



DONGHYUN

Your Best Partner

HISTORY OF COMPANY

- 1978.11** 제일유압 설립 (부산광역시 진구 부전동)
Establishment of Jeil Hydraulics Co.,LTD (Bujeon-dong, Jin-gu, Busan)
- 1986.04** (주)동현 설립 : 제일유압 서울영업소
Establishment of Donghyun Co.LTD., : the Seoul Office of Jeil Hydraulics
- 2008.05** (주)동현 중국 연태 동현유압 사무소 설립
Establishment of Donghyun Hydraulic Office in Yantai (China)
- 2008.11** 제일유압법인 제일유압과 제일PMC로 분리
Jeil Hydraulics Co.,LTD Divided into Jeil Hydraulics and Jeil PMC
- 2012.07** 제일유압 EATON에 합병
Jeil Hydraulics merged with EATON
(주)동현 EATON & 제일PMC 의 총판매 대리점권 인증
Certified the right to General Sales Agent of EATON & Jeil PMC
- 2013.09** (주)동현 중국광저우 유압사무소 설립
Establishment of Donghyun Hydraulic Office in Guangzhou (China)
- 2014.08** (주)동현 중국반상고무회사 전략적 파트너 협약 체결
Strategic partnership contracted with China Bansang Rubber Corporation



INTRODUCTION OF RODUCT

EQUIPMENT

- Track Device
 - JMV-R Series
- Swing Device
 - JMF-VBR Series
- Main Pump
 - K3V & K5V Series
- Main Control Valve
 - CMJ Series
- Joystick & Pedal Valve

INDUSTRIAL

- Axial Piston Pump
 - JPF & JPV Series
- Axial Piston Motor
 - JMF & JMV Series
- Radial Piston Motor
 - JRC & JRT Series
- Orbit Motor
- HST (Hydrostatic Transmission)
- JHH (Industrial Control Valve)

SPARE

- Gear Pump
- Parts (Pump & Motor)
- Relief Valve
- Coupling





• JMVR Series

- JMVR Series는 2속 사판형 액시얼 피스톤 모터로서 브레이크 밸브, 메커니컬 브레이크를 내장하고 있습니다.
- 모터 각 부분 시스템을 최적화한 고압, 고성능 모터입니다.
- JMVR Series is a double-speed stopping board-type axial piston motor in which the brake valve and the mechanical brake are built.
- It is a motor of high-pressure and high-capacity which has optimized every part of the motor.

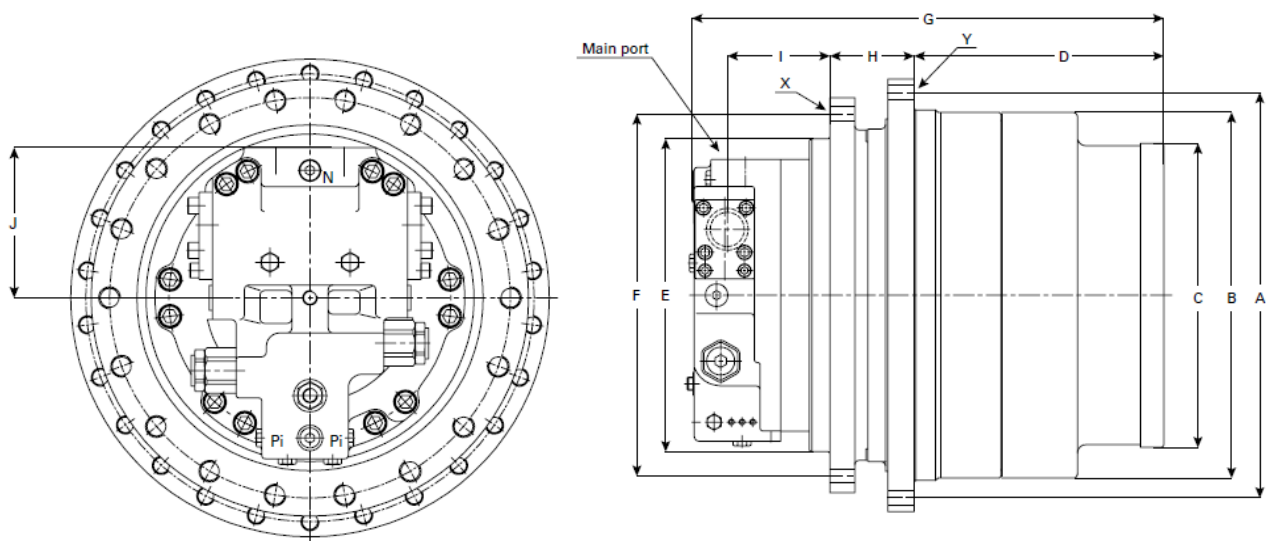
Specification

Model	Max. output torque (Reducer)		Motor displacement		Gear ratio	Max. speed (Motor)		Max. flow	Normal pressure**	Peak pressure	Mechanical brake torque		Automatic shift pressure	Relief valve	Mass	Typical vehicle application
	Low speed	High speed	Low speed	High speed		Low speed	High speed				Reducer	Motor				
	N.m		cc/r			rpm					ℓ/min	bar				
016*	1666	x	16.1	x	31	1056	x	23	214	255	547	18	x	x	25	1.5
16	3018	1915	16.4	10.4	53.7	2134	3365	35	220	260	2631	49	x	x	38	3.5
21	3696	1969	21	11.2	53.7	1667	3125	35	220	260	2637	49	x	▲	38	3.5
23	4724	2955	23.5	14.7	53.7	1489	2381	35	240	285	2631	49	x	▲	38	3.5
41	10336	6560	41.1	26.1	53.7	1800	2835	74	300	355	8041	150	243	●	87	7.5
44	6831	3528	43.7	22.7	45.5	1259	2423	55	220	260	3746	82	x	●	79.5	5
	8056	4185	43.7	22.7	53.7	1259	2423	55	220	260	4421	82	x	●	79.5	5~6
47	11711	6909	46.6	27.5	53.7	1622	2744	76	300	360	3869	82	x	●	87	7
53	11720	6909	53.2	31.4	47	1597	2710	85	300	360	3869	82	x	●	89	7~8
67	18707	11452	67.3	41.2	54	1664	2718	112	330	395	10584	196	290	●	140	11
76	23549	13775	76.62	44.8	54	1612	2757	124	365	430	10425	193	290	●	135	14
118	32535	19852	118	72	50.5	1864	3056	220	350	420	21648	480	260	●	300	16
147	41548	26940	146.5	95	50.5	1707	2632	250	360	430	24250	480	260	●	300	20~22
155	61671	35257	154.8	88.5	73	1718	3005	275	350	420	28607	392	270	●	404	29~32
168	46433	28263	168.4	102.5	50.5	1469	2413	248	350	420	24250	480	260	●	310	25
173	65010	37976	173	101	73	1561	2673	270	330	395	28607	392	270	●	404	33
176	44651	27058	176.4	106.9	45	1419	2364	250	350	420	21648	481	260	●	310	22~24
185	72892	44972	185	114.13	70.2	1557	2523	288	360	430	30537	435	x	●	425	36~38
274	94438	59016	274.6	171.6	63	1383	2214	380	350	420	63592	1009	x	●	610	45~50

● - Standard ▲ - Option x - Not available

* Fixed displacement

** Nominal pressure is the max. relief valve setting pressure



Dimensions

Unit : mm

Model	øA	øB	øC	D	øE	øF	G	H	I	J	X	Y	Main Port
16	180	160	154	99.5	150	170	214	40	58.5	39	10-M10	9-M10	2-G3/8 (2-PF3/8)
21	232	204	196	132	165	192	257.5	50	55.5	51	9-M12	10-M12	2-G1/2 (2-PF1/2)
23	232	204	196	132	165	192	257.5	50	55.5	51	9-M12	10-M12	2-G1/2 (2-PF1/2)
44	282	250	244	155	210	244	342	68	76	74	12-M14	12-M14	2-G1/2 (2-PF1/2)
47	300	265	244	148.5	210	250	351.5	80	74	74	12-M16	12-M14	2-G1/2 (2-PF1/2)
53	300	265	261	149	210	250	344	80	72	76	12-M16	12-M14	2-G1/2 (2-PF1/2)
67	364	324	320	204	225	320	400	83	88.5	74	16-M16	15-M16	2-1-1/16-12 UNF-2B
76	364	324	320	193	246	280	396.5	98.5	81	74	20-M16	21-M16	2-G3/4 (2-PF3/4)
118	340	300	367	220	194	389.5	201.5	21	123	64	30-M16	12-M12	ø25 Flange
120	340	300	367	220	194	389.5	201.5	21	123	64	30-M16	12-M12	ø25 Flange
137	340	300	367	220	194	389.5	201.5	21	123	64	30-M16	12-M12	ø25 Flange
147	440	402	400	250	300	340	515.5	98.5	123	90	30-M16	30-M16	ø25 Flange
168	440	402	400	250	300	340	515.5	98.5	123	90	30-M16	30-M16	2-G1 (2-PF1)
155	492	450	369	305	380	440	572.5	102.5	103	165	18-M24	26-M20	ø25 Flange
173	492	450	369	305	380	440	572.5	102.5	103	165	18-M24	26-M20	2-G1 (2-PF1)
185	490	450	369	295.5	380	425	572.5	112	103	165	26-M20	24-M20	ø25 Flange
274	605	556	472	326.5	420	460	651.5	130	134	156.5	24-M20	24-M22	ø32 Flange



• JMF-VBR Series

- 메커니컬 브레이크 릴리프밸브를 내장하여 선회동작을 부드럽게 할 수 있도록 하였습니다.
- 모터, 브레이크장치, 밸브를 적절히 배치하여 경량화 하였습니다. 모터와 밸브를 최적화하여 고성능, 고신뢰성을 실현하였습니다.
- The mechanical brake relief valve and the make-up valve being built in, the circular movement of the motor, brake, and valve in a proper manner.
- High capacity and reliability have been realized by optimizing the motor and the valves.

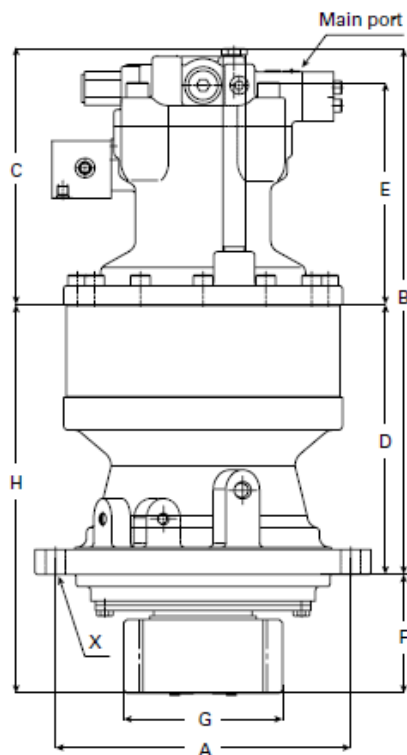
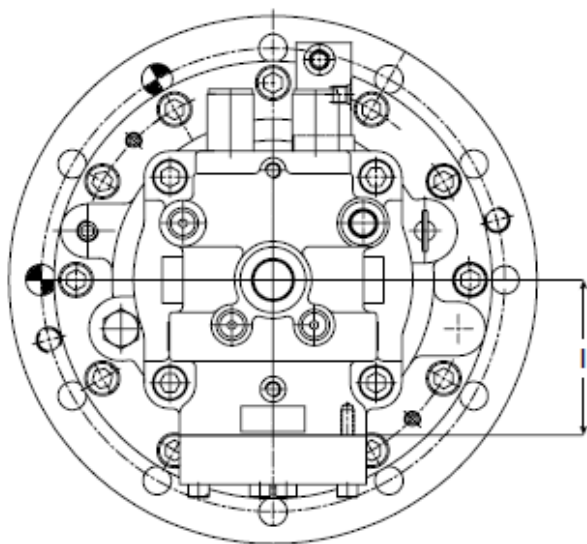
Specification

Model	Motor Displacement	Max. Output Torque	Gear Ratio	Reducer Max. speed	Max. Flow	Normal Pressure [*]	Peak pressure	Mechanical Brake Torque(Motor)	Time Delay Valve	Anti-reverse valve	Output Pinion		Mass	Typical vehicle application
	cc/rev	N.m		rpm	ℓ/min	bar	bar	N.m			Module	Number	kg	Ton
29	29	1929	19.5	63	35.6	230	276	137	●	X	7	13	75	5~6
30	30	2118	19.5	60	35.6	230	276	137	●	X	7	13	75	5~6
33	33	2277	19.5	63	40	230	276	137	●	X	7	13	75	5~6
36	36	2569	19.5	51	36	230	276	137	●	X	7	13	75	5~6
43	43	2873	19.5	72	60	230	276	137	●	X	8	12	75	5~7
47	47	3182	19.5	74	68	230	276	137	●	●	8	12	77	7~8
48	48	3182	19.5	74	68	230	276	137	●	●	8	12	77	7~8
53	53	3034	19.5	78	81	230	276	137	●	X	8	12	77	7~8
64	64	4565	19	107	130	280	336	245	●	●	10	12	112	12~14
68	68	4850	19	101	130	280	336	245	●	●	10	12	112	12~14
80	80	5727	19	95	140	280	336	300	●	●	10	12	116	14
118	118	8122	17.6	82	170	280	336	579	●	●	12	13	237	17~18
151	151	9977	17.6	84	225	280	336	579	●	●	12	13	237	22, 45
169	169	17787	23.6	62	250	320	385	686	●	●	14	15	240	29
195	195	18331	22	58	250	320	385	864	●	●	14	14	400	30~33
233	233	23166	22	56	288	320	385	1049	●	●	14	15	440	33~36
250	250	24858	22	52	288	320	385	1049	●	●	14	15	440	33~36, 120

● - Standard X - Not available

* Normal Pressure is the max. relief valve setting pressure

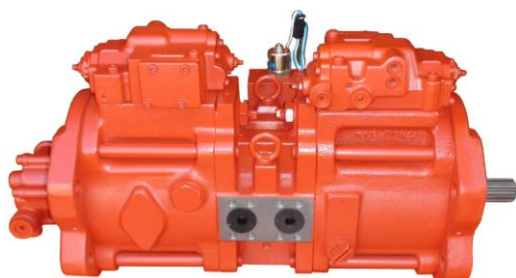
** For 32cc, 39cc, gearbox integrated option is not available. Please consult AP product marketing for further information.



Dimensions

Unit: mm

Model	øA	B	C	D	E	F	øG	H	I	X	Main Port
27	220	267	134.5	149	37	101	112	250	145	6-ø17	2-G3/8 (2-PF3/8)
29	275	405	210	194	184	98	112	292	72	7-ø17	2-G1/2 (2-PF1/2)
30	275	405	210	194	184	98	112	292	72	7-ø17	2-G1/2 (2-PF1/2)
32	275	405	210	194	184	98	112	292	72	7-ø17	2-G1/2 (2-PF1/2)
33	275	405	210	194	184	98	112	292	72	7-ø17	2-G1/2 (2-PF1/2)
36	275	402	208	194	178	98	112	292	72	7-ø17	2-G1/2 (2-PF1/2)
39	275	405	209	194	184	98	112	292	72	7-ø17	2-G1/2 (2-PF1/2)
43	275	399	205	194	178	106	120.8	300	72	7-ø17	2-G1/2 (2-PF1/2)
47	275	410.5	216.5	194	189.5	105	120.8	299	72	7-ø17	2-G1/2 (2-PF1/2)
53	275	410.5	216.5	199	189.5	106.2	117.8	305.2	72	7-ø17	2-G1/2 (2-PF1/2)
64	290	468	234	234	196	113	143	347	97	9-ø18	ø13 Flange
68	290	468	234	234	196	113	143	347	97	9-ø18	ø13 Flange
118	360	632	298	334	248	143	194	477	121	11-ø22	ø20 Flange
151	360	632	298	334	248	143	194	477	121	11-ø22	ø20 Flange
169	520	698	302	396	257	179	238	575	120	15-ø22	ø20 Flange
195	430	737	342	395	258	184	232	579	112	12-ø26	ø25 Flange
233	430	804	393	411	345	204	238	616	148	12-ø26	ø26 Flange
250	430	804	393	411	345	205	238	616	148	12-ø26	ø26 Flange

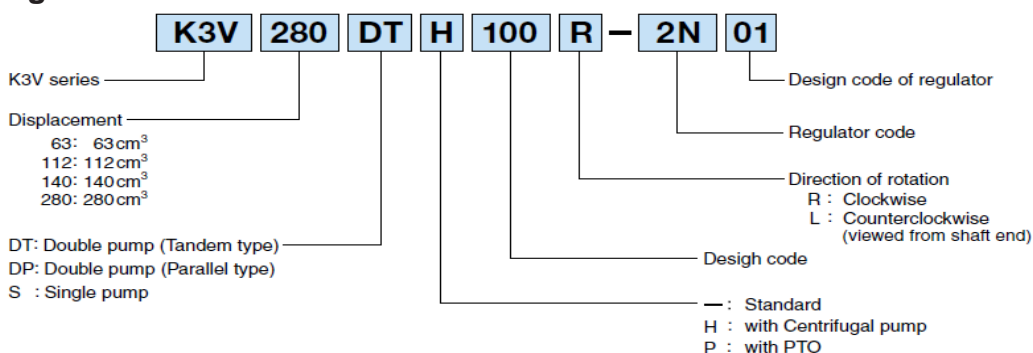


• K3V & K5V Series

K3V & K5V Series Pump는 오랜 경험과 실적을 기초한 고출력, 고효율, 고신뢰성을 향상 시키고 철저한 기능설계를 추구한 건설기계용 사판식 Piston Pump 입니다.

K3V & K5V Series Pump has optimum design and is provided with improved power density, efficiency, and reliability, attained from our many years of experiences.

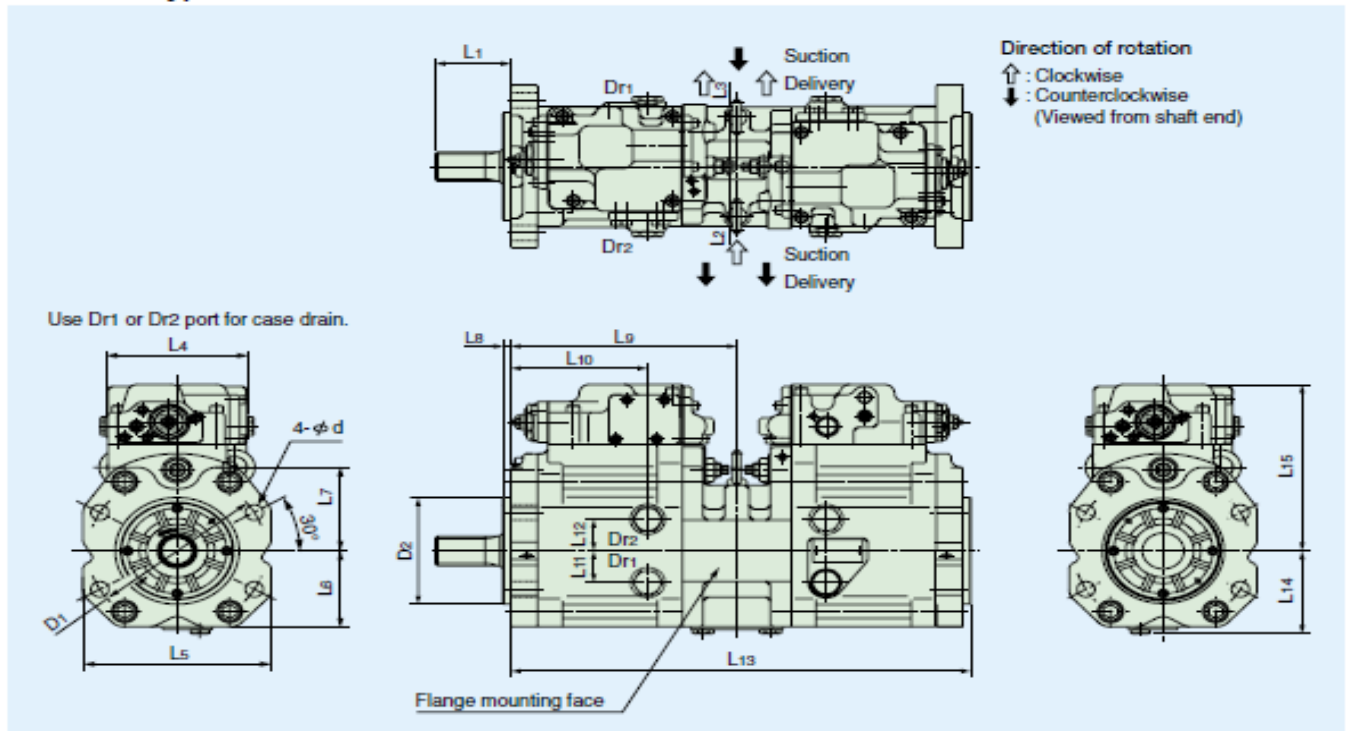
Ordering Code



Specification

Series		K3V				K5V		
Size		63	112	140	280	80	140	200
Displacement (cm ³)		63	112	140	280	80	140	200
Pressure (kgf/cm ²)	Rated	350				350		
	Peak	400				400		
Speed (rpm)	Max. for self priming	2,650	2,360	2,150	1950	2,460	2,160	1,900
	Max.	3,250	2,700	2,500	2,300	3,000	2,500	2,200
Max. input torque of tandem pump(kgf.m)		35	60	114	114	54	86	114
Max. input torque of attached gear pump with PTO (kgf.m)		13		30		13		30
Mass (kg)	Single	48	68	86	140	48	68	86
	Tandem	81	125	160	270	81	125	160
Hydraulic fluid	Type	Antiwear hydraulic fluid						
	Oil temperature range	.20 ~ + 95 °C						
	Oil viscosity range	10 ~ 1,000 cst						
	Filtration	Suction line	80 ~ 150 mesh					
		Return line	nominal 10 micron meter					

• Tandem Type



Dimensions

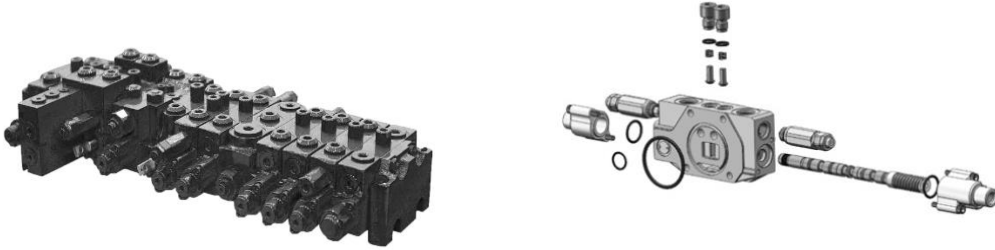
Size	D1	D2	D3	d	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10
K3V63	180	125	82.55	18	76	70	70	142	190	89	98	8	228	138
K3V112	224	160	82.55	22	78	80	80	142	234	100	110	8	265	167
K3V140	250	180	101.6	22	93	92	92	142	256	112	123	8	305	190
K3V280	300	200		26	115	150	125	142	300	127	140	8	356	203
K5V80	180	125	82.55	18	76	70	70	142	190	89	98	8	228	138
K5V140	224	160	82.55	22	78	80	80	142	234	100	110	8	265	167
K5V200	250	180	101.6	22	93	92	92	142	256	112	123	8	305	190

Size	L11	L12	L13	L14	L15	L16	L17	L18	L19	L20	L21	L22	L23	M
K3V63	37	37	464	97	195	110	213	177	268	150	2.4	8	106	2—M10—25
K3V112	41	41	538	109	220	110	213	214	305	150	2.4	8	106	2—M10—25
K3V140	53	53	618	121	245	122	292	257	361	200	2.4	15	127	4—M12—22
K3V280	70	70	792	150	286									
K5V80	37	37	464	97	195	110	213	177	268	150	2.4	8	106	2—M10—25
K5V140	41	41	538	109	220	110	213	214	305	150	2.4	8	106	2—M10—25
K5V200	53	53	618	121	245	122	292	257	361	200	2.4	15	127	4—M12—22

Dimensions of shaft end

Size	No. of teeth	Pitch circle dia (mm)	Pressure angle	Module	Rule
K3V63	14	29.6	30°	12/24	SAE
K3V112	14	35	20°	2.5	JIS B 1603
K3V140	17	42.5	20°	2.5	JIS B 1603
K3V280	18	54	20°	3	JIS B 1603
K5V80	12	30	20°	2.5	JIS B 1603
K5V140	17	42.5	20°	2.5	JIS B 1603
K5V200	17	42.5	20°	2.5	JIS B 1603

| Main Control Valve



• CMJ Series

Sectional Type은 다음의 기본적인 특징을 갖추고 있다.

- 독자 유로 설계에 의한 압력 손실이 적다
- 각종 Accessory Valve의 Cartridge화에 의해 간소화함으로써 자유로운 회로 구성이 가능하다.
- 2종의 open center sectional Type의 MCV는 5~7톤 소형굴삭기에 적용할 수 있습니다.

Sectional type of our company basically has following features.

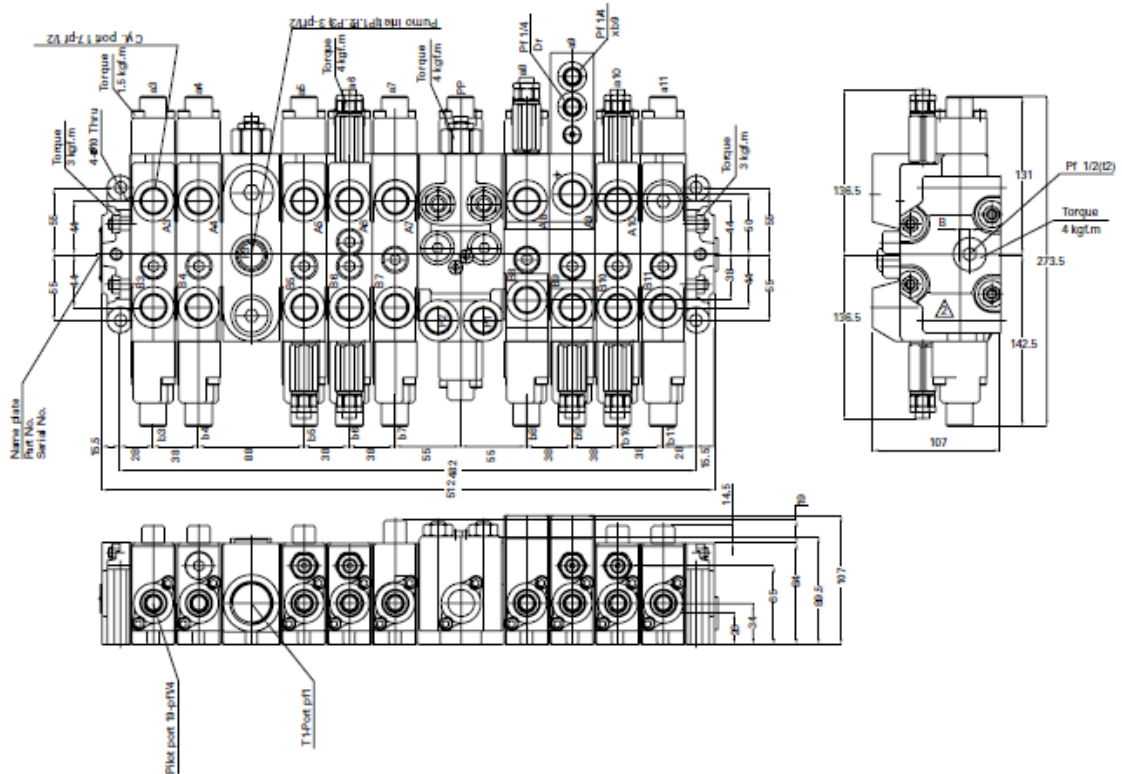
- It has the lower loss in the pressure by independently designed oil path.
- Circuit can be consisted freely according to its simplification by the conversion of Cartridge of various Accessory valve .
- This catalogue introduces two types of open center sectional valves applicable to 5~7 Ton mini excavator applications.

Specification

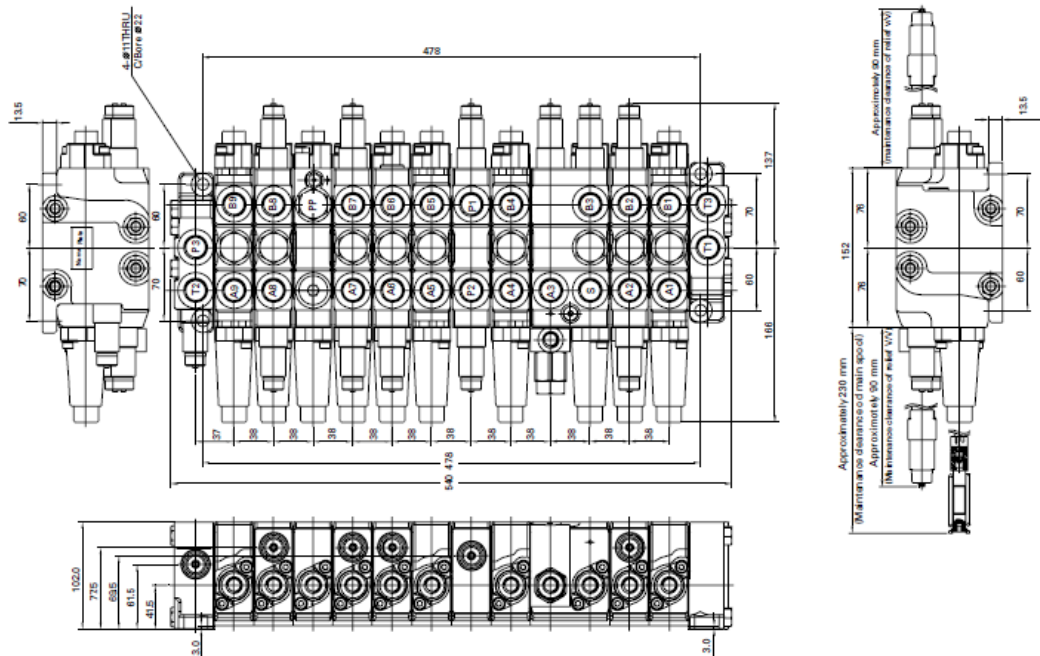
Model	CMJ60	CMJ80
Spool specification	Spool Dia = 14.5 mm	Spool Dia = 16.0 mm
	Spool Stroke = 8.0 mm	Spool Stroke = 8.0 mm
Rated pressure	220 bar	230 bar
Max. pressure	240 bar	250 bar
Pilot port rated pressure	40 bar	40 bar
Max. flow	P1,P2 – 60 LPM	P1,P2 – 80 LPM
	P3 – 40 LPM	P3 – 40 LPM
Max. back pressure	Peak – 20 bar	Peak – 20 bar
	Normal – 8 bar	Normal – 8 bar
Temperature range	-20 ~ 90 °C	-20 ~ 90 °C
Hydraulic oil	ISO VG 46 Equivalent	ISO VG 46 Equivalent
Main relief setting	220 bar @ 40 LPM	230 bar @ 50 LPM
Overload relief setting	240 bar @ 10 LPM	250 bar @ 20 LPM
Internal leakage	8 cc/min @70 bar & 37Cst	8 cc/min @70 bar & 37Cst
Typical vehicle application	5 Ton	5-7 Ton

Dimensions

CMJ60



CMJ80



| Remote Control Valve



• Joystick & Pedal Valve

Remote Control Valve는 MCV의 Spool 제어 및 각종 가변밸브를 원격 제어할 수 있는 Pilot 밸브 입니다. 내구성에서 우수한 신뢰를 보장할 수 있도록 제작되었으며 압력손실이 적고 미세한 조작에서도 응답성이 우수합니다. 광범위한 온도범위(-20℃ ~ 90℃)에서도 높은 성능을 발휘합니다.

Remote Control Valve controls MCV spool and also remotely controls numerous variable valves. It is designed for guaranteeing durability and reliability, minimum pressure loss, also it provides excellent response to little movement. High performance is guaranteed over a wide range of temperature (-20℃ ~ 90℃)

Specification

Model	MAX INLET PRESSURE (kgf/cm ²)	MAX. BACK PRESSURE (kgf/cm ²)	RATED FLOW (ℓ/min)	OUTPUT PRESSURE (kgf/cm ²)	OPERATION TORQUE (kgf.cm)	MAIN USE
JRCVP-A-1	50	3	8~27	0~30	1.6~43.8	EXCAVATOR TRVELING PEDAL(WHEEL TYPE)
JRCVP-A-2	100	3	10	0~28	60~173.8	EXCAVATOR TRVELING PEDAL(CRAWLER TYPE)
	100	3	20	0~27	55~160	EXCAVATOR TRVELING PEDAL (CRAWLER TYPE WITH DAMPER)
JRCVP-B-1	100	3	10	0~28	5~135	EXCAVATOR OPTION PEDAL
JRCVJ	100	3	20	0~30	5~36.7	EXCAVATOR JOYSTICK LEVER
JRCVD	50	3	8~35	0~28	2.4~32.6	EXCAVATOR JOYSTICK (DOZER, OPTION)
JRCVL	50	3	35	0~32	5.5~39.9	LOADER JOYSTICK LEVER



K3V63/112



K5V80/140



K3V140/180



PC200-5



AP2D25



PC200-6



SBS 120



A8V0107



SH200A3



E 307



SK 200



HPV102/116



AP-12



SPK10/10



HPV091DW

| Parts for Pump & Motor

제일PMC 제품은 건설기계, 선박, 농기계, 특장차, 방위산업, 산업설비 등 다양한 산업분야에 적용되고 있으며, 엄격한 품질관리를 통해 고객들로부터 높은 신뢰를 쌓아가고 있습니다.

JEIL PMC's products are used in various industry areas such as construction equipments, ships, agricultural machines, special equipment vehicles, defense service, and industrial facilities. We develop trust from our customers through strict quality control.

• Main Product



2PV



A8V



K3V63



JPV16



A10V



CAT12G



CAT320



GM30H



HPR100



HPR130



HPV



HPV091



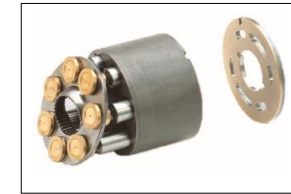
HPVMF



KCV925



M2X55



M46



MAG150



MS180-8



NV64DT



NVK45DT

• Product List

■ Caterpillar/Mitsubishi

CAT12G/14G
CAT1312/320/325
CAT350L
SBS80
E200B
SPK10/10MS110/160/180
SPK230/300/450

■ Dakin/Sauer Sundstrand

90L055/075/100/130
M15/18/20/21/22/23/24
M1525/26/27/46
PV16A
PV119
PVA656SL
PVD21/22
VRD63
S45J45
S45F90
H1P053
90P250

■ Uchida/Rexroth

A10V21/28/40/43/45
A10V63/71/100
A10VD17/43
A2F023
A4V71EL
A4V125
A4VG125/180
A8VO107/160/200
A8V55/80/86/107/172
AP2D25/36
AP5S53
A20V060

■ Shibaura

HTM450D
MFB80/160

■ Kawasaki

DNB08/50
K3SP36
K3V63/112/140/180/280DT
K3V180/200DTH
K5V80/140/200DT
K5V212
K7V63
KVC925/930/932
M2X22/55/63/96/120/146
M2X170/210
M5X130/180
MX03/80/173/750
MX55S
NV64/70/80/84/111/137
NV172DT
NV137/270
NVK45DT

■ Komatsu

PC60/71/120/200/300/400

■ Dejin Seiki

EM105
GM08/09/15/17
GM18VL2
GM30F
GM30H
GM35VL

■ Kobelco

K907
SK0711
SK07N2
SK200
SK015SR

■ Nachi

PVD2/3B

■ Hitachi

EX60/100/200/400
HMT107/116/134CF
HMTV145
HPV050/102/118/125
HPV135/145/145F
UH07/10
ZAXIS120/270/450

■ Kayaba

MAG150
MSF270/340
PSV2
PSVD2
PSVK2

■ Vickers

PVH131
V38
VKS
TA1919

■ Kubota

DC60/68
E300

■ Liebherr

LPVD64/125

■ Flait Alis

FLAIT ALIS

■ Eaton

EATON

■ Denison

P6P



PART NO	USING	DESCRIPTION	EXCAVATOR MODEL
JRV0010	M.C.V	Main Relief Valve Ass'y #1	22~37 TON
JRV0020	M.C.V	Main Relief Valve Ass'y #2	22~37 TON
JRV0030	M.C.V	Negacon Relief Valve Ass'y	22~37 TON
JRV0040	M.C.V	Over Load Relief Valve Ass'y	22~37 TON
JRV0050	M.C.V	Main Relief Valve Ass'y	22~30 TON
JRV0060	M.C.V	Negacon Relief Valve Ass'y	22~30 TON
JRV0070	M.C.V	Over Load Relief Valve Ass'y	22~30 TON
JRV0080	S/M T/M	Relief Valve Ass'y	3/3.5/5 TON S/M. 3 TON T/M
JRV0090	S/M	Relief Valve Ass'y	5/8 TON S/M (S55/55W-VGP, S70)
JRV0100	S/M	Relief Valve Ass'y	5 TON S/M (R55-7)
JRV0110	S/M	Relief Valve Ass'y	13/22 TON S/M (S130W, S210W)
JRV0120	S/M	Relief Valve Ass'y	30/33 TON S/M (S300/320/330LV-V)
JRV0130	S/M	Relief Valve Ass'y	22~34 TON S/M
JRV0140	T/M	Relief Valve Ass'y	5 TON T/M (S55W-VGP, S70-3)
JRV0150	T/M	Relief Valve Ass'y	22 TON T/M (R1400/2200LC-7)
JRV0160	T/M	Relief Valve Ass'y	28/30 TON T/M (S300LC-V)
JRV0170	T/M	Relief Valve Ass'y	29/30 TON T/M (R3000/3200LC-7)
JRV0180	S/M	Relief Valve Ass'y	M2X63/96/120/146/150/170/210
JRV0190	M.C.V	Main Relief Valve Ass'y	PC200-3
JRV0200	M.C.V	Main Relief Valve Ass'y	PC200/220-5
JRV0210	M.C.V	Main Relief Valve Ass'y	PC200-6E
JRV0220	M.C.V	Main Relief Valve Ass'y	PC200-6
JRV0230	M.C.V	Unloading Relief Valve Ass'y	PC200-6
420-00257	M.C.V	Main Relief Valve Ass'y	DX220~370
420-00258	M.C.V	Over Load Relief Valve Ass'y	DX220~370
420-00259	M.C.V	Negacon Relief Valve Ass'y	DX220~370
2420-1225	M.C.V	Main Relief Valve Ass'y	S220~370
2420-1226	M.C.V	Over Load Relief Valve Ass'y	S220~370
2420-1220	M.C.V	Over Load Relief Valve Ass'y	DX140W-V
31N4-17820	M.C.V	Main Relief Valve Ass'y	22~30 TON (R2000~R3000)
31N6-17740	M.C.V	Negacon Relief Valve Ass'y	22~30 TON (R2000~R3000)
31N8-17390	M.C.V	Main Relief Valve Ass'y	22~30 TON (R2000~R3000)
31N8-17391	M.C.V	Over Load Relief Valve Ass'y	22~30 TON (R2000~R3000)

* M.C.V : Main Control Valve, S/M : Swing Motor, T/M : Travel Motor

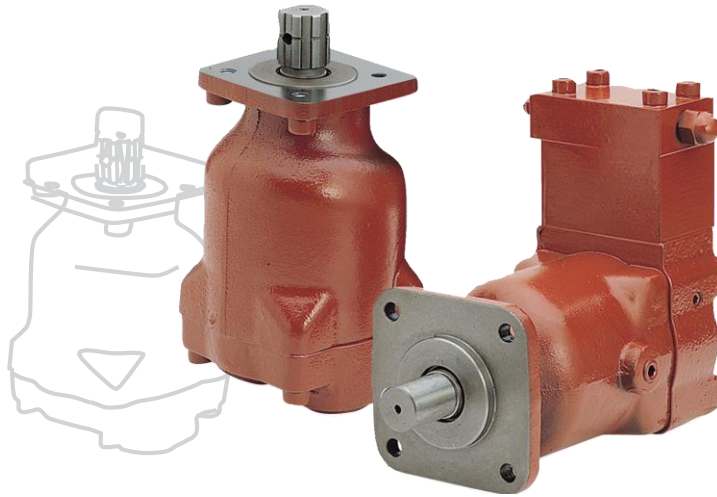


고무 커플링은 고무의 탄성을, 수지 커플링은 수지의 탄성을 이용하여 충격이나 진동을 감쇄, 흡수하는 커플링입니다. 유연성이 높고 소음이 적으며, 윤활이 필요 없기 때문에 보수가 용이하고 구조가 간단하며, 수명이 긴 점 등의 장점을 갖추고 있습니다. 다채로운 제품을 갖추고 있으므로 용도에 적합한 폭 넓은 최선의 선택을 할 수가 있습니다.

Rubber coupling uses the elasticity of rubber and resin coupling adopts the elasticity of resin to reduce or absorb the impact or vibration. It is highly flexible and free from noise and does not require lubrication, so it is convenient to maintain and has a simple structure and a long life-span. As diversified products are being offered, there is a wide range of selection

Specification

Model		Unit	CF-A-025	CF-H-030	CF-H-050	CF-H-110	CF-H-160	CF-H-500
Size			25	30	50	110	160	500
Nominal		(N.m)	250	400	800	1100	1600	5000
Torque		(kgf.m)	25	40	80	110	160	500
Maximum		(N.m)	630	800	1600	2200	3200	10000
Torque		(kgf.m)	63	80	160	220	320	1000
Max.Permissible		(N.m/10Hz)	±100					
Fluctating Torque		(kgf.m/10Hz)	±10					
Max. Speed		(rpm)		4000	4000	4000	3600	
Dynamic tortional		(N.m/rad)	4.12x10 ³	5.91x10 ⁴	1.91x10 ⁵	2.79x10 ⁵	5.11x10 ⁵	
Spring constant		(kgf.m/rad)	4.20x10 ⁴	6.03x10 ⁵	1.95x10 ⁵	2.85x10 ⁶	5.21x10 ⁶	
Intertia	Oo	kg.m ²	4.2x10 ⁻³	1.9x10 ⁻²	2.3x10 ⁻²	3.7x10 ⁻²	7.0x10 ⁻²	
		kgf.cm.s ²	4.3x10 ⁻²			0.38	1.82	
	So	kg.m ²	4.0x10 ⁻³	-	-	-	-	
		kgf.cm.s ²	4.1x10 ⁻²	-	-	-	-	
Maximum		Parallel offset(mm)	1.5	0.4	0.4	0.4	0.4	
Permissible			3	0.5	0.5	0.5	0.5	
misalignment		Axial Displacement	±5	±3	±3	±3	±3	
Mass		O0(kg)	0.8	6	6.5	9.7	11.9	
		S0(kg)	0.8					



• JPF Series

JPF Series 고정용량형 피스톤 펌프는 고압에 적합한 구조로서 고뢰성을 유지하며 특장차, 산업기계, 선박기계 등의 메인 펌프로 사용 할 수 있도록 설계되어 있습니다. 구조가 간단하여 유지 보수에 용이합니다. 슬딩부의 소재를 고급화하여 내구성이 뛰어납니다.

Highly reliable in a structure suitable for high pressure, the fixed capacity – type piston pump of the JPF series is designed to be used as a main pump for special equipment vehicles and industrial and ship machinery. Maintenance and repair are easy because the structure of the pump is simple. Durability is excellent by using high quality materials for the areas of the frictions between parts.

Specification

MODEL	DISPLACEMENT (cc/rev)	PRESSURE(kgf/cm ²)		SPEED (rpm)	
		RATED	MAX	MAX	MIN
JPF-48-01	48	250	300	2500	500
JPF-54-01	54	250	300	2500	500
JPF-48-02	48	320	350	3000	500
JPF-54-02	54	320	350	3000	500
JPF-48-VR-03	48	320	350	3000	500
JPF-54-VR-03	54	320	350	3000	5000

| Axial Piston Pump



● JPV Series

JPV Series 가변 피스톤 펌프는 소형 경량 구조로 고신뢰성을 확보 공작기계, 산업기계 등의 유닛(unit) 펌프로 사용할 수 있습니다.

● 소형경량

소형, 경량화 설계로 가볍고 컴팩트(Compact)한 구조입니다.

● 저소음

사판의 움직임을 부드럽게 하기 위한 메탈베어링 사용으로 진동과 소음을 줄였습니다.

● 고신뢰성

내장부품은 다년간 판매 실적으로 제품의 우수성을 인정받은 제일로타리그룹((ROTARY GROUP))의 제품으로 높은 신뢰성을 가지고 있습니다.

Highly reliable in a compact, light structure, the variable piston pump of the JPV series may be used as a unit pump for working and industrial machinery.

● Compact and light weight

It's designed to be compact and light

● Low noise

The level of vibration and noise is lower by using metal bearings in order to smoothen the movement of the sloping board.

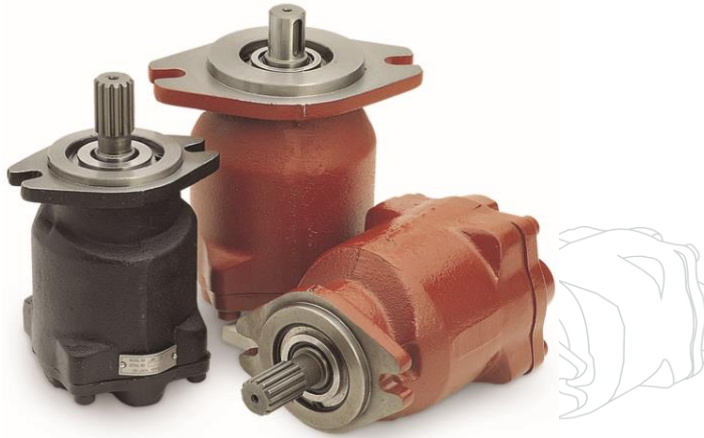
● High reliability

It's highly reliable by using the parts of the Jeil Rotary Group the quality of which has been recognized by the result of their sales over the last several years.

Specification

MODEL	DISPLACEMENT (cc/rev)	MINIMUM FLOW COTROL RANGE (cc/rev)	PRESSURE (kgf/cm ²)		SPEED (rpm)	
			RATED	MAX	RATED	MAX
JPV-15-R-01	14.8	6	160	210	1800	600
JPV-16-R-01	15.8	6	160	210	1800	600
JPV-22-R-01	22.2	8.5	160	210	1800	600
JPV-27-R-01	36.9	10	160	210	1800	600

| Axial Piston Motor



• JMF Series

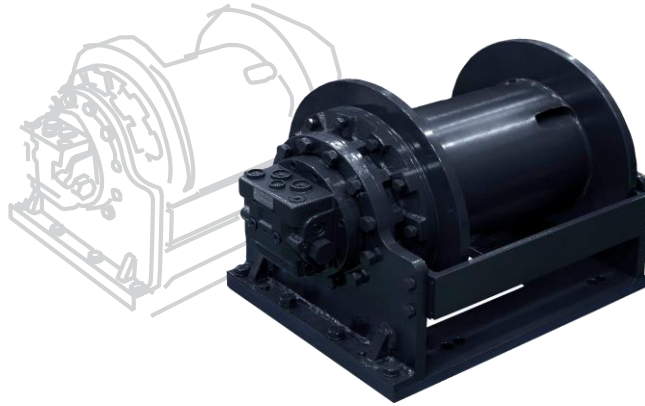
JMF Series는 건설기계 산업차량 등의 주행 선회 원치용으로 사용이 가능한 사판식 피스톤 모타입니다. 또한 경량, 소형 고내구성을 겸비한 고정용적형 사판식 모타입니다. 급격한 가감속, 빈번한 정/역회전에 의한 토크 변동, 압력변화 등에 대하여 우수한 내구성을 유지할 수 있도록 간단한 구조로 제작하였습니다.

JMF Series is an axial piston motor may be used for the running, turning, and winching of industrial machinery, industrial vehicles, and agricultural machinery. JMF Series is a fixed displacement swash type piston motor combines with a light, small, and a highly durable motor. JMF Series is designed with a simple structure to keep the outstanding durability against rapid acceleration /deceleration, torque changes by frequent rotation/reverse rotation, and pressure variation.

Specification

MODEL	DISPLACEMENT (cc/rev)	PRESSURE (kgf/cm ²)		TORQUE (kgf.m)		SPEED (rpm)
		RATED	MAX	RATED	MAX	
JMF-25-01	25.7	210	250	8.6	10.2	2500
JMF-25-02A	25.7	210	250	8.6	10.2	2500
JMF-25-03A	25.7	210	250	8.6	10.2	2500
JMF-36-01A	36	210	250	12	14.3	2500
JMF-39-01A	39	210	250	13	15.5	2500
JMF-43-01A	43	210	250	14.3	17	2500
JMF-43-01B	43	210	250	14.3	17	2500
JMF-47-01A	47	210	250	15.7	18.7	2500

| Hydraulic Winch Motor



• JMV Series

JMV Series는 특장차량 선박용 등의 윈치용으로 사용이 가능한 사판식 피스톤 모터입니다. 저속/고속으로 속도 전환이 가능한 구조로 되어 있으며, 모터 각 부분의 시스템을 최적화한 고압, 고성능 모터입니다.

JMV Series is a swash piston pump available on the winch for Special Equipment Vehicles (SEV) and ships. It consists of the structure which enables speed conversion, and it is high pressure and performance motor that the system on each part of motor is optimized.

Ordering Code

JMV	53/31	VBC	R	41
가변용적형 모터 VARIABLE MOTOR	용적(cc/rev) DISPLACEMENT	기계식브레이크와 WITH MECHANICAL BRAKE VALVE AND COUNTER BALANCE VALVE	감속기내장 WITH REDUCTIONGEAR	감속비 GEAR RATIO

Specification

MODEL	MAX OUPUT TORQUE		MAX MOTOR DISPLACEMENT	MAX SPEED	MAX PRESSURE		MECHANICAL BRAKE TORQUE (MOTOR)	GEAR RATIO
	N.m	kgf.m	cc/rev	rpm	Mpa	Kgf/cm ²	Kgf.m	
JMV-53/31-VBC-01	173.7	17.8	53.2/30.7	3000	20.6	210	min. 24	x
JMV-53/31-VBC-R-41	7267	741	53.2/30.7	3000	20.6	210	min. 1081	41.6
JMV-48/24-VBC-R-45	7213	735.5	48.3/24.5	3000	20.6	210	min. 1184	45.6
JMV-59/34-VBC-R-45	8857	903.2	59.3/34.2	3000	20.6	210	min. 1184	45.6

Radial Piston Motor

J시리즈 레디얼 피스톤형 저속 고토르크 유압모터는 사출성형기를 비롯해서 건설기계, 일반산업기계, 선박기계 등 많은 분야에 사용되며 고효율 저소음의 유압모터 입니다.

Low speed and high torque Radial Piston Hydraulic Motor is suitable to wide range of application such as injection molding machine as well as construction machinery, industrial and marine machineries. It is highly efficient and hydraulic motor.



• JRC Series

- 높은 가동효율을 유지합니다.
- 저속에서 고속까지 광범위한 회전속도로 운전이 가능합니다.
- 건실하고 고장이 없으며 우수한 내구성을 발휘합니다.
- High starting torque.
- Operating at a wide range of speed.
- Durability is so remarkable that little or non mechanical trouble takes place.

Specification

MODEL	DISPLACEMENT (cc/rev)	PRESSURE (kgf/cm ²)		SPEED (rpm)		TORQUE (kgf.m)		RATED OUTPUT (Kw)	WEIGHT (kg)
		RATED	INSTANTANEOUS MAX	RATED	CONTINUOUS MAX	RATED	MAX		
JRC-200	201	160	210	360	600	47	62	17	43
JRC-400B	403	160	210	230	400	97	115	23	70
JRC-500B	510	160	210	200	320	122	145	25	70
JRC-500	499	210	250	290	500	155	184	46	80
JRC-650	654	210	250	276	457	201	239	57	114
JRC-750	748	210	250	260	400	233	277	62	114
JRC-1000	1005	210	250	240	360	313	372	77	150
JRC-1200	1206	210	250	230	330	369	439	87	154
JRC-1350	1357	210	250	215	315	417	496	92	170
JRC-1500	1507	210	250	200	300	463	551	95	174
JRC-2100	2099	210	250	180	260	645	767	119	237
JRC-3200	3203	210	250	140	205	982	1168	141	292
JRC-3500	3516	210	250	135	196	1076	1280	149	300
JRC-4500	4516	210	250	120	145	1382	1643	170	396
JRC-5000	5032	210	250	110	130	1534	1727	174	400
JRC-6600	6580	210	250	90	120	1979	2230	183	490

- 순간최고압력은 써이지(Surge) 압력을 포함한 일시적인 압력 상승을 말합니다.
- Instantaneous maximum pressure means temporary pressure increase including surge pressure.

|Radial Piston Motor



• JRT Series

JRT Series 레디얼 피스톤형 저속 고토르크 유압모터는 Pilot압의 제한에 의해 출력토크 회전속도를 2단계로 전환할 수 있는 2속 기능을 갖추고 있으므로 회로의 간략화 및 에너지 절약화가 됩니다. 2속절환용의 밸브를 모터에 직접 부착할 수 있습니다.

JRT Series radial feature for controlling output torque rotation speed by measuring pressure piston low-speed high-torque hydraulic motor has 2-speed changeover

● 2 Speed Auto-Changing valve

모타의 부하압력에 의해 자동으로 작동하는 밸브 입니다..
It is an automatically operating valve according to load pressure of motor.

TYPE	MAX PRESSURE (kgf/cm ²)	CUT IN PRESSURE (kgf/cm ²)	CUT OUT PRESSURE (kgf/cm ²)	WEGHT (kg)
JMOV	250	90~180	30~50	6

● 2 Speed Manual -Changing valve

모타의 2속절환을 수동으로 작동시키는 밸브입니다.

TYPE	MAX PRESSURE (kgf/cm ²)	MAX FLOW (l/min)	WEGHT (kg)
JMCV-06	250	20	2

Specification

MODEL	DISPLACEMENT (cc/rev)		PRESSURE (kgf/cm ²)		MAX SPEED (rpm)		RATED TORQUE (kgf.m)		WEGHT (kg)
	100%	50%	100%	50%	100%	50%	100%	50%	
JRT-500	499	250	210	250	500	1000	155	78	95
JRT-750	748	374	210	250	400	800	233	116	127
JRT-1000	1005	502	210	250	360	720	313	156	170
JRT-1200	1206	603	210	250	330	660	369	184	170
JRT-1350	1357	678	210	250	317	630	417	208	190
JRT-1500	1507	753	210	250	300	600	463	231	190
JRT-2100	2099	1049	210	250	260	520	645	322	260
JRT-3200	3203	1601	210	250	205	410	962	491	310
JRT-3500	3516	1758	210	250	195	390	1076	538	330

- 사용유 최고온도(Max Fluid Temperature) : 70 °C
- 사용유 점도범위(Permissible Viscosity Range) : 12~500 cSt



Orbit Motor는 건설기계, 특장차량, 농업기계 등의 주행, 선회, 원치용으로 광범위하게 사용이 가능한 소형, 경량 고내구성을 겸비한 Low Speed High Torque Motor 입니다.

Applications

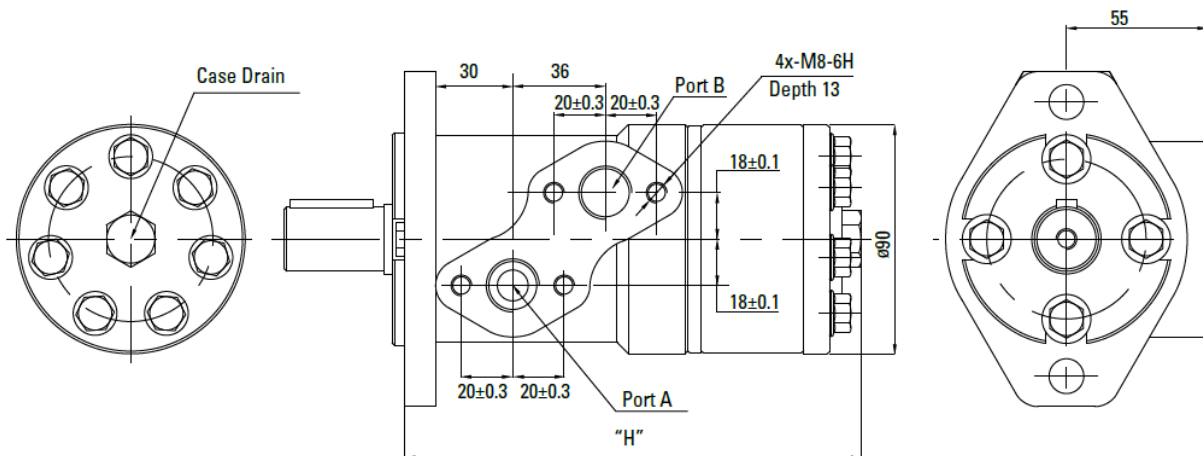
- Aerial work platform
- Augers
- Conveyors
- Food processing
- Harvesters
- Machine tools
- Spreaders
- Winches

• CH Series

Specification

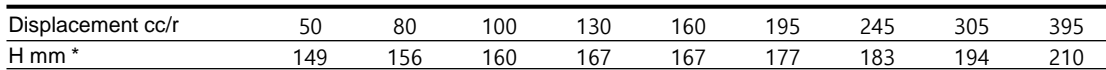
Displacement	cc/r	53	63	80	100	125	160	200	245	315	390	485
Flow (LPM)	Continuous	38	45	57	57	57	57	57	57	57	57	57
	Intermittent	45	53	68	68	68	68	68	68	68	68	68
Max. Speed (RPM)	Continuous	721	693	710	568	462	354	286	234	174	144	114
	Intermittent	864	806	848	678	551	421	341	282	209	171	138
Δ Pressure (Bar)	Continuous	124	124	124	124	124	115	110	100	90	83	69
	Intermittent	138	138	138	138	138	124	124	124	124	110	90
Torque (Nm)	Continuous	83	104	130	162	200	242	287	318	377	419	426
	Intermittent	93	116	145	181	223	260	324	391	508	547	507
Weight (kg)		5	5.3	5.5	6.1	6.2	6.4	6.7	7.1	7.4	7.7	8

Dimensions



Specification

Dimensions



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• HST Series

HST는 유압펌프와 모터를 일체형으로 구성한 유압식 동력전달 장치입니다. 펌프는 사판각도를 조작하여 용적을 변화시킬 수 있는 가변용적형 사판식 피스톤 펌프이며, 모터는 고정용적형 사판식 피스톤형을 채택하고 있습니다. 피스톤 펌프의 사판각도 변화에 의해서 모터회전을 정지에서 최대회전수까지 변화시킬 수 있으며 정회전, 역회전이 가능합니다.

HST장치를 구성할 시 간단한 레버조작으로 전진, 후진, 정지가 가능하며 레버 조작범위에 비례한 속도를 얻을 수 있으므로, 농기계, 건설기계 등의 주행장치에 간편하게 사용할 수 있도록 제작되어 있습니다.

HST is a hydraulic power transfer unit composed of hydraulic pump and motor in a single body. Pump displacement is varied with the swash plate degree. The pump is equipped with a varying displacement swash plate type piston and the motor is designed as a fixed displacement type. Motor rotation either for clockwise or counterclockwise direction can be changeable from stop to maximum number of rpm according to the change of swash plate degree of pump. With HST, forward, reverse and stop modes are performed using simple lever control, velocity proportional to lever handling range makes easy use of transporting system for agricultural and construction machines.

Specification

MODEL	PUMP DISPLACEMENT (cc/rev)	MOTOR DISPLACEMENT (cc/rev)	MAX INPUT SPEED (rpm)	MAX OUTPUT SPEED (rpm)	MAX PRESSURE (kgf/cm ²)	MAX OUTPUT TORQUE (kgf.m)	CHARGE PUMP DISPLACEMENT (cc/rev)
HPVMF-16-L-01	0~16.4	16.4	3600	0~3600	210~280	6.5	4.9
HPVMF-16-L-02	0~16.4	16.4	3200	0~3200	210~280	5.5	4
HPVMF-18-L-01	0~18.3	18.3	3260	0~3260	280	8.2	6
HPVMF-20-L-01	0~20	20	2700	0~2700	280	8.9	x
HPVMF-21-L-01	0~21.5	21.5	3600	0~3600	180	6.2	x
HPVMF-23-L-01	0~23.3	23.3	3200	0~3200	250~320	11.9	4.2
HPVMF-23-L-02	0~23.7	23.7	3260	0~3260	250~315	11.9	6
HPVMF-23-L-03	0~23.3	23.3	3000	0~3000	280	10.4	6.2
HPVMF-28-L-01	0~28.1	28.1	3000	0~3000	300	13.4	6.2
HPVMF-28-L-02	0~28.2	28.2	3260	0~3260	340	15.3	6
HPVMF-28-L-03	0~28.18	28.17	2600	0~2600	340	15.3	x
HPVMPF-37-L-01	0~37.0	37	3000	0~3000	250~290	17	7.35
HPVMPF-37-L-03	0~37.0	37	3300	0~3300	250~290	17	7.35
HPVMPF-37-L-04	0~37.0	37	3000	0~3000	210~250	14.7	7
HPVMPF-37-L-05	0~37.0	37	3000	0~3000	300~320	19	7
HPVMPF-37-L-06	0~37.0	37	3000	0~3000	210~250	14.7	7
HPVMPF-37-L-07	0~37.0	37	3000	0~3000	290~350	20.6	7.35
HPVMPF-40-L-01	0~40.3	40.3	3600	3600	380	24.4	7.35
HPVMPF-40-L-02	0~40.3	40.3	3250	0~3250	350	22.5	8
HPVMPF-45-L-01	0~45	45	2800	0~3250	280	20.1	8

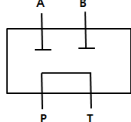


• JHH Series

JHH 콘트롤 밸브는 3위치 4방향 절환밸브로 압력보상기구 및 유량제어밸브와 RELIEF VALVE를 조합하여 작동하는 밸브로 조작 LEVER를 수직상태에서 좌우 45도까지 조작함에 따라 "P" PORT에서 "A" "B" PORT로 유량이 조작각에 따라 비례적으로 흐릅니다. 또 압력보상기구가 부착되어 부하에 영향을 받지 않고 ACTUATOR의 속도제어를 일정하게 할 수 있습니다.

JHH Control Valve 3 Position 4 directional switching valve which is composed of pressure compensation device, flow control valve 45 degree to left and right, oil flow from P - port to either A or B - port is proportionally changing to according to the operational angle of lever . Pressure compensation device isolates the effect of load change and control the speed of actuator evenly.

Ordering Code

JHH	06 .	6C	PC	B	120
JHH-수직형	PORT SIZE 06 : 3/4" 08 : 1" 10 : 1 1/4"	SPOOL TYPE 	COUNT BALANCE VALVE	BRAKE VALVE	통과유량 (ℓ/min)
JHHM-MULT형	06 : 3/4"				

Specification

MODEL	PORT SIZE (inch)	MAX FLOW (ℓ/min)	WRENCH (ℓ/min)	RATED PRESSURE (kgf/cm ²)	WEGHT (kg)
JHH-06-*C-P	3/4" (20A)	120	80~120	210	25
JHH-06-*C-PCB	3/4" (20A)	120	80~120	210	35
JHH-08-*C-P	1" (25A)	200	150~200	210	30
JHH-08-*C-PCB	1" (25A)	200	150~200	210	43
JHH-10-*C-P	1 1/4" (32A)	300	240~300	210	32
JHH-10-*C-PCB	1 1/4" (32A)	300	240~300	210	45
JHHM-06-*C-P	3/4" (20A)	120	80~120	210	54

DONGHYUN

| Head Office

Donghyun building 94-172, Yeongdeungpo-dong 7-ga,
Yeongdeungpo-gu, Seoul, Korea

TEL : +82-2-2677-0091 / Fax : +82-2-2671-7958

| China Office

YanTai DongHyun Hydraulics Machine Co., Ltd
Zhishui Industrial Park, Zhifu, Yantai, China

TEL / FAX : 0535-6020703