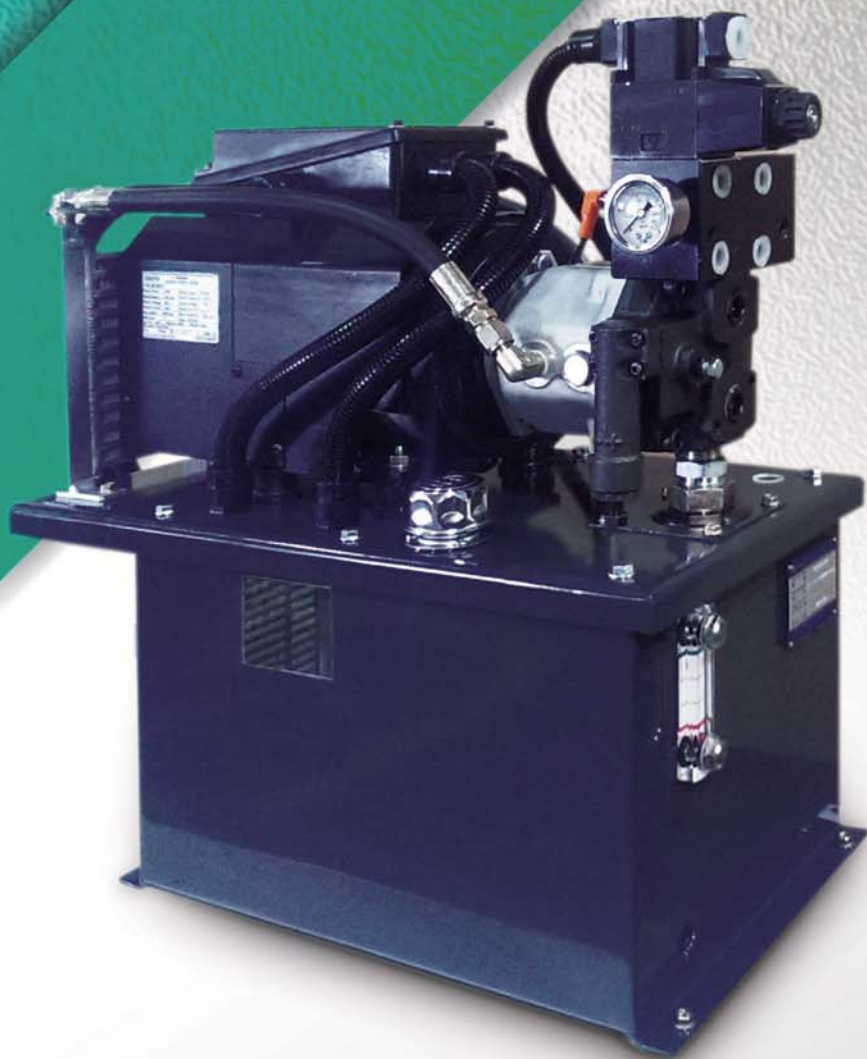




Servo System for CNC

A NEW GENERATION OF ENERGY SAVING SOLUTION

Committed To Help You
Upgrade Competitive Edge!

Saving Electricity!
Lowering Oil Temperature!
Saving Cooling Water Consumption!



Let's save energy
and save the Earth

CHUYA

CHU-YA
HYDRAULIC HARDWARE CO., LTD.

SERVO CONTROLLED ENERGY-SAVING HYDRAULIC POWER UNIT WITH VARIABLE DISPLACEMENT PUMP

A COMBINATION OF HYDRAULIC, ELECTRIC AND SERVO TECHNOLOGIES

Energy Saving More Than **75%**

(compared with our product during pressure retention)

- During pressure retention, the reduction of motor running speed will lead to a dramatic energy saving.
- Utilize European brand ABB controller and piston pump.

Fast Response Capability

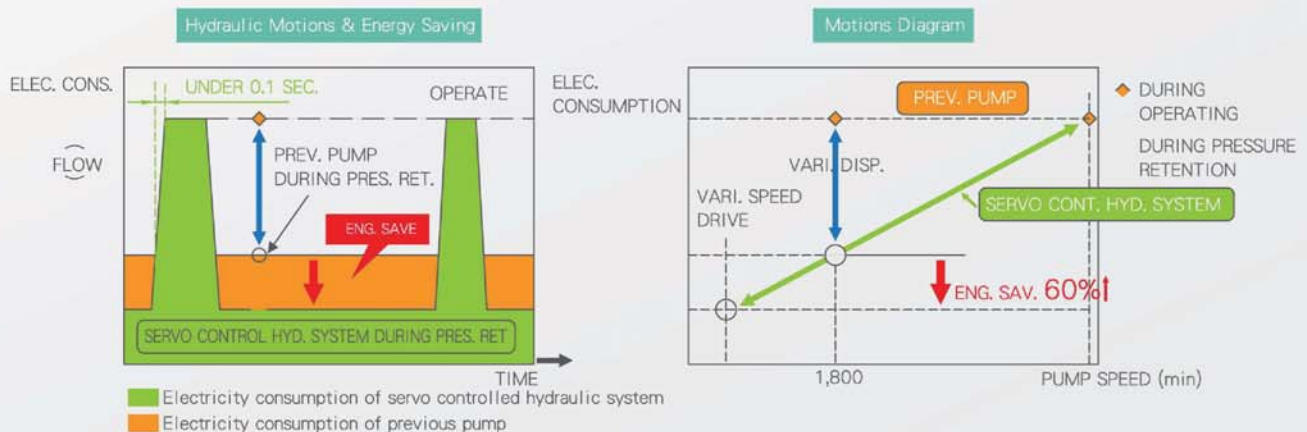
- Better response feature when compared with previous variable displacement pumps. (Under pressure retention and maximum displacement conditions, running time is under 0.1 sec.)



ENERGY SAVING DIAGRAM

Self Energy Saving Type Pressure & Flow Control

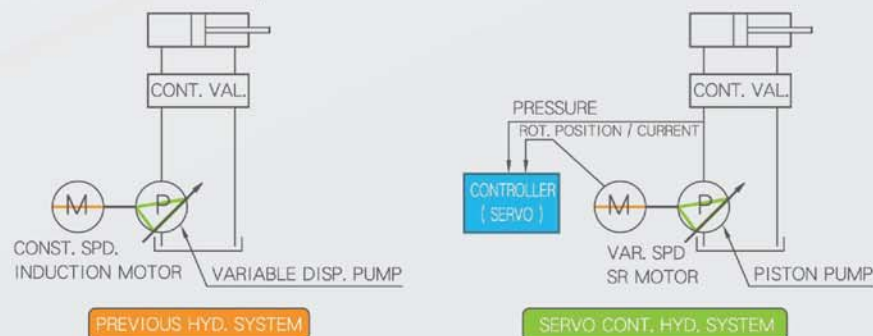
- With pressure detection, a proper oil flow is supplied according to various loading conditions.
- Under the pressure retention condition, motor runs at the lowest speed providing compensation for oil leakage. While the hydraulic system is working, motor runs at a high speed to supply the required flow.



SYSTEM CONSTRUCTION

Saving Space and Resource

- Compact construction. A resource saving type without the use of magnet (Saving source of more than 60% compared with previous devices).
- Oil flow can be kept at a minimum value with low speed running, thus hydraulic oil aging is dramatically improved compared with conventional systems.



Easy To Set and Operate

- Simply connecting to a 220V/380V power source, then operation can be started.

DESCRIPTION OF MODEL (*means standard model)

SCA P - 20 E - 15 16 B 22 - F2 - 10

SERIES CAPACITY POWER PRESSURE OPTION

FEATURE

DRIVE

DISPLACEMENT

VOLT

DESIGN NO.

(No need to fill when operating)

Option (Fill in by alphabetical order)

F/R: manifold block

(Refer to optional accessories for detailed dimensions)

VOLT

22: standard 220V, AC 200-240V, 50/60 Hz

38: standard 380V, AC 380-380V, 50/60 Hz

PRESSURE ADJ. RANGE *

A	10-40 kgf/cm ²
B	15-70 kgf/cm ²
C	20-140 kgf/cm ²
D	25-210 kgf/cm ²

PUMP

DISPLACEMENT

		AR	P
8	8 cm ³ /rev	●	
12	12 cm ³ /rev	●	
16	16 cm ³ /rev	●	
22	22 cm ³ /rev	●	
36	36 cm ³ /rev	○	●
46	46 cm ³ /rev	○	●

● Supply ○ not supply

Motor torque output may vary with voltages in various areas. The standard pressure value of the servo controlled hyd. system is based on AC 220V before shipment.

MOTOR POWER

Motor Power (HP)		Oil Tank Capacity			
		10L	20L	30L	40L
07	0.75KW (1HP)	●	●	○	○
15	1.5KW (2HP)	●	●	○	○
22	2.2KW (3HP)	●	●	●	●
37	3.7KW (5HP)	○	○	●	●

● Supply ○ not supply

DRIVE

OIL TANK CAPACITY :

10 : 10L

20 : 20L

30 : 30L

40 : 40L

60 : 60L

80 : 80L

DRIVE	Oil Tank Capacity			
	10L	20L	30L	40L
Front-mount servo drive	○	●	●	●
Built-in servo drive	●	●	●	●
Rear open type servo				
Built-in servo drive				
Side open type servo	●	●	●	●
Motor fan at right side				
Built-in servo drive				
Side open type servo	●	●	●	●
Motor fan at left side				

● Supply ○ not supply

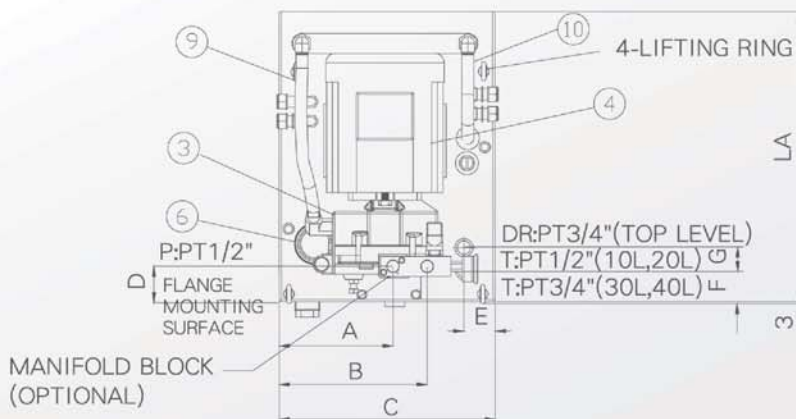
*P: servo series

V: extruded aluminum series

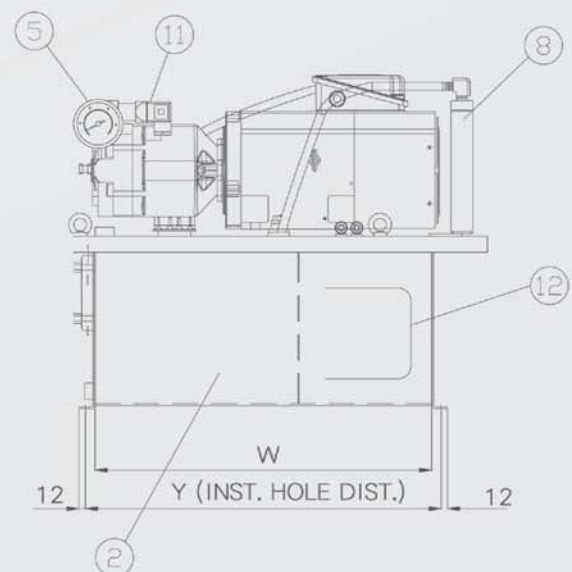
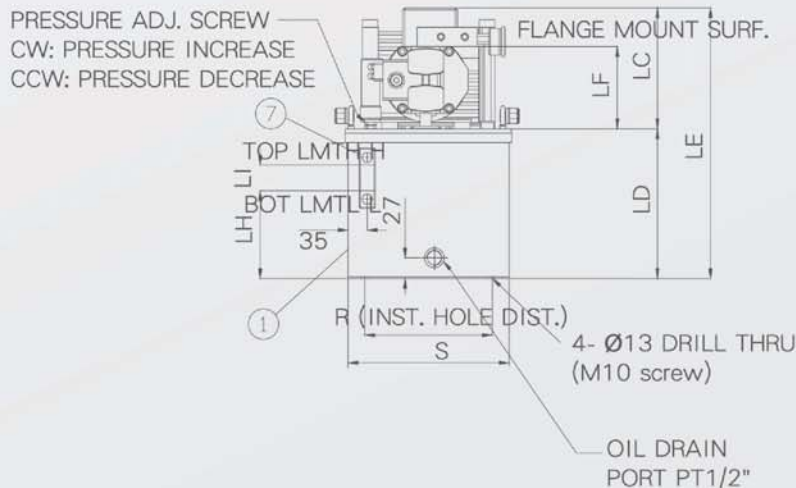
SERVO CONTROLLED ENERGY SAVING HYD. POWER UNIT

10L BUILT-IN REAR OPEN TYPE SERVO DRIVE

PISTON PUMP SERIES (AR)



No.	Description
01	Oil tank
02	Oil suction filter screen
03	Piston pump
04	Motor
05	Pressure gauge
06	Oil filler
07	Oil level gauge
08	Fan cooler
09	Oil return hose
10	Oil return hose
11	Pressure transmitter
12	Servo control box
13	Oil tank foot

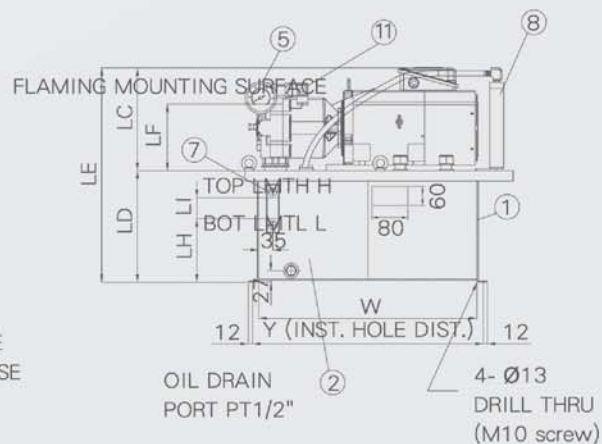
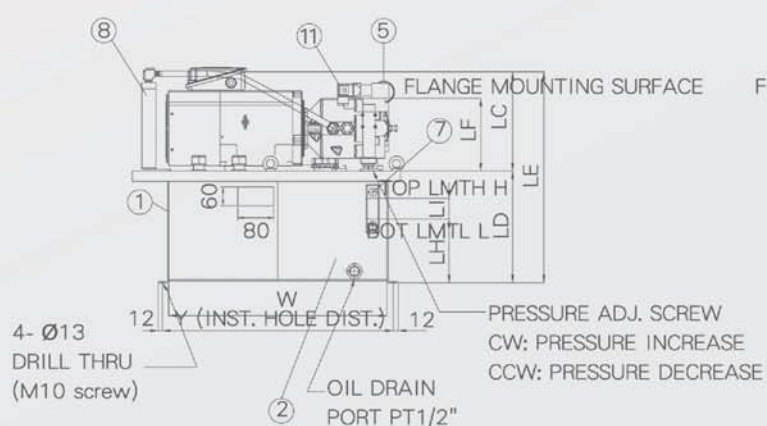
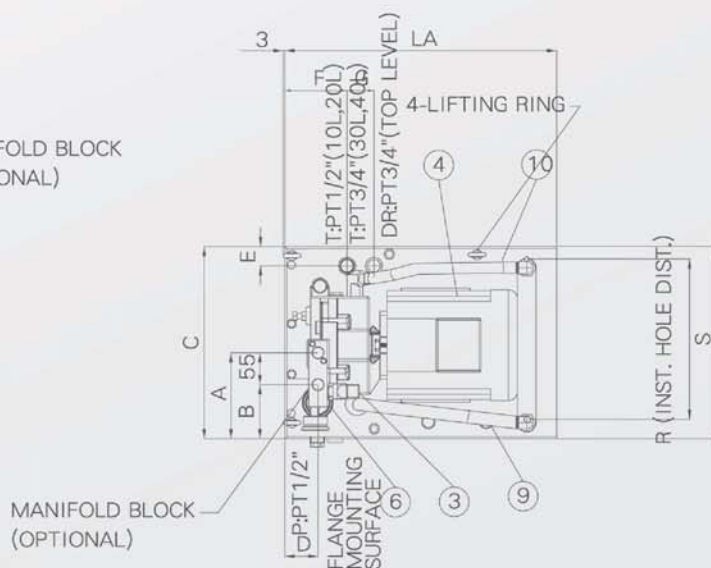
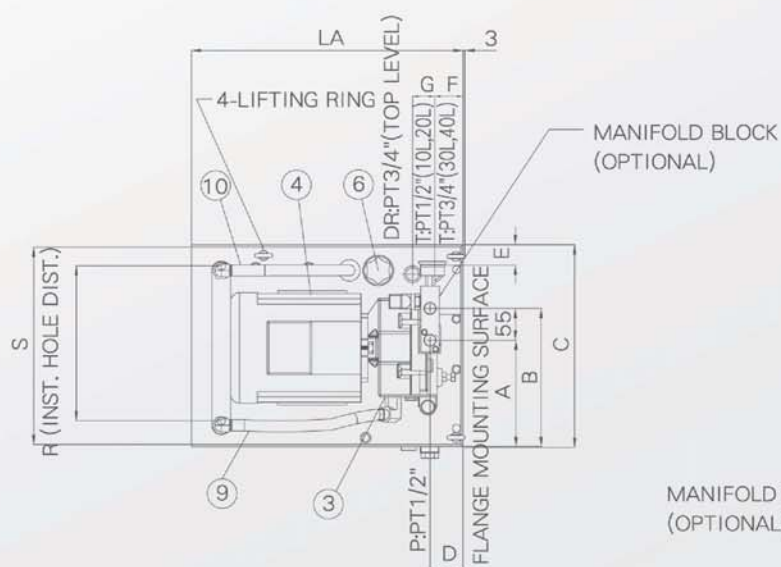


MODEL	Dimensions																				Approx. Weight(kg)
	LA(pis/van)	LC	LD	LE	LF(pis/van)	LH	LI	H	L	A	B	C	D(AR/VD/SVD)	E	F	G	R	Y	S	W	
10L-0.75KW	542/499	217		479	154/152																46
10L-1.5KW	571/528	243	262	505	170/168	159	45	14L	10L	140	195	300	64/64/79	45	50	50	240	441	290	410	51
10L-2.2KW	614/572	265		527	180/178																56
20L-0.75KW	542/499	217		579	154/152																58
20L-1.5KW	571/528	243	362	605	170/168	259	45	21L	18L	140	195	300	64/64/79	45	50	50	240	441	290	410	64
20L-2.2KW	614/572	265		627	180/178																70
30L-2.2KW	615/572																				84
30L-3.7KW	645/602	265	320	585	180/178	218	263	31L	25L	185	240	370	64/64/79	55	55	55	290	541	360	510	92
40L-2.2KW	615/572																				89
40L-3.7KW	645/602	265	420	685	180/178	318	363	43L	38L	185	240	370	64/64/79	55	55	55	290	541	360	510	97

10/20/30/40L SIDE OPEN TYPE SERVO CONTROL MOTOR AT LEFT SIDE

PISTON PUMP SERIES (AR)

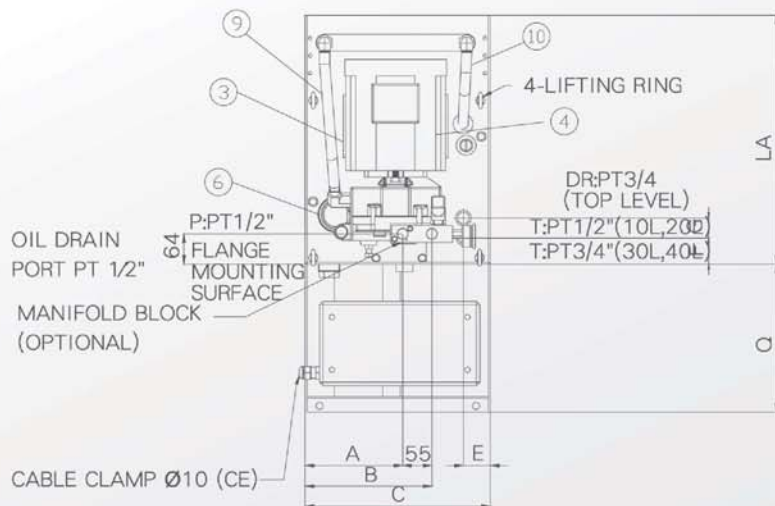
No.	Description	No.	Description
01	Oil tank	08	Fan cooler
02	Oil suction filter screen	09	Oil return hose
03	Piston pump	10	Oil return hose
04	Motor	11	Pressure transmitter
05	Pressure gauge	12	Servo control box
06	Oil filler	13	Oil tank foot
07	Oil level gauge		



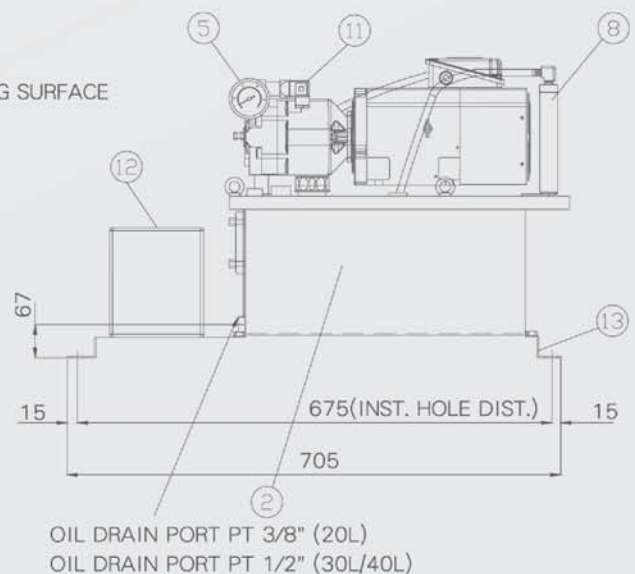
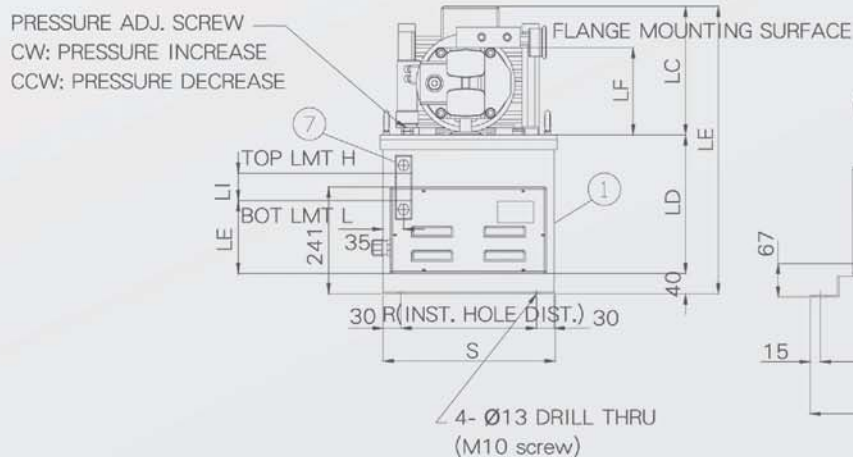
MODEL	Dimensions																				Approx. Weight(kg)
	LA (pis/van)	LC	LD	LE	LF (pis/van)	LH	LI	H	L	A	B (L/R)	C	D (AR/VD/SVD)	E	F AR Right/Others	G	R	Y	S	W	
10L-0.75KW	542/499	217		479	154/152																46
10L-1.5KW	571/528	243	262	505	170/168	159	45	14L	10L	140	195/85	300	64/64/79	45	130/50	50	240	441	290	410	51
10L-2.2KW	614/572	265		527	180/178																56
20L-0.75KW	542/499	217		579	154/152																58
20L-1.5KW	571/528	243	362	605	170/168	259	45	21L	18L	140	195/85	300	64/64/79	45	130/50	50	240	441	290	410	64
20L-2.2KW	614/572	265		627	180/178																70
30L-2.2KW	615/572	265	320	585	180/178	218	263	31L	25L	185	240/130	370	64/64/79	55	55	55	290	541	360	510	84
30L-3.7KW	645/602																				92
40L-2.2KW	615/572	265	420	685	180/178	318	363	43L	38L	185	240/130	370	64/64/79	55	55	55	290	541	360	510	89
40L-3.7KW	645/602																				97

10/20/30/40L FRONT MOUNT TYPE SERVO DRIVE

PISTON PUMP SERIES (AR)

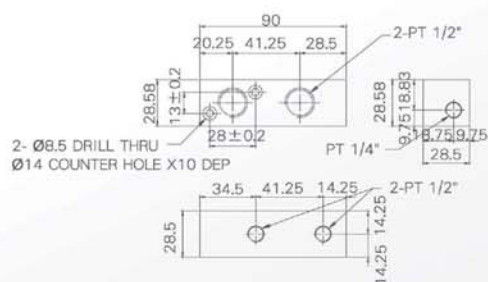


No.	Description
01	Oil tank
02	Oil suction filter screen
03	Piston pump
04	Motor
05	Pressure gauge
06	Oil filler
07	Oil level gauge
08	Fan cooler
09	Oil return hose
10	Oil return hose
11	Pressure transmitter
12	Servo control box
13	Oil tank foot

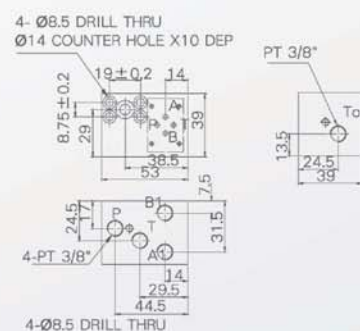


MODEL	Dimensions																		Approx. Weight(kg)
	LA(Pis/Van)	LC	LD	LE	LF(Pis/Van)	LH	LI	H	L	A	B	C	E	F	G	Q	R	S	
20L-0.75KW	803/761	213		520	160/158														59
20L-1.5KW	832/790	241	267	548	170/168	164.5	45	20L	15L	140	195	300	45	50	50	265	230	290	65
20L-2.2KW	876/834	266		573	180/178														71
30L-2.2KW	826/784	266	306	612	180/178	198.5	45	30L	25L	150	205	350	55	55	55	215	280	340	84
30L-3.7KW	859/817																		92
40L-2.2KW	826/784	266	266	691	180/178	277.5	45	40L	35L	150	205	350	55	55	55	215	280	340	89
40L-3.7KW	859/817																		97

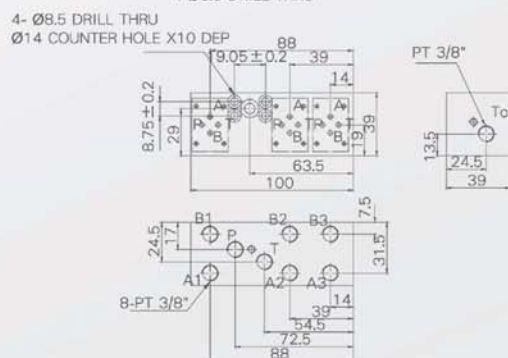
P2



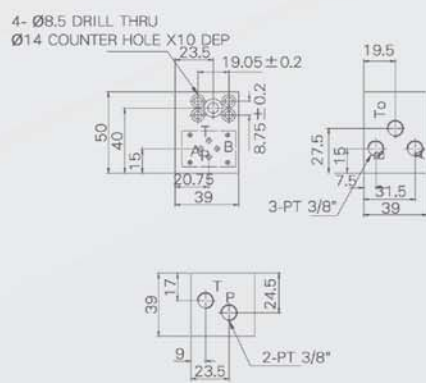
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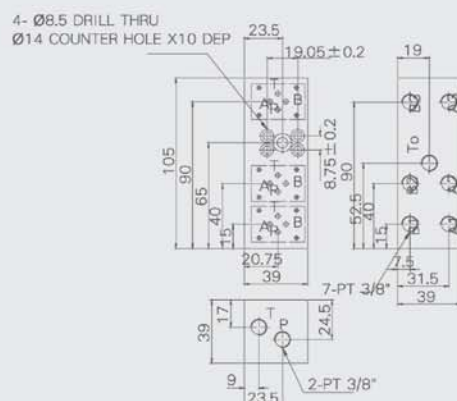
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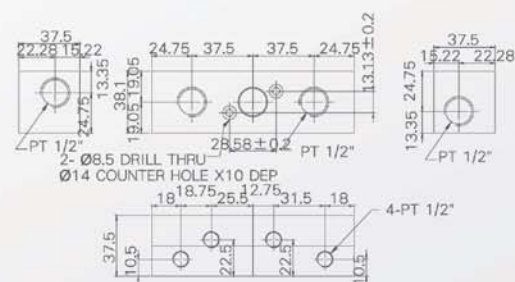
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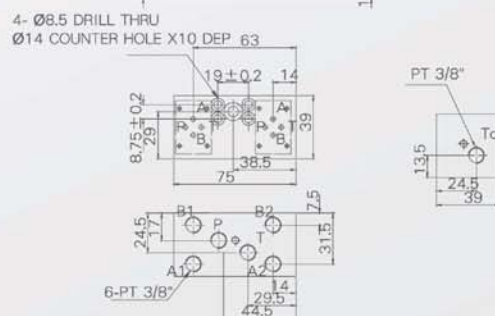
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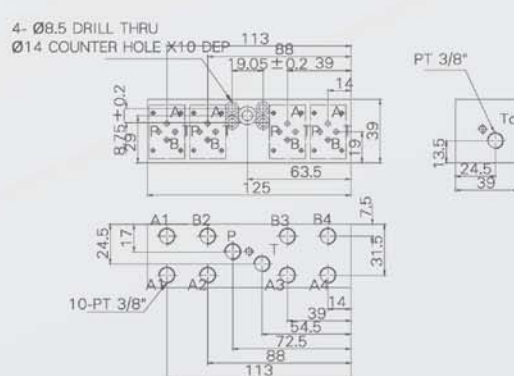
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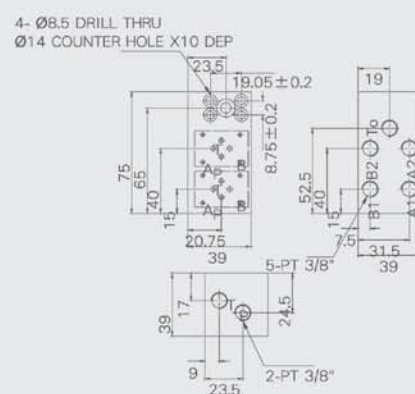
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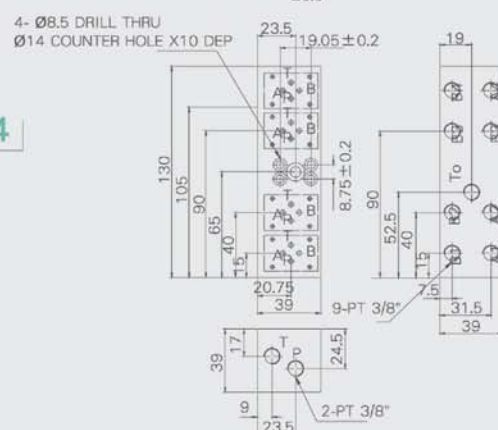
F4



R2



R4





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