



2006

ISO 9001/KSA 인증
(ISO 9001 CERTIFICATION)

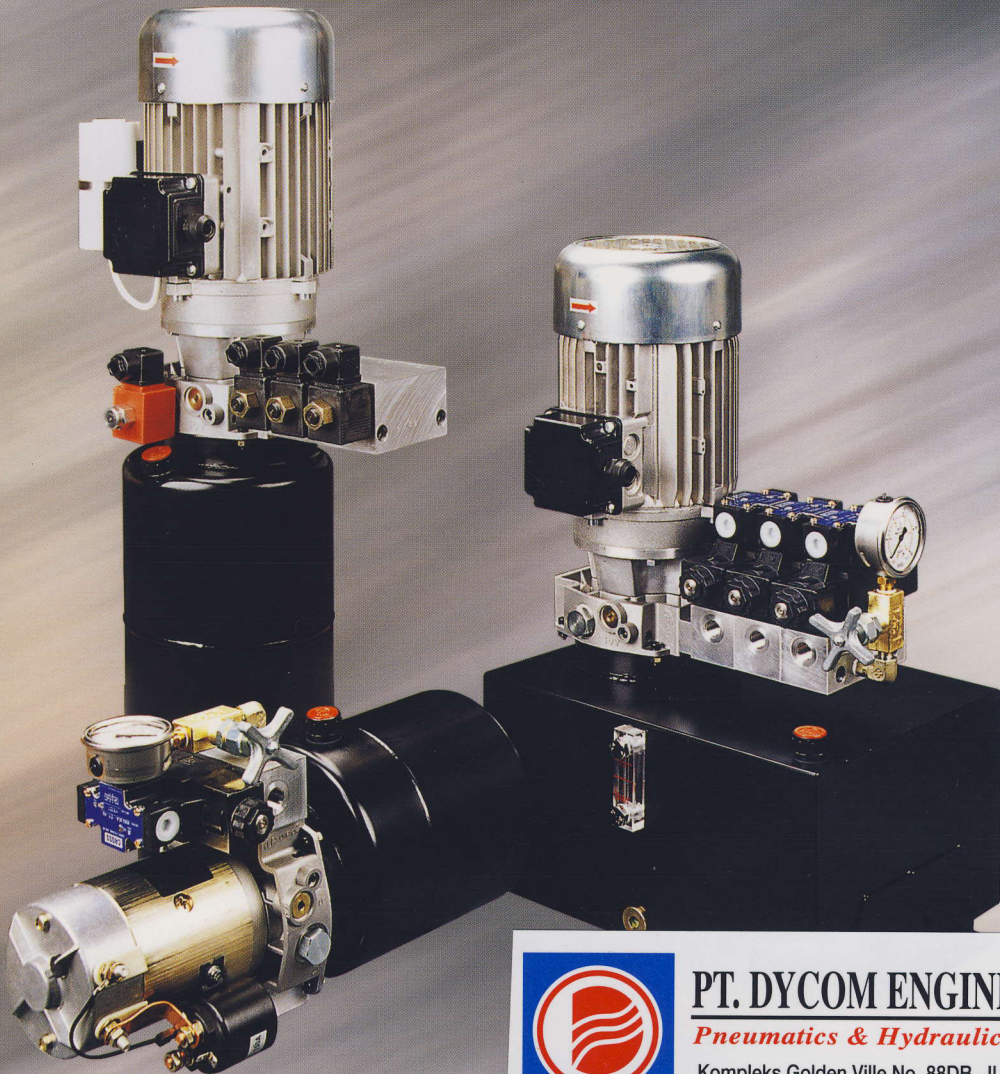
벤처기업
(VENTURE BUSSINESS)

수출유망중소기업
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HYDRAULIC POWER PACKS



PT. DYCOM ENGINEERING

Pneumatics & Hydraulic Company

Kompleks Golden Ville No. 88DB, Jl. Daan Mogot II
Duri Kepa, Jakarta Barat - INDONESIA 11510

Tel. : (62-21) 56978889, 5672037

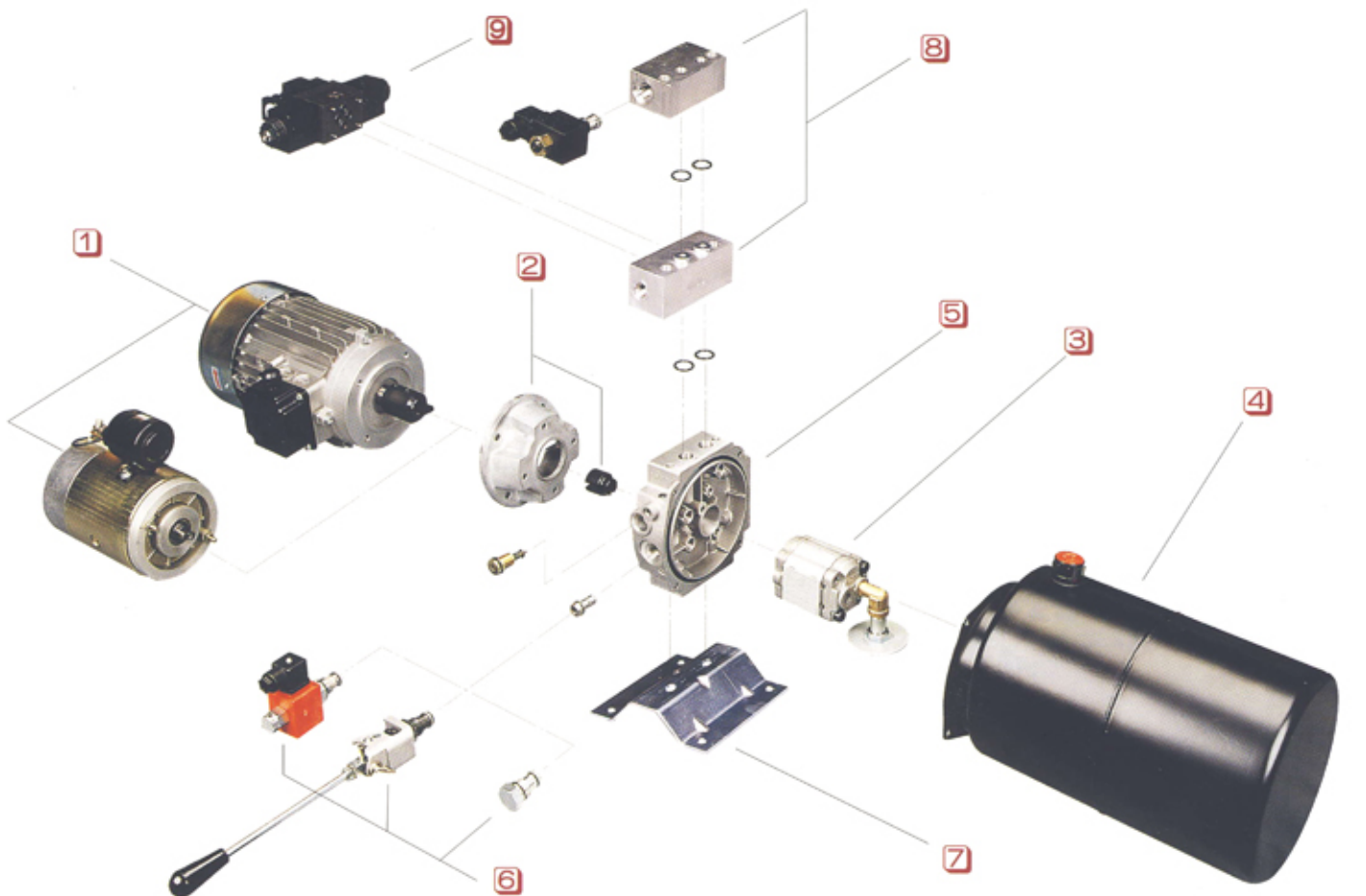
Fax. : (62-21) 56977718 E-mail : sales@dycom.co.id

			
Cylinder	2 Port Solenoid Valve	5 Port Solenoid Valve	FRL Combination
			
Hydraulic Solenoid Valve	Gear Pump	Hydraulic Power Unit	Hydraulic Pump

Order code

UP01 -

1 2 3 4 5 6 7 8 9
Electric Motor Junction Pump Tank Central Manifold Cartridge Valve Mounting & Bracket Modular Elements Double Acting Valve



INTRODUCTION

This catalogue intends to introduce the main version of UNIPACK units and shows you the different possible combinations of power pack units. The sequence of sub-group allows you to your own need.

본 카탈로그에 수록된 내역은 "유니팩시스템" 파워팩의 여러가지 사양을 조합하여 다양한 파워팩을 만들 수 있으며 세분화된 부품을 선택하여 조합하면 소비자가 필요로 하는 제품을 손쉽게 주문하도록 도와줄 것입니다.

HOW TO CHOOSE THE UNIT:

On the base of the system you required, the characteristics of system of flow, pressure and will affect the choice of the group of Motor, Pump and Tank according to your own design. Before making a firm ordering, please do consult once with our engineer for the correct ordering code to suit your design on the system.

본 파워팩을 선정할 때에는 유압회로의 입력, 유량 및 작동 시간과 동작방법등의 여러 주부의 조건들이 모터용량, 펌프용량, 오일 탱크의 크기등의 선정에 영향을 미치고 있습니다. 최종적인 결정을 하기전에 당시의 기술진과 꼭 상담하여 확정하기를 추천합니다.

INSTALLATION:

There is no any restriction on the installation position of our power packs, however please do

avoid any position that could compromise the pump suction if you doubt, please do consult with our engineer before ordering or installation. When the unit should be fitted on the structure liable to vibration, it is ideal to place the vibration damper in the fixing points.

본 파워팩은 설치방향에 대한 제한은 전혀 없으나 펌프의 흡입방향을 확인하여 설치하시고 확인을 할 수 없을 경우에는 설치 전에 당시에 문의하십시오. 또한 부득이 진동이 있는 구조물 또는 먼지가 많은 곳에 설치할 경우에는 방진 대책과 먼지의 유입을 막을 수 있도록 설치하십시오.

OIL TANK AND TEMPERATURE:

The tank size should always be of such a size as to assure proper pump suction at the maximum working temperature of 60 deg.C.

You must use the oil for hydraulic units with viscosity 15cst. ~ 68cst. the different oil grades must be chosen according to the ambient temperature and to the one which can be reached during the unit activity.

오일탱크의 크기를 선정할 때는 항상 최고 작업 허용 온도를 60°C 이내에서 펌프 흡입이 충분히 이루어질 수 있는 용량을 선정해야 하며 유압 작동유는 일반 유압 작동유로 점도범위가 15cst. ~ 68cst. 를 사용하십시오. 다만 파워팩 사용 주변 온도의 특성과 파워팩이 작동할 때 도달할 수 있는 온도에 맞는 점도의 특성과 종류를 선정하십시오. 유압 작동유의 교환주기는 반드시 초기 100시간 가동후

교환하시고 이후로는 3,000시간 또는 일년에 한번씩 교환하십시오.

WIRING AND STARTING:

The wiring should always be made according to the electrical inputs indicated in the diagrams. The starting must assure the proper direction of rotation in the pump.

배선은 항상 파워팩의 용량에 맞는 배선을 선정하시고 시운전할 때에는 펌프의 회전 방향과 주변 장치의 안전을 확인하고 시운전 하십시오.

CLEANING AND MAINTENANCE:

The unit should be kept clean in each part and in case of defective work, please do check: oil level & condition/pump condition/valve calibration/battery & motor condition.

The oil should be replaced after the first 100 hours of duty and again after 3000 hours or once a year.

파워팩은 각 부위가 항상 깨끗하게 유지되어야 하며 고장이 발견 되면 주변장치의 안전을 확인하고 오일탱크내의 오일량, 펌프, 모터, 밸브의 상태를 점검하십시오.

1 - 2

CODE	O	A	B	D
TYPE	Without Motor	AC Three Phase Motor	AC Single Phase Motor	Direct Current Motor

Alternate current Motor(AC Motor)

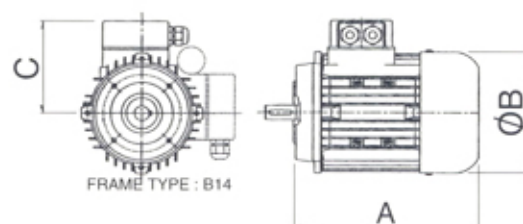
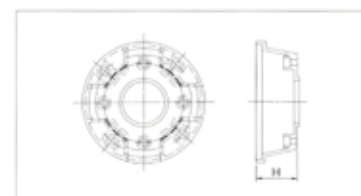
CODE		2pole		4pole		Dimension(mm)			Frame	IP
2POLE	4POLE	Kw	HP	Kw	HP	A	B	C		
A211	A475	1.1	1.5	0.75	1	235	156	122	80	54
A215	A411	1.5	2	1.1	1.5	252	176	129	90	
A222	A415	2.2	3	1.5	2	276	176	129		
	A418			1.8	2.5	276	176	129		
A230	A422	3	4	2.2	3	276	176	129		
	A440			4	5.3	325	219	160	112	

* About : 2Px60HZ - 3400RPM, 2Px50HZ - 2800RPM
4Px60HZ - 1700RPM, 4Px50HZ - 1450RPM

* Insulation Class : "F" Class(Limit Temperature : 155°C)

2 Junction

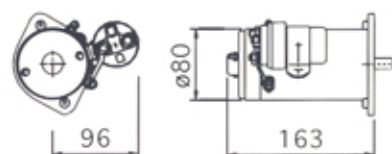
CODE	Frame	Height(mm)
O	Without Junction	
A	80	40
B	90	50
C	112	



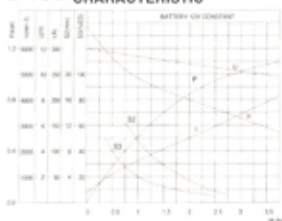
Direct current Motor(DC Motor)

CODE	V(VOLT)	W(WATT)	S2(min)/ S3(ED%)	IP
D108	12	800	4 / 9	44
D208	24	800	2.5 / 8	44
D116	12	1600	2 / 10	54
D222	24	2200	2 / 5	54

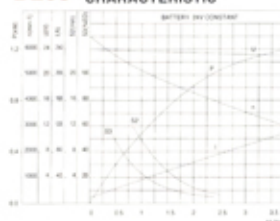
D108, D208



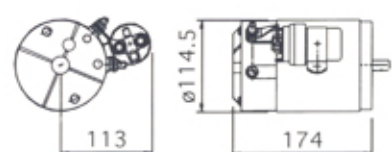
D108 CHARACTERISTIC



D208 CHARACTERISTIC



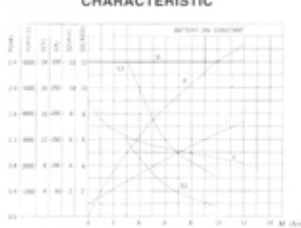
D116, D222



D116 CHARACTERISTIC



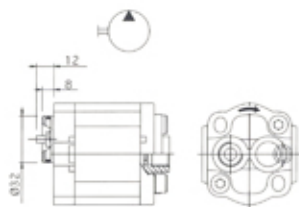
D222 CHARACTERISTIC





Pump

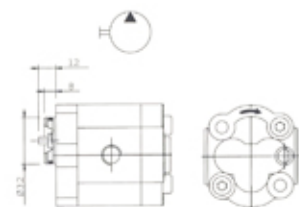
Standard Gear Pump *90 micron suction filter



Gear pumps left rotation

CODE	Capacity (cc/rev)	Liter/min (1,700 r.p.m.)	Max.working Pressure (bar)	peak Pressure (bar)
08	0.84	1.42	210	250
11	1.1	1.87	210	250
16	1.6	2.72	210	250
21	2.1	3.57	210	250
26	2.6	4.42	210	250
32	3.2	5.44	210	250
37	3.7	6.29	210	250
42	4.2	7.14	190	230
48	4.8	8.16	180	220
55	5.5	9.35	160	200
62	6.2	10.54	140	180
78	7.8	13.26	120	160
88	8.8	14.96	100	140
98	9.8	16.66	190	210

Cast-iron Cover Gear Pump for High Pressure *90 micron suction filter



Gear pumps left rotation

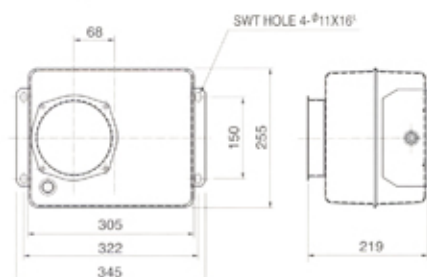
CODE	Capacity (cc/rev)	Liter/min (1,700 r.p.m.)	Max.working Pressure (bar)	peak Pressure (bar)
11C	1.1	1.87	300	350
16C	1.6	2.72	300	350
21C	2.1	3.57	300	350
26C	2.6	4.42	300	350
32C	3.2	5.44	280	330
37C	3.7	6.29	250	300
42C	4.2	7.14	220	270
48C	4.8	8.16	210	250
55C	5.5	9.35	180	210
62C	6.2	10.54	150	180
78C	7.8	13.26	130	160
88C	8.8	14.96	120	150



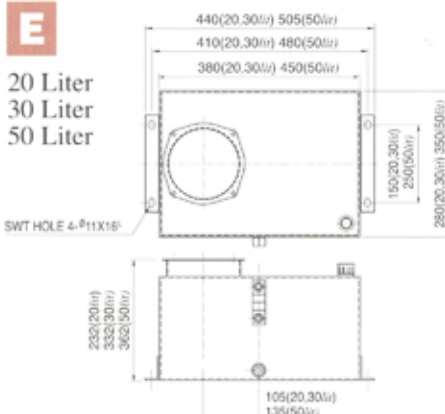
Tank

CODE	Tank Capacity (Liter)	Useable Capacity (Liter)		Dwg. No.
		Horizontal	Vertical	
000	Without	-	-	-
00F	Flange	-	-	A
02C	2	1.5	1.0	B
03C	3	2.5	1.8	B
05C	5	4.0	3.5	C
08C	8	6.8	6.5	C
11C	11	9.8	9.5	C
12S	12	10.0	9.5	D
20S	20	-	14.0	E
30S	30	-	24.0	E
50S	50	-	38.0	E

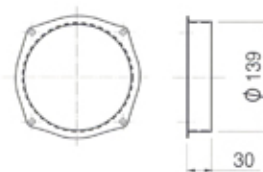
D 12 Liter



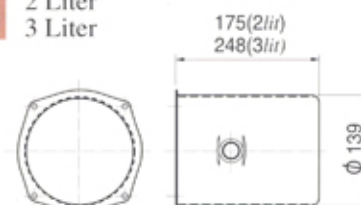
E 20 Liter 30 Liter 50 Liter



A Flange



B 2 Liter 3 Liter



C 5 Liter 8 Liter 11 Liter

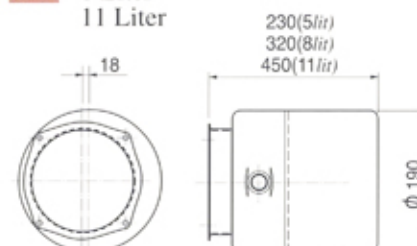
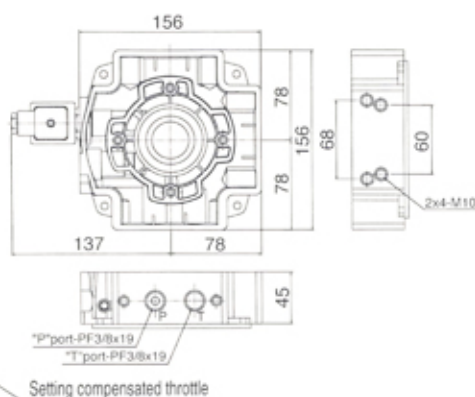
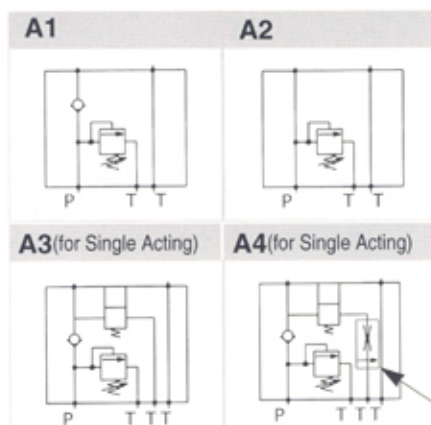




Diagram Central Manifold



Setting compensated throttle for manifold diagram A4

CODE	A	B	C	D	E
Regulated flow-rate (lit/min)	3	4	6	8	10

Only for manifold diagram A4

Electric controls

CODE	Solenoid	CODE	Solenoid
O	Without	N	220V 50Hz ca/AC
B	12V cc(DC)	R	110V 60Hz ca/AC
C	24V cc(DC)	S	220V 60Hz ca/AC
M	110V 50Hz ca/AC	Z	220V RAC



Cartridge Valve for Single Acting Diagram A3, A4

CODE	Description	Diagram	Drawing
EC	Electric valve : Nor. Close		
	Max working pressure		
	flow max		
EA	Electric valve : Nor. Open		Solenoid ED 100% IP 65 (IEC 144 - DIN 40050) The EA version functions only with DC solenoid. and AC application use RAC solenoid.
	Max working pressure		
	flow max		
EE	Electric valve : Nor. Close with Emergency		Solenoid ED 100% IP 65 (IEC 144 - DIN 40050)
	Max working pressure		
	flow max		
DE	Electric valve : Double Check Nor. Close with Emergency		Solenoid ED 100% IP 65 (IEC 144 - DIN 40050) The EA version functions only with DC solenoid. and AC application use RAC solenoid.
	Max working pressure		
	flow max		
MC	Two-Way manual operated cartridge valve with Micro Switch		Micro Switch for Motor Driving
	Max working pressure		
	flow max		

9 Double Acting Valve

Solenoid Valves series CETOP 2143						
CODE	Diagram	CODE	Diagram	CODE	Diagram	Drawing
E02		E13		E08		
E11		E14		E10		
E03		E15		E18		
E04		E06		E19		
E05		E07				

10 Other Component

CODE	Description			Diagram	Drawing
V21	Element for Nor. close solenoid valve with Emergency				
	Max. Working Pressure	350 bar			
	Flow max.	25 lit/min			
V22	Element for Double close Solenoid Valve with Eemergency				
	Max. Working Pressure	250 bar			
	Flow max.	20 lit/min			
V23	Element for Nor. open solenoid valve				
	Max. Working Pressure	250 bar			
	Flow max.	25 lit/min			
F14	Hose Rupture Valve (Fuse Valve)				F14 - 1/4" BSP F38 - 3/8" BSP F14 - 45 F38 - 52 P C F14 : Hexagon 19 F38 : Hexagon 22
F38	Max. Working Pressure	300 bar			
	Flow max.	F14	15 lit/min		
		F38	40 lit/min		
LIFT VALVE	Port Size	3/8 inch			
	Max. Pressure	210 bar			
	Max. Flow	30 lit/min			
	Weight	1.7 kg			



PT. DYCOM ENGINEERING

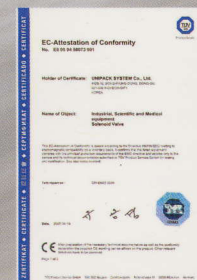
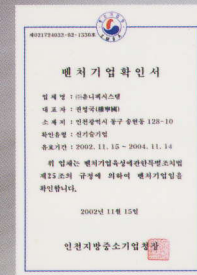
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Hydraulic Solenoid Valve	Gear Pump	Hydraulic Power Unit	Hydraulic Pump



작용사례



NC레벨러 피더

언 코일러

밴드 클러기

필터 프레스

장비를 멀티프레스

타이어 탈착기

밴드 쏘우

유압식 코어 사링기

차량정비용 4주리프트

차량정비용 2주리프트

차량정비용차상고리프트

업라인먼트시저리프트

주차리프트

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의료용 침대

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유압식 고소 작업대