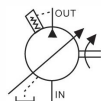


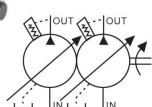
A-1 PV系列高壓變量柱塞泵/A-2 PV系列高壓雙聯變量柱塞泵

High Pressure Variable Displacement Piston Pump



- 1.新式斜盤轉軸結構、9支活塞和帶有預壓縮容腔的轉換技術，使震動噪音、流量震動大幅改善。
- 2.剛性的結構和高轉速低摩擦的構造，使油泵的壽命、效率更佳理性化。
- 3.使用模組化設計，使控制機構更加多元化，設計者更容易自行變化控制功能。
- 4.強力的通軸設計，可雙聯、多聯或與其他油泵連接。
- 5.經由省能泵控制系統的應用，可大幅改善電力消耗、油溫的上升、系統精度與壽命。
- 6.廣泛應用於車輛工業、船舶、鍛壓、輪胎機、注塑機、機床、專用機。

High Pressure Variable Displacement Double Piston Pump



1. New type of swash plate and large servo piston with strong bias spring achieves fast response, reduce the noise due to active decompression of system at down stroke.
2. Nine pistons and new precompression technology (precompression filter volume) result in unbeaten low outlet flow pulsation.
3. Complete compensator program offers multiple controls.
4. Rigid and FEM-optimized body design for lowest noise level.
5. Thru drive for 100% nominal torque.
6. Pump combinations (multiple pumps) of same size and model and mounting interface for basically all metric or SAE mounting interfaces.
7. Wide application in automobile industrial, ships, forging machines, tire machines, injecting molding machines, machine tools, special-purpose machine.

- 常壓: 350 bar nominal pressure: 350 bar
- 瞬間: 420 bar peak Max. pressure: 420 bar

訂貨型號/標準產品 HOW TO ORDER

PV	063	GA	3	R	M	1	A	0	N		E
1 系列 Series	2 規格排量 Size and displacement	3 控制方式 Control device	4 壓力範圍 Pressure adjusting	5 旋轉方向 Rotation	6 連接型式 Mounting	7 螺紋 Threads	8 通軸裝配 Thru drive & 2nd pump	9 電壓 Voltage	10 油封 Seals	11 設計番號 Design No.	4 功率 定馬力調節器 (P開頭) 使用 Horse power for horse power control ("P" prefix)

特性規格表 Quick Reference Data Chart

尺寸 Size	形式 Model	壓力 Pressure		吐出量 Displacement		當(7bar)100PSI時 Pump Delivery(7bar) 100 PSI				噪音等級 APPROX. Noise Levels			轉速 Speed		重量 Weight
		常壓 nominal pressure	瞬間壓 peak Max. pressure	cm3/rev	in3/rev	1500RPM		1800RPM		dBA Full Flow and 1500RPM			Max. RPM	Min. RPM	KG(LB)
						LPM	U.S.GPM	LPM	U.S.GPM	70bar (1KSI)	207bar (3KSI)	343bar (5KSI)			
1	PV016			16	0.98	24	6.3	28.8	7.6						
	PV020	350	420	20	1.2	30	7.9	36	9.5	56	60	68	2750		19(42)
	PV023			23	1.4	34.5	9.1	41.4	10.9						
	PV028	315	350	28	1.7	42	11	50.4	13.2						
2	PV032			32	1.9	48	12.7	57.6	15.2						
	PV040	350	420	40	2.4	60	15.9	72	19						
	PV046			46	2.8	69	18.2	82.2	21.9	59	62	69	2400		30(66)
	PV056	280	350	56	3.41	84	22.1	100.8	26.6						
3	PV065	250	315	65	3.96	97.5	25.7	117	30.9						
	PV063			63	3.8	94.5	25	113.4	30				2100	300	
	PV071	350	420	71	4.3	107	28.3	128.7	34				2100		
	PV080			80	4.8	120	31.7	144	38				2000		
PV092			92	5.6	138	36.5	165.6	43.8	66	70	74	1900			
4	PV110	250	280	110	6.7	165	43.6	198	52.3				1900		
	PV125	250	280	125	7.6	187.5	49.5	225	59.4				1900		
	PV140	350	420	140	8.5	210	55.5	252.1	66.6	70	74	76	2200		
	PV180			180	11	270	71.3	324	85.6	71	75	77	2200		90(198)
5	PV210	300	350	210	12.8	315	83.1	378	99.8	73	77	79	2100		
	PV270	350	420	270	16.5	405	107	486	128.4	77	79	89	1800		172(379)

1. 油泵使用安裝位置，洩油口朝上，管路背壓低於2bar單獨回油箱。
2. 最高壓力使用，每一循環時間不超過6秒，液壓油清潔規範，請參見使用說明書。
3. 康百世提供多聯油泵，亦可與其他形式油泵聯結，連結方式採用標準的公制連接尺寸和SAE尺寸。
1. Outlet port is on the top, the pipe pressure should be less than 2 bar.
2. The usage of max. pressure for each circle never exceed 6 seconds . Please see the Genral Installation Information for hydraulic oil cleanliness manual.

系列 Series

1	高壓結構型可變排量軸向柱塞泵 Axial piston pump variable displacement high pressure version	常壓: 350 bar nominal pressure: 350 bar	瞬間: 420 bar peak Max. pressure: 420 bar	PV
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● 規格排量 Size and displacement

2	代號 Code	016	020	023	028	032	040	046	056	065	063	071	080	092	110	125	140	180	210	270
	尺寸 Size	Body1				Body2					Body3					Body4				Body5
	排量 cm³/rev	16	20	23	28	32	40	46	56	65	63	71	80	92	110	125	140	180	210	270
	Displacement in³/rev	0.98	1.2	1.4	1.7	1.9	2.4	2.8	3.41	3.96	3.8	7.3	4.8	5.6	6.6	7.6	8.5	11	12.6	16.5

● 控制方式 Control device

3	標準型壓力調節器 Standard pressure compensator	A0
	無調節器(定量泵)(系統需另加總壓保護) None pressure compensator (fixed displacement)(pressure protection required)	LN
	電控兩段流量控制(系統需另加總壓保護) Electrical 2-stage flow compensator (pressure protection required)	LS
	定量自壓兩段流量調節器(系統需另加總壓保護) Fixed displacement 2-stage flow compensator (pressure protection required)	LC
	遙控型 Remote type	
	遙控型調節器(含NG6介面) Remote pressure compensator with NG6 interface	GM
	遙控型調節器+溢流閥 Remote pressure compensator + Relief valve	GA
	遙控型調節器+比例壓力 Remote pressure compensator + Proportional pressure valve	GJ
	電控卸載型 Electrical unloading type	
	遙控型調節器+電控卸載 Remote pressure compensator + Electrical unloading	GR
	遙控型調節器+電控兩段壓力 Remote pressure compensator + 2-stage pressure control	GB
	遙控型調節器+電控卸載+兩段壓力 Remote pressure compensator + Electrical unloading + 2-stage pressure control	GC
	負載感應型 Load-sensing type	
	負載感應型調節器(含NG6介面) Load-sensing compensator with NG6 interface	HM
	負載感應型調節器+溢流閥 Load-sensing compensator + Relief valve	HA
	負載感應型調節器+比例壓力 Load-sensing compensator + Proportional pressure valve	HJ
	負載感應+電控卸載型 Load-sensing + Electrical unloading type	
	負載感應型調節器+電控卸載 Load-sensing compensator + Electrical unloading	HR
	負載感應型調節器+電控兩段壓力 Load-sensing compensator + 2-stage pressure control	HB
	負載感應型調節器+電控卸載+兩段壓力 Load-sensing compensator + Electrical unloading + 2-stage pressure control	HC
	比例壓力、流量型 Proportional pressure, flow type	
	負載感應型調節器+比例流量+溢流閥 Load-sensing compensator + Proportional flow valve + Relief valve	HQ
	負載感應型調節器+比例壓力+比例流量 Load-sensing compensator + Proportional pressure valve + Proportional flow valve	HK
	無段流量變速控制(油壓缸型) None-stage flow compensator (Cylinder)	BQ
	恆功率、定馬力型 Horse power type	
	定馬力型調節器(含NG6介面) Horse power compensator with NG6 interface	PM
	定馬力型調節器+溢流閥 Horse power compensator + Relief valve	PA
	定馬力型調節器+比例壓力 Horse power compensator + Proportional pressure valve	PJ
	定馬力型調節器+電控卸載 Horse power compensator + Relief valve + Electrical unloading	PR
	定馬力負載感應型調節器+溢流閥 Horse power load-sensing compensator + Relief valve	PH
	定馬力負載感應型調節器+比例流量+溢流閥 Horse power load-sensing compensator + Proportional flow valve + Relief valve	PQ
	定馬力負載感應型調節器+比例壓力 Horse power load-sensing compensator + Proportional pressure valve	PS

● 壓力範圍 Pressure adjustment

4	10~140 bar (145~2030 PSI)	2
	35~250bar (507~3625 PSI)	3
	40~280bar (580~4060 PSI)	4
	50~315bar (725~4567 PSI)	5
	70~350bar (1015~5075 PSI)	6

● 各排量可達到壓力範圍如下： Pressure range for each displacement :

		2	3	4	5	6
4	PV016~PV023	■	■	■	■	■
	PV028	■	■	■	■	—



● 各排量可達到壓力範圍如下： Pressure range for each displacement：

		2	3	4	5	6
4	PV032~PV046	■	■	■	■	■
	PV056	■	■	■	—	—
	PV065	■	■	—	—	—
	PV063~PV092	■	■	■	■	■
	PV110,PV125	■	■	—	—	—
	PV140,PV180	■	■	■	■	■
	PV210	■	■	■	—	—
	PV270	■	■	■	■	■

● 各控制型式可達到壓力範圍如下： Pressure range for each control device：

		2	3	4	5	6
5	A0 標準型壓力調節器 Standard pressure compensator	■	■	■	■	■
	LN 無調節器(定量泵)(系統需另加總壓保護) None pressure compensator (fixed displacement)(pressure protection required)	■	■	■	■	■
	LS 電控兩段流量控制(系統需另加總壓保護) Electrical 2-stage flow compensator (pressure protection required)	■	■	■	■	■
	LC 定量自壓兩段流量調節器(系統需另加總壓保護) Fixed displacement 2-stage flow compensator (pressure protection required)	■	■	■	■	■
	遙控型 Remote type					
	GM 遙控型調節器(含NG6介面) Remote pressure compensator with NG6 interface	■	■	■	■	■
	GA 遙控型調節器+溢流閥 Remote pressure compensator + Relief valve	■	■	■	■	■
	GJ 遙控型調節器+比例壓力 Remote pressure compensator + Proportional pressure valve	■	■	—	—	—
	電控卸載型 Electrical unloading type					
	GR 遙控型調節器+電控卸載 Remote pressure compensator + Electrical unloading	■	■	■	■	■
	GB 遙控型調節器+電控兩段壓力 Remote pressure compensator + 2-stage pressure control	■	■	■	■	■
	GC 遙控型調節器+電控卸載+兩段壓力 Remote pressure compensator + Electrical unloading + 2-stage pressure control	■	■	■	■	■
	負載感應型 Load-sensing type					
	HM 負載感應型調節器(含NG6介面) Load-sensing compensator with NG6 interface	■	■	■	■	■
	HA 負載感應型調節器+溢流閥 Load-sensing compensator + Relief valve	■	■	■	■	■
	HJ 負載感應型調節器+比例壓力 Load-sensing compensator + Proportional pressure valve	■	■	—	—	—
	負載感應+電控卸載型 Load-sensing + Electrical unloading type					
	HR 負載感應型調節器+電控卸載 Load-sensing compensator + Electrical unloading	■	■	■	■	■
	HB 負載感應型調節器+電控兩段壓力 Load-sensing compensator + 2-stage pressure control	■	■	■	■	■
	HC 負載感應型調節器+電控卸載+兩段壓力 Load-sensing compensator + Electrical unloading + 2-stage pressure control	■	■	■	■	■
	比例壓力、流量型 Proportional pressure, flow type					
	HQ 負載感應型調節器+比例流量+溢流閥 Load-sensing compensator + Proportional flow valve + Relief valve	■	■	■	■	■
	HK 負載感應型調節器+比例壓力+比例流量 Load-sensing compensator + Proportional pressure valve + Proportional flow valve	■	■	—	—	—
	BQ 無段流量變速控制(油壓缸型) None-stage flow compensator (Cylinder)	■	■	■	■	■
	恆功率、定馬力型 Horse power type					
	PM 定馬力型調節器(含NG6介面) Horse power compensator with NG6 interface	■	■	■	■	■
	PA 定馬力型調節器+溢流閥 Horse power compensator + Relief valve	■	■	■	■	■
	PJ 定馬力型調節器+比例壓力 Horse power compensator + Proportional pressure valve	■	■	—	—	—
	PR 定馬力型調節器+電控卸載 Horse power compensator + Relief valve + Electrical unloading	■	■	■	■	■
	PH 定馬力負載感應型調節器+溢流閥 Horse power load-sensing compensator + Relief valve	■	■	■	■	■
	PQ 定馬力負載感應型調節器+比例流量+溢流閥 Horse power load-sensing compensator + Proportional flow valve + Relief valve	■	■	■	■	■
	PS 定馬力負載感應型調節器+比例壓力 Horse power load-sensing compensator + Proportional pressure valve	■	■	—	—	—



● 功率/定馬力調節器P開頭使用 Pressure adjusting horse power for horse control ("p"prefix)

4	排量 Displacement	馬力 Horse power															
	PV016~PV023,28	A	3KW	B	4KW	C	5.5KW	D	7.5KW	E	11KW						
	PV032~PV046,56,65			C	5.5KW	D	7.5KW	E	11KW	F	15KW	G	18.5KW	H	22KW		
	PV063~PV092,110,125	E	11KW	F	15KW	G	18.5KW	H	22KW	I	30KW	J	37KW	K	45KW		
	PV140			G	18.5KW	H	22KW	I	30KW	J	37KW	K	45KW	L	55KW		
	PV180,210	H	22KW	I	30KW	J	37KW	K	45KW	L	55KW	M	75KW	N	90KW		
	PV270			J	37KW	K	45KW	L	55KW	M	75KW	N	90KW	O	110KW	P	132KW

● 旋轉方向 Rotation

5		順時針方向 Clockwise	R
		逆時針方向 Counter clockwise	L

● 連接方式 Mounting

6	連接型式 Body		1	2	3	4	5
	連接規格 Mounting						
	公制規格 Metric	平鍵 Parallel keyed	M R	M R	M R	M R Q	M R
		花鍵 Splined	K S	K S P	K S	K S P	K S
	英制規格 Inch	平鍵 Parallel keyed	N J	N J	N J	N J F	N J
		花鍵 Splined	D U	D U G	D U	D U G	D U

(詳細尺寸請參閱外觀尺寸圖) (Dimensions refer to dimension diagram)

● 螺紋 Threads

7	BSPP (G)	1	※
	PT (RC)	2	
	UNF (SAE)	3	
	ISO 6149 (M)	7	

● 通軸裝配 Thru drive & 2nd pump

8	排量 Displacement	代碼 Code															
	PV016~PV270	A 單泵 Single pump				B 通軸為雙連準備 Prepared for thru drive											
	PV016~PV023,28	C	D	E	I J K												
	PV032~PV046,56,65	D E F				I J K L											
	PV063~PV092,110,125	D E F G				I J K L M											
	PV140~PV180,210	D E F G				J K L M											
	PV270	D E F G H				J K L M N											

● 尺寸 Size

8	SAE AA, Ø50.8 mm	C
	SAE A, Ø82.55mm	D
	SAE B, Ø101.6 mm	E
	SAE C, Ø127 mm	F
	SAE D, Ø152.4 mm	G
	SAE E, Ø165.1 mm	H
	Metric, Ø63mm	I
	Metric, Ø80 mm	J
	Metric, Ø100 mm	K
	Metric, Ø125 mm	L
	Metric, Ø160 mm	M
	Metric, Ø 200 mm	N

接受其他尺寸訂購 Other pumps are acceptable to order

● 電壓 Voltage

9	無電壓 None	0
	AC100V (50/60HZ)	A
	AC110V (60HZ)	B
	AC200V (50/60HZ)	C
	AC220V (60HZ)	D
	DC 12V	E
	DC 24V	F

● 油封 Seals

10	丁腈橡膠 NBR	N	※
	氟橡膠 VITON,FKM	V	
	乙烯-丙烯 Ethylen-propylene	E	

■=可供貨available —=不可供貨not available ※=標準供貨 standard type