

Model	Outlet Num.	Inlet Bore	Outlet Bore	A (mm)	B (mm)	C (mm)	Discharge Volume/Stroke (Volume Marking)	Operating Pressure Range	Suitable Viscosity	N.W. (g)
CDB-1	1			45	28	-	0.1cc (1)		Oil	133
CDB-2	2	Ø6 (M10xP1.0)	(1440 04 0) d4 (140 04 0)	60	43	15	0.2cc (2)	8-30		213
CDB-3	3		Ø4 (M8xP1.0)	75	E0 20	0.3cc (3) 0.4cc (4)	kgf/cm²	32-90 cSt@40°C	288	
CDB-5	5			105	88	60	0.5cc (5)		C31@40 C	445

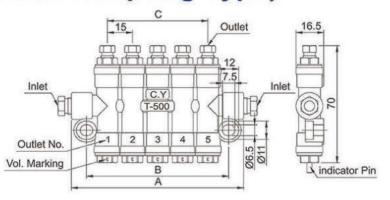
Order Code



T Type Volume Distributor (Standard Type & Quick Coupling Type)



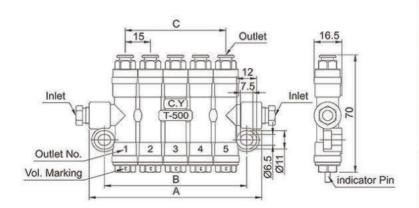




Dimensional Drawing of T-500-A-33333-AA



T-500-B-33333-AA



Dimensional Drawing of T-500-B-33333-A

♦Features

- 1. T type volume distributor can deliver a precisely metered quantity of oil to each lubrication point.
- 2. T type volume distributor needs to work with a pressure-relief type oil lubricator and discharges oil during the interval time of the lubricator.
- 3. Each outlet of T type volume distributor has an indicator pin that enables the user to monitor the oil discharging function visually. It can optionally add a sensor switch to the indicator pin for an electronic signal.
- 4. The standard proximity switch is NC contact. It sends a signal when it does not detect the movement of the indicator pin. NO contact is available on request.
- 5. T type volume distributor with an outlet of discharging volume 0.5 cc can add a sensor switch. The user can either set up NO contact, NC contact, or both upon need.
- There are two types of outlet adapters available; one is compression bushing and sleeve (standard type), and another is quick coupling.
- Recommend using quick coupling with N12 nylon pipe. Please refer to page 110 for connecting and disconnecting quick coupling.

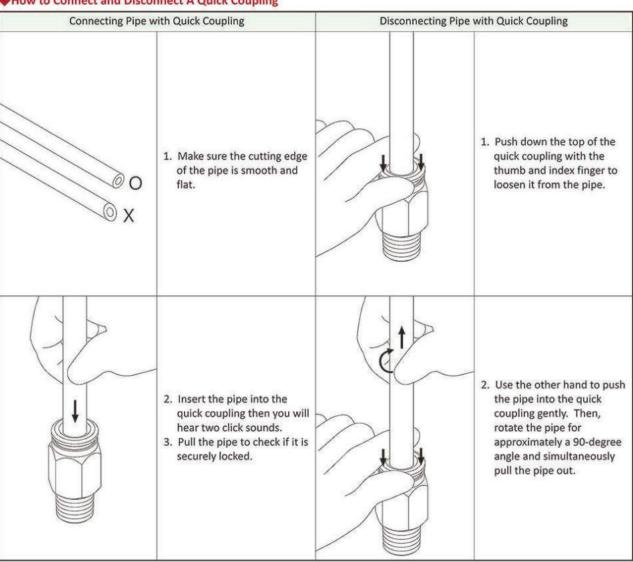
◆Dimensional Data & Technical Data

							Discharge	Operating	Suitable Viscosity	N.W. (g)		
Model	Outlet Num.	Inlet Bore	Outlet Bore	A (mm)	B (mm)	C (mm)	Volume/Stroke (Vol. Marking)	Pressure Range		Standard Type	Quick Coupling Type	
T-200	2			58	40	15	0.100 (1)		Oil 32-90 cSt@40°C	166	180	
T-300	3			73	55	30	0.1cc (1)	8-30 kgf/cm²		225	232	
T-400	4	Ø6 (M10xP1.0)	Ø4 (M8xP1.0)	88	70	45	0.2cc (2)			281	291	
T-500	5	Ø6 (IVITOXPT.0)	Ø4 (IVI8XP1.U)	103	85	60	0.3cc (3)			342	353	
T-600	6			118	100	75	0.4cc (4)	1650		397	413	
T-700	7			133	115	90	0.5cc(5)			463	480	

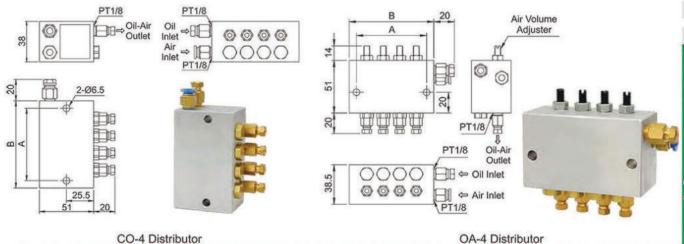
T Type Volume Distributor (Standard Type & Quick Coupling Type)

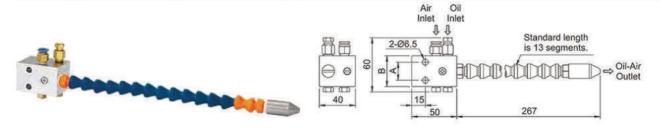
Order Code - 500 Right Side Left Side Discharge Code **Outlet Number Outlet Adapter** Code Inlet Fittings Discharge Volume Code Code Code Volume Type 200 2 Outlets Ø6 Compression 0 Plugged 5A 0.5cc+Sensor Switch Compression 300 3 Outlets **Bushing & Sleeve** 0.1cc 1B 0.1cc+Proximity SW 1 **Bushing &** 4 Outlets A Ø6 Quick Coupling 400 D 2 0.2cc **2B** 0.2cc+Proximity SW Sleeve 500 5 Outlets G Closure Plug 3 0.3cc **3B** 0.3cc+Proximity SW Quick Without Fittings 600 6 Outlets X B 4 0.4cc **4B** 0.4cc+Proximity SW Coupling 700 7 Outlets S Special Request 5 0.5cc 5B 0.5cc+Proximity SW

♦ How to Connect and Disconnect A Quick Coupling



CO / OA Type Oil-Air Volume Distributor





CO-1 Spray Gun

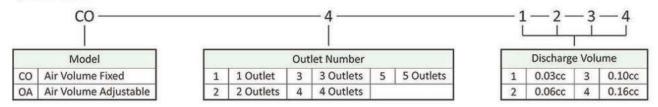
Features

- 1. CO and OA volume distributors can deliver a precisely metered quantity of oil-air mixture to each lubrication point.
- 2. CO and OA volume distributors have to work with COA pressure-relief type oil lubricators and discharge oil-air mixture during the operation time of the lubricator.
- 3. CO and OA volume distributors mix a metered quantity of oil with an air stream to form an oil-air mixture, which can spray to the lubrication points evenly and save oil consumption.
- 4. The air volume of the CO is fixed, but the OA is adjustable so that the user can adjust the air volume for each outlet to have even air for different pipe lengths.
- 5. CO-1 spray gun is suitable for cutting machines for micro lubrication and cooling effects. The standard length of the adjustable coolant hose is 13 segments, but the number of segments can be customized upon request.

♦Dimensional Data & Technical Data

Model	Outlet Num.	Air Inlet Bore	Oil Inlet Bore	Oil-Air Outlet Bore	A (mm)	B (mm)	Discharge Volume/Stroke	Operating Oil Pressure Range	Operating Air Pressure Range	Suitable Viscosity	N.W (g)
CO-1 Spray Gun	1	Ø6xPT1/8	Ø6 (M10xP1.0)	-	20.0	34	0.01cc		4-7		271
CO-1	1			Ø4 (M8xP1.0)	20.0	34	0.03cc 0.06cc 0.10cc 0.16cc	15-30 kgf/cm²	kgf/cm² (Air Volume Fixed)	Oil 10-90 cSt@40°C	209
CO-2	2		Ø6 (M10xP1.0)		36.5	50					308
CO-3	3	Ø6xPT1/8			52.0	66					408
CO-4	4	10	(IVIIOXPI.U)	(IVIOXP1.0)	68.0	82					506
CO-5	5				85.0	99					617
OA-1	1				20.0	34	0.02		4-7		217
OA-2	2		Ø6	de	36.5	50	0.03cc	15-30	kgf/cm²	Oil	324
OA-3	3	Ø6xPT1/8	The second secon	Ø4	52.0	66	0.06cc			10-90	431
OA-4	4		(M10xP1.0) (N	(M8xP1.0)	68.0	82	0.10cc	kgf/cm²	(Air Volume	rSt@40°C	537
OA-5	5				85.0	99	0.16cc		Adjustable)		656

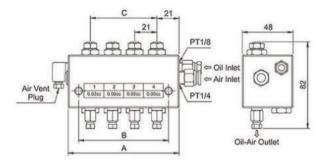
♦Order Code



OC Type Oil-Air Volume Distributor (Standard Type & Quick Coupling Type)



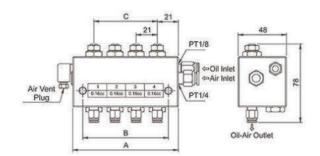
OC-4-A-2222



Dimensional Drawing of OC-4-A-2222



OC-4-B-5555



Dimensional Drawing of OC-4-B-5555

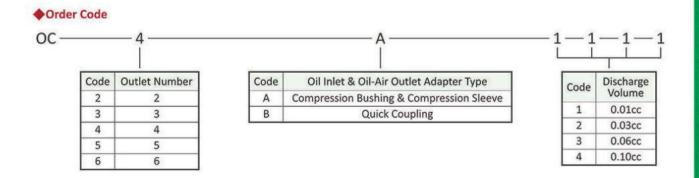
♦Features

- 1. OC volume distributor can deliver a precisely metered quantity of oil to each lubrication point.
- 2. OC has to work with a pressure-relief type oil lubricator and discharge oil during the operation time of the lubricator.
- 3. OC mixes a metered quantity of oil with an air stream to form an oil-air mixture, which can spray to the lubrication points evenly and save oil consumption.
- 4. The air volume of OC is adjustable so that the user can adjust the air volume for each outlet to have even air for different pipe lengths.
- 5. OC is suitable for cutting machines for micro lubrication and cooling effects. For example, POA or PNC03 lubricator with OC can apply in lubricating a spindle with a speed between 15,000min⁻¹ to 20,000 min⁻¹.
- There are two adapter options for inlets and outlets of OC: (1) compression bushing and sleeve type; (2) quick coupling type.
- Recommend using quick coupling with N12 nylon pipe. Please refer to page 110 for connecting and disconnecting quick couplings.

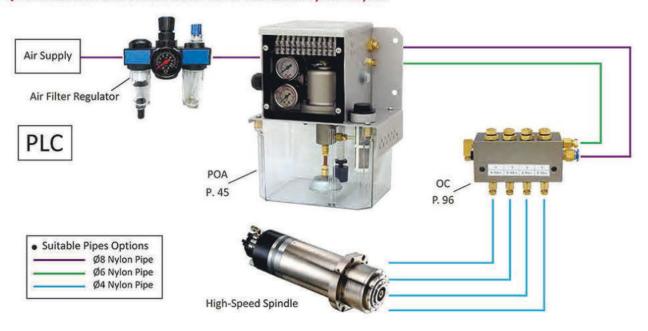
◆Dimensional Data & Technical Data

								Discharge	Operating	Operating		N.W. (g)	
Model	Outlet Num.	Air Inlet Bore	Oil Inlet Bore	Oil-Air Outlet Bore	A (mm)	B (mm)	C (mm)	Volume	Oil Pressure Range	Air Pressure Range	Suitable Viscosity	Standard Type	Quick Coupling Type
OC-2	2				63	43	21	0.01cc	20-30	3.5-7	Oil	527	523
OC-3	3		de	da	84	64	42	0.03cc				706	700
OC-4	4	Ø8xPT1/4	/4 Ø6 (M10xP1.0)	Ø4	105	85	63	0.06cc	kgf/cm²	7237	10-68	884	874
OC-5	5	.00		(M8xP1.0)	126	106	84	0.10cc	Kgi/Cm	kgf/cm²	cSt@40°C	1064	1051
OC-6	6				147	127	105	0.16cc				1241	1229

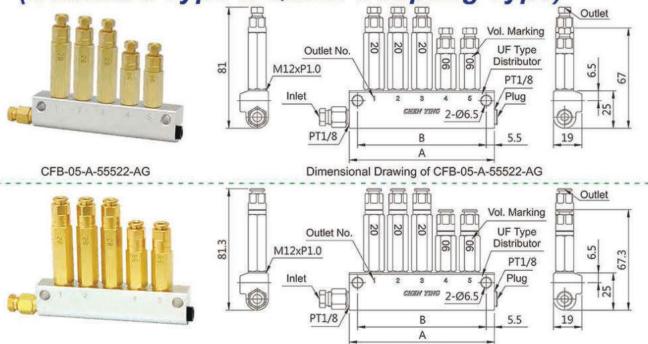
OC Type Oil-Air Volume Distributor (Standard Type & Quick Coupling Type)



◆POA Lubricator and OC Distributor Oil-Air Lubrication System Layout



CFB Type Grease Volume Distributor (Standard Type & Quick Coupling Type)



Features

CFB-05-B-55522-AG

- 1. CFB volume distributor can deliver a precisely metered quantity of grease to each lubrication point.
- CFB has to work with a pressure-relief type grease lubricator and discharge grease during the operation time of the lubricator.

Dimensional Drawing of CFB-05-B-55522-AG

- CFB is designed as a singular outlet unit, which can be assembled with a UF type distributor to increase the outlet number from one to twelve outlets.
- The main pipe should be a metal pipe or PPST50 high-pressure flexible hose. The inner diameter pipe should be larger than 4mm for NLGI0 grease.
- 5. There are two adapter options for inlets and outlets: (1) compression bushing and sleeve type; (2) quick coupling type.
- Recommend using quick coupling with N12 nylon pipe. Please refer to page 110 for connecting and disconnecting quick couplings.

Dimensional Data & Technical Data of CFB Distributor

		Outlet Bore	Operating Pressure Range		Discharge	N.W. (g)		
Model	Outlet Num.			Suitable Viscosity	Volume/Stroke	Standard Type	Quick Coupling Type	
		Ø4			0.03cc (03)	35.3	40.1	
			30-120	Grease	0.06cc (06)	35.1	39.9	
					0.10cc (10)	34.9	39.7	
CFB-01	1				0.16cc (16)	34.4	39.2	
CFB-01	1	(M8xP1.0)	kgf/cm ²	NLGI 000-0	0.20cc (20)	48.3	53.1	
				000-0	0.30cc (30)	47.5	52.3	
					0.40cc (40)	46.8	51.6	
					0.50cc (50)	46.0	50.8	

※ CFB-01 has to be assembled with UF-01.

♦Order Code

Outlet Number
Outlet Number
Outlet Nounder
Outlet Adapter Type
Outlet Adapter Type
Outlet O7 7 Outlets
One Plugged 5 0.20cc

Ø6 Straight Adapter with

OI	Loutiet	07	/ Outlets
02	2 Outlets	08	8 Outlets
03	3 Outlets	09	9 Outlets
04	4 Outlets	10	10 Outlets
05	5 Outlets	11	11 Outlets
06	6 Outlets	12	12 Outlets

tlet Adapter Type	Discharge Volume						
Compression	0	Plugged	5	0.200			
Bushing	1	0.03cc	6	0.300			
& Sleeve	2	0.06cc	7	0.40c			
Quick Coupling	3	0.10cc	8	0.500			
*	4	0.16cc					
	Compression Bushing & Sleeve	Compression 0 1	Compression	Compression 0 Plugged 5 Bushing 1 0.03cc 6 & Sleeve 2 0.06cc 7 Quick Coupling 3 0.10cc 8			

	inlet rittings
٨	Ø6 Straight Adapter with
A	Compression Bushing & Sleeve
	Ø8 Straight Adapter with
В	Compression Bushing & Sleeve
D	Ø6 Quick Straight Coupling
G	Closure Plug
X	Without Fittings
S	Special Request

Dimensional Data of UF Distributor

Inlet

Bore

Inner Thread

PT1/8

B

22

38

54

70

102

118

166 145.3

(mm) (mm)

33

49

65

81

97

113

129

145

161

177

193

209

N.W.

(g)

24.3

38.8

50.6

64.2

77.3

89.3

105.7

134 119.7

150 131.8

182 159.4

198 172.1

Outlet

Num

2

3

4

6

7

8

9

10

11

12

Model

UF-01

UF-02

UF-03

UF-04

UF-05

UF-06

UF-07

UF-08

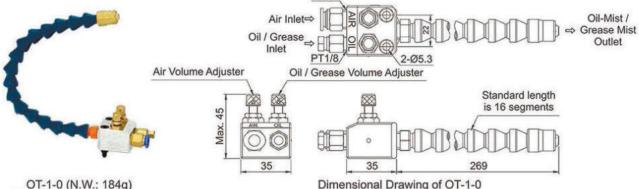
UF-09

UF-10

UF-11

UF-12

OT Type Spray Gun (Air and Oil / Grease Volume Adjustable)



Features

- 1. OT spray gun is suitable for working with resistance oil types, POM oil pneumatic types, and POM-A/POM-AP grease pneumatic types
- 2. OT spray gun has one air inlet and one oil or grease inlet. The oil-mist or grease-mist mixture is superior without dripping.
- 3. The volume of air and oil or grease is adjustable upon the need. Recommend using air pressure supply between 3.5 to 5kgf/cm2.
- 4. OT spray gun can add a magnetic base that can attach to any magnetic metal surface and relocate quickly.
- 5. The standard length of the adjustable coolant hose is 16 segments, but the number of segments can be customized upon request.

Order Code Air Inlet Bore Oil/Grease Inlet Bore Ø8xPT1/4 Ø4xPT1/8

Special Request Add a Magnetic Base

Ø6xPT1/8

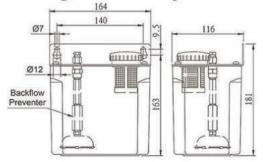
※ If OT works with POM-A and POM-AP grease lubricators, the grease inlet bore should be Ø4xPT1/8.

1

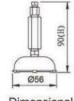
OTS Spray Gun Set (Air and Oil Volume Adjustable)



OTS-1-0 (N.W.: 1103g) (OT spray gun with an accessory kit)



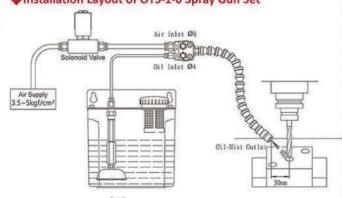
Dimensional Drawing of 2-Liter Oil Tank



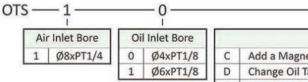
Dimensional Drawing of **Backflow Preventer**

- 1. OTS spray gun set can work independently without a lubricator based on the siphon principle. It is suitable for cutting machines for high-speed micro lubrication and cooling effects.
- 2. Standard OTS has an accessory kit that contains a 2-liter oil tank set, a backflow preventer, and a nylon pipe with a length of either Ø4x300cm or Ø6x150cm, depending on the oil inlet bore is Ø4 or Ø6.
- 3. Recommend using OTS with oil, cutting fluid, or water that the viscosity range is 0-68 cSt@40°C. Forbid to use any volatile oil that contains ester or ethylene glycol.

Installation Layout of OTS-1-0 Spray Gun Set

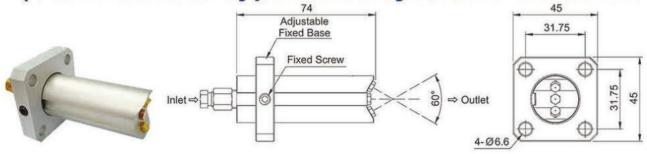


Order Code



	Special Request							
С	Add a Magnetic Base							
D	Change Oil Tank from 2L to 4L							
Ε	Change 2L Oil Tank from Single Outlet to Dual Outlets (Add a Second OT Spray Gun)							
X	W/O 2L Accessory Kit							
	(Only a backflow preventer and a nylon pipe will be supplied.)							

OE Type Spray Gun (Three-Nozzle Type with Adjustable Fixed Base)



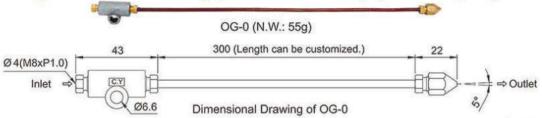
OE-0 (N.W.: 136g)

Dimensional Drawing of OE-0

Features

- OE spray gun has three nozzles that can effectively lubricate and cool the cutting tools. Its
 adjustable fixed base allows it to be adjusted back and forth according to the position of the
 cutting tools.
- The OE with flexible hoses can move along with the cutting tools or workpieces. It is suitable for sawing machines.
- Recommend working with POM minimum quantity oil lubricator or CEN22 to CEN25 oil-mist lubricators.

OG Type Spray Gun (Single-Nozzle Type with Copper Pipe)

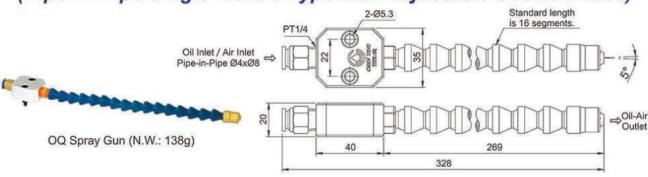


Features

- OG spray gun is suitable for machines that require fixed lubrication points, such as tapping machines.
- 2. The standard length of the copper pipe is 300mm, but it can be customized upon request.
- Recommend working with POM minimum quantity oil lubricator or CEN22 to CEN25 oil-mist lubricators.

OQ Type Spray Gun

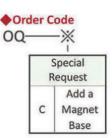
(Pipe-in-Pipe Single-Nozzle Type with Adjustable Coolant Hose)



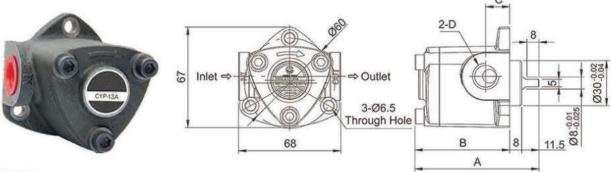
Dimensional Drawing of OQ Spray Gun

◆Features

- The oil and air are mixed in the nozzle of the OG spray gun right before spraying to the lubrication point that creates the superior oil-air mixture.
- 2. OQ is suitable for machines that require non-fixed lubrication points, such as milling machines.
- 3. OQ spray gun can add a magnetic base that can attach to any magnetic metal surface and relocate quickly.
- The standard length of the adjustable coolant hose is 16 segments. The length can be customized upon request.
- OQ's oil or air inlets must be assembled with Ø4xØ8 pipe-in-pipe, and only work with a POM-type lubricator with an oil outlet bore Ø8.



Rotary Oil Pump (Clockwise or Anticlockwise)



Features

- Rotary oil pump is also called trochoid oil pump or triangular oil pump. It can only rotate in one direction, clockwise or anticlockwise.
- 2. Standard rotary oil pump rotates clockwise, but anticlockwise is available on request.
- 3. The standard rpm is from 1420 to 1720 min⁻¹. Low rpm 450 to 1200 min⁻¹ is only available for CYP-12L type.
- Recommend adding a CYP-AV adjustable pressure valve to a rotary oil pump. The range of pressure adjustment is 0 to 5kgf/cm².
- Recommend working with a 1/4HP PMO-0 motor or a PMO-2 motor with connector. It is also suitable for working with CLSA, CLSB, and CLST circulating electric lubricators for lubricating and cooling purposes. It can be applied widely to various machines, such as special-purpose machines, machine tools, gearboxes, and cooling machines.

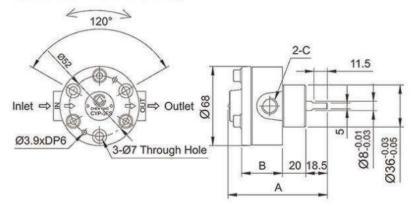
◆Dimensional Data & Technical Data

Model	Applicable Rotational Speed (min ⁻¹)	Discharge Volume (L/min)	A (mm)	B (mm)	C (mm)	D Bore	Max. Pressure	Suitable Viscosity	Suitable Temp. Range	N.W. (g)
CYP-10A	1420 - 1720	1.1 - 1.4	60.5	41	12	PT1/8				616
CYP-11A-1	1420 - 1720	2.2 - 2.7	64.5	45	12	PT1/8				665
CYP-11A-2	1420 - 1720	2.2 - 2.7	64.5	45	12	PT1/4	-1 (/ 2	32-68	0.0000	664
CYP-12A	1420 - 1720	3.7 - 4.5	70.5	51	12	PT1/4	5 kgf/cm ²	cSt@40°C	0-90°C	751
CYP-12L	450 - 1200	1.1 - 3.0	62.5	43	11	PT1/4				650
CYP-13A	1420 - 1720	6.5 - 7.9	82.5	63	16	PT3/8				924

- If you need to add an adjustable pressure valve to the rotary oil pump, please add AV after the model number when you place an order. For example, CYP-11A-1-AV stands for one set of CYP-11A-1 assembled with CYP-AV.
- * After adding the adjustable pressure valve, the net weight increases by 110g.

Reversible Oil Pump (Clockwise and Anticlockwise)





♦Features

- 1. The direction of the inlet and outlet is fixed; the rotating shaft can rotate either clockwise or anticlockwise.
- 2. It is only suitable for assembling with gearboxes, not with motors.

Dimensional Data & Technical Data

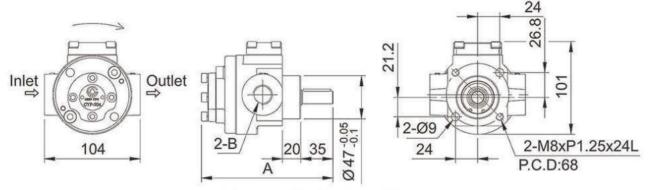
Model	Discharge Vo	A	В	С	Max.	Cuitable Missasitus	Suitable Temp.	N.W.	
	1420min ⁻¹	1720min ⁻¹	(mm)	(mm)	Bore	Pressure	Suitable Viscosity	Range	(g)
CYP-1FS	1.7	2.0	85	35					1000
CYP-2FS	2.7	3.2	89	39	PT1/4	5 kgf/cm ²	32-68 cSt@40°C	0-90°C	1100
CYP-3FS	3.7	4.5 93 43				1200			

Heavy Oil Pump

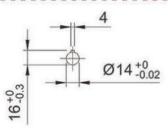


CYP-204 Heavy Oil Pump

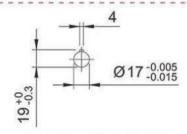
CYP-204-HA Heavy Oil Pump with Adjustable Pressure Valve



Dimensional Drawing of Heavy Oil Pump



Shaft Size of CYP-204, 206, 208, 210, 212



Shaft Size of CYP-216, 220

♠Features

- 1. The discharge volume and the maximum pressure are much higher than the rotary oil pump.
- Recommend adding a CYP-HA adjustable pressure valve to a heavy oil pump. The suitable range of pressure adjustment is 0 to 10kgf/cm². The proper operating pressure of the heavy oil pump should be under 10kgf/cm² to prevent damage due to high pressure.
- Recommend working with a 1/2HP and above motor for lubricating and cooling purposes. It can be applied widely to
 various industrial machines, such as machine tools, screw machines, special-purpose machines, gearboxes, and medium
 to large machines.
- If you need the heavy oil pump to be assembled with a PMO-0 motor, please refer to P.103 and provide us with the order code.

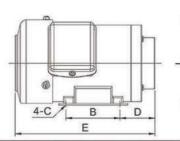
◆Dimensional Data & Technical Data

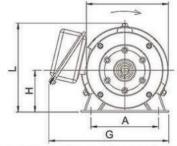
Model	Discharge Volume (L/min)		A	В	Applicable Rotational Speed	Max. Pressure	Suitable	N.W.	Suitable PMO-0 Motors (Minimun Horsepower)	
	1420min ⁻¹	1720min ⁻¹	(mm)	Bore	(min ⁻¹)	(kgf/cm ²)	Viscosity	(kg)	W/CYP-HA	W/O CYP-HA
CYP-204	7.5	9.0	143	PT1/2		20	32-220 cSt@40°C	3.2	1/2 HP	1 HP
CYP-206	11.3	13.5	148	PT3/4				3.3	1/2 HP	1 HP
CYP-208	15.3	18.5	153	PT3/4				3.5	1/2 HP	1 HP
CYP-210	19.0	23.0	158	PT3/4	450 2000			3.7	1/2 HP	2 HP
CYP-212-1	21.9	26.5	163	PT3/4	450 – 2000	20		3.9	1 HP	2 HP
CYP-212-2	21.9	26.5	163	PT1				3.9	1 HP	2 HP
CYP-216	29.3	35.5	173	PT1				4.3	1 HP	2 HP
CYP-220	34.3	41.5	183	PT1				4.6	2 HP	

- If you need to add an adjustable pressure valve to a heavy oil pump, please add HA after the model number when you
 place an order. For example, CYP-216-HA stands for one set of CYP-216 assembled with CYP-HA.
- After adding the adjustable pressure valve, the net weight increases by 322g.
- ※ Heavy oil pump can add a holder on request. The fixed hole distance is 84x38mm, and the height is 134mm.

Steel Plate Frame Horizontal Motor



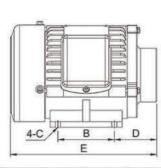


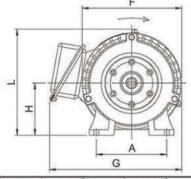


HP	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	L (mm)	N.W. (kg)
1/8	70	60	Ø7	51.0	181	100.7	152	56	115	5.0
1/4	100	80	Ø8	51.5	207	121.3	177	62	132	6.5

Cast Iron Frame Horizontal Motor



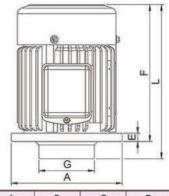


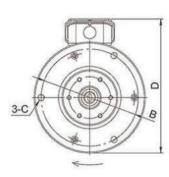


НР	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	L (mm)	N.W. (kg)
1/4	100	80	Ø7	60.0	207.5	142	187.0	74	150.0	8.8
1/2	125	100	Ø10	68.0	247.5	175	225.5	80	167.5	13.0
1	125	100	Ø10	75.5	262.5	175	225.5	80	168.0	15.0
2	140	125	Ø12	72.5	284.0	196	251.0	90	188.0	21.0

Cast Iron Frame Vertical Motor







HP	A	B	C	D	E	F	G	L	N.W.
	(mm)	(kg)							
1/4	Ø160	Ø140	Ø9	193	12	190	Ø80	215	10.0

◆Order Code PMO-0 —

Motor HP
01 1/8 HP
02 1/4 HP
04 1/2 HP
08 1 HP
16 2 HP

1		Voltage											
1	A	1Ø110V	G	3Ø230/460V									
1	С	1Ø220V	Н	3Ø240/480V									
1	D	3Ø220/380V	M	3Ø220V									
1	E	3Ø220/440V	N	3Ø380V									
1	F	3Ø208/415V	X	Special Voltage									

	Туре	
	Vertical Type	
1	(For 1/4HP Cast	
	Iron Frame Only)	
3	Horizontal Type	

	Frame
	Steel Plate
1	(For 1/8HP, 1/4HP)
	Cast Iron
2	(For 1/4HP, 1/2HP,
	1HP, 2HP)

^{A standard dual-voltage motor is connected for low voltage. Please specify if you need it to be connected to high voltage when placing an order.}

1/4HP Motor with Rotary Oil Pump

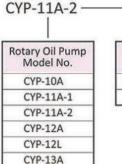




CYP-11A-2-0-1-D

CYP-11A-2-0-2-D

Order Code



Adjustable Pressure Valv CYP-AV	
0	W/O CYP-AV
1	W/CYP-AV

-	
	1/4HP Motor Type
1	Steel Plate Frame
1	Horizontal Motor
2	Cast Iron Frame
2	Horizontal Motor
3	Cast Iron Frame
3	Vertical Motor

	Vo	Itage	
Α	1Ø110V	G	3Ø230/460V
С	1Ø220V	Н	3Ø240/480V
D	3Ø220/380V	M	3Ø220V
E	3Ø220/440V	N	3Ø380V
F	3Ø208/415V	Х	Special Voltage

1/2HP and above Cast Iron Frame Horizontal Motor with Heavy Oil Pump

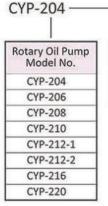


CYP-204-1-04-D



CYP-208-1-08-D-Y

♦Order Code



Adjustable Pressure Valv CYP-HA		
0	W/O CYP-HA	
1	W/CYP-HA	

Cast Iron Frame Horizontal Motor		
04	1/2 HP	
08	1 HP	
16	2 HP	

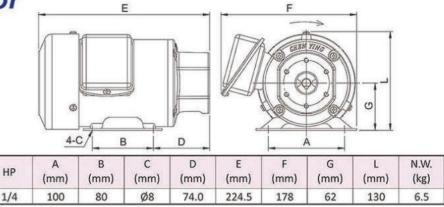
	Voltage
Α	1Ø110V
С	1Ø220V
D	3Ø220/380V
E	3Ø220/440V
F	3Ø208/415V
G	3Ø230/460V
Н	3Ø240/480V
M	3Ø220V
N	3Ø380V
X	Special Voltage

	Special Request
	Change to TECO
M	Motor, add a
	Coupling, Mounting
	Base, and Cover
	(For 1HP Only)
	Shaft Size Ø19, add a
Υ	Coupling, Mounting
	Base, and Cover
	(For 1HP Only)

- A standard dual-voltage motor is connected for low voltage. Please specify if you need it to be connected to high voltage
 when placing an order.
- ※ Recommend adding an adjustable pressure valve to prolong the lifetime of the motor and oil pump.

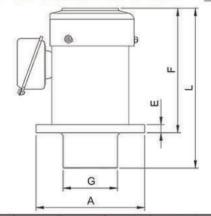
Steel Plate Frame Horizontal Motor PMO-2 with Connector

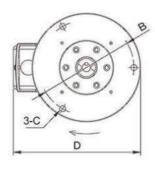








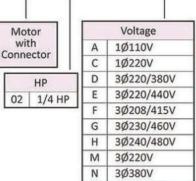




НР	A	B	C	D	E	F	G	L	N.W.
	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(kg)
1/4	Ø160	Ø140	Ø9	188.0	11	184	Ø80	237	7.9

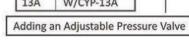
Order Code

PMO-2 - 02



	Voltage		Туре
Α	1Ø110V	1	Vertical
С	1Ø220V	3	Horizonta
D	3Ø220/380V		
E	3Ø220/440V	1	
F	3Ø208/415V	1	
G	3Ø230/460V	1	
Н	3Ø240/480V	1	
M	3Ø220V	1	
N	3Ø380V	1	

		cial Request otary Oil Pump)	Optional
tal	10A	W/CYP-10A	
	11A-1	W/CYP-11A-1	
	11A-2	W/CYP-11A-2	
	12A	W/CYP-12A	
	12L	W/CYP-12L	
	13A	W/CYP-13A	





PMO-2-02-D-3-12A



- 💥 A standard dual-voltage motor is connected for low voltage. Please specify if you need it to be connected to high voltage when placing an order.
- 🔆 Recommend adding an adjustable pressure valve to prolong the lifetime of the motor and oil pump.

PMO-2-02-D-3-12A-AV

Adjustable Pressure Valve

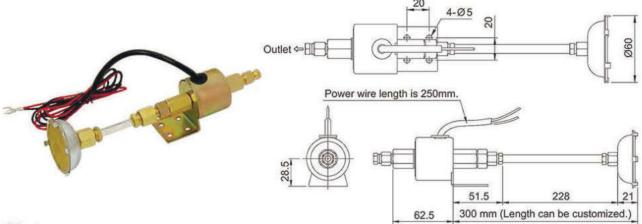
Special Voltage





Model	Pressure Adjustment Range (kgf/cm²)	Suitable Oil Pump	N.W. (g)	
CYP-AV	0 - 5	Rotary Oil Pump	352	
CYP-HA	0 - 10	Heavy Oil Pump	565	

Electromagnetic Pump



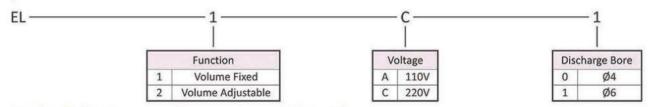
Features

- 1. Electromagnetic pump operates according to the principle of electromagnetic with low power consumption.
- 2. Electromagnetic pump is compact and suitable for limited workspace.
- Recommend applying electromagnetic pumps to small-size machines that require continuous lubrication and cooling, such as lathes, milling machines, grinding machines, and press machines.
- 4. The standard length of the pipe is 300mm, but it can be customized upon request.
- 5. The pipe's length and the lubricant's viscosity affect the discharge volume. The shorter the pipe length or the thinner the lubricant, the higher the discharge volume.
- 6. The higher the temperature, the lower the operating pressure.

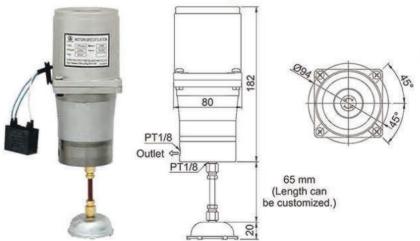
◆Technical Data

Model	Function	Power	Voltage	Discharge Volume	Outlet Bore	Operating Pressure	Suction Power	Max. Temp. Endurance	Suitable Viscosity	N.W. (g)
EL-1	Volume Fixed	25W	110V or 220V	300 cc/min	Ø4 or Ø6		30±5	85°C	32-68	400
EL-2	Volume Adjustable						cmHg		cSt@40°C	450

♦Order Code



GA-25 Gear Pump with Motor



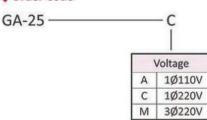
Features

- 1. GA-25 is compact and suitable for limited workspace.
- The gear pump of GA-25 is made of aluminum alloy and assembled with a 25W induction motor to provide stable output pressure, low operating noise, and long service life.
- The standard length of the pipe is 65mm, but it can be customized upon request.

▲Technical Data

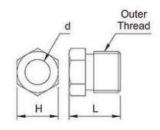
V	mean Date						
Motor	Voltage	Ampere	Hertz	Max. Discharge Volume	Max. Pressure	Suitable Viscosity	N.W (kg)
25W	1Ø110V	0.6A	50/60Hz	250 cc/min	12 Kgf/cm²	32-68 cSt@40°C	3
	1Ø220V	0.3A	Compatible				
	3Ø220V	0.3A					

♦Order Code



Compression Bushing

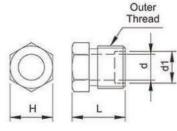




Model	Bore	d	L (mm)	H (mm)	Outer Thread	N.W. (g)
PA-4	Ø4	Ø4.1	12.0	8	M8xP1.0	3
PA-6	Ø6	Ø6.1	12.5	10	M10xP1.0	4
PA-8	Ø8	Ø8.1	14.0	14	M14xP1.5	9
PA-10	Ø10	Ø10.1	15.0	16	M16xP1.5	12
PA-12	Ø12	Ø12.1	16.0	19	M18xP1.5	16

One-Side-Tapered Compression Bushing



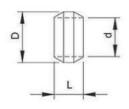


Model	Bore	d	d1	L (mm)	H (mm)	Outer Thread	N.W. (g)
PA104	Ø4	Ø4.1	Ø5.5	12.0	8	M8xP1.0	3.0
PA106	Ø6	Ø6.1	Ø7.5	12.5	10	M10xP1.0	4.0
PA108	Ø8	Ø8.1	Ø9.2	14.0	14	M14xP1.5	9.7

※ One-Side-Tapered Compression Bushing only works with One-Side-Tapered Compression Sleeve.

Compression Sleeve

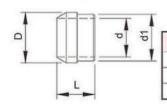




Model	Bore	d	D	L (mm)	N.W. (g)
PB-4	Ø4	Ø4.1	Ø6.0	4.6	0.3
PB-6	Ø6	Ø6.1	Ø8.0	4.6	0.6
PB-8	Ø8	Ø8.1	Ø11.0	7.0	2.0
PB-10	Ø10	Ø10.1	Ø13.5	8.0	3.0
PB-12	Ø12	Ø12.1	Ø16.0	9.0	4.0

One-Side-Tapered Compression Sleeve





Model	Bore	d	d1	D	L (mm)	N.W. (g)
PB104	Ø4	Ø4.1	5.4	Ø6	5.5	0.4
PB106	Ø6	Ø6.1	7.4	Ø8	6.0	0.7
PB108	Ø8	Ø8.1	9.1	Ø10	7.0	1.1

Closure Plug





PG-004

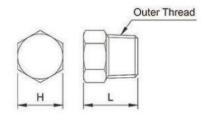
PG-1





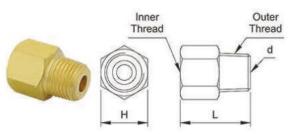
PUN0M080-1

PUN0M100-2



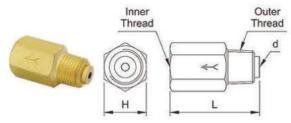
Model	Outer Thread	L (mm)	H (mm)	N.W. (g)
PG-004	M8xP1.0	12	8	4
PG-1	PT1/8	12	10	6
PUN0M080-1	M8xP1.0 (Central Bore Ø3, Long Type)	16	8	6
PUN0M100-2	M10xP1.0 (Central Bore Ø6)	16	10	8

Straight Adapter



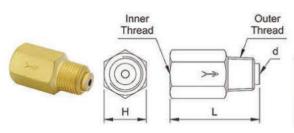
		St	andard Mod	dels				
Model	Bore	Inner Thread	Outer Thread	d	L (mm)	H (mm)	N.W. (g)	Set
PD-401			PT1/8	ØЗ	18	10	8	*
PD-402	Ø4	M8xPT1.0	PT1/4	Ø3	18	14	17	*
PD-403			PT3/8	Ø3	18	17	28	*
PD-601			PT1/8	Ø4	18	12	8	*
PD-602	Ø6	M10xP1.0	PT1/4	Ø5	18	14	14	*
PD-603			PT3/8	Ø5	18	17	24	*
PD-801			PT1/8	Ø5	26	17	22	*
PD-802	Ø8	M14xP1.5	PT1/4	Ø6	26	17	26	*
PD-803			PT3/8	Ø7	26	17	30	*
PD-1002	dea	144 C D4 E	PT1/4	Ø7	30	19	33	*
PD-1003	Ø10	M16xP1.5	PT3/8	Ø9	30	19	35	*
PD-1202	des	1440 04 5	PT1/4	Ø7	32	21	42	*
PD-1203	Ø12	M18xP1.5	PT3/8	Ø9	34	21	46	*
		Non	-Standard N	lodel	s			
Model	Bore	Inner Thread	Outer Thread	d	L (mm)	H (mm)	N.W. (g)	Set
PD-406			M6xP0.75	Ø2	20	10	6	*
PD-4061			M6xP1.0	Ø2	20	10	6	*
PD-408	Ø4	M8xPT1.0	M8xP1.0	Ø3	18	10	6	*
PD-410			M10xP1.0 (TAP)	Ø3	18	10	6	*
PD-606			M6xP0.75	Ø2	18	12	8	*
PD-6061			M6xP1.0	Ø2	18	12	8	*
PD-608	Ø6	M10xP1.0	M8xP1.0	Ø3	21	12	8	*
PD-610	100000		M10xP1.0 (TAP)	Ø4	18	12	8	*
PD-101	*	DT1 /0	PT1/8	-	18	12	9	
PD-102	-	PT1/8	PT1/4	-	18	14	16	
PD-202	-	DT4 /4	PT1/4	-	18	16	14	
PD-203		PT1/4	PT3/8		26	17	34	

One-Way Flow Straight Adapter



Model	Bore	Inner Thread	Outer Thread	d	L (mm)	H (mm)	N.W. (g)	Set
PD-4011	Ø4	M8xPT1.0	PT1/8	Ø2.2	24.5	10	11	*
PD-6011	Ø6	M10xP1.0	P11/8	W2.2	25.5	12	14	*

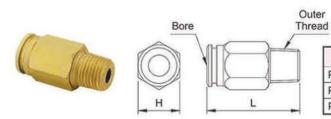
Reverse Flow Straight Adapter



Model	Bore	Inner Thread	Outer Thread	d	L (mm)	H (mm)	N.W. (g)	Set
PD-4012	Ø4	M8xPT1.0	PT1/8	Ø2.2	24.5	10	11	*
PD-6012	Ø6	M10xP1.0	P11/8	Ø2.2	25.5	12	14	*

The model with an " * " mark can be assembled with compression bushing and compression sleeve as a set. If you need the model as a set, please specify when you place an order.

Quick Straight Coupling

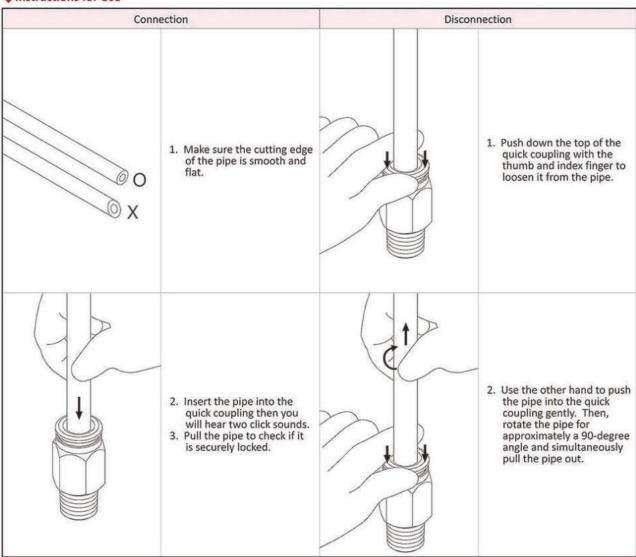


Model	Bore	Outer Thread	L (mm)	H (mm)	N.W. (g)
PD701A02	Ø4	PT1/8	10	22	9
PD702A02	Ø6	PT1/8	12	27	13
PD702V01	Ø6	M10xP1.0 (TAP)	12	27	13

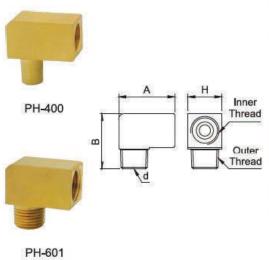
◆Features

- 1. Quick straight coupling is designed for replacing pipes efficiently.
- 2. Chen Ying Quick straight coupling has high pressure endurance of 60kgf/cm², which is higher than general quick couplings in the market that commonly only endure 15kgf/cm² of pressure.
- 3. Recommend using quick straight coupling with flexible pipes such as nylon 12 pipes and PE pipes.
- 4. Quick straight coupling is suitable for air, oil, and grease use. Incompatible lubricants may deteriorate the inner rubber.

Instructions for Use

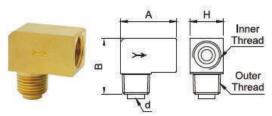


Elbow Adapter



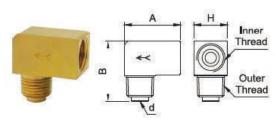
		100	Standard N	/lodel	S		(4)		
Model	Bore	Inner Thread	Outer Thread	d	A (mm)	B (mm)	H (mm)	N.W. (g)	Set
PH-400			Ø5.7-6.2	Ø3	18	18	10	13	*
PH-401	Ø4	M8xPT1.0	PT1/8	Ø4	18	18	10	13	*
PH-402	1767232-0	1.000 PSSC0 - NOS 1040-1	PT1/4	Ø5	20	21	14	32	*
PH-601	de		PT1/8	Ø4	20	20	12	20	*
PH-602	Ø6	M10xP1.0	PT1/4	Ø5	20	21	14	29	*
PH-801		, , , , , , , , , , , , , , , , , , ,	PT1/8	Ø4	26	29	17	52	*
PH-802	Ø8	M14xP1.5	PT1/4	Ø6	26	29	17	56	*
PH-803	800000000	And Well of Wall Walland	PT3/8	Ø8	26	29	17	59	*
PH-1002	den		PT1/4	Ø7	29	31	19	70	*
PH-1003	Ø10	M16xP1.5	PT3/8	Ø8	29	31	19	76	*
PH-1202			PT1/4	Ø7	33	34	21	91	*
PH-1203	Ø12	M18xP1.5	PT3/8	Ø10	33	34	21	95	*
		N	on-Standard	Mod	lels				
Model	Bore	Inner Thread	Outer Thread	d	A (mm)	B (mm)	H (mm)	N.W. (g)	Set
PH-406	8)	*	M6xP0.75	Ø2	18	18	10	13	*
PH-4061	N.	85	M6xP1.0	Ø2	18	18	10	13	*
PH-408	Ø4	M8xPT1.0	M8xP1.0	Ø3	18	18	10	14	*
PH-410			M10xP1.0 (TAP)	Ø2	20	20	12	24	*
PH-6061		30,	M6xP1.0	Ø2	20	20	12	20	*
PH-608	de	1440 D4 0	M8xP1.0	Ø3	20	20	12	20	*
PH-610	Ø6	M10xP1.0	M10xP1.0 (TAP)	Ø4	20	20	12	22	*
PH-101	1/3	PT1/8	PT1/8	Ø4	20	20	12	17	155
PH00AV01	22	PT1/8	M10xP1.0 (TAP)	Ø4	20	20	12	21	
PH-102	12	PT1/8	PT1/4	Ø5	20	21	14	30	12/2
PH-303	S#	PT3/8	PT3/8	Ø10	33	34	21	91	

One-Way Flow Elbow Adapter



Model	Bore	Inner Thread	Outer Thread	d	A (mm)	B (mm)	H (mm)	N.W. (g)	Set
PH-4011	Ø4	M8xP1.0	DT1 /0	do o	18	19.5	10	11	*
PH-6011	Ø6	M10xP1.0	PT1/8	W2.2	20	21.5	12	14	*

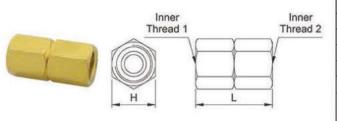
Reverse Flow Elbow Adapter



Model	Bore	Inner Thread	Outer Thread	d	A (mm)	B (mm)	H (mm)	N.W. (g)	Set
PH-4012	Ø4	M8xP1.0		daa	18	19.5	10	11	*
PH-6012	Ø6	M10xP1.0	PT1/8	Ø2.2	20	21.5	12	14	*

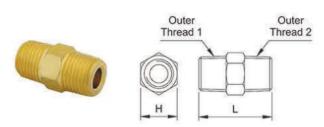
The model with an " * " mark can be assembled with compression bushing and compression sleeve as a set. If you need the model as a set, please specify when you place an order.

Connect A/B



		Cor	nector A				
Model	Bore	Inner Thread 1	Inner Thread 2	H (mm)	L (mm)	N.W. (g)	Set
PM-4	Ø4	M8xP	T1.0	10	26	17	*
PM-6	Ø6	M10x	M10xP1.0		26	12	*
PM-8	Ø8	M14xP1.5		17	33	40	*
PM-10	Ø10	M16xP1.5		19	37	51	*
PM-12	Ø12	M18xP1.5		21	37	65	*
		Cor	nector B				
Model	Bore	Inner Thread 1	Inner Thread 2	H (mm)	L (mm)	N.W. (g)	Set
PN-4	Ø4	M8xPT1.0	PT1/8	12	23	16	*
PN-6	Ø6	M10xP1.0	PT1/8	12	23	12	*
PN-10	Ø10	M16xP1.5	PT1/4	19	32	58	*

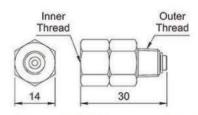
Connector



Model	Inner Thread 1	Inner Thread 2	H (mm)	L (mm)	N.W. (g)	Set
CN-101	DT4 /0	PT1/8	10	21	8.0	
RN-102	PT1/8	PT1/4	14	23	16.0	
CN-202	PT1/4	PT1/4	14	25	10.0	
RN-203		PT3/8	17	27	18.0	
PROCPS	140. D1 0	PT1/8	10	22	8.4	
PROCPV-1	M8xP1.0	M10xP1.0	10	22	6.6	
PTD10010	1410-010	PT1/8	10	20	8.5	
PTD10100	M10xP1.0	M10xP1.0	10	20	7.5	

Swivel Straight Adapter

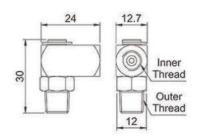




Model	Inner Thread	Outer Thread	N.W. (g)	Set
SS-101	PT1/8	PT1/8	26	
SS-401	M8xP1.0	PT1/8	28	*

Plane Swivel Elbow Adapter A

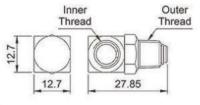




Model	Inner Thread	Outer Thread	N.W. (g)	Set
ES-401(A)	M8xP1.0	PT1/8	38	*
ES-601(A)	M10xP1.0	PT1/8	38	*

Plane Swivel Elbow Adapter B



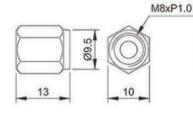


Model	Inner Thread	Outer Thread	N.W. (g)	Set
ES-101(B)	PT1/8	PT1/8	36	

X The model with an "*" mark can be assembled with compression bushing and compression sleeve as a set. If you need the model as a set, please specify when you place an order.

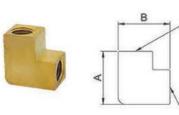
Compression Nut

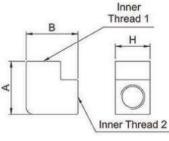




Model	Inner Thread	N.W. (g)	Set
PR-08	M8xP1.0	4	

Elbow Connector

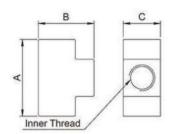




Model	Bore	d	Inner Thread 1	Inner Thread 2	A (mm)	B (mm)	H (mm)	N.W. (g)	Set
FEA-404	Ø4	Ø3	M8xP1.0	M8xP1.0	18	18	10	16.0	*
FEA-808	Ø8	Ø6	M14xP1.5	M14xP1.5	29	31	19	88.0	*
FEA-1002	Ø10	Ø8	M16xP1.5	PS1/4	29	31	19	81.5	*

3-Way Connector

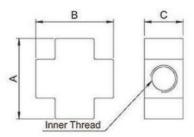




Model	Inner Thread	A (mm)	B (mm)	C (mm)	N.W. (g)	Set
PKD-01	PT1/8	29.0	21	14	34	
PKD-02	PT1/4	28.5	23	18	47	
PKD-03	PT3/8	40.0	30	21	86	

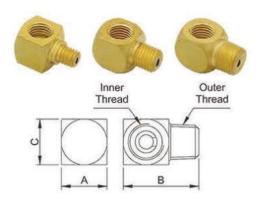
4-Way Connector





Model	Inner Thread	A (mm)	B (mm)	C (mm)	N.W. (g)	Set
PJD-01	PT1/8	28.5	28.5	14	38	
PJD-02	PT1/4	30.0	30.0	18	58	
PJD-03	PT3/8	40.0	40.0	21	105	

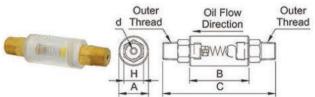
Plane Elbow Adapter



Model	Inner Thread	Outer Thread	A (mm)	B (mm)	C (mm)	N.W. (g)	Set
PI-401		PT1/8	12.7	21	12.7	13	*
PI-402	140.04.0	PT1/4	14.0	24	14.0	22	*
PI-408	M8xP1.0	M8xP1.0	12.7	21	12.7	12	*
PI-4061		M6xP1.0	12.0	20	12.0	14	*
PI-601	M10xP1.0	PT1/8	12.7	21	12.7	13	*
PI-101		PT1/8	12.7	21	12.7	17	
PI-1011		PT1/8	12.7	30	12.7	20	
PI-102	PT1/8	PT1/4	14.0	24	14.0	18	
PI-106		M6xP0.75	12.0	20	12.0	10	
PI-1061		M6xP1.0	12.0	20	12.0	10	

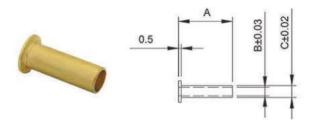
X The model with an " * " mark can be assembled with compression bushing and compression sleeve as a set. If you need the model as a set, please specify when you place an order.

Transparent Straight Adapter



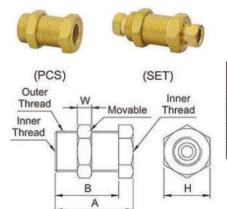
Model	d	Outer Thread	A	B (mm)	C (mm)	H (mm)	N.W. (g)	Set
DV-5	Ø2.5	PT1/8xPT1/8	15	30	57	10	25	
DV-10	Ø5.0	PT1/4xPT1/4	22	50	90	17	85	

Tube Insert



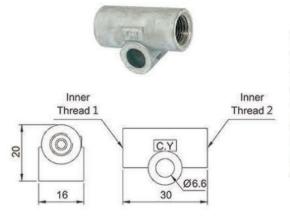
Model	Bore	A (mm)	В	С	N.W. (g)	Set
PO-403			Ø1.50	Ø2.05	0.16	
PO-4	~.	40	Ø1.60	Ø2.10	0.16	
PO-405	Ø4	10	Ø1.60	Ø2.20	0.16	
PO-401			Ø1.70	Ø2.50	0.25	
PO-601	Ø6	12	Ø3.34	Ø3.95	0.43	
PO-8	Ø8	15	Ø5.40	Ø6.00	0.73	

Connector



Model	Bore	Inner Thread	Outer Thread	A (mm)	B (mm)	H (mm)	W (mm)	N.W. (g)	Set
PM-104	Ø4	M8xP1.0	M12xP1.0	27	22	14	5	21	*
PM-106	Ø6	M10xP1.0	M14xP1.0	27	22	16	5	26	*
PM-108	Ø8	M14xP1.5	M18xP1.5	33	26	21	7	49	*
PM-110	Ø10	M16xP1.5	M20xP1.5	36	28	23	8	62	*

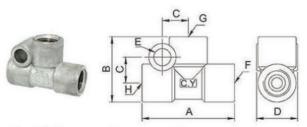
2-Way Junction A/B



		2-Way Ju	nction A		
Model	Bore	Inner Thread 1	Inner Thread 2	N.W. (g)	Set
JD-4	Ø4	M8x	27	*	
JD-6	Ø6	M10xP1.0		23	*
		2-Way Ju	nction B		
Model	Bore	Inner Thread 1	Inner Thread 2	N.W. (g)	Set
JD-601	Ø6	M10xP1.0	PT1/8	22	*
JD-406	Ø6xØ4	M10xP1.0	M8xP1.0	25	*

X The model with an " * " mark can be assembled with compression bushing and compression sleeve as a set. If you need the model as a set, please specify when you place an order.

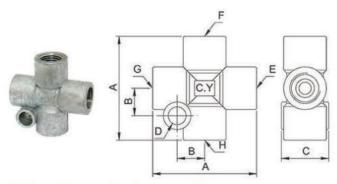
3-Way Junction



Model	Bore	Inner Thread	A (mm)	B (mm)	C (mm)	D (mm)	Ε	N.W. (g)	Set
PKD-4	Ø4	M8xP1.0	29	19.4	8.5	12	Ø6.3	16	*
PKD-6	Ø6	M10xP1.0	34	24.0	9.5	15	Ø6.3	32	*
PKD-8	Ø8	M14xP1.5	42	31.0	14.5	19	Ø6.8	64	*

If you need us to assemble other adapters to the 3-way junction for you, please use F, G, H in the drawing to indicate the position.

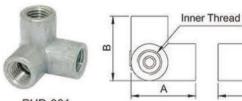
4-Way Junction



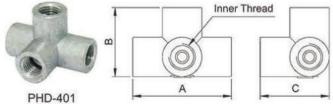
Model	Bore	Inner Thread	A (mm)	B (mm)	C (mm)	D	N.W. (g)	Set
PJD-4	Ø4	M8xP1.0	30.0	8	11.0	Ø5.3	23	*
PJD-6	Ø6	M10xP1.0	34.0	9	15.5	Ø5.8	33	*
PJD-8	Ø8	M14xP1.5	41.5	12	22.0	Ø6.8	94	*

※ If you need us to assemble other adapters to the 4-way
junction for you, please use E, F, G, H in the drawing to
indicate the position.

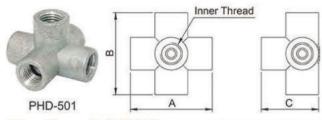
Vertical Junction



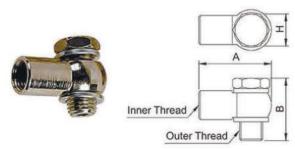
PHD-301



Model	Outlet No.	Bore	Inner Thread	A (mm)	B (mm)	C (mm)	N.W. (g)	Set
PHD-301	3			21	21	21	18	*
PHD-401	4	Ø4	M8xP1.0	30	21	21	23	*
PHD-501	5			30	30	21	27	*



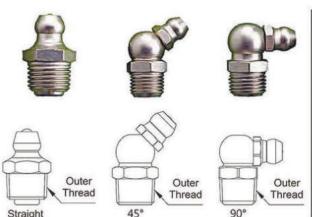
Swivel Fitting



Model	Bore	Inner Thread	Outer Thread	A (mm)	B (mm)	H (mm)	N.W. (g)	Set
SI300400 (SET)	Ø4	M8x	P1.0	25	20	11.0	17	
SI300600 (SET)	Ø6	M10:	kP1.0	30	25	12.7	33	

X The model with an " * " mark can be assembled with compression bushing and compression sleeve as a set. If you need the model as a set, please specify when you place an order.

Grease Nipple

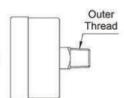


Model	Outer Thread	Angle	N.W.(g)
PJ000600		Straight	2.3
PJ000645	M6xP1.0	45°	6.0
PJ000690		90°	6.0
PJ000800		Straight	4.4
PJ000845	M8xP1.0	45°	7.7
PJ000890		90°	7.7
PJ010100		Straight	5.1
PJ010145	PT1/8	45°	8.2
PJ010190		90°	8.2
PJ010200		Straight	12.0
PJ010245	PT1/4	45°	18.0
PJ010290		90°	18.0

Horizontal Pressure Gauge



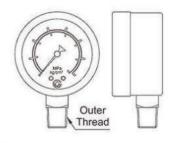




Model	Туре	Max. Pressure (kgf/cm²)	Size	Outer Thread	N.W. (g)
M06001		7			60
M06003	Dry	15	1-1/2"	PT1/8	
M06009		35			
M06029		14		PT1/8	100
M06013		40			
M06030	Oil-Filled	70			
M06022		140			
M06034		200			

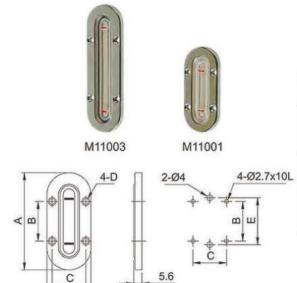
Vertical Pressure Gauge





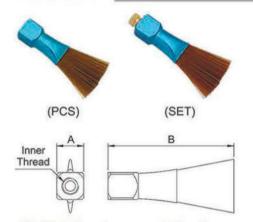
Model	Туре	Max. Pressure (kgf/cm²)	Size	Outer Thread	N.W. (g)
M06010	Dry	35	1-1/2"	PT1/8	60
M06023		10			
M06025	Oil-Filled	35	2-1/2"	PT1/4	220
M06027		100			

Oil Window



Model	A (mm)	B (mm)	C (mm)	D	E (mm)	N.W. (g)	Remarks
M11001 (SET)	66	27	22	Ø3.4	32	24	Small Oil Window (For CTA-8, CLA-6, and CLAB-6)
M11003 (SET)	98	45	23	Ø4.0	62	36	Big Oil Window (For CLA-8, CLAB-8, and Lubricators with Oil Tank Smaller than 12-Liter)

Brush



Model	Inner Thread	A (mm)	B (mm)	N.W. (g)	Set
M25006-1	Ø4 (N40::D4 O)	13	73	11.0	
M25006-1S	Ø4 (M8xP1.0)	13	73	15.0	*
M25006	dc (M10D1 0)	16	75	17.0	
M25006S	Ø6 (M10xP1.0)	16	75	21.5	*

 The model with an " * " mark is assembled with compression bushing and compression sleeve as a set.

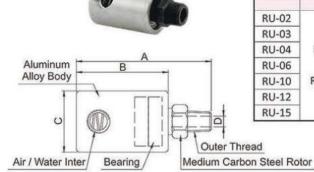
Oil Rotary Union



	_ 0	8.7 PT1	14Hex Outer Thread
20		රිල්	卣
	Ø28 Ø35		A B

Model	Outer Thread	A (mm)	B (mm)	N.W. (g)
PWN-130		88	32	150
PWN-142	PT1/8	100	42	160
PWN-160		118	60	180
PWN-230		88	30	160
PWN-242	PT1/4	100	42	170
PWN-260		118	60	190

Air / Water Rotary Union

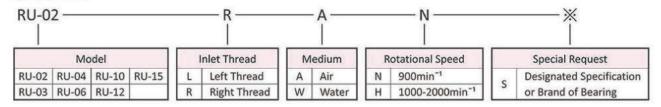


Model	Inner Thread	Inner Thread	Outer	(mm)	B (mm)	С	D	N.W. (g)
RU-02		PT:	1/4	88	60	Ø40	Ø7	256
RU-03		PT:	3/8	88	60	Ø40	Ø9	265
RU-04	Left Thread	PT:	1/2	104	70	Ø50	Ø12	484
RU-06	or	PT:	3/4	122	80	Ø60	Ø16	776
RU-10	Right Thread	P	Γ1	134	93	Ø70	Ø20	1144
RU-12		PT1	-1/4	160	110	Ø85	Ø28	1987
RU-15		PT1	-1/2	170	120	Ø93	Ø32	2593

Features

- 1. The bodies of air and water rotary unions are made of highly durable aluminum alloy, medium carbon steel rotors, and high-quality bearings to provide the best result.
- 2. An air or water rotary union is one-way passage. Please follow the dimensional drawing to connect the air inlet or water
- 3. Forbid to use any lubricant or cooling fluid.
- 4. The max operating pressure for air rotary union is 10kgf/cm², and for water rotary union is 30kgf/cm².
- 5. The suitable rotational speed is below 900min⁻¹. The rotational speed between 1000 to 2000 min⁻¹ is only available for
- 6. Air and water rotary unions are designed for continuous operation under either max operating pressure or rotational speed. If the working condition requires the rotary union to run simultaneously under max operating pressure and rotational speed, please specify when you place an order.

Order Code



Float Ball / Float Switch



Galvanized Iron (SUS304) Float Ball



White Float Ball



Black Float Ball



Black Float Ball W/85mm Plastic Float Pillar

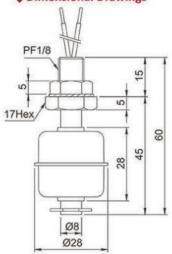


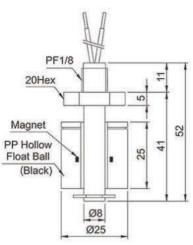
Black Float Ball W/85mm Alum. Float Pillar

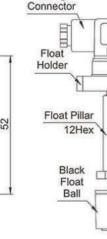


Float Ball W/Float Pillar, Float Holder, and Wiring Connector

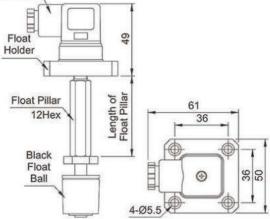
Dimensional Drawings







Wiring



M21004 Galvanized Iron Float Ball

M21002 Black Float Ball

M21002 Black Float Ball W/Float Pillar, Float Holder, and Wiring Connector

Features

- 1. There are two contact types of float switches, NO contact and NC contact.
 - NO Contact: The float switch sends a continuous signal when the oil level is high.
 - NC Contact: The float switch sends a continuous signal when the oil level is low.
- 2. The float ball's specific gravity should be less than the oil's; otherwise, it cannot float. (The specific gravity of water is 1, and the specific gravity of general lubricants is between 0.85 and 0.90.)
- 3. When using oil with high viscosity, choose a large outer diameter of the float ball, so it can have greater buoyancy to overcome surface tension and have less misjudgment or malfunction when the level rises.
- 4. A magnet inside the float ball induces the reed switch by its movement. If the oil contains iron filings, it will result in misjudgment. Please make sure the oil is clean for precise detection.

Technical Data

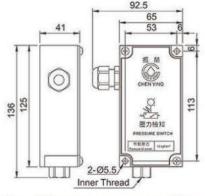
Order Code	Model	Contact Type	Туре	Float Ball Material	Outer Thread	Specific Gravity (SG)	Suitable Temp. (°C)	Max. Switching Current	Max. Carry Current	Max. Contact Capacity	N.W. (g)
DA01D004	M21004	NC	Galvanized Iron Float Ball	SUS304	PF1/8	0.7	-20 to 120	0.5A	1.0A	50W SPST	37
DA00D002	M21005	NO	White Float Ball	EVA/PE	M8xP1.25	1.0	-10 to 80	0.5A	1.0A	50W	10
DA01D003	M21006	NC	white Float Ball	EVAJPE	IVIOXP1.25	1.0	-10 (0 80	0.5A	1.0A	SPST	10
DA00D001	M21001	NO	Disali Flant Dall	PP	DE1 /0	0.7	20 += 00	0.54	1.04	50W	12
DA01D001	M21002	NC	Black Float Ball	PP	PF1/8	0.7	-20 to 80	0.5A	1.0A	SPST	12
DA10D001	S21005	NO	Black Float Ball					-		FOW	
DA11D001	S21006	NC	W/85mm Plastic Float Pillar	PP	PF1/8	0.7	-20 to 80	0.5A	1.0A	50W SPST	68

[%] S21005 and S21006 models: The standard length of the plastic float pillar is 85 mm for 2L and 3L oil tanks. Aluminum float pillars are available upon request. Please specify the length of the float pillar or the oil tank size while ordering.

^{X S21005 and S21006 models can add float holders and wiring connectors upon request.}

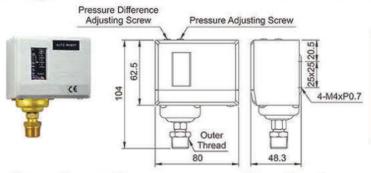
Pressure Switch





Model	Operating Pressure (kgf/cm²)	Inner Thread	N.W. (g)
M21012	10	PT1/4	250
M21013	1	P11/4	350

Adjustable Pressure Switch



Model	Operating Pressure (kgf/cm²)	Max. Pressure (kgf/cm²)	Thread	N.W. (g)
M21039	0.5 to 3	11.0	7/16" - 20	
M21040	0.5 to 6	16.5	(with an extra	400
M21041	1 to 10	16.5	adapter, outer	420
M21042	5 to 30	30.0	thread PT3/8)	

Socket Pressure Switch



20242 (50,000 Life Cycles)









PS8060 (100,000 Life Cycles)

DBS Series (1 Million Life Cycles)

Features

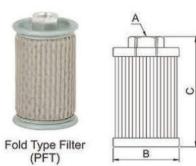
- 1. Socket pressure switches are usually added to the lubricator or the piping systems to detect pressure in centralized lubrication systems.
- 2. There are two contact types of socket pressure switches, NO contact and NC contact.
 - NO Contact: The pressure switch sends a continuous signal when the pressure reaches the preset value.
 - NC Contact: The pressure switch sends a continuous signal when the pressure is below the preset value..
- 3. A waterproof cover is a standard accessory for DBS series. DB series can add waterproof covers on request.

◆Technical Data

Order Code	Model	Type (Kgf/cm²) (kgf/cm²) Eynectancy Type lemp. Curren		Pressure Life		Spec. Pressure Life Wiring Suit	Max.	0.000	Max. Pressure (Kgf/cm²)	Outer Thread	1		
				ON	OFF			(°C)			(Kgi/cm-)		
DB00A001	20142	NO	1 ± 0.2	1.2	0.8								
DB01A001	20143	NC	1 ± 0.2	0.8	1.2								
DB00A002	20163-5	NO	3.5 ± 0.5	4	2.5	50,000	D. colo	20 += 100	254	DC12V	25	DT1 /0	22
DB01A002	20163	NC	3.5 ± 0.5	2.5	4	Cycles	Push-on	-20 to 100	3.5A	DC12V	35	PT1/8	33
DB00A003	20140	NO	8 ± 1.0	8	6								
DB01A003	20141	NC	8 ± 1.0	6	8								
DB00A004	PS6080	NO	8 ± 0.3	8	6	100,000		-20 to 125					
DB01A004	PS8060	NC	8 ± 0.3	6	8	Cycles	Push-on	-35 to 125	3.75A	AC240V	35	PT1/8	33
DB01A006	PS1411	NC	14 ± 0.5	11	14	Cycles		-35 to 125					
DBS0B008		NO	8 ± 0.5										
DBS1B008		NC	8 ± 0.5			1 Million	Carania	10+- 100	44	462201/	25	DT1 /0	65
DBS0B060		NO	60 ± 5%			Cycles	Screw	-10 to 100	4A	AC220V	35	PT1/8	65
DBS1B060		NC	60 ± 5%										
C05D0018	M21025			DE	Serie	s Socket Press	sure Switc	h Waterproo	f Cover (E	Black)			12

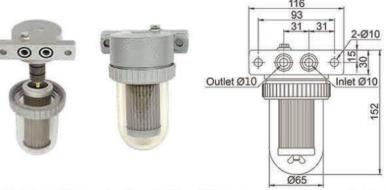
Filter





Type	Model	Α	В	C (mm)	Mesh	N.W.(g)
	PFS0237059	DT4 /4	Ø37	59	100	60
Flat Type	PFS0260100	PT1/4	Ø60	100	80	130
(PFS)	PFS0337100	DT2 /0	Ø37	100	100	75
17830 TYT SEE	PFS0360150	PT3/8	Ø60	150	100	153
	PFT0245080		Ø45	80	80	76
	PFT0245100		Ø45	100	80	88
	PFT0260100	DT4 /4	Ø60	100	80	130
	PFT0260150	PT1/4	Ø60	150	80	167
Fold Type	PFT0245060		Ø45	60	100	64
(PFT)	PFT0260080		Ø60	80	80	117
	PFT0460100	DT4 /0	Ø60	100	80	147
	PFT0460150	PT1/2	Ø60	150	80	186
	PFT0345060	DT2 /0	Ø45	60	100	62
	PFT0360100	PT3/8	Ø60	100	100	127

Fixed Oil Filter (with Magnet Inside)



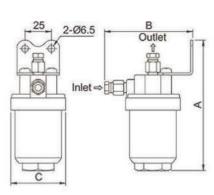
Model	Inlet	Outlet Ø10	Mesh	N.W.(g)
PFE20	Ø10	Ø10	100	1036

Oil Filter (with Magnet Inside)



Model	Inlet	Outlet	Max. Pressure (kgf/cm²)	Mesh	N.W.(g)
M21012	PT1/4	PT1/4	10	100	250
M21013	PT3/8	PT3/8	10	100	350

Oil Filter





A-101-1 (Resin Oil Tank)



A-101-2 / A-101-3 (Aluminum Oil Tank)



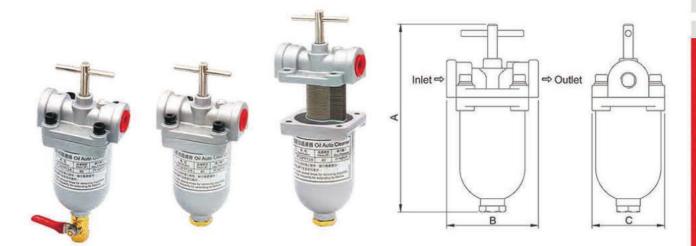
A-101-2



A-101-3

Model	Inlet	Outlet	A (mm)	B (mm)	C (mm)	Max. Pressure (kgf/cm²)	Mesh	N.W. (g)
A-101-1			106.5			10	40	260
A-101-2	PT1/8	PT1/8	123.5	83	51.5	30	400	440
A-101-3			123.5			30	40	440

Oil Auto Cleaner



Features

- Oil auto cleaners are widely used in pipeline filtration of lubrication and hydraulic systems and other industries to maintain the performance of mechanical equipment.
- The body of the oil auto cleaner is made of highly durable zinc alloy with a combination of large, small, and side stainless steel (SUS304) gaskets to form a filtration structure.
- 3. Oil auto cleaners can be cleaned at any time during the operation without shutting down the machine. It can save time for maintenance.
- 4. The suitable viscosity range is 10~220cSt@40°C. The operating temperature is 0~90°C.
- 5. Recommend working with Chen Ying's lubrication systems, which consist of rotary and heavy oil pumps with motors.

Directions for Maintenance

- To clean the oil auto cleaner during the machine operation time, release the bottom closure plug of the oil auto cleaner first. Then, turn the cross handle left and right several times to remove the impurities of the gaskets. When the impurities flow out with oil, tighten the closure plug to complete the cleaning process.
- 2. The bottom closure plug can be replaced with a ball valve for easy maintenance regularly, but the pressure resistance value will be reduced accordingly.

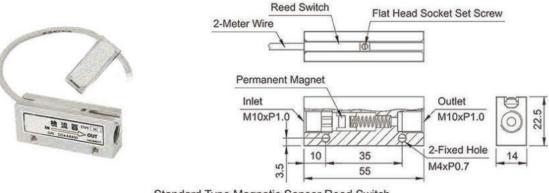
♦Notice

- The volume of lubricant would be less after flowing through the oil auto cleaner due to the filtration structure creating
 resistance when the lubricant enters.
- 2. The max flow rate of an oil auto cleaner is affected by various factors, such as lubricant, temperature, viscosity, flow rate, pressure, size of the passing area, mesh numbers, and bore size of inlets and outlets.

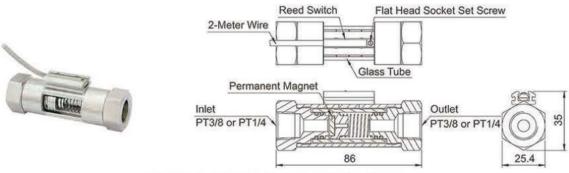
◆Technical Data & Dimensional Data

Order Code	Model	Specification	Mesh	Hole Size (mm)	A (mm)	B (mm)	C (mm)	Max. Pressure (kgf/cm²)	Closure Plug	N.W. (kg)
PFRAA08B1	A 102	DT4 /4 DT4 /4	80	0.175	1500	76	60	25	DC1 /4	0.75
PFRAA10B1	A-102	PT1/4 x PT1/4	100	0.147	156.0	156.0 /6	60	25	PS1/4	0.75
PFRAA08C1	A 102	DT2 /0 v DT2 /0	80	0.175	156.0	76	60	25	PS1/4	0.75
PFRAA10C1	A-103	PT3/8 x PT3/8	100	0.147	156.0	.0 /6	60	25	P31/4	0.75
PFRAA08D1	A 104	DT4 /2 v DT4 /2	80	0.175	107.0	89	71	25	PS1/4	1.15
PFRAA10D1	A-104	PT1/2 x PT1/2	100	0.147	197.0	89	/1	25	P31/4	1.15
PFRSA08E1	A 10F	DT2 /4 DT2 /4	80	0.175	107.0	89	71	25	PS1/4	1.15
PFRSA10E1	A-105	PT3/4 x PT3/4	100	0.147	197.0	89	/1	25	P31/4	1.15
PFRAA08E1	A-106	PT3/4 x PT3/4	80	0.175	236.0	100	85	25	PS1/2	1.90
PFRAA10F1	A-110	PT1 x PT1	80	0.175	263.5	120	85	25	PS1/2	2.20

Magnetic Sensor Reed Switch (Standard Type / Large-Volume Type)



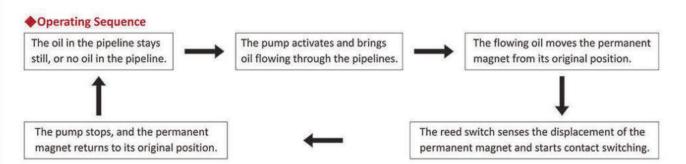
Standard Type Magnetic Sensor Reed Switch



Large-Volume Type Magnetic Sensor Reed Switch

Features

- There are two contact types for magnetic sensor reed switches:
 - NO Contact: It sends a continuous signal when the oil flows through the pipes.
 - NC Contact: It sends a continuous signal when the oil does not flow through the pipes.
- 2. The movement of the permanent magnet activates the reed switch contacts without touching the oil in the pipe.
- 3. The user can place the reed switch in the required position. Its anti-vibration capability prevents sending false signals during vibration.
- 4. The installation angle of the magnetic sensor reed switch is not restricted, and the detection function is not affected by either vertical or horizontal positions.
- 5. A large-volume type magnetic sensor reed switch can work with a BS type transparent adjustable distributor's volume control base, extending to a maximum of six outlets optionally. It can adjust and monitor multi-pipe flow simultaneously.
- 6. Recommend working with oil filters with magnets inside that can filter iron filings from interfering with the permanent magnet of the sensor reed switch.
- 7. The standard type is suitable to work with resistance type or circulating type oil lubricators.
- 8. The large-volume type is suitable for the motor with a rotary oil pump (CYP-10A to CYP-13A) and circulating oil type lubricators.
- 9. The volume of oil would be less after flowing through the magnetic sensor reed switch due to it creates resistance when the oil enters.
- 10. The max flow rate and max pressure that the magnetic sensor reed switch can handle are affected by various factors, such as lubricant, temperature, viscosity, and spring force.



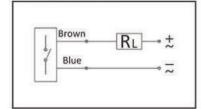
Magnetic Sensor Reed Switch (Standard Type / Large-Volume Type)

◆Technical Data & Dimensional Data

Туре	Standard Type Magnetic Sensor Reed Switch	Large-Volume Type Magnetic Sensor Reed Switch		
Volume Detection Range	50-500 cc/min	1-5 L/min		
Max Operating Pressure	15 kgf/cm ²	30kgf/cm ²		
Max. Current Load (Load in series connection is required.)	0.5A	0.5A		
Suitable Viscosity	Oil, 32-90cSt@40°C	Oil, 32-90cSt@40°C		
N.W. (g)	90	118		

Contact Type Specification 10 NO Contact 11 NC Contact DB02 Large-Volume Type, 0.5A, W/Light, PT1/4 Inlet & Outlet DB02 Large-Volume Type, 0.5A, W/Light, PT3/8 Inlet & Outlet

♦Wiring Diagram



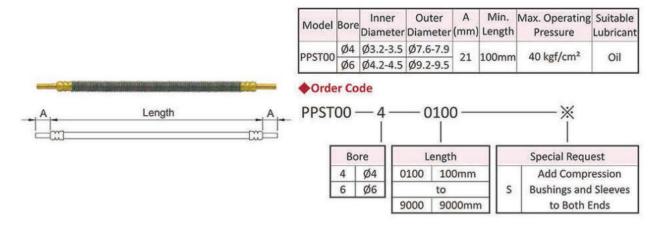
Pipes



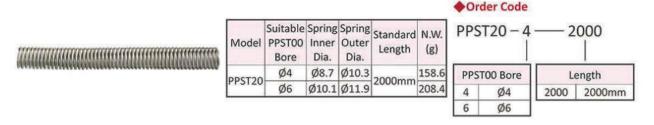
Туре	Order Code	Outer Dia.	Inner Dia.	Meter/Roll (MOQ: 1 Roll)	Packing Method	N.W. (kg/Roll)
	PPN0S001	Ø3	Ø1.5	100 M/Roll	Paper Roll	0.79
	PPN01001	Ø4	Ø2	100 M/Roll	Paper Roll	1.26
	PPN01002	Ø4	Ø2	200 M/Roll	Plastic Wrap	2.03
Nylon Pipe	PPN02001	Ø6	Ø4	100 M/Roll	Paper Roll	2.04
	PPN02002	Ø6	Ø4	100 M/Roll	Plastic Wrap	1.74
(Nylon 6)	PPN02005	Ø6	Ø3	100 M/Roll	Paper Roll	2.70
	PPN03001	Ø8	Ø6	100 M/Roll	Plastic Wrap	2.56
	PPN04001	Ø10	Ø7.5	100 M/Roll	Plastic Wrap	3.95
	PPN05001	Ø12	Ø9	100 M/Roll	Plastic Wrap	5.69
Nylon Pipe	PPN01003	Ø4	Ø2	100 14/0-11	Danes Bell	1.13
(Nylon 12)	PPN02003	Ø6	Ø4	100 M/Roll	Paper Roll	1.81
Nylon Pipe	PPN01004	Ø4	Ø2.5			1.10
and the same of th	PPN02004	Ø6	Ø4	100 M/Roll	Plastic Wrap	2.05
(Made in Japan)	PPN03002	Ø8	Ø6			2.86
PE Pipe	PPR01001	Ø4	Ø2	100 84/0-11	Plastic Wrap	0.86
PE Pipe	PPR02001	Ø6	Ø4	100 M/Roll	Plastic wrap	1.45
	PPA01001	Ø4	Ø2	100 M/Roll		2.40
Aluminum Pipe	PPA02001	Ø6	Ø4	100 M/Roll	Plastic Wrap	4.10
	PPA03001	Ø8	Ø6	30 M/Roll		6.00
	PPC01001	Ø4	Ø3			2.40
	PPC02001	Ø6	Ø5	50 M/Roll		4.50
Canada Dina	PPC02002	Ø6	Ø4.5	- Partition and City	Diantia Mana	5.20
Copper Pipe	PPC03001	Ø8	Ø6.5		Plastic Wrap	4.30
	PPC04001	Ø10	Ø8	30 M/Roll		7.60
	PPC05001	Ø12	Ø10	3,40,63,60,635,01		9.30

Flexible Metallic Hose

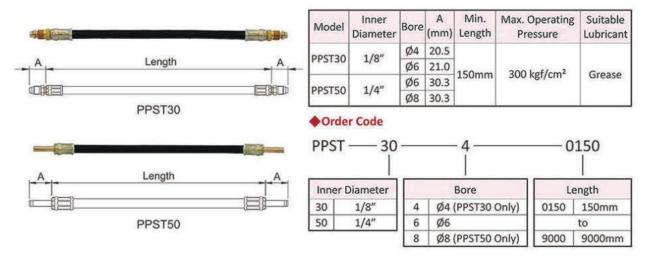
Flexible Hose



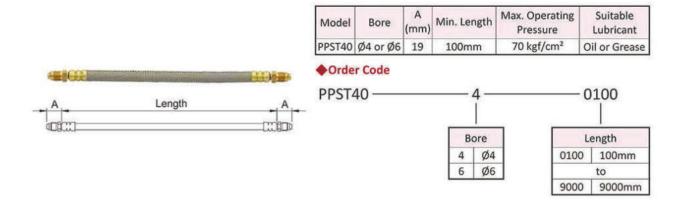
Flexible Hose Spring (For Guarding PPST00 Flexible Hose)



High-Pressure Flexible Hose



Flexible Metallic Hose



Nylon Pipe Spring (For Guarding Nylon Pipe)



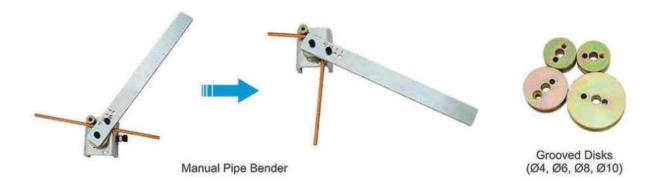
Model	Spring Inner Diameter	Suitable Nylon Pipe Outer Dia. x Length	N.W. (g)
SG-41800	Ø4.5	Ø4 x 1800mm	52
SG-61800	Ø6.5	Ø6 x 1800mm	72

Pipe Cutter



Model	Item	N.W. (g)
M25004	Pipe Cutter	30
M25004-1	Blade of Pipe Cutter	2

Manual Pipe Bender



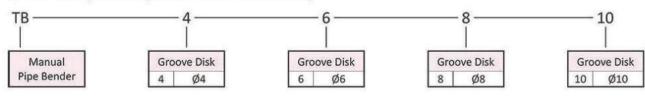
Features

- Manual pipe bender is suitable for manually bending variable kinds of metal pipes, such as aluminum, copper, steel, and iron.
- 2. Multiple sizes of grooved disks Ø4, Ø6, Ø8, and Ø10 are available for choice upon demand.
- 3. Each grooved disk can be purchased individually.

♦Specification Chart

Order Code	Item	N.W. (g)
TB-4-6-8-10	Manual Pipe Bender with Ø4, Ø6, Ø8, and Ø10 Grooved Disks	1591
PC231001	Ø4 Grooved Disk	115
PC232001	Ø6 Grooved Disk	104
PC233001	Ø8 Grooved Disk	174
PC234001	Ø10 Grooved Disk	289

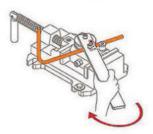
♦ Order Code (Manual Pipe Bender with Grooved Disks)

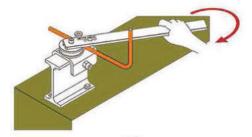


Manual Pipe Bender

◆Pipe Bender Fixed Instruction

- 1. Mount the manual pipe bender on a vise or an H-beam.
- 2. Screw the base with the hexagonal screws to tighten the pipe bender on a vase or an H-beam.

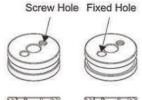




on an H-Beam

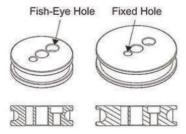
Grooved Disk Switch Instruction

· Ø4 and Ø6 grooved disks



Tighten the screw upwards from the bottom of the pipe bender base to the grooved disks to fix the grooved disks.

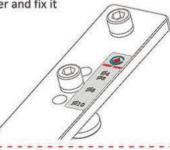
Ø8 and Ø10 grooved disks



Tighten the screw downwards from the top of the fish-eye hole to the pipe bender base to fix the grooved disks.

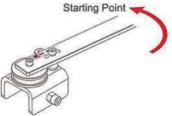
Bending Lever:

Place the grooved disk under the bending lever and fix it on the base holder by the pipe size.

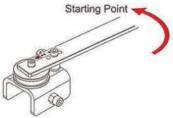


Bending Instruction

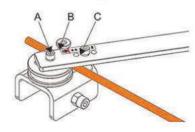
1. Turn the bending lever to the starting point.



3. Turn the bending lever with strength clockwise to bend the pipe.

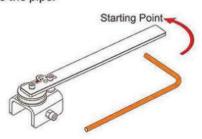


2. Insert the pipe among points A, B, and C and take the length needed for bending.



4. Turn the bending lever back to the starting point to remove the pipe.





High-Pressure Pipe Clamp





Model	Diameter (mm)	Bore	N.W. (g)
6A	10.5	PT1/8	372
8A	13.8	PT1/4	371
10A	17.3	PT3/8	370
15A	21.7	PT1/2	571
20A	27.2	PT3/4	570
25A	34.0	PT1	678
32A	42.7	PT1-1/4	666
40A	48.6	PT1-1/2	1667
50A	60.5	PT2	1656
65A	76.3	PT2-1/2	3470
80A	89.1	PT3	3432

One-Side-Fixed Pipe Clip





No.	Model	Fixed Hole Number	Suitable Outer Dia. of Pipe	Pipe Number	Thickness (mm)	Width (mm)	Length (mm)	Hole Dia. (mm)	N.W. (g)
1	PZ-110410	1		1	1.0	10	19	5	1.6
2	PZ-120410	1		2	1.0	10	23	5	1.9
3	PZ-130410	1	Ø4	3	1.0	10	27	5	2.2
4	PZ-140410	1		4	1.0	10	31	5	2.2
5	PZ-150410	1		5	1.0	10	35	5	2.8
6	PZ-110610	1		1	1.0	10	21	5	2.0
7	PZ-120610	1	Ø6	2	1.0	10	27	5	2.5
8	PZ-130610	1		3	1.0	12	33	5	3.6
9	PZ-110810	1	do	1	1.0	10	22	5	2.3
10	PZ-120810	1	Ø8	2	1.0	12	32	5	3.7
11	PZ-111010	1	Ø10	1	1.0	10	27	5	2.8
12	PZ-121012	1	910	2	1.2	12	40	5	5.7
13	PZ-111212	1	Ø12	1	1.2	12	32	5	5.0
14	PZ-111516	1	Ø16	1	1.6	20	43	7	14.0
15	PZ-110320	1	3/8" (Ø18.5)	1	2.0	20	47	7	19.4
16	PZ-110420	1	1/2" (Ø21.5)	1	2.0	20	52	7	22.6
17	PZ-112216	1	Ø23	1	1.6	20	48	7	17.0
18	PZ-110620	1	3/4" (Ø26)	1	2.0	20	55	7	26.4
19	PZ-112816	1	Ø29	1	1.6	20	57	7	22.2
20	PZ-113316	1	Ø34	1	1.6	20	64	7	25.2
21	PZ-110820	1	1" (Ø33)	1	2.0	20	64	7	32.6
22	PZ-114220	1	Ø43	1	2.0	20	76	7	40.0
23	PZ-115020	1	Ø51	1	2.0	20	83	7	45.0
24	PZ-116020	1	Ø61	1	2.0	20	95	7	54.0

Saddle Pipe Clip



No.	Model	Fixed Hole No.	Pipe Dia.	Pipe No.	Thickness (mm)	Width (mm)	Length (mm)	Distance Between Fixed Holes (mm)	Fixed Hole Dia. (mm)	N.W. (g)
1	PZ-220415	2		2	1.5	13	47	32	7	6.4
2	PZ-230415	2	da	3	1.5	13	47	32	7	6.6
3	PZ-240415	2	Ø4	4	1.5	12	47	35	5	6.3
4	PZ-250415	2		5	1.5	13	55	38	7	7.7
5	PZ-210615	2		1	1.5	13	45	30	7	6.6
6	PZ-220616	2	de	2	1.6	12	46	30	7	6.8
7	PZ-230616	2	Ø6	3	1.6	12	54	37	7	8.0
8	PZ-240616	2		4	1.6	12	54	40	6.5x8	8.0
9	PZ-210816	2	Ø8	1	1.6	13	45	30	7	7.5
10	PZ-211016	2		1	1.6	13	45	30	7	8.0
11	PZ-231016	2	Ø10	3	1.6	12	66	51	7	10.4
12	PZ-241016	2		4	1.6	15	77	62	7x9	14.8
13	PZ-211216	2	des	1	1.6	13	45	30	7	8.4
14	PZ-221216	2	Ø12	2	1.6	10	53	39	5x7	7.7
15	PZ-221515	2	Ø15	2	2.0	20	80	61	7x9	28.0
16	PZ-212816	2	Ø28	1	1.6	20	74	57	7	25.0

Saddle Pipe Clip Set (with a Saddle Pipe Clip, a Mounting Base, and Two Screws)



No.	Model	Fixed Hole No.	Pipe Dia.	10000	Part	Thick- ness (mm)	Width (mm)	Length (mm)	Distance Between Fixed Holes (mm)	Fixed Hole Dia. (mm)	N.W. (g)
1	PZ-340415	2		4	Pipe Clip	1.5	12	47	35	5	6.3
7	FZ-340413	2	Ø4	4	Base	3.0	13	50	35	M8xP0.8	15.2
2	PZ-350415	2	, Ø-4	5	Pipe Clip	1.5	13	55	38	7	7.7
2	F2-530413	2		3	Base	3.0	13	57	37	M6xP1.0	18.0
3	PZ-310615	2		1	Pipe Clip	1.5	13	45	30	7	6.6
4	PZ-320616	2		2	Pipe Clip	1.6	12	46	30	7	6.8
5	PZ-330616	2	Ø6	3	Pipe Clip	1.6	12	54	37	7	8.0
2	PZ-330010	2	90	3	Base	3.0	13	57	37	M6xP1.0	18.0
6	PZ-340616	2		4	Pipe Clip	1.6	12	54	40	6.5x8	8.0
0	PZ-340010	2		4	Base	3.0	13	57	40	M6xP1.0	18.0
				1	Pipe Clip	1.6	13	45	30	7	7.5
7	PZ-310816	2		2	Pipe Clip	1.6	12	53	36	7	8.1
			Ø8	2	Base	3.0	13	57	37	M6xP1.0	18.0
0	D7 200010	-		6	Pipe Clip	1.6	15	80	65	7	15.2
8	PZ-360816	2		О	Base	3.0	15	82	65	M6xP1.0	31.0
9	PZ-311016	2		1	Pipe Clip	1.6	13	45	30	7	8.0
10	D7 221016	2		3	Pipe Clip	1.6	12	66	51	7	10.4
10	PZ-331016	2	Ø10	3	Base	3.0	13	70	51	M6xP1.0	22.0
44	D7 244046	2			Pipe Clip	1.6	15	77	62	7x9	14.8
11	PZ-341016	2		4	Base	3.0	15	82	65	M6xP1.0	31.0
12	PZ-311216	2		1	Pipe Clip	1.6	13	45	30	7	8.4
12	D7 224246	2	Ø12	_	Pipe Clip	1.6	10	53	39	5x7	7.7
13	PZ-321216	2	30 ;	2	Base	3.0	13	57	40	M5xP0.8	18.1

Each model goes with 2 screws. The net weight of the M6xP1.0x10L screw is 3.3g, and the M5xP0.8x10L screw is 2.2g.

HV-200, HV-201 Air Operated Oil Filler



Features

- Both HV-200 and HV-201 are without oil tanks that can work with any oil tank size.
- HV-200 is without a rack, but HV-201 is that a five-gallon oil tank can place on top of it.
- 3. It is suitable for various engine oil, lubricants, and gear oil.
- Oil filling and extracting are driven by a pneumatic motor pump. No contact between the oil and the air prevents the oil from being emulsified.
- The oil refilling gun or the air pressure can control the speed of filling oil. The oil refilling gun is a standard accessory.
- It can add a digital flow meter to measure the volume of the refilled oil as optional.

Specification

Model	Rack	Capacity (L)	Dimensions (mm)	Filling Method	Power	Operation Pressure	N.W.	G.W.
HV-200	X	X	200x190x300	Air Dressure	AD 25	F ~ 7 V C / 2 ~ 2	7 kg	7.5 kg
HV-201	0	20	360x390x790	Air Pressure	AP-35	5~7 KG/cm²	10 kg	11.0 kg

Air Operated Grease Filler



Features

- The barrel body is made of a high-quality steel plate that is more durable.
- 2. The inside diameter of the barrel is 350 mm, and the inside height is 430 mm, which can suit any five-gallon grease tank.
- Driven by compressed air, the pump has two independent circulation systems, so the compressed air will not touch the grease in the barrel, which can prevent the grease from deteriorating.
- 4. It is equipped with four turn-able wheels for easy pushing around.
- 5. It is suitable for operating in a cold climate.
- 6. Suitable for grease NLGI grade 000-2.
- 7. Suitable for many kinds of machinery, vehicles, ships, etc.

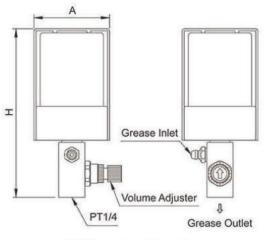
Specification

Model	Capacity	Air Input Pressure	Pressure Ratio	Grease Output pressure	Discharge Volume	Hose Length	Viscosity	N.W.	G.W.
CKMG-55	20	4~9 kgf/cm²	45:1	180~450 kgf/cm ²	16.5 g/sec	10 meters	NLGI 000~2	16.6 kg	21.1 kg

Adjustable Automatic Grease Lubricator

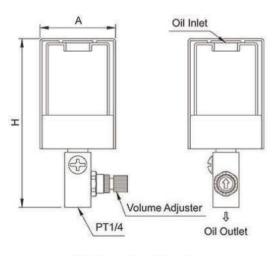






GP-26C GP Dimensional Drawing





OP Dimensional Drawing

♠Features

- Adjustable Automatic Lubricators are divided by lubricant types. GP models are for grease use. OP models and CP-36C
 are for oil use.
- 2. All models can automatically deliver the lubricant to a single lubrication point steadily.
- 3. GP and OP models include three types of adapters, PT 1/4-19, PT 1/8-28, and 1/4-28UNF.
- 4. CP-36 equips a brush but without adapters.
- 5. All models are suitable for lubricating linear guides, bearings, and motor shafts.
- All models have volume adjusters that enable the users to adjust the volume of lubricant upon needs. For OP models and CP-36C, twist the volume adjusters clockwise to the zero point when they are not in use.
- 7. Instruction for filling lubricant:
 - a) GP models: fill grease through grease nipples and close the grease nipple cap after filling up the grease to prevent the air or impurities from entering the grease tank.
 - b) OP and CP-36C models: remove the transparent oil cover, fill the oil through the oil inlet, and put the oil cover back after finishing.
- 8. Do not use organic solvents such as toluene or carbon tetrachloride to clean the lubricant tank.

Specification

Model	Suitalbe Viscosity	Capactity	Suitable Temperature	Adapters	H (mm)	A (mm)	N.W. (kg)
GP-26C		78 g		PT1/4-19 PT1/8-28 1/4-28UNF	120.0	Ø55	0.20
GP-36C	NLGI 0~2	150 g	-20°C~125°C		134.5	Ø68	0.25
OP-26C		78 g			120.0	Ø55	0.22
OP-36C	Oil	150 g			134.5	Ø68	0.25
CP-36C W/Brush		150 g		NONE	229.5	Ø68	0.32

Special Request Order Code Abbreviated Index

♦Float Switch for Oil

SO: NO Contact Float Switch (Signal sent when oil level is high.)

SC: Add a NC Contact Float Switch (Signal sent when oil level is low.) **SO:** Add a NO Contact Float Switch (Signal sent when oil level is high.)

Level Switch for Grease

RC: Add a NC Contact Magnetic Level Switch (Signal sent when grease level is low.)
RO: Add a NO Contact Magnetic Level Switch (Signal sent when grease level is high.)

KC: Add a NPN, NC Contact Capacitive Level Switch (Signal sent when grease level is low.)
KO: Add a NPN, NO Contact Capacitive Level Switch (Signal sent when grease level is high.)

♦Pressure Switch

PC: Add a NC Contact Pressure Switch (Signal sent when pressure is below a preset value.)
PO: Add a NO Contact Pressure Switch (Signal sent when pressure exceeds a preset value.)

AO: NO Contact Air Pressure Switch (Signal sent when pressure exceeds a preset value.)

HO: NO Contact High Oil-Pressure Switch (Signal sent when pressure exceeds a preset value.)

LO: NO Contact Low Oil-Pressure Switch (Signal sent when pressure exceeds a preset value.)

Reed Switch

TC: Add a NC Contact Reed Switch (Signal sent when the stroke is abnormal.)
TO: Add a NO Contact Reed Switch (Signal sent when the stroke is normal.)

Other

- 1: Turn-on-feeding mode: Operation time starts first after the power is on.
- 2: Turn-on-interval mode: Interval time starts first after the power is on.
- **B**: Add a Lager Buzzer (Available for CEN01, CEN02, CESG02, CENA, CEN03, CEN04, CESG04, CENB, COA only)
- C: Add a Magnetic Filter (Available for PNA /PNB 3L and above tanks only)
- D: Add a Partition (Available for PNA/PNB 3L, 4L resin tanks, and 8L iron tanks only)
- F: Add a Feed-Oil Button (Available for CEV, CEVB only)
- G: Add a Pressure Gauge
- H: Add a CE Certified Connector (Available for CESSB only)
- L: Add a Power Indicator Light (Available for CEV, CESMA/B, CEVB only)
- M: Customized Motor Power
- Z: Increase Discharge Volume to 260cc/min (Available for CEN01, CESG01, CEN02, CEN03, CESG03, CEPB, CEWB, CEN04, CESG04 only)

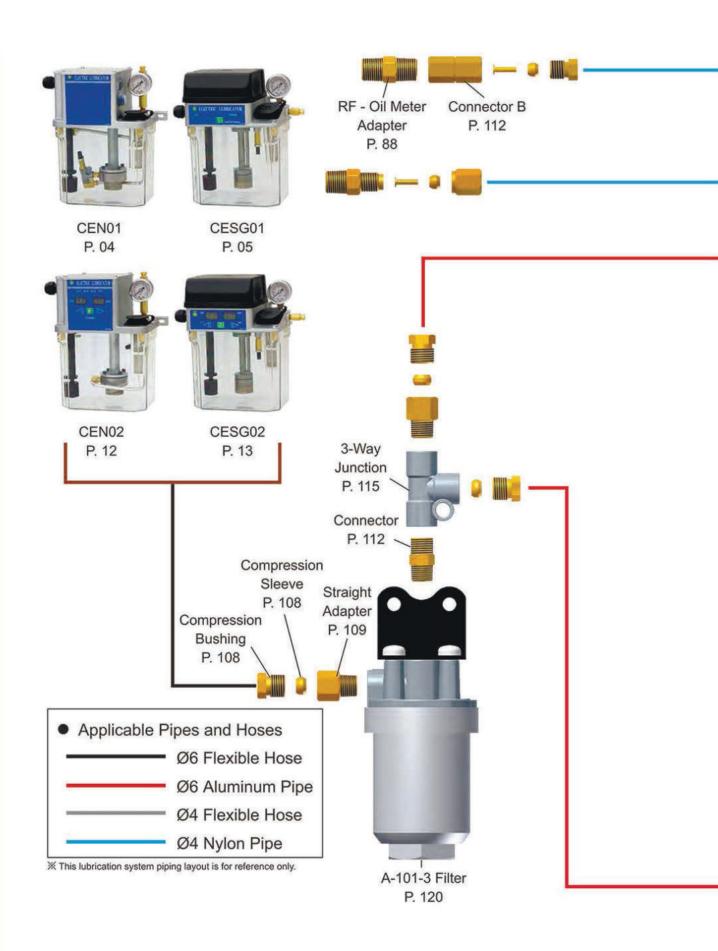
AF: Add an Air Filter Regulator (Available for PNC03)

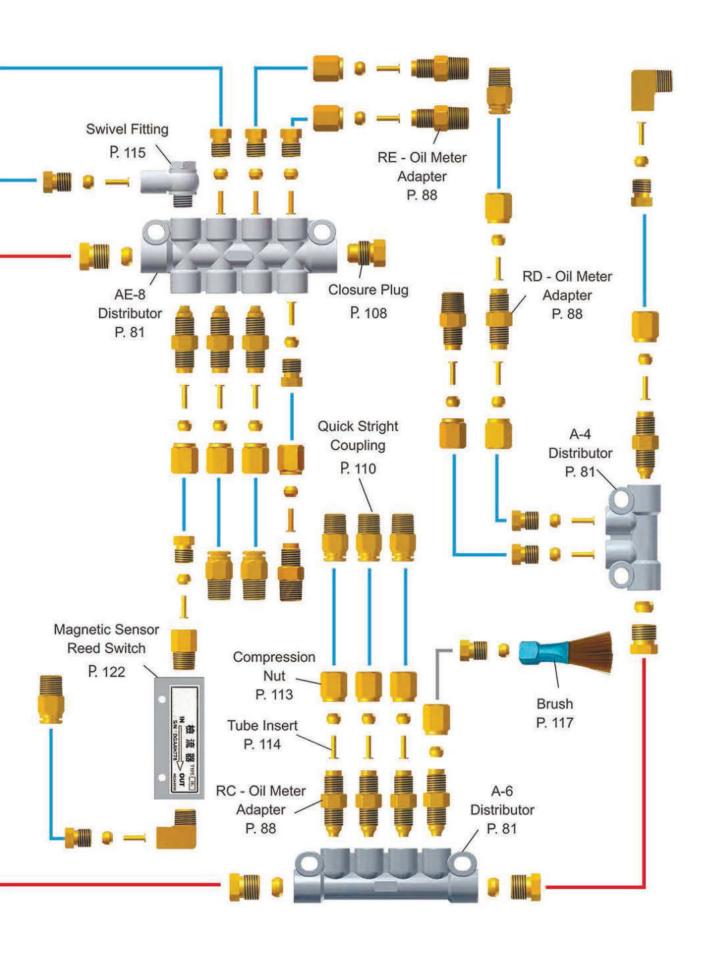
BF: Add an A-101-2 Filter (Available for PNC03)

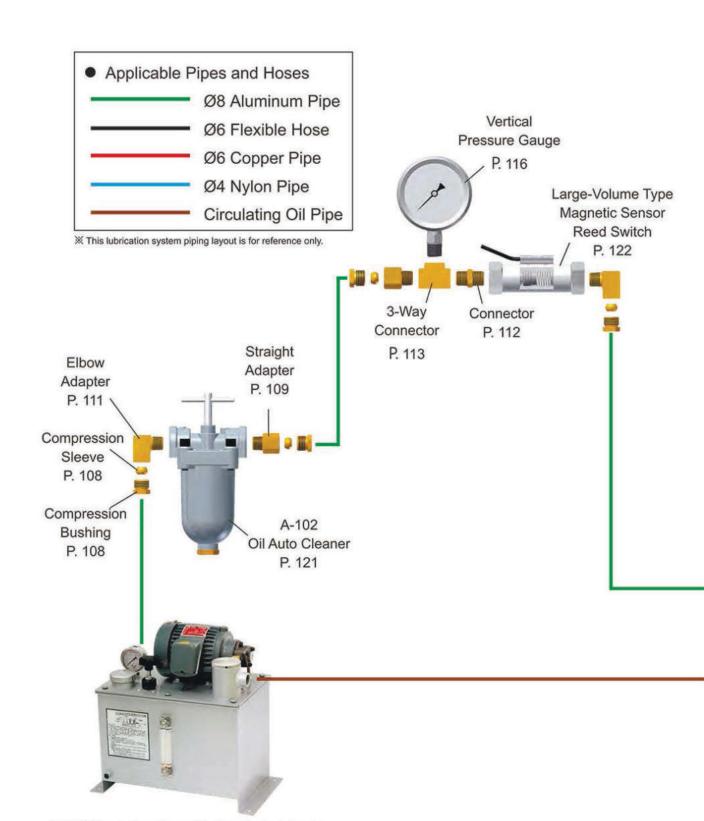
OB: Add an OB Spray Gun

OC: Add an OC Oil-Air Volume Distributor (Please refer to OC catalog and provide order code)

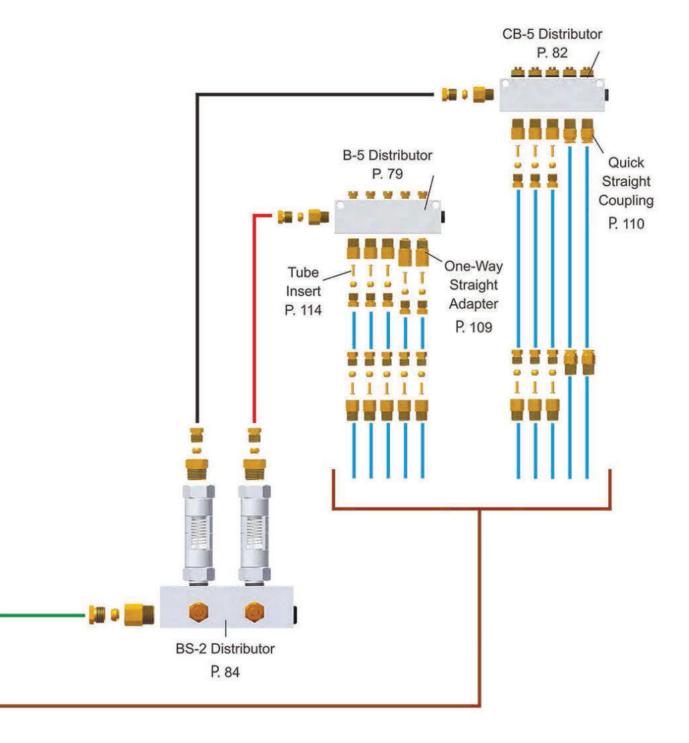
BM: Add an OB Spray Gun with a Magnetic Base

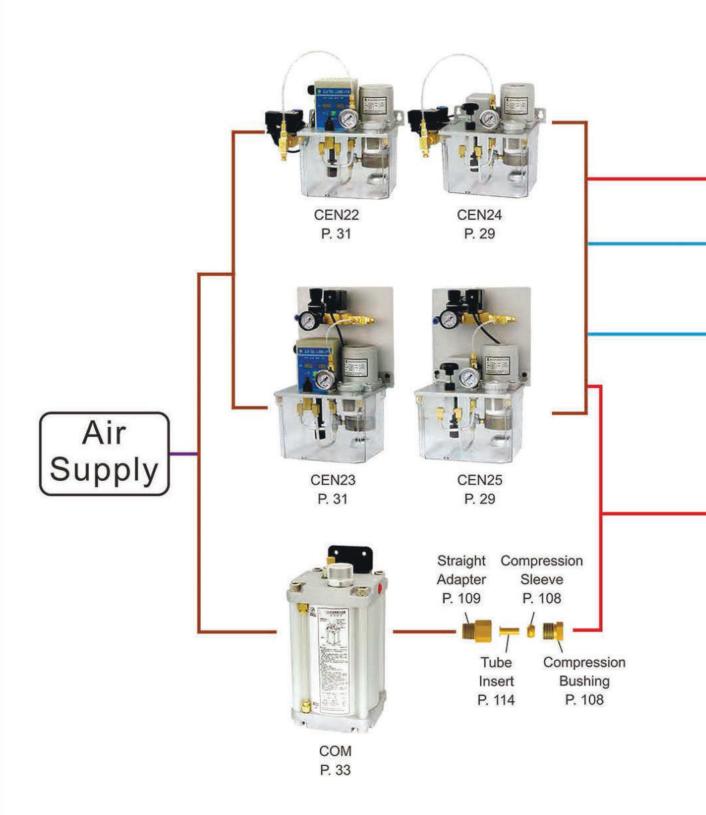


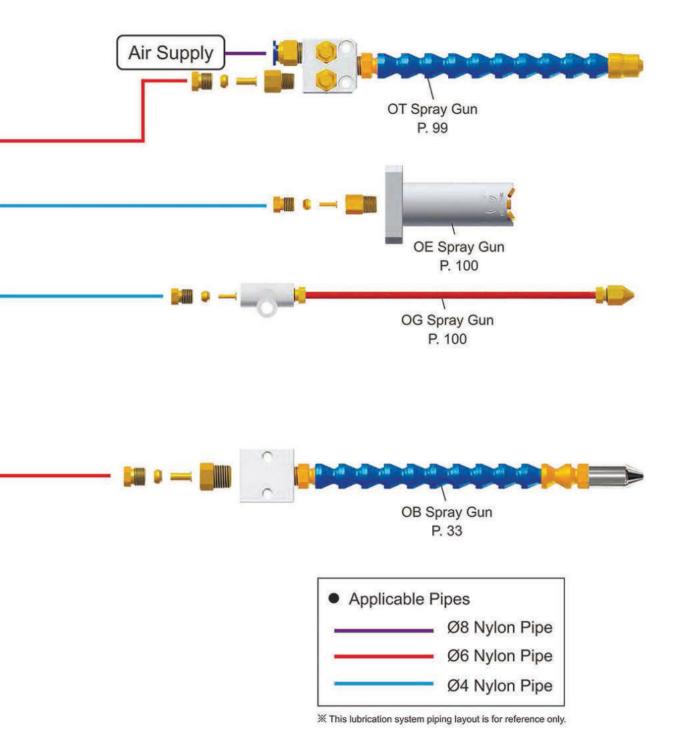


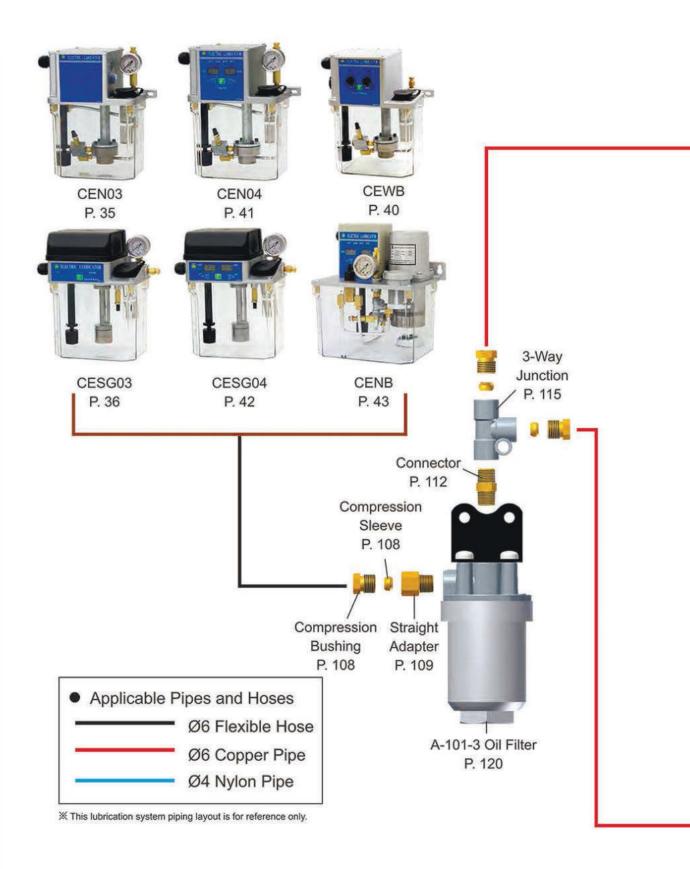


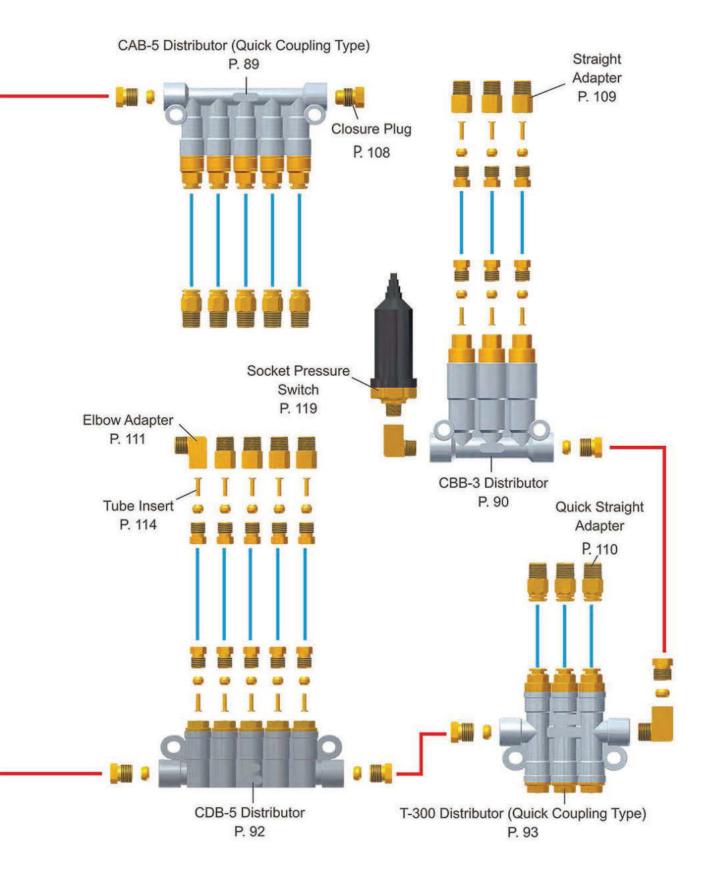
CLSB Circulating Type Oil Electric Lubricator
P. 23

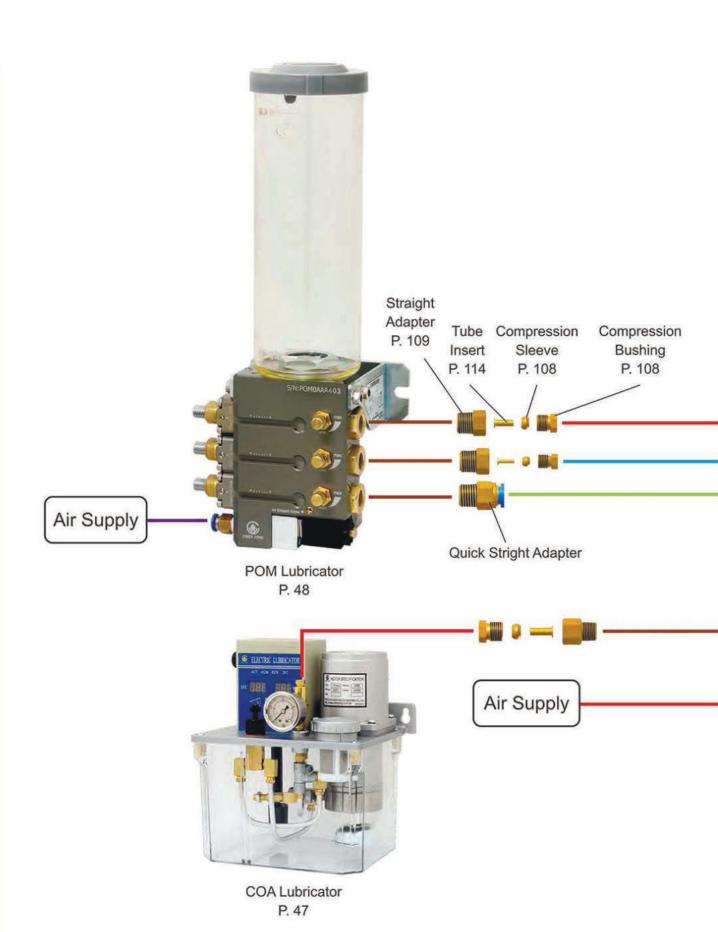


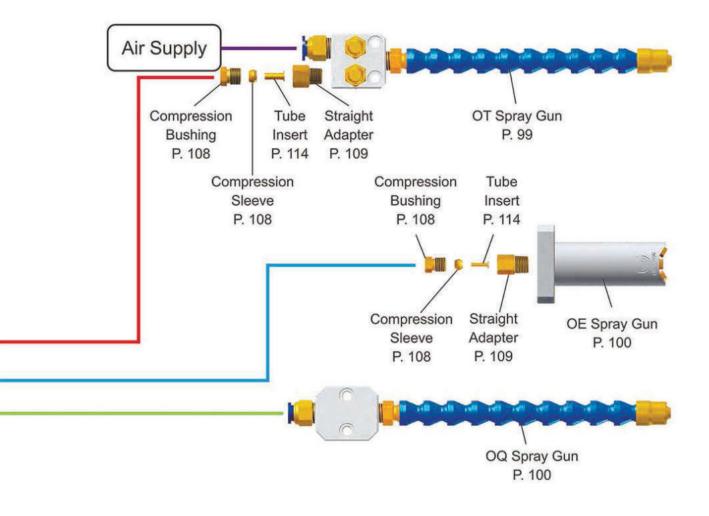


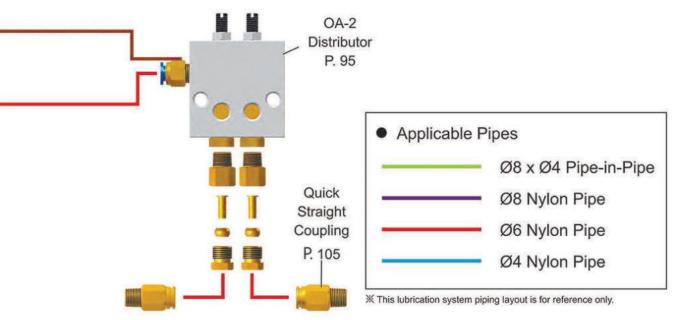


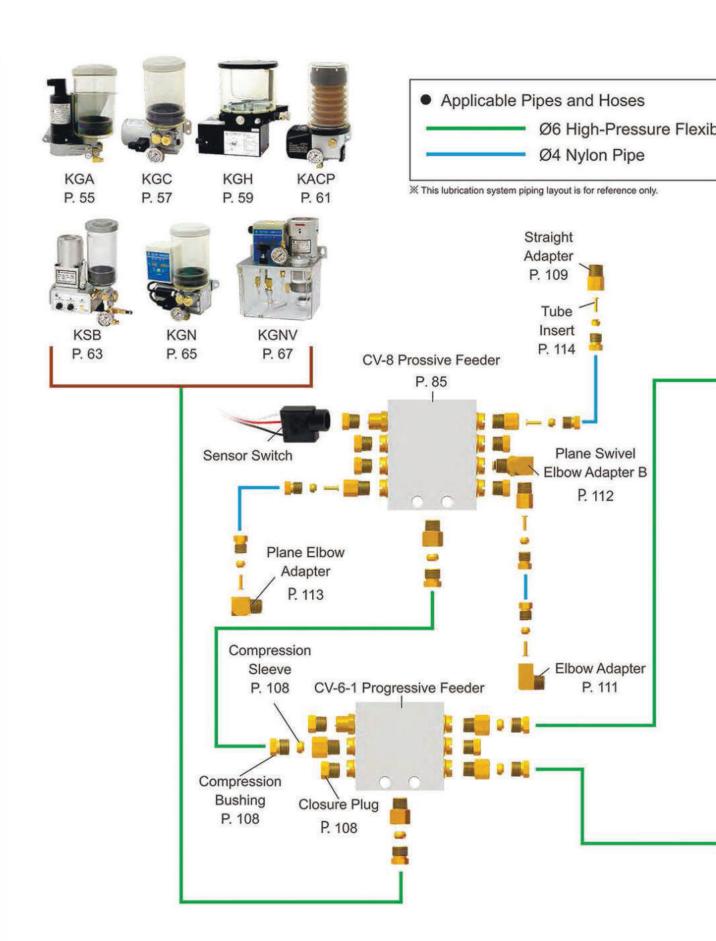


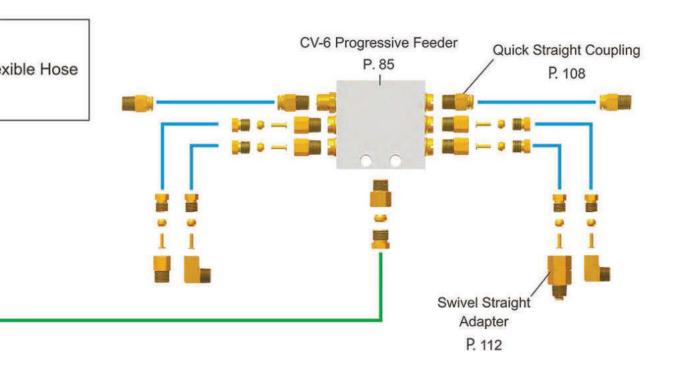


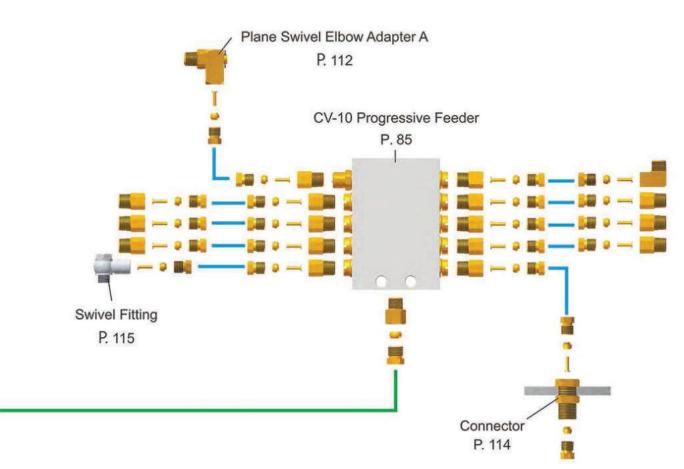


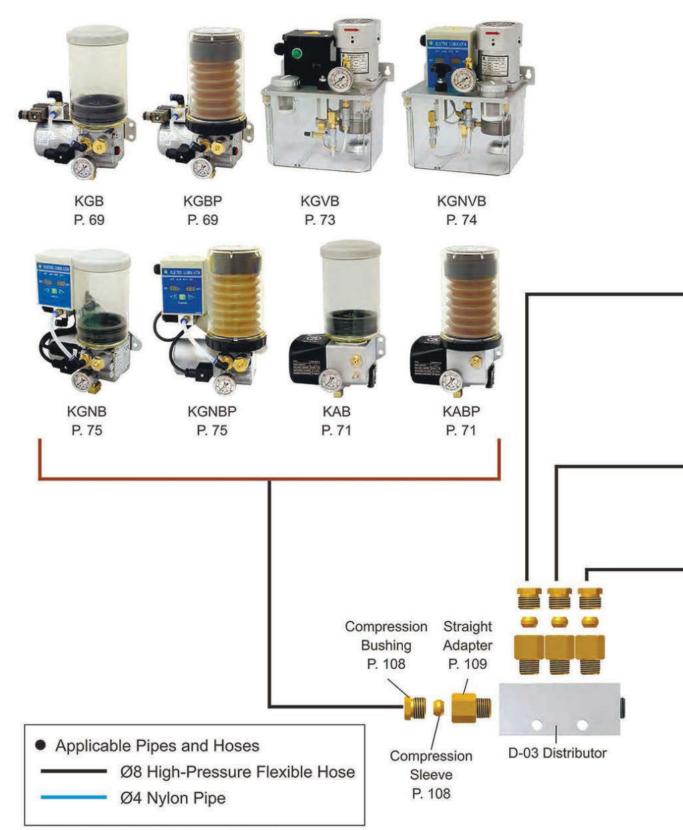


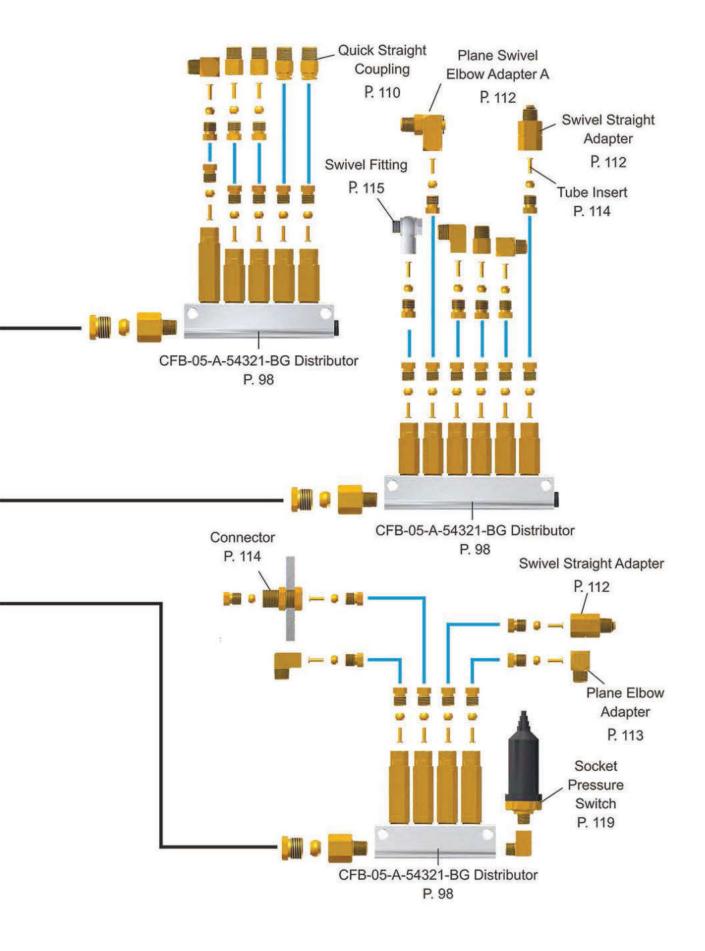












Customization Lubrication Systems

With more than 45 years of professional experience, we can customize and design for various unique specifications upon request. We also provide consultation service for all our customers.















Safety Instruction, Maintenance, and Warranty

ElectrkalSafety

- 1. To prevent electrical shock hazards, turn off the power while assembling or repairing this lubricator.
- 2. Ensure that the power supply is shutdown before unplugging the electric wire from the machinery.
- 3. Check the setting of the power supply if it is the correct voltage.
- 4. If the motor's power supply is damaged, do not try to repair it yourself. Contact a qualified service technician immediately.
- 5. Avoid operating the unit in a humid environment. Recommend installing an earth leakage circuit breaker (ELCB) to prevent possible shock hazards.

OperationSafety

- 1. Ensure that all the piping, cables, and accessories are correctly connected before operating.
- 2. If the work environment is full of dust and humidity with significant temperature fluctuation, those factors might shorten the lifetime of this Juhricator unit.
- 3. Place the lubricator unit on stable work surfaces to avoid shaking damage.

Prohibition

- 1. Forbld filling used oit, molybdenum disulfide, corrosive substance, or any volatile liquid that may damage the function of the lubricator unit. The warranty does not cover any malfunction due to improper use.
- 2. Do not fill the oil without the oil filter to prevent impurities from going through the oil tank and causing the piping tobe blocked.
- 3. Do not shake or drop the lubricator unit violently.
- 4. Do not operate this unit under a temperature of o•c or above 60"C.
- 5. Do not operate or repair this unit if you are not a qualified service technician to prevent the product breakdown or possible hazards.

Maintenance

- 1. Please do routine maintenance and check all the oil pipes, adapters, and connectors regularly. Replace the new oil pipes, adapters, and connectors immediately if leakage and damage are found.
- 2. Always keep this operation manual in a reachable place.
- 3. A daily check is essential to ensure the best performance of this lubricator unit. A complete maintenance check is required every six months of continuous operation.
- 4. To prevent electrical shock hazards, disconnect all electrical power before the maintenance and repair of this lubricator unit.

WarrantyService

- 1. We provide a one-year limited warranty at the time of the lubricator's original purchase. After the warranty period, any replacement parts will be charged.
- 2. Please keep the serial number label on the lubricator for future warranty checks. We will not provide warranty service wJthout the serial number.
- 3. After applying for warranty service, we will request the defective unit returned to us to clarify the responsibility attribution. Once we receive the defective lubricator unit, we will provide the testing report after the examination. If the buyer has fault liability, the buyer will bear the bill of return shipping expense and inspection fee.
- 4. After applying for warrant service, if the buyer requests a new unit for replacement before the cause is clarified, the defective unit should return to us within six months. If not, the buyer should pay for the new unit, closing the warranty application.
- 5. No warranty shall be claimed if the followings cause the damage to lubricator unit:
 - a) The damage caused by improper repairing or modifying the lubricator unit without VKE Technicians' authorization.
 - ь) Use improper oil that causes damage to the lubricator.
 - c) The damage caused by improper carry or drop or mishandled.
 - d) The damage caused by a natural disaster, such as floods, earthquakes, typhoons, and hurricanes.
 - e) The damage caused by improper use or other factors, such as installation errors or connecting the wrong voltage,

is not the manut. a Cturer's responsibility.

f) The damage caused by not following the instruction manual.

Return Policy

- 1. Do not ship your malfunctioning product back to VKE before contacting our sales department.
- 2. We will guide you to troublshoot first to see if the problem can be solved. If it stilt exists after troubleshooting, we require the malfunctioning parts back for examination before we send the replacement.
- 3. Return shipping is prepaid by the customer. We suggest that you insure your package and use a shipping method that provides tracking information. VKE is not responsible if the package gets Jost or damaged in transit to VKE.
- 4. After examination, if the problem of the malfunctioning parts is caused by VKE factory, we will send the parts to you after repairing is done. Your return shipping cost wil1 be reimbursed.
- 5. If VKE factory is not responsible for the problem, we will provide you a quotation for repairable parts. If the customer decides not to repair, the malfunctioning parts will be held for 30 days after notifying the customer repair report or can be handled upon the customer's instructions. The malfunctioning parts will be discarded after 30 days' notice if we do not receive any response.

Safety Instruction, Maintenance, and Warranty

1. Customer Information

Company Name:

Warranty Return Form

Please complete all fields of this form. By returning this Warranty Return Form to Chen Ying, you agree with our Warranty Terms and Return Policy described on page 147.

	Address:
Fax Number: Email Address: Appointed Courier: o DHL/ o TNT / o FedEX / o UPS / a Other: Courier Account Number: . Malfunctioning Product Information VKE Proforma Invoice Number: Your Purchase Order Number: Malfunctioning Product Type/ Model / Specifications: olubricator: Distributor: o Motor / Oil Pump: oOther: Product Serial Number: Malfunctioning Product Quantity: Date of Problem Happened: Details of Problem: SuspectedCause: Additional Comments:	Contact Person Full Name:
Email Address: Appointed Courier: o DHL/ o TNT / o FedEX / o UPS / a Other: Courier Account Number: . Malfunctioning Product Information VKE Proforma Invoice Number: Your Purchase Order Number: Malfunctioning Product Type/ Model / Specifications: olubricator: Distributor: o Motor / Oil Pump: oOther: Product Serial Number: Malfunctioning Product Quantity: Date of Problem Happened: Details of Problem: Suspected Cause: Additional Comments:	Phone Number:
Appointed Courier: o DHL/ o TNT / o FedEX / o UPS / a Other: Courier Account Number: MalfunctioningProduct Information VKE Proforma Invoice Number: Your Purchase Order Number: Malfunctioning Product Type/ Model / Specifications: olubricator: Distributor: o Motor / Oil Pump: oOther: Product Serial Number: Malfunctioning Product Quantity: Date of Problem Happened: Details of Problem: SuspectedCause: Additional Comments:	Fax Number:
Courier Account Number: Malfunctioning Product Information VKE Proforma Invoice Number: Your Purchase Order Number: Malfunctioning Product Type/ Model / Specifications: olubricator: Distributor: o Motor / Oil Pump: oother: Product Serial Number: Malfunctioning Product Quantity: Date of Problem Happened: Details of Problem: Suspected Cause: Additional Comments:	Email Address:
Malfunctioning Product tnformation VKE Proforma Invoice Number: Your Purchase Order Number: Malfunctioning Product Type/ Model / Specifications: olubricator: Distributor: o Motor / Oil Pump: oother: Product Serial Number: Malfunctioning Product Quantity: Date of Problem Happened: Details of Problem: Suspected Cause: Additional Comments:	Appointed Courier: o DHL/ o TNT / o FedEX / o UPS / a Other:
VKE Proforma Invoice Number: Your Purchase Order Number: Malfunctioning Product Type/ Model / Specifications: olubricator: Distributor: o Motor / Oil Pump: oOther: Product Serial Number: Malfunctioning Product Quantity: Date of Problem Happened: Details of Problem: SuspectedCause: Additional Comments:	Courier Account Number:
VKE Proforma Invoice Number: Your Purchase Order Number: Malfunctioning Product Type/ Model / Specifications: olubricator: Distributor: o Motor / Oil Pump: oOther: Product Serial Number: Malfunctioning Product Quantity: Date of Problem Happened: Details of Problem: SuspectedCause: Additional Comments:	
Your Purchase Order Number: Malfunctioning Product Type/ Model / Specifications: olubricator: Distributor: O Motor / Oil Pump: OOther: Product Serial Number: Malfunctioning Product Quantity: Date of Problem Happened: Details of Problem: SuspectedCause: Additional Comments:	2. MalfunctioningProduct tnformation
Malfunctioning Product Type/ Model / Specifications: olubricator: Distributor: o Motor / Oil Pump: oOther: Product Serial Number: Malfunctioning Product Quantity: Date of Problem Happened: Details of Problem: SuspectedCause: Additional Comments:	VKE Proforma Invoice Number:
olubricator: Distributor: o Motor / Oil Pump: oOther: Product Serial Number: Malfunctioning Product Quantity: Date of Problem Happened: Details of Problem: SuspectedCause: Additional Comments:	Your Purchase Order Number:
Distributor: o Motor / Oil Pump: oOther: Product Serial Number: Malfunctioning Product Quantity: Date of Problem Happened: Details of Problem: SuspectedCause: Additional Comments:	Malfunctioning Product Type/ Model / Specifications:
o Motor / Oil Pump: oOther: Product Serial Number: Malfunctioning Product Quantity: Date of Problem Happened: Details of Problem: SuspectedCause: Additional Comments: Your Signature:	olubricator:
oOther: Product Serial Number: Malfunctioning Product Quantity: Date of Problem Happened: Details of Problem: SuspectedCause: Additional Comments: Your Signature:	Distributor:
Product Serial Number: Malfunctioning Product Quantity: Date of Problem Happened: Details of Problem: SuspectedCause: Additional Comments: Your Signature:	o Motor / Oil Pump:
Malfunctioning Product Quantity: Date of Problem Happened: Details of Problem: SuspectedCause: Additional Comments: Your Signature:	oOther:
Date of Problem Happened: Details of Problem: SuspectedCause: Additional Comments: Your Signature:	Product Serial Number:
Details of Problem: SuspectedCause: Additional Comments: Your Signature:	Malfunctioning Product Quantity:
SuspectedCause: Additional Comments: Your Signature:	Date of Problem Happened:
Additional Comments: Your Signature:	Details of Problem:
Additional Comments: Your Signature:	
Additional Comments: Your Signature:	
Your Signature:	SuspectedCause:
Your Signature:	
Your Signature:	
	Additional Comments:
Date: DD/MM/YYYY	Your Signature:
	Date:



Certificate of authorization

Exclusive Distributor

We hereby certify that

Company <u>"Bazovaja tehnika" (Basic technique)</u>

OGRN 1147847189511

is the exclusive distributor for VKE Components and the only representative office in Russia, Belarus, Kazahstan and ex-CIS countries. It has the rights to give the subdealer's rights to other companies at the area.

January 25th, 2024

/Kim, Yoon Koon

CEO



Контакты 000"Базовая техника"

Реквизиты компании

000 "Базовая техника"

Юридический адрес: 195197, Россия, Санкт-Петербург, Кондратьевский проспект, 15, корп. 5Б

Фактический адрес: 195197, Россия, Санкт-Петербург, Кондратьевский проспект, 15, корп. 5Б

ИНН 7814613087 ОГРН 1147847189511

Время работы Пн - Пт 8:30 - 17:30 Перерыв на обед 12:30 - 13:00 Сб - Вс - Выходной

Отгрузка товара пн-пт с 9:00 до 16:00

Офис и склад в Санкт-Петербурге 195197, Россия, Санкт-Петербург, Кондратьевский проспект, 15, корп. 5Б

