

高效伺服
KINGSTONE
節能環保

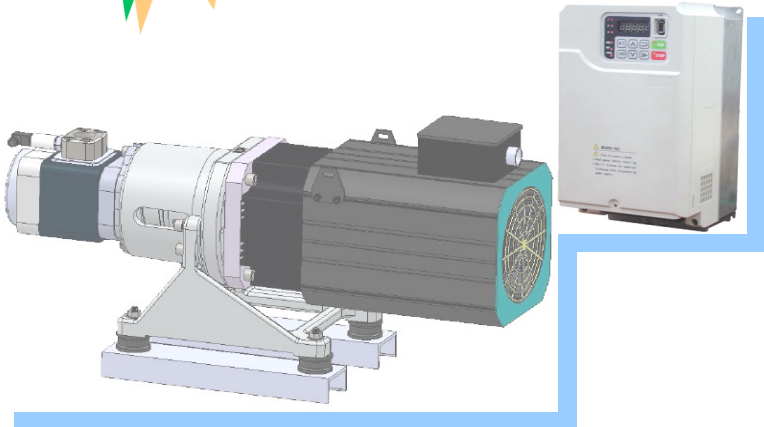
SDP- Servo Driving Pump

Servo Driving Pump System (For Injection Molding Especially)

KINGSTONE



200V- 400V Series



Control Unit
HITACHI TOSHIBA MITSUBISHI
FUJI EUPEC OMRON PHILIPS
MOLEX...

Servo Motor
TAMAGAMA TECO PHASE
Low Interia SPM
Synchronic

KINGSTONE

Driving Unit
ECKERLE REXROTH SIMENS KTR
Internal Gear with pressure compension
Aluminum Flexible Coupling

Sales Record
within last 6 years
Over 320,000 Sets

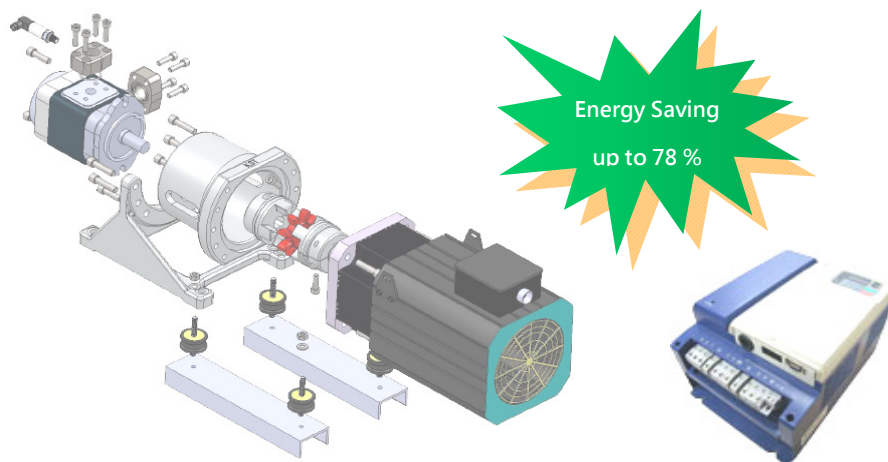
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Servo Driving Pump System - For Injection Molding Only

General Description :

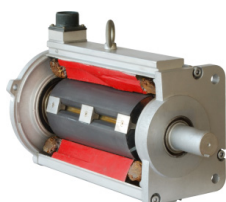
This series, **SDP** is mainly applied in the fields as injection which requires efficiency, accuracy and energy saving. In recent years, the power control unit of various injection machines is generally composed of fixed displacement pumps plus normal inverter motor or variable pump plus normal asynchronous motor, which presents the performance limitation therein and can hardly avoid the defaults of traditional hydraulic power control system, such as low efficiency, poor accuracy, energy wasting, heating, low stability and noise. So a control project of fluency and pressure double close-loop drove by special servo driver and servo motor was put forward against all those problems. The control project has been proved ideal in practice.



SDP System Features:

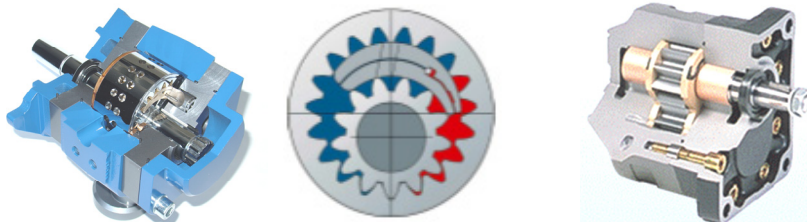
▲ High Energy Saving

Under ideal state, **it consumes 35%-80% less energy** than traditional hydraulic power control system, servo driving pump system which can eliminate energy lost at idle work, calculate and control the speed of servo motor and pump according to the requested pressure and flow rate of injection execution unit. **SDP** servo pump system realizes speed and pressure double closed loop control by **AC servo drive** and **SPM synchronous servo motor (super low Rotor-inertia)** driving internal pump. The output flow rate is determined by servo motor speed and ration internal gear pump's output volume. The system pressure real-time measured by another pressure sensor. Compared with constant rate pump or variable pump, it can obviously reduce the electric power charge, saving cooling water and reduce the heat created by wasted water, normally **it reduce 70% water Consumption.**



▲ High Effectiveness

The adapted **ECKERLE- EIPS/EIPC/EIPH** series (internal gear pump with axial and radial gap compensation) guarantee high effectiveness (volumetric efficiency up to 95% to 98%) low leakage and low noise (less than 62~70 dB), quieter when running with low speed at high speed (super low ripple 1.5%~2.0%).



▲ High Precision

HITACHI CPU and high precision pressure sensor (Measurement) are adapted to control-inspect system current (under 0.2% at oil temperature under 0~70°C) and pressure. Resolver is selected as feedback component of servo motor. The **SDP's** inspection precision to pressure reference and feedback can reach 16 bits; the inspection precision to resolver can reach 65536 P/R. The system control cycle can reach 0.1ms, which can match the request of high precision production.

- Repeatability : under 0.2%
- Accelerated Response : 40ms Ex: foe system flow of 80LPM
- Pressure Holding : ±1kg

▲ High Dynamic Performance

SDP series AC servo system generation is adapted which has high overload capacity, and ensures the fast responsiveness of system.

KTR-Aluminum-Flexible Coupling is applied in the **SDP**. Its non-clearance and low inertia advantage, giving full torque transmission and shock-absorption.



▲ Super Stability and Reliability :

This servo drive with close-loop control is infinitely superior in repeatability comparing to traditional hydraulic power control system. Different from the often used of **Optical Encoder**, SDP adopts of Japanese **Shockproof, dustproof, waterproof, anti-oil, anti-gas and high resolution TAMAGAWA Resolver** to ensure its long life.





▲ Small heat-production :

Servo drive can put out hydraulic oil by portions thus avoids the production of unnecessary heat and temperature climb. Meanwhile, it can save lots of water because there is no need to cool down hydraulic oil.

▲ CAN chief cable control :

Besides the basic PC control system through voltage/current analog signal, pressure and flow of **SDP** can be controlled by high-speed correspondence (1MHz) through CAN chief cable, avoiding thoroughly external disturbance occurring to the transportation of analog signal. Meanwhile, real-time monitoring of pressure, flow, motor output current, load factor and other signals can be realized through this technology.

▲ Cooperation of multiple servo oil pumps :

Considering the economic feasibility of **SDP** on medium and large injection machines, it is suggested to use two or more **SDP** together and apply CAN chief cable control and the special technology of servo pumps control (multi-machine control) to realize the cooperation of multiple servo oil pumps.

▲ Dual displacement hydraulic pump control :

Using **SDP** to control the switch of the two outlets of hydraulic pumps contributes to the capacity protection and keeps the injection machine work under an ideal condition without alarm. Meanwhile, pressurization with small displacement ensures precision, stability and low energy consumption.

KINGSTONE has concentrated on R/D of AC servo system for many years. **SDP** has owned many AC servo system key technologies. The power range of servo system for injection machine application is from **1.5kW to 75kW** so that it can be used in most application. The company can also customize and develop for clients to match the special request of different clients.

KINGSTONE owns many years' experience hydraulic pressure relevant product's R/D. They can offer whole solution project according to the request of different clients.

Note:

For special configuration (how to choose proper servo motor, hydraulic pump, pressure sensor for your own machine's parameter), please contact us directly.

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SDP伺服泵 技術優勢組合圖

Advantage of Servo Driving Pump System 2/2



為穩定保
高穩節電
益能保
益能保
益能保

序號	元件名稱	生產廠家名稱	Country	MFG
01	CPU-中央處理器	日本日立	Japan	HITACHI
02	逆變功率模組#A	日本富士	Japan	FUJI
03	逆變功率模組#B	德國優派克	Germany	EUPEC
04	逆變功率模組#C	日本三菱	Japan	MITSUBISHI
05	整流模組	日本三社	Japan	SANREX
06	電容	日本佳美工	Japan	CHEMI-CON
07	壓敏電阻	日本佳美工	Japan	CHEMI-CON
08	光藕	美國安華	USA	AVAGO
09	光藕	日本東芝	Japan	TOSHIBA
10	穩壓管	日本菲利浦	Japan	PHILIPS
11	二極體	日本東芝	Japan	TOSHIBA
12	快速保險管	美國博孚美	USA	BUSSMANN
13	插座	美國莫仕	USA	MOLEX
14	繼電器	美國歐姆龍	USA	OMRON
15	壓敏電阻	日本佳美工	Japan	CHEMI-CON
16	電流互感器	日本甲神電機	Japan	KOHSHIN

TOSHIBA
MITSUBISHI
HITACHI
PHILIPS
FUJI
SANREX
KOHSHIN
CHEMI-CON
EUPEC
OMRON
MOLEX
BUSSMANN
AVAGO

200V Servo Driving Pump Specifications

HITACHI TOSHIBA MITSUBISHI FUJI EUPC TAGAMA PHASE ECHERLE VOITH



MODEL			KINGSTONE K2-											
			048-07K	066-07K	075-11K	096-11K	120-15K	130-15K	150-18K	160-22K	192-22K	200-33K	260-33K	350-45K
System Spec.	System Flow Control Features	Max. Flow L / min	48	66	75	96	120	130	150	160	192	200	260	350
		Pumps Displacement c.c/rev	16	22	25	32	40	50	50	64	64	80	100	125
		Linearity %	Under 1% F.S.以下											
		Hysteresis %	Under 1% F.S.以下											
		Repeatability %	Under 1% F.S.以下											
		Accelerated Response sec	0.03	0.03	0.03	0.04	0.04	0.04	0.05	0.06	0.06	0.08	0.08	0.08
	Pressure Control Features	Max. Pressure Mpa	19.0	18.0	16.0	18.0	17.5	17.5	17.6	17.0	18.5	18.4	28.0	28.0
		Min. Control Pressure Mpa	Under 0.1MPa											
		Linearity %	Under 1% F.S.以下											
		Hysteresis %	Under 1% F.S.以下											
		Repeatability %	Under 1% F.S.以下											
		Pressure Response sec	Under 0.09											
		Unloading Response sec	Under 0.07											
	Hydraulic Fluid Required	Fluid	ISO VG32C 或(or) #46, #68 石油系作動油 (Mineral Oil)											
		Viscosity	10-2000 mm²/s											
		Filtration	NAS1638, classe8, 濾網(Filter) β10>100											
	System Weight	Body Kg	32	38	37	64	89	99	97	106	114	169	147	195
		Controller Kg	10	10	11	11	11	14	14	14	38	38	43	43
Servo Motor Spec.	Power KW		7.0	7.0	11.0	11.0	15.0	15.0	18.0	22.0	22.0	33.0	33.0	45.0
	Insulation Class		F Class											
	Cooling Mode		全閉強冷 (Air Cooled)											
	Ambient Temperature		0~40 ℃ (但不結冰 But not frozen)											
	Ambient Humidity		10~80%RH以下 (但不結露 But not dewed)											
Driver Spec.	Model of Driver		M2006	M2008	M2011	M2011	M2015	M2015	M2018	M2022	M2030	M2030	M2037	M2045
	Control Method		PWM 3相正弦波 (3 Phase sine wave)											
	Main Circuit	Power Source	3相 (3Phases) AC200 ~ 230V +10% , -15% ; 50/60Hz											
			KW	5.5	7.5	11.0	11.0	15.0	15.0	18.5	22.0	30.0	30.0	37.0
		kVA	8.0	11.0	17.0	17.0	23.0	23.0	27.0	33.0	45.0	45.0	56.0	69.0
	Voltage		內置 (Built-in)											
	Continued Max. Current A		31	38	49	49	58	58	71	85	115	115	145	180
	Momentary Max. Current A		45	55	51	71	86	86	103	128	173	173	216	242
	Impedance of Regenerative Resistor Ω		10	10	8	8	8	8	6	6	內置(Built-in)			
	Capacity of Regenerative Resistor W		500	500	800	800	800	800	1000	1000				
	Mode of Regenerative Resistor		外接 (External)											
	Speed Sensor		檢角器 (Resolver)											
	Speed Commending		DC 0~10 V											
	Pressure Commending		DC 0~10 V											
	General Input Signal		6 ch DC24V 8mA											
	General Output Signal		2 ch DC24V 50mA											
	Analog Output Signal		2ch DC 0~10 V (選購品 Optional)											
	Cooling Mode		強冷開放 (Air Cooled)											
	Ambient Temperature		-10℃~40 ℃ (但不結冰 But not frozen)											
	Ambient Humidity		Under 90%RH以下 (但不結露 But not dewed)											
	Protection Function		過電流、過電壓、電壓太低、馬達過載、感測器異常、斷線；Over Current, Over Voltage, Under Voltage, Overload, Regenerative Error, Over Speed etc. ・ { All interfaces are protected by insulation from the primary power supply}											
	Communication		RS485通訊埠, 採用MODBUS議；CAN通訊介面, 採用CANOpen議 RS-485 Communication Interface with MODBUS Protocol：CAN Communication Interface with CANOpen Protocol.											
	Wave Filter ※Optional A		35	65	65	65	65	65	90	90	145	145	145	185
	Circuit Breaker-※Optional A		55	75	90	90	110	110	130	150	185	185	260	260
	Contactor ※Optional A		55	55	55	55	90	90	90	90	145	145	185	185

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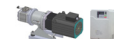
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400V Servo Driving Pump Specifications

HITACHI TOSHIBA MITSUBISHI FUJI EUPC TAGAMA PHASE ECKERLE VOITH



MODEL				KINGSTONE K4-											
				048-07K	066-07K	075-11K	096-11K	120-15K	130-15K	150-18K	160-22K	192-22K	200-33K	260-33K	350-45K
System Spec.	System Flow Control Features	Max. Flow	L /min	48	66	75	96	120	130	150	160	192	200	260	350
		Pumps Displacement	c.c/rev	16	22	25	32	40	50	50	64	64	80	100	125
		Linearity	%	Under 1% F.S.以下											
		Hysteresis	%	Under 1% F.S.以下											
		Repeatability	%	Under 1% F.S.以下											
		Accelerated Response	sec	0.03	0.03	0.03	0.04	0.04	0.04	0.06	0.06	0.08	0.08	0.08	0.08
	Pressure Control Features	Max. Pressure	Mpa	18.5	19.6	19.5	18.0	21.0	20.5	18.0	19.0	19.8	19.8	21.0	21.0
		Min. Control Pressure	Mpa	Under 0.1MPa											
		Linearity	%	Under 1% F.S.以下											
		Hysteresis	%	Under 1% F.S.以下											
		Repeatability	%	Under 1% F.S.以下											
		Pressure Response	sec	Under 0.09											
		Unloading Response	sec	Under 0.07											
	Hydraulic Fluid Required	Fluid		ISO VG32C 或(or) #46, #68 石油系作動油 (Mineral Oil)											
		Viscosity		10-2000 mm²/s											
		Filtration		NAS1638, classe8, 濾網(Filter) β10>100											
	System Weight	Body	Kg	32	38	37	64	89	99	97	106	114	169	147	195
		Controller	Kg	5	5	6	6	6	6	14	14	14	14	38	38
Servo Motor Spec.	Power		KW	7.0	7.0	11.0	11.0	15.0	15.0	18.0	22.0	22.0	33.0	33.0	45.0
	Insulation Class			F Class											
	Cooling Mode			全開強冷 (Air Cooled)											
	Ambient Temperature			0~40 ℃ (但不結冰 But not frozen)											
	Ambient Humidity			10~80%RH以下 (但不結露 But not dewed)											
Driver Spec.	Model of Driver			M4006	M4008	M4011	M4011	M4015	M4015	M4018	M4022	M4030	M4030	M4037	M4045
	Contorl Method			PWM 3相正弦波 (3 Phase sine wave)											
	Main Circuit	Power Source		3相(3Phase) AC350 ~ 420V +10%, -15% · 50/60Hz ±5%											
			KW	5.5	7.5	11.0	11.0	15.0	15.0	18.5	22.0	30.0	30.0	37.0	45.0
			kVA	9.0	13.0	19.0	19.0	26.0	26.0	31.0	37.0	51.0	51.0	63.0	77.0
	Voltage			內置 (Built-in)											
	Continued Max. Current		A	17	21	27	27	34	34	42	52	65	65	80	97
	Momentary Max. Current		A	26	31	41	41	50	50	60	74	100	100	125	140
	Impedance of Regenerative Resistor		Ω	36	36	24	24	24	24	18	18	18	18	內置(Built-in)	
	Capacity of Regenerative Resistor		W	500	500	800	800	800	800	1000	1000	1000	1000		
	Mode of Regenerative Resistor			外接 (External)											
	Speed Senior			檢角器(Resolver)											
	Speed Commending			DC 0 ~ 10 V											
	Pressure Commending			DC 0 ~ 10 V											
	General Input Signal			6 ch DC24V 8mA											
	General Output Signal			2 ch DC24V 50mA											
	Analog Output Signal			2ch DC 0~10 V (選購品 Optional)											
	Cooling Mode			強冷開放(Air Cooled)											
	Ambient Temperature			-10℃~40 ℃ (但不結冰 But not frozen)											
	Ambient Humidity			Under 90%RH以下 (但不結露 But not dewed)											
	Protection Function			過電流、過電壓、電壓太低、馬達過載、感測器異常、斷線；Over Current, Over Voltage, Under Voltage, Overload, Regenerative Error, Over Speed etc. · { All interfaces are protected by insulation from the primary power supply }											
	Communication			RS485通訊埠, 採用MODBUS議；CAN通訊介面, 採用CANOpen議 RS-485 Communication Interface with MODBUS Protocol；CAN Communication Interface with CANOpen Protocol.											
	Wave Filter ※Optional		A	20	35	35	35	35	35	50	50	80	80	80	100
	Circuit Breaker-※Optional		A	30	50	50	50	60	60	75	100	100	100	150	150
	Contactor ※Optional		A	30	30	30	30	50	50	50	50	80	80	100	100

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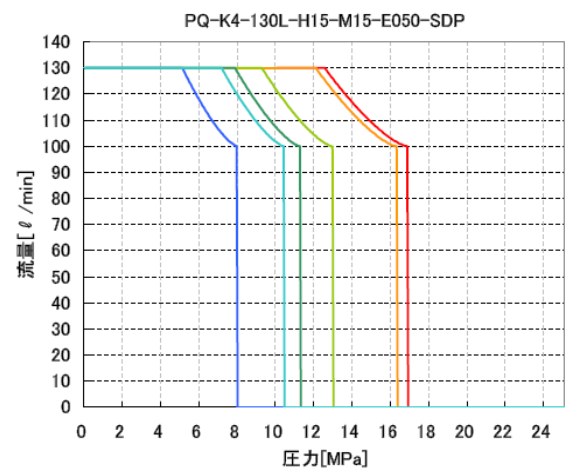
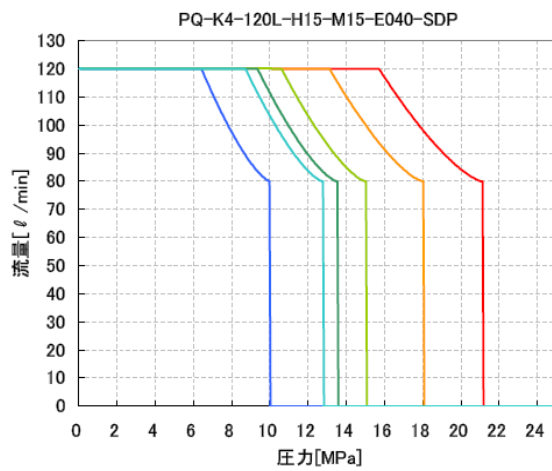
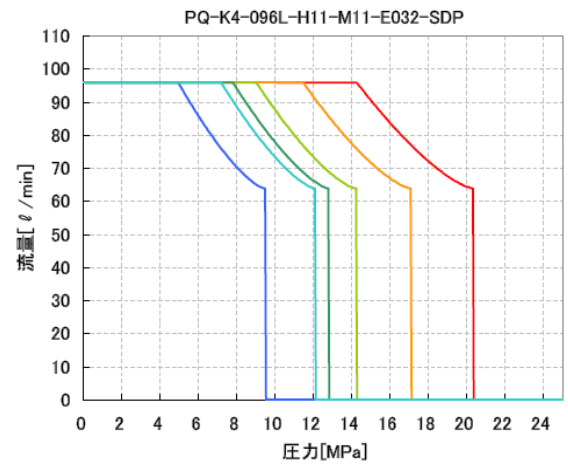
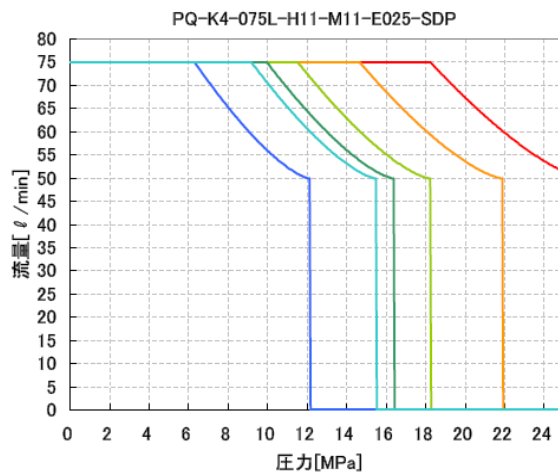
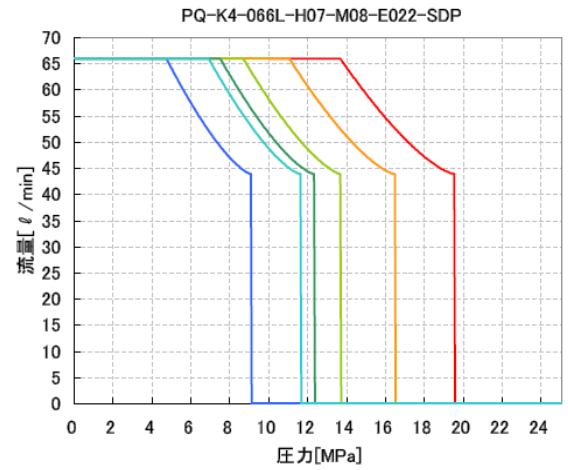
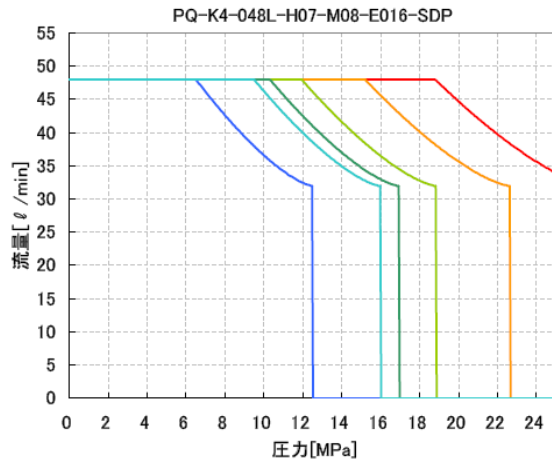
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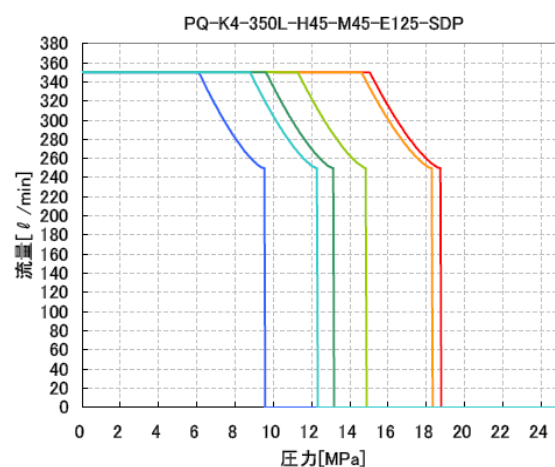
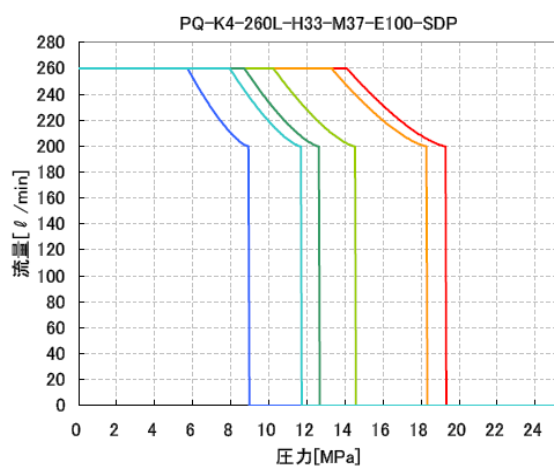
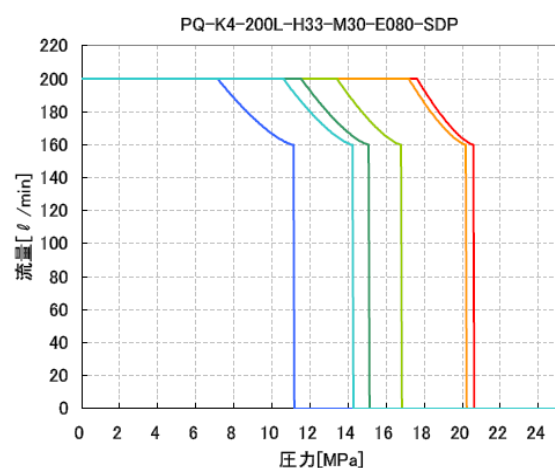
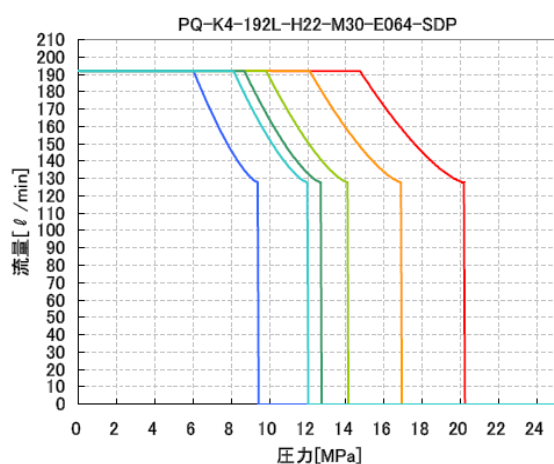
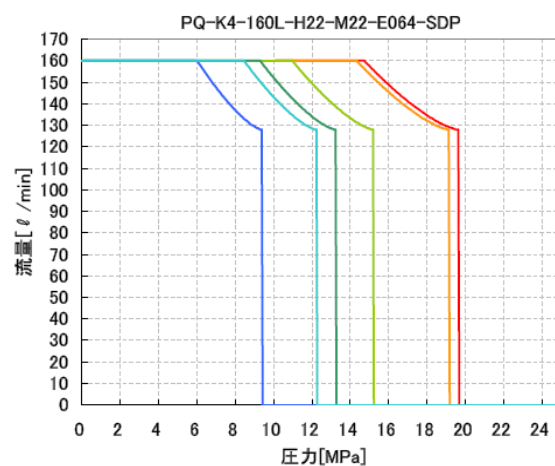
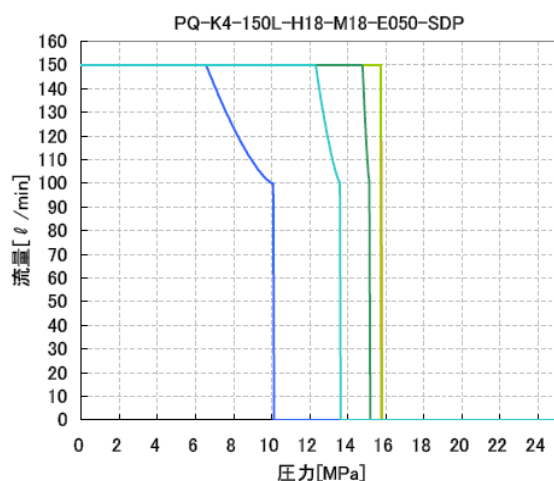
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— P1-連續 — P1-5s — P1-10s — P1-20s — P1-40s — P1-80s



— P1-連続 — P1-5s — P1-10s — P1-20s — P1-40s — P1-80s

■ 訂購代碼說明 - Ordering Code

Code Example: K4 - 130L - 15K - 15K - E050 - R1 - N - **

※ K Series is the SDP of **KINGSTONE**
※ T Series is the SDP of **TOSHIBA MACHINE**

Series & Voltage
K2 : KINGSTONE 200V~230V
K4 : KINGSTONE 350V~430V
T2 : TOSHIBA 200V~230V
T4 : TOSHIBA 380V~480V

Flow (Liter per Minute)
System Max. Flow Requirement/Output

Series & Power of Servo Motor
* Power of Servo Moto (KW)

Series & Power of Servo Driver
* Power of Servo Driver (KW)

Displacement of Pump (c.c./rev.)
E : ECKERLE Internal Gear Pump -EIPS - EIPC - EIPH
V : VOITH Internal Gear Pump -IPV

Special Code & Control & Modification
** :Space Reserved to Factory

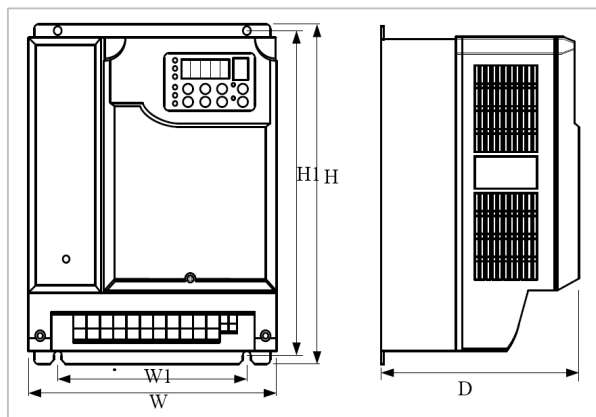
Quick Unloading Valve
Y : With Quick Unloading Valve
N : None

Direction of rotation & Porting combination
R : Clockwise L : Counter-Clockwise (View on Shaft End)

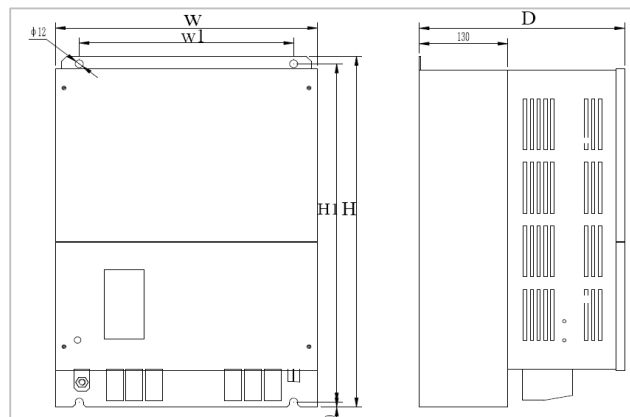
S : Suction Port P : Pressure Port

■ 驅動器外型尺寸

型號	IMS-P4-*****-05E0	47P5~4015	4018~4022	4030	4037	4045	4055	4075
安裝尺寸(mm)	W	170	260	260	380	380	380	380
	H	308	357	357	555	555	555	555
	D	181	192	192	295	295	295	295
	W ₁	154	188	188	310	310	310	310
	H ₁	292	341	341	533	533	533	533
固定螺釘尺寸 (Φ mm)		7	7	7	8	8	8	8
重量(kg)		5.6	13.6	13.6	37.6	37.6	43	43



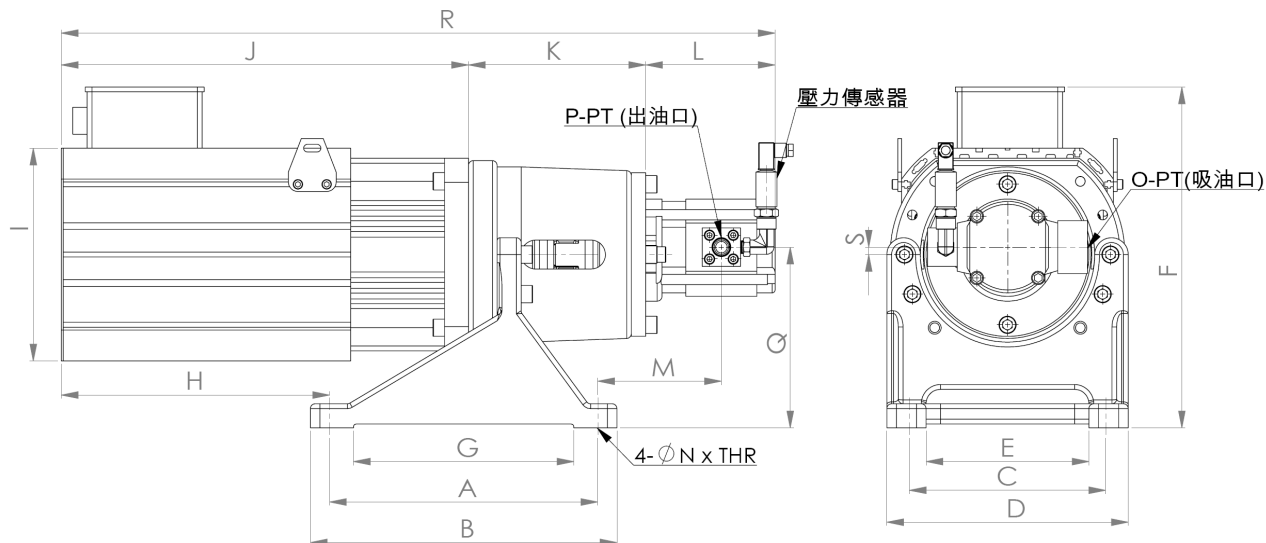
7.5 KW ~ 30 KW Dimension



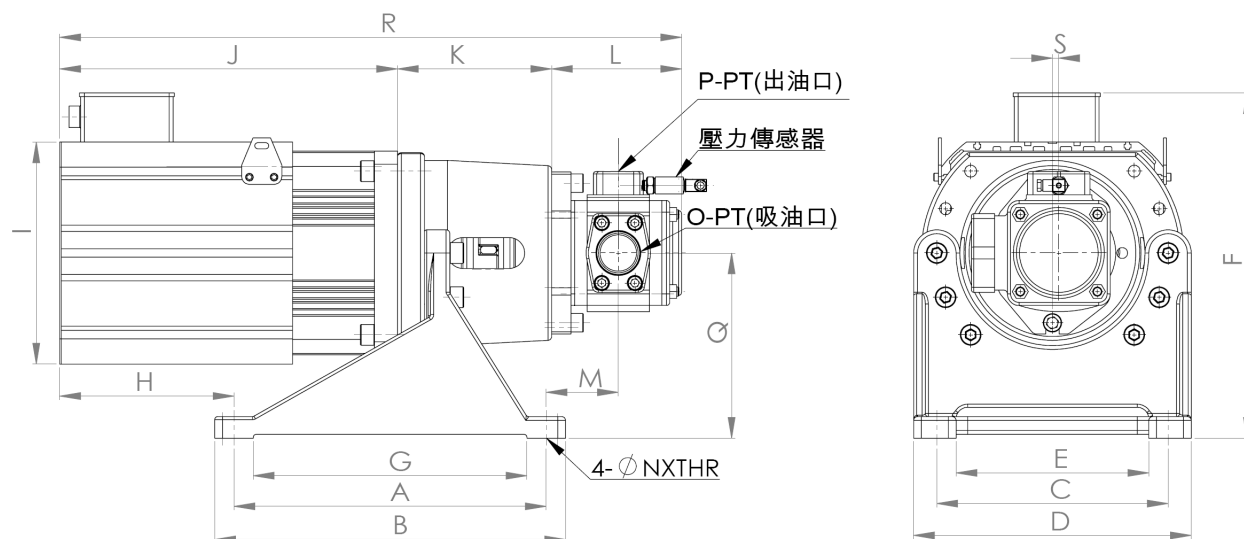
37 KW ~ 75 KW Dimension

■ 電機-泵浦組合尺寸圖 - SDP Overall Dimension (mm)

◆ 048LPM~075LPM for Eclerle-EIPS2



◆ 096LPM~350LPM for Eclerle-EIPC3-EIPC5-EIPH6



Model Code	A	B	C	D	E	F	G	H	I	J
048L-H07-M06-E016	280	320	205	252	170	354	230	196	221	341
066L-H07-M08-E022	280	320	205	252	170	354	230	196	221	341
075L-H11-M11-E025	280	320	205	252	170	354	230	232	221	377
096L-H11-M11-E032	280	320	205	252	170	354	230	232	221	377
120L-H15-M15-E040	280	320	205	252	170	354	230	268	221	413
130L-H15-M15-E050	280	320	205	252	170	354	230	268	221	413
150L-H18-M18-E050	280	320	205	252	170	354	230	304	221	449
160L-H22-M22-E064	280	320	205	252	170	354	230	340	221	485
192L-H22-M30-E064	280	320	205	252	170	354	230	340	221	485
200L-H33-M30-E080	405	455	300	360	200	455	355	226	288	438
260L-H33-M37-E100	405	455	300	360	200	455	355	226	288	438
350L-H45-M45-E125	405	455	300	360	200	455	355	241	288	453

Model Code	K	L	M	N	O	P	Q	R	S	
048L-H07-M06-E016	185	122.5	107.5	14	3/4"	1/2"	187.7	648.5	7.7	
066L-H07-M08-E022	185	135.5	114	14	1"	1/2"	187.7	661.5	7.7	
075L-H11-M11-E025	185	141.5	117	14	1"	1/2"	187.7	703.5	7.7	
096L-H11-M11-E032	170	147.4	118.2	14	1-1/4"	3/4"	180	694.4	6.5	
120L-H15-M15-E040	170	185.4	123.7	14	1-1/4"	1"	180	768.4	6.5	
130L-H15-M15-E050	170	199.4	130.7	14	1-1/4"	1"	180	782.4	6.5	
150L-H18-M18-E050	170	199.4	130.7	14	1-1/4"	1"	180	818.4	6.5	
160L-H22-M22-E064	170	199.4	130.7	14	1-1/4"	1"	180	854.4	6.5	
192L-H22-M30-E064	170	199.4	130.7	14	1-1/4"	1"	180	854.4	6.5	
200L-H33-M30-E080	200	180.5	99.5	17	2"	1-1/4"	240	818.5	8.3	
260L-H33-M37-E100	200	196.5	107.5	17	2-1/2"	1-1/4"	240	834.5	8.3	
350L-H45-M45-E125	200	232	116.5	17	2"	1-1/4"	240	885	8.3	



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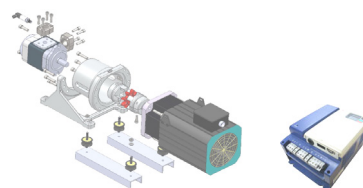
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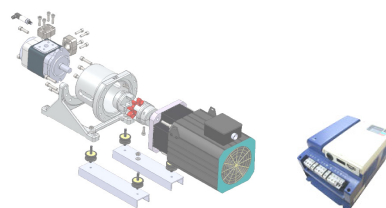
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