

We Supply & Repair:

- Deck Hydraulic Spares Parts
- Hatch Cover Hydraulic Spares Parts
- Hydraulic Motor & Spares
- Hydraulic Pump & Spares
- Hydraulic Valves & Spares
- Hydraulic Rubber Hose
- Hydraulic Cylinder
- Hydraulic Air Pump
- Hydraulic Air motor
- Filter Element
- Lift Boat Equipments & Spares
- All Kind Of Marine
- Machineries & Spare Parts

About Us

Shanghai Sinu Marine Technology Co., Ltd have more than 20 years experience of hydraulic spare parts. We mainly provide hydraulic machineries for ship owners, shipping companies, automobile manufacturers, ship repair shops and other users ect. Our products included: Hydraulic motors, hydraulic pumps, hydraulic valves, hydraulic cylinder, hydraulic oil seals, hydraulic brake disk, pressure gauges, hydraulic bearing, hydraulic rubber hoses, crane hydraulic spare parts, ship hatch cover hydraulic spare parts, life boat equipment spare parts ect.

- ◆ Our Team
- ◆ Full range hydraulic parts support
- ◆ High quality products
- ◆ Possesses strong technical backup as well as years of experience
- ◆ On line technology support from China to all over the world
- ◆ Strong design capabilities
- ◆ Fully trained competent staff
- ◆ Good testing procedure with a full range of testing machineries
- ◆ Quick responses time
- ◆ Maintains high quality control for repair work.

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TEST BENCH





► Hydraulic motor for hatch cover

	litre/rev.	in3/rev	Nm/bar	lbf.ft/psi	RATED rpm
HML5-1.0	1,03	63	15,20	0,77	300
HML5-1.4	1,36	83	20,10	1,02	214
HMB5-1.8	1,82	111	27,50	1,40	330
HMB5-2.3	2,27	139	34,30	1,74	265
HMM5-2.3	2,27	139	34,30	1,74	
HMB5-2.6	2,61	159	39,50	2,00	230
HMB5-2.8	2,77	169	41,80	2,12	217
HMB5-3.3	3,26	200	49,40	2,51	184
HMB5-4.0	3,98	243	60,30	3,07	150
HMB7-3.7	3,65	223	55,30	2,81	164
HMB7-4.6	4,56	279	69,10	3,51	131
HMB7-5.6	5,58	341	84,60	4,30	108
HMJ9-5.9	5,87	359	89,20	4,54	102
HMJ9-7.2	7,17	438	109,00	5,52	84
HMH5-7.3	7,30	446	110,40	5,61	82
HMH7-10.2	10,22	624	154,20	7,84	59
HMH7-12.7	12,72	777	191,80	9,75	47
HMH9-13.2	13,14	802	199,60	10,15	46
HMH9-16.3	16,35	998	246,50	12,54	37
HMK14-20.4	20,40	1248	308,40	15,68	49
HMK18-26.4	26,40	1604	398,20	20,25	38
HMK18-32.6	32,60	1996	493,00	25,08	31



Spare Parts

Shaft sleeve / seal kits / Stuff Box / Piston ring / Bearing / balance valve / Distance ring



Counter balance valve



Load control valve



Motor bearing

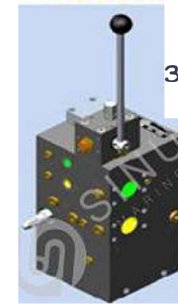


Oldham coupling

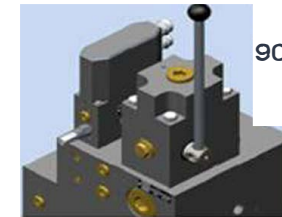


Guide ring

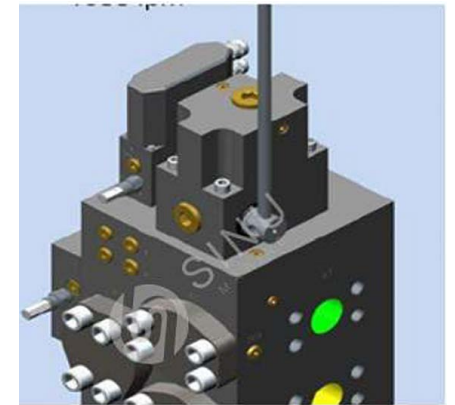
► HYDRANOR.PUSNES



300 lpm



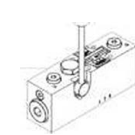
900 lpm



DIRECTION CONTROL VALVES

1STB44*1

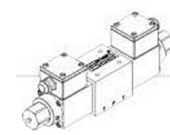
Manually operated directional control valves size NGB for rough environments



1STB4432

Electrically operated directional control valves size NGB for rough environments

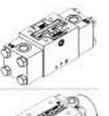
- 3sp according to ISO 4401 (ISO 4401)
- Electrically operated: - 24 VDC - 220 VAC



1STB442*

Hydraulically operated directional control valves size NGB/HG10 for rough environments

- Size according to ISO 4401 (ISO 4401)
- 24 VDC - 220 VAC



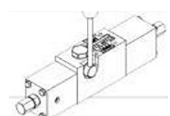
LOAD CONTROL VALVE 3AVB1431AL.17C 7AVB*

Load control valves size 10/20/30/40 for rough environments



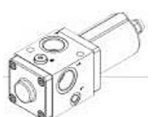
PRESSURE CONTROL VALVES 1FGB 1FGB44111K1B.05-05

Manually operated proportional pressure valves



PRESSURE CONTROL VALVES 3SV(B)**(L)

Single acting pressure relief valves



DIRECTIONAL CONTROL VALVES 20ST(F)(B)-4 way 20STB44742C1.2AC.14C 20STB4475031.2AC.14C

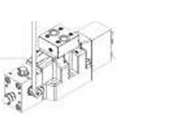
Manual/hydraulic operated directional control valves size 20/25/30/40/50 for rough environments

- Interface: - Threaded connections - SAE flange - SUB plate
- Manually operated
- Proportionally remotely controlled by pilot pressure
- Various options for: - Stroke - Material - etc.



DIRECTIONAL CONTROL VALVES 1STB44* 1STB4474011.L.14C 1STB4475021.14C.15AW RSHP3-163Y31-1-L8.14C RSHP3-253Y31-1-3BA3

Manually operated directional control valves size 10/20/30 for rough environments



DIRECTIONAL CONTROL VALVES 2ST(B)-2 way 2SVDB12L-46460A 2SVDB16L.2K

Mechanically operated 2-way directional control valves size 10/20/30 for rough environments

- Interface: - Threaded connections - SUB plate mounting



PRESSURE CONTROL VALVES 8FGB ; 8FGBR

Proportional pressure reducing valves

- Interface: - Threaded connections - SAE flange - SUB plate
- Proportionally remotely controlled by pilot pressure
- Various options for: - Stroke - Material - etc.



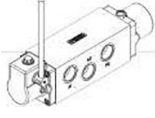
DIRECTIONAL CONTROL VALVES 5ST(B)-4-WAY 5STB44142C1A.7BA.14C 5STB44152C1A.7BA14C 5STB4416031 14C



DIRECTIONAL CONTROL VALVES 5ST-6 WAY 5ST4414041A.4BV.27L

Manually operated directional control valves size 10/20/30 for rough environments

- Interface: - Threaded connections - SUB plate mounting
- Manually operated
- Proportionally remotely controlled by pilot pressure
- 2 standard spools
- 6 way operation 2 positions
- Various options for: - Stroke - Material - etc.



9ST4402063A



Throttle valve
215-002742.01300



Reducing Valve
002730.03000-219



Spare Parts For Valve

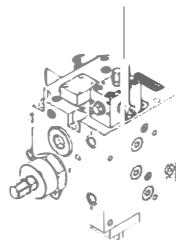
COVER	SHAFT	ROCKING LEVER	COVER	COVER	COVER	LEVER BOLT

Winch blocks for variable pump systems

6MB-1500/6MB-650/7MB/8MB/9MB/11MB

Winch control manifolds for variable pumps

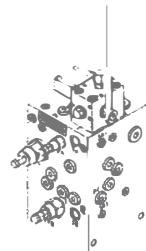
- Proportional model
- Compact design
- Pressure compensator system for load independent control of hydraulic motor
- Load control valve of special design
- Actuators
 - Manual
 - Hydraulic remote
 - Proportional electric operation
 - Combination of those above
- Options for
 - Brake release valve
 - Remote operated pressure relief A - T/B for tension control
 - Two speed selector valve
 - Up to 5 HGS flanges for operation of external functions



Winch blocks for fixed pump systems 6MBA/8MBA

Winch solution for fixed pumps

- Proportional model
- Compact design
- By-pass compensator system for load independent control of hydraulic motor
- Load control valve of special design
- Actuators
 - Manual
 - Hydraulic remote
 - Combination of those above
- Options for
 - Brake release valve
 - Remote operated pressure relief A - T/B for tension control
 - Up to 2 HGS flanges for operation of external functions
 - Prepared to be fitted directly on hydraulic motor by use of an intermediate adapter plate



5MB-08-3-37-Y3-BI-L8 P-T-030

5MB-07-3-37-Y3-BI-L8 P-T-030

6MB-200-1-2C-T-1

6MB-320-37ER-2C-TE-131A-5

6MBA-650-37-2C-MA-D2-086

6MBP-320-0840-193273.10400

8MB-200-1-2C-L4-MAM-T-127-1

8MB-200-37-2C-MA-L-TMHR

8MB-200-37E-2C-TE-R-132-4A

5MB-08-3-37-6-Y3-L8-MAM-P-T-0305

5MB-07-3-1-Y3-BI-C2-D2-L8-MAM-P-T-030

6MB-320-1-2C-MAM-L3-TR-127-8

6MB-450-1-2C-L4-MAM-T-127-8

6MB-450-37ER-2C-L3-MAM-TE-127-5

394544.10100-6MBP-8MBP

8MB-140-1-2C-LI-TR-169-2

193437.10100; TYPE: 8MBP; GROUP: 0840

9MBP-200-1-2C-L3-T-X



IHI main facility introduction—anchor winch/crane/high pressure motor/controller

This high pressure motor consists of HVLL, HVLK, HVKK, HVL, HVK, HVN total 6 models, different models have different displacements and specifications. The motors are used on anchor winch, crane and cargo winch. Some motors have 1 output shaft, and some have 2 output shafts. The motors on crane are used as hoisting motor, luffing motor and slewing motor.

NO	Description	Type	NO	Description	Type
1	Hyd.Motor	HVLG-DSS	11	Hyd.Motor	HVKG-DSS
2	Control block	DC-LA-GM	12	Control block	P-KA-GM
3	Hyd.Motor	HVLG-SS	13	Hyd.Motor	HVKP-SS
4	Control block	DC-LA-GM	14	Control block	DC-KS-SM
5	Hyd.Motor	HVLP-SS	15	Hyd.Motor	HVKG-SS
6	Control block	DC-LS-GM	16	Control block	P-KA-GM
7	Hyd.Motor	HVKKP-SS	17	Hyd.Motor	HVL-A
8	Hyd.Motor	HVLK-SS	18	Hyd.Motor	HVLG-A
9	Hyd.Motor	HVNP-DSDC	19	Hyd.Motor	HVN-A
10	Control block	DC-ND-GM	20	Hyd.Motor	HVK-A
			21	Hyd.Motor	HVLL-SS



HVLG-DSS



HVLP-SS



HVL-A



HVNP-DSDC



Control block



IHI Motor SPARE PARTS

1.CAM-RING, 2.Rotor, 3.Vane, 4.Casing, 5.Front flange, 6.Rear flange, 7.Bearing, 8.Parallel Pin, 9.Rocker Beam, 10. Push Rod, 11.spring, 12.shaft, 13.oil seal, 14.J-type packing, 15.Distance Ring, 16.Side seal, 17.Set bolt.



2.Rotor



4.Casing



3.Vane



8.Parallel Pin



13.oil seal

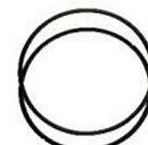
14.J-type packing



10. Push Rod



15.Distance Ring



16.Side seal



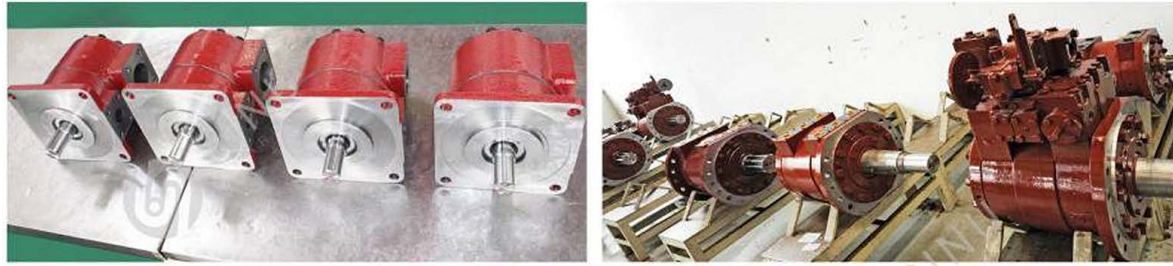
11.spring



9.Rocker Beam



12.shaft



6N SERIES OIL PUMP

6N-33/41/48/57/67, 66N-4848, 66N-5767, 6N-6767VK, 6N-57VK, 6N-67VS



IHI Crane SPARE PARTS



Oil cooler

Oil cooler Dwg.No.1223-042-533

Oil cooler Type:545-21,Dwg.No.F1-6403-B,Code No.6971424B

Oil cooler Type:680(22), Dwg.No.F2-8387 ,Code No.6971428



Pressure Test Box



hydraulic hose

Fiter V80A

(Dwg.No.F2-6035-E,Code No.6965007,6965000E)

Fiter V100A

(Dwg.No.F2-7005-D,Code No.6970272)



Sheave

	A	C	D	E	R
620(26)	620	53	700	68	15
710(34)	710	55.5	747	62	19
760(38)	760	74	870	86	22

BEARING CODE	#	B	1W(M)	SINGLE SHEAVE DWG No.	DOUBLE SHEAVE DWG No.	TRIPLE SHEAVE DWG No.
60 # 10022	95	120	73.1	F3-9227-D	217 141.6	F3-9228-B
6073002(#2302B)	115	134	116.9	F3-10582-C	245 228.4	F3-10583-B
941213C (#2303D)	135	142	160.4	F3-9512-D	261 314.2	F3-9513-C
						380 467.8

	A	C	D	E	R
620(26H)	620	53	700	68	11
710(34H)	710	55.5	787	82	19
760(38H)	760	74	870	86	22

BEARING CODE	#	B	1W(M)	SINGLE SHEAVE DWG No.	DOUBLE SHEAVE DWG No.	TRIPLE SHEAVE DWG No.
60 30C1 (#2302J)	95	120	73.1	F3-9228-D	217 141.6	F3-10591-B
6073002(#2302E)	115	134	116.9	F3-10585-C	245 228.4	F3-10586-B
941213C (#2303D)	135	142	160.4	F3-9511-D	261 314.2	F3-10593-A
						380 467.8

USED POINT OF "H" MARK SHEAVE

The diagram illustrates the 'H' mark sheave, which is used as a reference point for marking the crane deck. It shows a cross-section of the sheave with dimensions A, C, D, E, and R. The 'H' mark is indicated by a dashed line. Below the main diagram, there are three smaller diagrams showing different views of the sheave unit, labeled 'JIB TOP', 'SIDE VIEW', and 'FRONT VIEW'. The 'JIB TOP' view shows the sheave unit from above, with dimensions A, C, D, E, and R. The 'SIDE VIEW' shows the sheave unit from the side, with dimensions A, C, D, E, and R. The 'FRONT VIEW' shows the sheave unit from the front, with dimensions A, C, D, E, and R.

A large yellow pulley (sheave) with a central hub and multiple grooves for rope. The pulley is shown from a side-on perspective, highlighting its robust construction and the arrangement of the grooves.

Technical drawings of the sheave unit, including side and front views, and a detailed view of the 'H' mark point. The side view shows the pulley with dimensions A, C, D, E, and R. The front view shows the pulley with dimensions A, C, D, E, and R. The detailed view of the 'H' mark point shows the pulley with dimensions A, C, D, E, and R. The 'H' mark is indicated by a dashed line.

D	AUG.23	SHEAVER#102 (C.F.P.)	
NO.	1002	DESCRIPTION	
SCALE			
OUT	1:1	MARK II DECK CRANE	2IN TYPE
DESIGNED BY			
CHECKED BY			
APPROVED BY		SHEAVE UNIT	

Logo of the company, featuring the letters 'HMC' in a stylized font.

HYDRAULIC MACHINERY
DESIGN GROUP

STANDARD
F3-10725

IHI Crane Hydraulic Pump



- | | |
|---|-------------------------------|
| 1 | T6ED-057-042-1R00-B1-J224 |
| | T6E7EDC-057-042-005-1R36-A1MO |
| 3 | T6EC-062-020-1L15-B1-J224 |
| 4 | T6ED-057-042-1L00-B1-J224 |
| 5 | T6EC-062-022-1R00-B1-J224 |
| 6 | T6EC-057-017-1L15-B1-J224 |

IHI Crane Hydraulic Valve

NO	Name	Type
1	Solenoid controlled relief valve	R5V12-393-32-09-W21-A1(Parker)
2	Solenoid controlled relief valve	R5V08-593-32-09-W21-A1-008(Parker)
3	Relief valve	R5V12-393-32-A1-232(Parker)
4	Relief valve	R5V08-591-32-A1(Parker)
5	Relief valve	LB-50-Z1-11(Yuken)
6	Relief valve	DG-01-2203(Yuken)
7	Solenoid valve	DSG-03-2B2-A100-50(Yuken)
8	Solenoid relief valve	LBS-50-2-A100-11
9	Throttle check valve	MSW-01-Y-50(YUKEN)



Pressure switch:TDZ-4

IHI Crane Link unit (Table of geared cable)



TABLE OF		4REO	WABLE
	CODE NO	UHI NO	L. Ma
	HOISTING	6063700	F2 505"
25'	LUFFING		150
	SLEWING		3000
	HOISTING		3300
30'	LUFFING		
	SLEWING		

IHI Crane Brake cylinder / seal kits / Band Brake

Hoisting brake cylinder DW.F3-9471
Luffing brake cylinder DW.F3-10721-A
Slewing brake cylinder DW.F3-10461



IHI Crane Gear Box

ISK Gear Box :TPGV-7S(A) , Gear Box SP-9A(S), Gear Box DPGV-7S(A2),

CARGO BLOCK

- 1.) BB/SB+C TYPE F2-8128-A,Dwg.No.C3-55116
- 2.) 30TonHOOK V2 TYPE Dwg.No.F3-8390-A

2.2 Middle-pressure motors with controllers which are used on anchor winch consist of HL, HK and HN 3 models , the displacements and specifications of each model are different .



Our company supply the complete motors, as well as the motor housings, rotors, blades, motor shafts, controllers, seals and other maintenance parts.



HPS\HPD middle-pressure vane pump

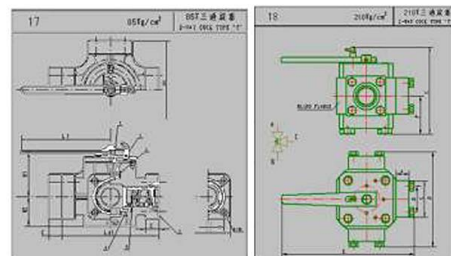
HPS series are single pumps, consist of 8 six models : HPS3, HP4, HPS5, HPS6, HPS7, HPS.

HPD series are double pumps, consist of eight models : HPD4-3, HPD4-4, HPD5-4, HPD6-5, HPD7-6, HPD7-7, HPD8-7, HPD8-8.



Middle and high pressure three-way plug valve

The medium pressure three-way plug valve has 65, 80, 100 three diameter specifications, and the high pressure three-way plug valve has 50 and 65 two diameter specifications.



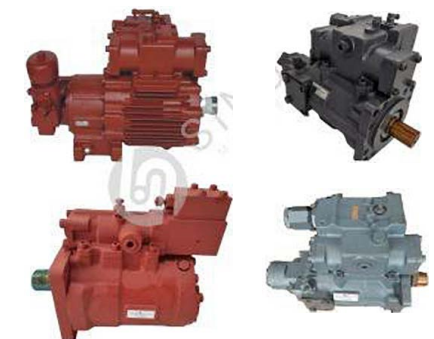
Hydraulic motor for repair i su is i crane an windlass

Name	Type
motor	AMC-30A-0-31
motor	AMC-30A-0-41
motor	AMC-30A-M2-31
motor	AMC-30A-M-31
motor	RMC-210A-L-22Y
motor	RMC-350A-L-22Y
motor	RMM-210-84A-L-22PD
motor	RMM-350-105 A-L-22 VD
motor	TMC-55A-M
motor	TMK-33A-M
motor	M35A-SM1-21Y

2 SPEED VALVE ML3501-103-1	SLEEVE	Piston ring	Oldhams coupling	PISTON ASS'Y	CYLINDER BARREL ASSY	VALVE PLATE(A)
DRIVE SHAFT	GEAR BOX ACB50-197	GEAR BOX MRP1743W-315	SEAL BOX	SPRING D3F6103100	Steel Plate HNC3353400	Flection Plate HNC3353300

HYDRAULIC MOTOR SPARE PARTS

NO	Name	Type	NO
1	pump	1V-FH2B-MK-RFBLA20D11	MKV-11ME-RFA-C1-L-11
2	pump	3V-FH2B MK-RFBLA52D11	MKV-23A-RFA-X10-L-11
3	pump	6V-FH2B MK-RDBLA100D11	MKV-23H-RFA-C10-LQ-11
4	pump	06V-FH2B-MK-RFBLA12D11	MKV-33A-RFA-X10-L-11
5	pump	MKV-11A-RFA-X10-L-11	MKV-33H-RFA-X10-L-11
6	pump	MKV-11H-RFA-P11-Q-11	MKV-33ME-RFA-CP
7	pump	MKV-11H-RFA-X10-LQ-11	MKV-11ME-RFA-C-LQ-11





► MITSUBISHI CRANE

Bearing



Pressrue test box

Flexible joint:KX-65Z
KX-80Z



Filter
Dwg.No:3924-182-3

Limit switch:WLC2-2N
Z-10FM22Y-B



Sheave

Oil cooler



Brake cylinder seal
brake cylinder for 1200 kg
brake cylinder for 1600 kg
brake cylinder for 2200 kg



Brake cylinder

*T6ERY 045 XR03 W42 A1 M249828
* +T6ED 045 045 3R03 B1
*T6ERY 060 XR02 W42 A1 M258228



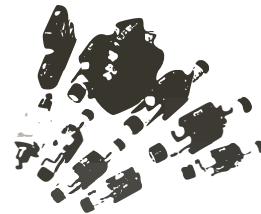
T6EC 052 025 1L01 B1
T6E 052 1R00 B1



Pressure Control Valve QB-G10



T7EEC 052 052 025 2L34
A1M070



Relief Valve RD1-02GHD-331



T6EE 062 052 2L14 A13M0
+T6CCM B25 B20 3L03



D3W020BNYW42
(110V50HZ-120V60Hz 0.8A
-0.72A)



4WE10D-AO/AW100-0007X6



STOP VAVLE



Pressure control valve
QB-G06-42-21



RELIEF VALVE R-G10-3-20



4WE10D-AO/AW100-00



► Staffa Hydraulic motor For windlass

HMC080/S	HMC100/S	HMC125/S	HMC200/S	HMC270/S
HMB080/S	HMB100/S	HMB125/S	HMB200/S	HMB270/S
HMKC080/T3	HMKC100/T3	HMKC125/T3	HMKC200/T3	HMC270/T
HMKB080/T3	HMHDB150/PV	HMJC200/T	HMKB200/T3	HDB400/P



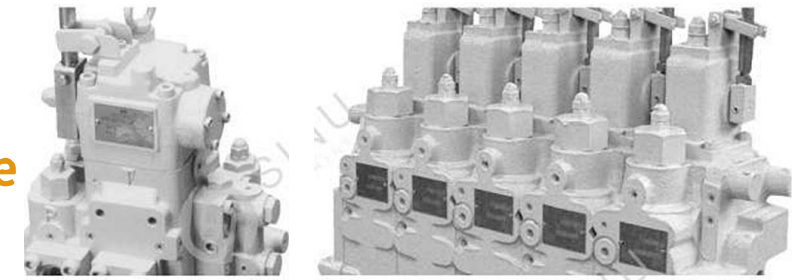
STAFFA HYDRAULIC MOTOR SPARE PART

 Q/404:PISTON SEAL RING P/483 PISTON SEAL BACKING RING	 GF/405:SHAFT SEAL RINGGG/471 SHAFT SEAL BACKING RING	 R/405 VALVE SEAL RING	 N/206 RESTRICTOR SCREW	 BU/499 & BT/498 Oring Retainer
 Seal Kits/ Shaft seal AA/417	 109/GI C-Spacer	 K/301 OLDHAMS COUPLING	 AG/305.SHIM-AG	 B/103 FRONT COVER
 4/410, REAR BEARING W402. FRONT BEARING	 205/M.CON-ROD RETAINING RING	 GQ/211 Rear Spare Plate GP/254 Front Spare Plate	 CA/253.SHAFT SLEEVE	 Bolt

Hydraulic valve



Motor Control Valve



Hseries

(Pressure compensating control valves directly connected with motors)



Application motor	Basic model [HS]	Size [08]	Spool function [A]	Counter balance valve — [CB]
- MRH-1500 - MRH-2200 - MRH-3150 - MRH-4400 (Made by KYB) - RMC-210 - RMC-350 (Made by Mitsubishi Heavy Industries) - HMC-125 - HMC-270 (Made by STAFFA)	[HS] For series circuits [HSR] Spring return for series circuits [HP] For parallel circuits [HPR] Spring return for parallel circuits	[08] Size 25A [12] Size 40A	[A] A . B blocked [C] A . B . T open [L] A . T open 	[CB] B port attachment [CA] A port attachment [CW] Both port attachment

【Automatic speed switching valve 2 HL】

• When the pressure on the motor side reaches the designated pressure, this valve performs automatic 2-speed switching by changing the direction in which the pilot pressure is applied. In addition, it is self-sustaining, so that once the pilot pressure is switched to the low-speed (high capacity) side, it will not return to the high-speed (low capacity) side until the pressure drops below the designated level.

【Automatic speed switching valve with compulsory low-speed mode 2HLP1】

• When pilot pressure is applied to the PP port, the Compulsory Low-Speed switch functions the same as the automatic speed switching valve. If the PP port's pilot pressure is connected to the T (drain) port, the valve operates in low-speed mode.



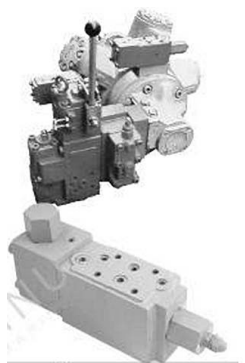
2 speed valve



Balance valve



Receiver control system RD-*



Hydraulic remote control
2RP-.*.*



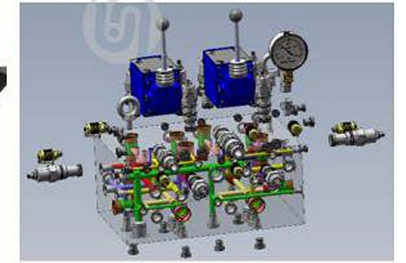
► TOKIMEC Hydraulic part for Hatch cover

 One way restrictor 单向节流阀 TNFCG-02-315-20 TNFCG-04-315-20 TNFCG-06-315-20	 节流阀 TNFG-02-315-20 TNFG-04-315-20 TNFG-06-315-20	 叠加型溢流阀 Pressure relief modules TGMC-5-BT-GW-50-S60 TGMC-5-PT-GW-50	 叠加式单向阀 Direct check modules TGMDC-5-Y-PK-50
 Check valve C2G-805-JA-11 C5G-815-JA-11 C5G-825-JA-11	 液控单向阀 C2PG-805-11 C5PG-815-JA-11 C5PG-825-JA-11	 电磁阀 DG4V-3-2c-u-H-100 DG4V-3-2AL-M-U7-H-7-54 DG4V-5-2A-M-PL-T-6-40	 Relief Valve CG-03-B-15-S81-JA RCG-03-F2-22-JA-S132-J
 Pilot operated check valve THPCG-03 THPCG-06	 Pump:PVE19RWQ1830-1--30-CC-11-JA-S20	 Directional control valve DG17V-7-2C-1-10-JA-S9 DG17V-7-4C-1-10-JA-S9 DG17V-7-6C-1-10-JA-S9 DG17V-7-33C-1-10-JA-S9	 Directional control valve DG17S4-012C-JA-25 DG17S4-016C-JA-25 DG17S4-0133C-JA-25



► TTS Hatch cover parts

Control valve stand A :
Dwg. No.43954945
Dwg. No.43955246
Dwg. No.43955247
Control valve stand B :
Dwg. No.43954946
Dwg. No.43957726
Dwg. No.43958751
Dwg. No.43957016



CONTROL BLOCK



Vane pump SQP-SQPS series



Filter

NDVG-06R-12



HATCH COVER CYLINDER



OIL JACK



SEAL KITS FOR CYLINDER/JACK



Hydraulic fittings



Quick couplings



Quick couplings

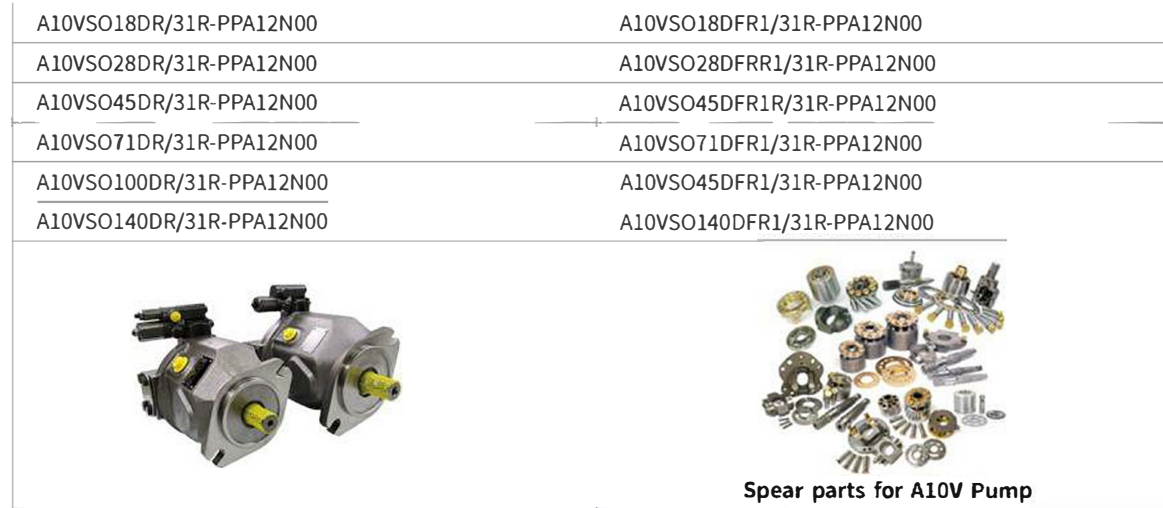


HOSE FOR HATCH COVER

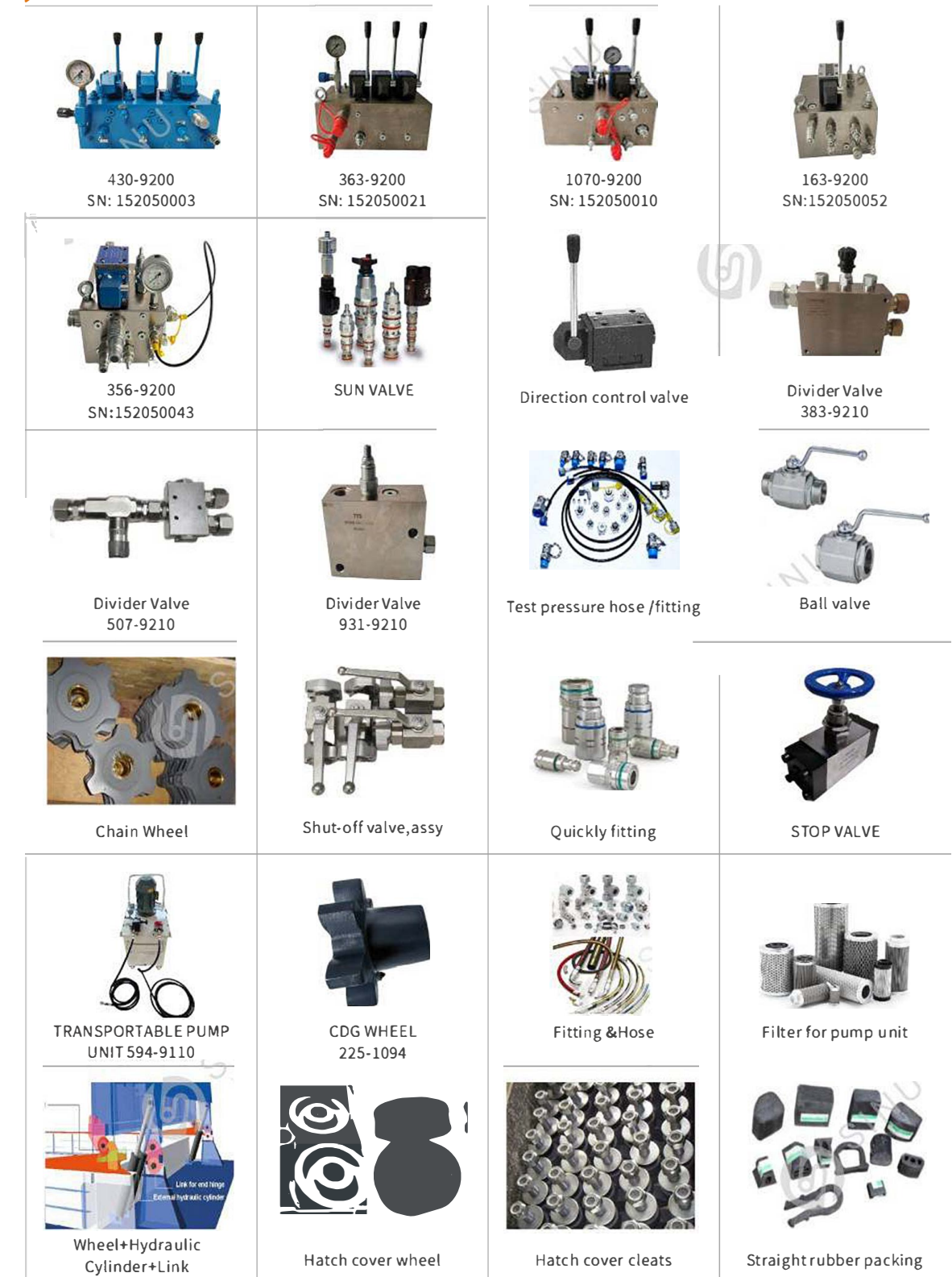
Hatch cover parts FOR TTS



Hydraulic Pump for TTS hatch cover

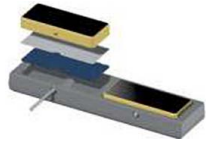


Control valve block & valve





Rubber packing corner
and ends



Pads holder, shim plates
and balance rubber



Drain valves



Drain valves



► SPARE PARTS FOR TTS & KOCK ` Windlass & Winch



Counter Balance Valve LBV17 SO1"
SN: 152050032



Counter Balance Valve
LBV25 SO1-1/4"
SN:152050034



Check Valve for LBV17&LBV25
SN: 152050044



Relief valve
SN: 111600014

CSH Control blocks 40/32 and 25/20



control block NG25-20-MF(OF) -SN:152050048
Control block NG40/32; SN: 152050049



Hydraulic Motor+Brake Cylinder+Gear Box
Dwg.No.03-154.324-0



MOTOR: A6VM080HD1 ; A6VM107HD1;
A6VM160HD1; A6VM200HD1



INDISK FOR Brake Cylinder



OutDisk FOR Brake Cylinder



Uchida-Rexroth



Gear pump:
GPP1-A0C63A1R-113
GPP1-AOC50A1L
GPP1-FOE63A1R-113



GSP2-AOS12AR-AO
GSP2-AOS16AR-AO-942-0



GSP2-B1A16ARAO-753-0



GXP0-A0D35WL TB10ABL-21
GXP05-A1C63WBTB45ABR-20
GXP05-AOC52ABR-20
GXP10-C0C80WBTB800LPL20ABL-20



KAWASAKI

Series B4



30~700 L/min
Capacity

N Lead 13.7 MPa (140kgf/cm²)
Max. working pressure L Lead 20.6 MPa (210kgf/cm²)

油種によって最高使用圧力は異なります。
12ページの最高使用圧力図をご参照ください。
The maximum working pressure depends on kind of oil.
Refer to the maximum working pressure on page 12.

NO	Name	Type	NO	Type
1	Screw pump	B45-4L5KLTT	3	B60-4L5KLTT / 4L4KLTT
2	Screw pump	B52-4L5KLTT	4	B70-4L5KLTT

Silent and High-pressure Swash Plate Type

K3VG Series

NO	Piston Pump	Piston Pump
1	K3VG112-100RSV400	K3VG180-10FR-400
2	K3VG180 DT-10FRS-00T3-0	K3VG180-10NRSV4L 00
3	K3VG180100RSV10H2	K3VG180-11FRS-0E00
4	K3VG180 DT-10FRS-00T3-0	K3VG180DT-10FRS
5	K3VG 280DT-10 FRH-0000-0-T019	K3VG280-1-0-N-R



SPECIFICATIONS

size	63	112	180	280	180DT	280DT
— displacement cm ³	63	112	180	280	180DT	280DT
pressure MPa(kgf/cm ²)	34.3(350)					
rated *1	34.3(350)					
max.	39.2(400)					
peak	39.2(400)					
speed min ⁻¹	1,800	1,200	1,800	1,200	1,800	1,200
max. for self-priming	2,600	2,200	1,850	1,600	1,850	1,600
max. *3	3,250	2,700	2,300	2,000	2,300	2,000
Maximum allowable total input torque N·m	314	559	902	1,400	1,804	2,800
mass kg	48	68	86	160	160	300

Load-sensing Circuit Swash Plate Type

K VL Series



The Kawasaki K3VL series swash-plate type axial piston pump is a heavy duty variable displacement hydraulic pump newly developed for mobile and industrial applications. The K3VL pumps are based on the proven design of the K3V and K3VG pumps whereby the controls and general construction have been optimized for load-sensing and pressure-constant requirements.

SPECIFICATIONS

size	28	45	60	80	112	140	200
displacement cm ³	28	45	60	80	112	140	200
pressure MPa	32	32	25	32	32	32	32
pressure (kgf/cm ²)	35	35	28	35	35	35	35
speed min ⁻¹	max. for self-priming*1	2,600	2,700	2,400	2,400	2,200	2,200
mass kg	max.*2	3,000	3,250	3,000	3,000	2,700	2,500
Quantity of oil to fill pump case	L	0.6	0.6	0.6	0.8	1.5	1.5
Maximum allowable total input torque Nm		155	230	230	410	1,020	1,020
SAE A		123	123	123	123	123	123
SAE B		155	290	290	340	340	340
SAE B-B		-	290	290	400	550	550
SAE C		-	-	-	400	700	700
SAE D		-	-	-	-	700	700
SAE E		-	-	-	-	-	990
Temperature range °C					-20~95		
Viscosity range mm ² /s					10~1000*3		

Axial Piston Pump

NO	Steering Axial Piston Pump	Piston Pump
1	LV-030-410R10	K3VL112B10RKM PO
2	LV-060-410R10	K3VL140-A-10RMM-PO
3	LV-090-410R10	K3VL140-B-10R-JM-PO
4	LV-120-410R10	K3VL200B-1NRXX
5	LV-180-410R10	KK3VL112A1NRKM-L1
6	LV-500-410R10	



Hydraulic Motor

Type: M3X530APN-014A

Type: M3X530APN-467-018A

Type: M3X530APN-485-012A

Type: M3X530BPM-485-001A-D3

Type: M5X180CHB-12A-51A-260-169

LVP180-110R1-R1600H

LVP260-110R0AR1120

LX-060-0M01000



Hydraulic motor

NO	Name	Type
1	motor	SB506BM-100
2	motor	SB508V3-100/45
3	motor	SB508V3-110
4	motor	SB540BM-100/035M
5	motor	SX505BM-110T
6	motor	SX505BM-120
7	motor	SX50BCM
8	motor	SX510BM
9	motor	SB510V3-100/25



Balance valve

KCB25EAE/5/210
KCB25EAE/5SD/210-FX
KCB25EAE/7D/250-FX
KCB25EAE/7SD/210-FX
KCB25EAE/7SD/230-FX
KCB40EAE/7SB/230-FX
KCB40EAE/7SB/245-FX
KCB63EAE/5SB/245-602
KCB63FAE/4SH
WKCB40AE/1S



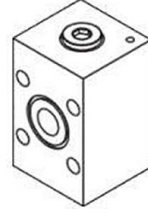
Kawasaki Control valve

KWV22.32PS-PG-30	KWV22PS-30-PCJ31	KWV32PM-30-PCJ31-200-170-FX	KWV32PS-30-PCJ31	KWV32SG-30-PC80-FX
KWV32SM-30-PA81-FX	KWV32S/S-30-PC10	KWV32S/S-PC-02-LL	KWV32S/S-TC-02+ESB-LL	KWV42PG-30-PC/260/225-FX-2
KWV42PM-30-PAJ31-260/225-FX-2	KWV42PM-30-PAJ31-320/280/180-FX3	KWV42PM-30-PAJ31-420/325(100)-FX3	KWV42P/M-PA301	KWV42P/S-PC301
KWV42SG-30-PC30-FX	KWV42SM-30-PA30-FX	KWV42SS-30-PC10	KWV42SS-30-PC80-FX	KWV42SU-30-PC20-FX
KWV63PS-CPJ120/650/614298	KWV63PS-CPO+MR30	KWV32S/S-PC 3 02		



STOP VALVE FOR WINDLASS

SVH40H-G; SVF40H	81SVP22-32+81SMB1655G	81SVP42-50;SVP42-50	81SVPH7332;SVPH7332
SVF50H;	81SVPH6332+81SBM1655G	81SVP8050;SVP8050	81SVPH7340;SVPH7340
SVF50H-G	HG-B-K-10-S-20P (81HGBK10S20P)	SVF32H	81SVPH7350;SVPH7350



HMKC+KWV+KCB series 51-CHECK VALVE UNIT

HIC-FJ15-A-04-12-M+HIC-FJ50-B-04-12-M+JB(8140330750) +SSA-50 C30P-10-80-D01 + HIC-FJ15-A-04-12-M
C52P-10-80-D01+HIC-FJ15-A-04-12-M+JB81781600510)+SSA-50 HIC-FJ15-A-04-12-M+HIC-FJ40-B-04-12-M+JB(8140330751))+SSA-40



20-SB REGULATOR

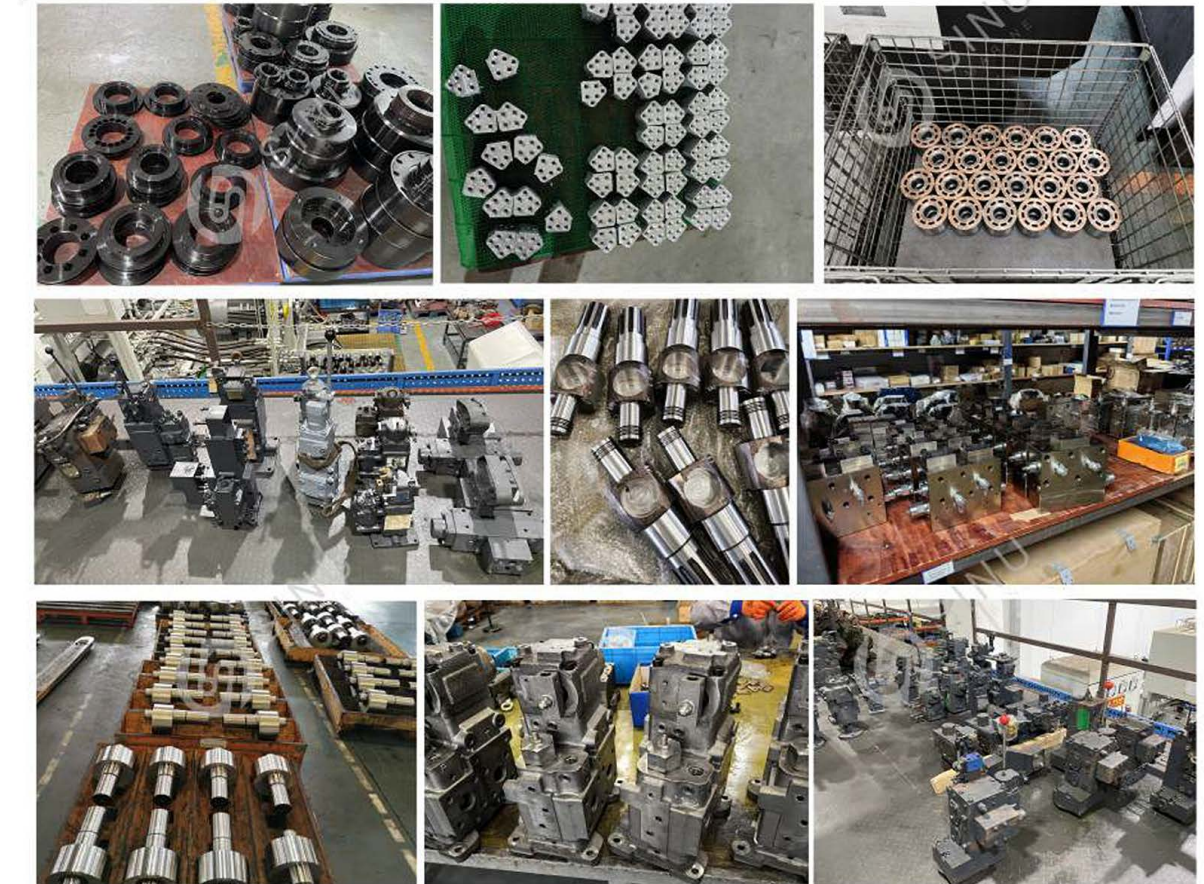
69R231070 69R131150	69R231100 SR131-070	DHSR231070	30-selector valve 4394-K10	31-SUBPLATE 81VPCHPA-1
11-BLIND FLANGE 698C163-911	11-JOINT BLOCK 81JBSBB-1	12-DRAIN PIPE 78170-0249	12-REDUCER 81RHMK25	13-FLANGE OMSHA20
41-NIPPLE 81RMMK	42-REPLENISH PIPE 8140324648(3CR)	42-REPLENISM PIPE 8140320122(2CL)	42-REPLENISM PIPE 8140320124(8CL)	51-FLANGE 81LF7332
12-DRAIN PIPE 8140326199	12-DRAIN PIPE 8140328779	83-MANIFOLD 235172A	52-FLANGE 81LF6340	51-FLANNGE 81LF7340
12-REDUCER+CHECK VALVE 81RMMK+HIC-FJ20-B-04-12-M	82-SELECTOR VALVE HG-B-10-S	81-Relief valve RB30C-10-2.315-L39	56-AUTO TENSION STOPPER	52-FLANGE 81LF6332

Relief Valve

RB10P;RB35P	RB30C-10-2/315-L39 RD30C-10-2-100-L01-75-250	EV-009F; EV-009G
RELIEF VALVE UNIT CWSR-140	Valve unit CWSR-2	RB30P-10-2-315X-H100.8

Solenoid valves DE, DEH

DE6P-30-204-WA200AL	DEH22P-10-207D-2DA200AL-L71-W1	DE10P-10-210-D200AL-L94
DE10P-10-210-DD24AL-L70	DEH16P-97-207-2DD24ALQMABG24-L67(1181)	DEH16P-90-207-2DD24AL-L70
DE10P-10-207-DD24AL-7L5	DEH32P-10-207D-2DA100AL-L71-W1	DEH10P-90-207-2DD24ALQMABG24-L67



KYB HYDRAULIC MOTOR

NO	Description	model	weight (kg)	NO	Description	model	weight (kg)
1	motor	MRH-500	78	9	motor	MRH-5200	520
2	motor	MRH-1000	165	10	motor	MRH-6200	520
3	motor	MRH-1350	165	11	motor	MRH2-750	132
4	motor	MRH-1500	165	12	motor	MRH2-1500	190
5	motor	MRH-2200	225	13	motor	MRH2-2200	250
6	motor	MRH-3150	280	14	motor	MRH2-3150	315
7	motor	MRH-3600	372	15	motor	MRH2-4400	408
8	motor	MRH-4400	372	16	motor	MRH2-6200	545



KYB HYDRAULIC MOTOR SPARE PARTS



KYB MAG HYDRAULIC MOTOR

Description	Model
Motor	MAG-85-VP-1200TEC
Motor	MAG-85VP-1200-4
Motor	MAG-170VP-3600-4
Motor	MAG-230VP-3000-3



KYB MAG Series Motor Parts
MAG

2 Speed Valve and Pressure Constant valve

2 Speed Valve	Pr	Selector Valve
VTS-21.	VPC-W6,20950-37200	VSL-31
VTS-31	VPC-WTL5	VSL-34
HSSV-02	VPC-MTL1	VSL-35(D)
2HL;2HLP1	VPC-WT6	S-02
2HS-W	VPC-WTL6	SB-1



Pressure compensating control valves

FDM04AAS	FDM06CC1	FDM06CCSE	FDS06ACLSE
FDM08ACS	FDM08CCS1E	FDM12CBS3	FDS08ACS
FDM12ACSE	FDM12CCMRS	FDM12CCLMRS	FDS12ACS



Control Valve Spear Parts

E2E-X3D1-N PROXIMITY
SENSOR



Relief Valve



Cover for vavle

FLOW LIMITER DML



Counter Balance Valve

MCR06	MCR12-F-H	CB-08	HCB-08	CBC-08
MCR08	MCW06	CB-12	HCB-12	CBC-12
MCR12-F-L	MCW08	KHCB	HCB-12MH	CBC-12-W



Denson Gold Cup Seres Piston Pump

		Type		Name	Type
1	pump	PV016R1K1T1NMMC	11	pump	P6P 2L1C 5A2B
2	pump	PV028R1K1T1NMMCX5830	12	pump	P6P 2R1C 2H2 B
3	pump	PV032R1K1T1NMMC	13	pump	P6P 2R1C 6B2 B
4	pump	PV046R1K1T1NMF5830	14	pump	P7P 8R1A 9A2 B00 M285291
5	pump	PV063R1K1T1NMFCX5950	15	pump	P7P 3R1A 5A2 B M2 04381
6	pump	PV140R1K1T1NMR1	16	pump	P7R 8R1A 9A2 B00 M285291
7	pump	PV180R1K1T1NULA	17	pump	P11P-2R1A-9A4-A00-0A0
8	pump	PV270RIKITINFFP	18	pump	P11P-2R1A-9A4-A11
9	pump	PV62R1EC02	19	pump	P16H5L1DH1PM0
10	pump	PVP16364R2M12	20	pump	HMRDE5400L2908N1N1N1N1N



RELIEF VALVE+SOLENOID VALVE



PVAC1ECMNSJW35

PRESSURE CONTANT VALVE



PVCMAMCN1

Hydraulic Motor F11/F12 /MR / HMRD

F12-030-MF-IV-D-000-000-0	F12-030-MF-IV-K-000-000-0	F12-060-MF-IV-D-000-000-0
F12-080-MF-TV-D-000-000-0	F12-080-MK-IV-K-000-0000-P0	V14-160-IVC-E0H3N-N000
TF0100AM050AAAA	MR2800I-F1N1N1N1NX050058635	HMRDE5400L2908N1N1N1N1N



Parker F11/F12 Series Spare Part



ParkerP Series Pump Parts PV270



Solenoid Direction Valve

D1VW4CNTWFK4002608	D1VW006KNJW91	D1VW020DNTWK400	D1VW0200HNJW91
D1VW4CNTWFK4002608	D1VW020BNJWD3W020	DNJW42/24V	



Solenoid relief valve

R5V12-393-32-09-W21-A1(Parker),
R5V08-593-32-09-W21-A1-008(Parker)
R5V12-393-32-A1-232(Parker)
R5V08-591-32-A1(Parker)

Hydraulic pump for Crane

Control valve For Windlass& Winch		Pilot control valve For Tsuji Crane	
DME20F-20A13000	DME25F-20A10002-969-0	DHP32F20B10000-953-0	DHP32F20E10000-959-1
DME32F-21A10002-970-0	DME50F-20A10002-969-0	DHP32F21E10000-947-0	DHP32F21E10000-947-1
DHP50 F21- P10000-945-1	DHP40 F21 P10000-952-0	DHP40 F21 E10000-945-0	DHP40 F21 E10000-949-0
		DHP50 F21- P10000-946-1	DHP50 F21- P10000-954-0



Polit Check valve
CP3D-10G-C-341



Gear Pump
GSP2-B1A16ARAO-753-0



GSP2-AOS12AR-AO
GSP2-AOS16AR-AO-942-0



Relief Valve
RD-7400-994-0

Hydraulic Motor For Crane



A6V500HD6.2FZ2



A6V225HD2FS2
A6V172HD6.2FS21000-913-0



A2F250W5S8



A2FM180/6.1W-SB08
A2FM80/61W-VUB010



A2F80W2S8



A2F160WS8



A2F107W1S8-990-1



NCB180-GS6001
NCB180-GS6004



A2F172L6.2P3-999-0



A4VG180HDD1/32 +GSP2-16-980
A4VG250HDD1/32R-NSD10
K011E+GSP2-B1A16AR-AO



PFXS-180-M-L-00-0000-000



A2F182R1P3UV
A2F182L1P3

A2F160L2P3UV

A2F225R1P3

A2F250L5P2

GSP2-AOS12AR-AO

Counter balance valve For Crane



RF2E32J10A1B-J
RF2F32J11-1B-J



RF1C32J10B1AM-899-0
RF1D32J10A1AM-848-0



RFD32J10B1AM-838-0
RF1C32J10B1AM-978-2L-62



RF2B25J10B1BM-99-1L-14
RF2B25J10B1BM-915-0-0L-72



CW300AS305



CW300AXS312



CW300BAS219



C100Z; SN: 150290002
C100Y; SN: 150290008

NO	Name	Type	NO	Name	Type
1	Pilot control valve	DHP40 F21 E10000-949-0	15	RELIEF VAVLE	MO-7005-926-0
2	Pilot control valve	DHP40 F21 P10000-952-0			DBDS6KAO/100
3	Pilot control valve	DHP50 F21- P10000-945-1	17	RELIEF VAVLE	RD4-02G-330
4	Pilot control valve	DHP50 F21- P10000-946-1	18	RELIEF VAVLE	RD-7400-994-0
5	Pilot control valve	DHP50 F21- P10000-954-0	19	RELIEF VAVLE	MO-7005 1
6	Pilot control valve	DHP32F20B10000-953-0	20	RELIEF VAVLE	RV1-8-C-0-50
7	Pilot control valve	DHP32F20E10000-959-1	21	RELIEF VAVLE	DRC30-5-5X/50Y
8	Pilot control valve	DHP32F21E10000-947-0	22	RELIEF VAVLE	ZDR6DP2-3*75YM
9	Pilot control valve	DHP32F21E10000-947-1	23	RELIEF VAVLE	DR6DP2A*/75YM
10	Pilot control valve	DHP40 F21 E10000-945-0	24	Proportional directional valve	3DREP6C-AO-25A24 NZ4-M
11	SOLENOID OPERATED VAVLE	4WE6Y-6*MO/AW110NZ5L	25	Proportional directional valve	3DREP6C-AO-45A24 NZ4-M
12	SOLENOID OPERATED VAVLE	4WE6D-60MO/AW110NZ5L	26	Proportional directional valve	4WRA10W40-1024NZ4M
13	SOLENOID OPERATED VAVLE	4WE6J-6*MO/AW110NZ5LB08	27		
14	SOLENOID OPERATED VAVLE	4WE6G-6X MO/AW110NZ5L	28		



Balance valve



Direction control valve 2RE7L05-13-986-0



Joystick valve 4TH7A14-1

51	MANI.BLOCK 1	
51-1	REDUCING VALVE	DRC30-5-5X/50Y
51-2	4WAY PROPO.VAVLE	4WRH16E150-90/M-978-0
51-3	RELIEF VAVLE	MO-7005-926-0
51-4	MINI.CHECK (COUPLING)	100-52 000
51-5	SOLENOID OPERATED VAVLE	4WE6Y-6*MO/AW110NZ5L
51-6	RELIEF VAVLE	DBDS6KAO/100
51-7	THROTTLE VAVLE	NFDC-LAN
52	MANI.BLOCK 2	
52-1	SOLENOID OPERATED VAVLE	4WE6D-6*MO/AW110NZ5L
52-2	RELIEF VAVLE	ZDB6VP2-3*/100
52-3	REDUCING VALVE	ZDR6DP2-3*75YM
52-4	MINI.CHECK (COUPLING)	100-52.000
52-5	REDUCING VALVE	DR6DP2A*/75YM
52-6	GAUGE BLOCK	ZP6-004
53	MANI.BLOCK 3	
53-1	LOGIC ELEMENT	LC32A05D5*
53-2	SOLENOID OPERATED VAVLE	4WE6D-6*MO/AW110NZ5LB12
53-3	RELIEF VAVLE	RD4-02G-330
53-4	RELIEF VAVLE	RD-7400-994-0
53-5	MINI.CHECK (COUPLING)	100-52.000
54	MANI.BLOCK 4	
54-1	RELIEF VAVLE	MO-7005 1
54-2	MINI.CHECK (COUPLING)	100-52.000
55	V.MOTOR	
55-1	VARIABLE PISTON MOTOR	A6V500HD6.2FZ21780-927-0
55-2	SOLENOID OPERATED VAVLE	4WE6J-6*MO/AW110NZ5LB08



Tsuji for steel hatch cover



Control valve stand
Dwg.No.VPA57646G;43950893,NS990152;
NS990346,NS990512;NS990581;NS990582
NS990583;NS990684, 43961116
T7-715-8-301,



MANUAL VALVE
NDVG-06R-13



Flow control valve
TFNG-02-315-20-S1
TFNG-04-315-20-S1
TFNG-06-315-20-S1



Direction valve
DG17S4-0133C-JA-25
DG17S4-012C-JA-25
DG17S4-016C-JA-25



Stop valve: HF-1280-25-11
HF-1280-32-11
HF-1280-40-11



Gauge Valve
GTKL-02W



Stop valve SGK-03H
Gasket Type Stop Valves
HG-4211-K-10J-23 -5



Check valve
C5G-815-JA
C2G-805-JA-11



Needle valve
GNT-02-203
Dwg.No.ES-11022



Pilot check valve
THPCG-03-C-10
DGMPC-5-(D)AB
THPCG-06C-10



Pilot operated
check valve
C2PG-C5PG



Check Valve
HIC-FJ25-B-04-11
HIC-FJ32-B-04-12
HIC-FJ40-B-04-12



Brake Cylinder HNBD 405M-505M
Brake Cylinder HNBD 704M-07
& HNBD 703M-04
Brake C linder HNBD 805M-04



Oil cooler:227659



HUB
PN: 32701555;
PN: 32700803
PN: 32700500



SN: 111770056
SN: 111770057
SN: 111770058



Filter:P-GW-2-10μ,
M24-020P-B 20μ



Reduction Gear BOX
MRP1742W-500
MRP1743W-355-80



Outer&Inner Disk / COIL SPLING



Reduction Gear (Slewing)
MRP1744D-355

VANE PUMP FOR CRANE & WINDLASS & HATCH COVER

► DENISON VANE PUMP

Name	Type	Name	Type
1 Vane pump	T6C 017 3R01 B1 J97	21 Vane pump	T6EE 045 057 2L03 A12MO J334+T6C 025 3L03 B1
2 Vane pump	T6CC 014 008 1R01 C110	22 Vane pump	T6EE 045 057 2L09 A1MO+T6C 025 3L03 B1
3 Vane pump	T6CC 017 008 5R03 B1	23 Vane pump	T6EE 052 052 2L01 A12 MO+T6C 025 3L03 B1
4 Vane pump	T6CC 025 020 3L03 C10 M	24 Vane pump	T6EE 052 052 2L03 A12MO J334+T6C 025 3L03 B1
5 Vane pump	T6CC 031 014 2R01	25 Vane pump	T6EE 057 057 2L14 A13MO+T6CC 025 017 3L03 C10M
6 Vane pump	T6D 045 1R02 B1	26 Vane pump	T6EE 062 045 2L14 A13MO+T6CCM B25 B20 3L03 D10M J97
7 Vane pump	T6DC 042 017 1R03-B1 J236	27 Vane pump	T6EE 062 052 2L03 A13 MO J334+T6CC 017 017 3L10 C100
8 Vane pump	T6E 052 1R00 B1	28 Vane pump	T6EE 062 052 2L14 A13MO+T6CCM B25 B20 3L03
9 Vane pump	T6E 052 1R02 A1	29 Vane pump	T6EE 062 052 2L14 A13MO +T7CC 022 017 3L03 C10M
10 Vane pump	T6EC 052 025 1L01 B1	30 Vane pump	T6ERY 045 XR03 W42 A1 M249828+T6E 052 3R03 B1
11 Vane pump	T6EC 057 020 1L15 B1	31 Vane pump	T6ERY 045 XR03 W42 A1 M249828+T6ED 045 045 3R03 B1
12 Vane pump	T6EC 062 022 1R00 B1	32 Vane pump	T6ERY 060 XR02 W42 A1 M258228
13 Vane pump	T6EC 066 003 1R03 B1	33 Vane pump	T7CC-022-017-3L03-C10M
14 Vane pump	T6ED 045 045 3R03 B1 J224	34 Vane pump	T7DS B35 1R02 A1M0
15 Vane pump	T6ED 052 045 1L01 B1	35 Vane pump	T7EDS 057 042 1R00 A1MO J224
16 Vane pump	T6ED 057 042 1R00 C1	36 Vane pump	T7EEC 052 052 025 2L34 A1M070
17 Vane pump	T6ED 066 045 1R03 B1	37 Vane pump	T7ES 052 1R03 A1
18 Vane pump	T6EDM 066 045 1R03 C1	38 Vane pump	T67ED 085 038 1R00 A1
19 Vane pump	SDV20-1B-12B-1A	39 Vane pump	VT6DY 028 1R02 B1
20 Vane pump	VP-30-FA3		



T6ED



T6EC



T6D



T6E



T6DC



T6C



T6CC



Cart.s&Cams



Shafts



Piston Pump

Pv6 2R1D C00 J343

P140 6R1C C50 00 M2

PV20 2R1D C00 J343

P260-2R1B-C10-00

PV29 2R1D C00 J343

P080

P200

P110



RELIEF VALVE

oid controlled relief valve

R5V12-393-32-09-W21-A1

R5V08-593-32-09-W21-A1-008



Relief valve

R5V12-393-32-A1-232

R5V08-591-32-A1



► MacGREGOR. Hatch cover Series Hydraulic Valve

Name	Type	Name	Type
valve	MSVSS-06A-40-CB2(Dwg.No.75973-51200)	Manual valve	DG17S4-012C-JA-20
valve	MSVSS-06A-60-CB2(Dwg.No.75973-51100)	Manual valve	NDVG-06R-11
valve	MSVSS-06F-60-MP1(Dwg.No.75973-51300)	Check valve	VCH-0401(Dwg.No.21300-30001)
Combination valve	COVKM-G02-TCNC-11	Check valve	VCH-series
Combination valve	COVKM-G-RSCC-11 (Dwg.No. ES-9655)	Check valve	Z1S6P1-3
Flow Divider	combnner assembly Dwg.33-30619	pilot operated check valve	MAP-01-4-4001
Flow Divider	Dwg.No.K102077	Relief valve	ZDB6VA2-3-320
Control vavle	DMG-01-3C4-1018	Throttle and check modular valve	FTC-M01-11 Dwg.No.ES11721
Control vavle	DM6P-10-105-L87	Throttle and check modular valve	TC2G-01-40
Control vavle	DM6P-10-210-L86	Stop Valve	HF-1280-25-11
Control vavle	MCG7-063Y21-2	Stop Valve	HF-1280-32-11-194
Control vavle	MCG9-063Y15-2	Stop Valve	HF-1280-40-11
Control vavle	MCG9-063Y21-2	Stop Valve	HG-4211-K-10J-23



Valve Group



Quick release coupling / shut off valve assembly SH25&SH40 / hydraulic Hose



AUXILIARY PUMP UNIT 40L MGH 12096-P-25-440-60-A / Hand pump Dwg.No.93-71100-42100



Jack and cylinder / seal kits - PFC / Composite spherical bearings

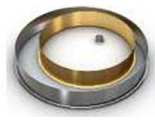


Hydraulic motor For Hatch Cover

HMB5-1.8	HMB5-2.3	HMB5-2.6	HMB7-4.0	HMM5-1.4	HMM5-2.3
M52P2001	M51P3001	M20-100	HMB100/T/FM3	HMB125/T/FM3	NP1-106
MRH-750-TWH	MRH-750TWHG	MRH-1500TWNCYAG	ME750 ABW	ME1300ABW	NP1-107



Motor Spare parts

				
Coupling Pins	Stuffing Box	Piston ring	Speedi sleeve	Seal kits
				
OLDHAM COUPLING	CASING, SHAFT	Pisnton ring	BLOW-OUT RELIEF VALVE SN: 120100022	CAP, VALVE END For KYB Motor

Load control valve / Balance valve/ relief valve

(HV27981 ,HV279S4, HV270 , HV203, HV272)



Hydraulic Pump For Hatch Cover

CNR:1001660

CNR:1001661

CNR:1001662

5996079-001
ADUC49L02AD10A43200000200100CD



► Mac. Crane

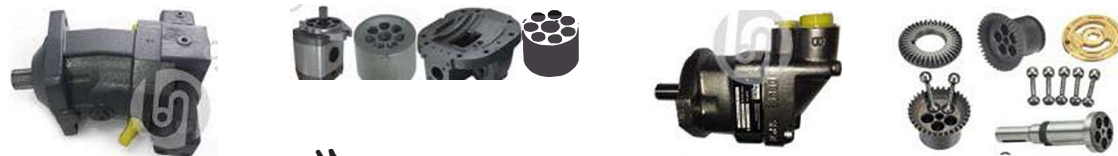
Hydraulic Pump

108 1097-801	287 9467-801	289 0683-801	289 1834-801/B	289 5879-801
188 1099-801	287 9467-802	289 0684-801	289 5330-801	391 0807-801
188 1108-801	289 6004-801	289 1833-801/B	289 5331-801	288 0303-801/E
Seal kits for Pump 625-4945.057A 875 19806-001				



Hydraulic motor For Crane & Hose Crane

187 8383-801	188 1243-801	189 2418-801	189 6355-801	388 3127-801
188 1221-801	188 1250-801	189 3383-801	287 9475-801	389 3916-801/A
188 1222-801	188 1769-801	189 4780-801	288 0303-801/E	390 2576-801
188 1223-801	188 1773-801	189 4781-801	288 2158-801	390 7138-801
188 1227-801	188 1774-801	189 6118-801		391 0458-801
188 1235-801	189 1167-801	189 6354-801		391 1469-801



Mac. control valve Part No.188 1339-801 PVP 320br	MGC.order:340329362*30 Dwg No.289 5323-801	Mac. crane valve block Part No. 388 6358-801	Mac. crane valve block Part No. 388 6361-801/396663	Mac. crane valve block Part No. 388 6376-801
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Mac. crane valve block Part No. 289 0840 801	Mac. crane valve block Part No. 289 0687-801	Mac. crane valve block Part No. 289 0839-801	Mac. crane valve block Part No. 287 9489 802
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Mac. crane valve block Part No. SV-06-A, Type 31006100, SN:0176998	MacGreGor. Crane 1229762/1230739 Part No.1237625	Mac.crane Part No. 4943 0003-101	Mac.crane Cardan shaft Part No.:388 6363-801
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 HV07-020940/80-2B-PARKER	 DL 31-3-GE-BE 1-2-200 SN:150660020	 HV07-020940/80-2HW-B-G1/2 SN: 151770028	 HV07-020940/80-2FP SN: 151770026	 Control valve
 Cylinder HSGK01-125/80-2511-2500	 HV07-020940-1S-G1/2 SN: 151770027	 HV07-020940-1S-G3/8 SN:151770036	 HV07-020940/80-2B SN:151770025	 HV07-020940 SN:151770024
 Cylinder seal Kit	 SNM-1-G3/8-VOSL1/2 SN: 151670002	 Cylinder Balance valve SNM-2-G3/8-VOSL1/2 SN: 151670005	 Outer Disk Inner Disk	 SN: 120350002
 Motor HYUNDAI DIVAT	 SN: 121670002	 MGLR100	 SN: 121670004	 Motor: TF0100AM050AAAA
 SN: 111670005	 SN: 111670010	 VBDSE/45 SN: 111670004	 SN: 111670011	 SN: 111670002



▶ Rescue Boat Davit SAC-21

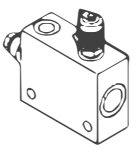
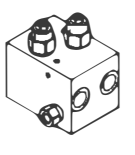
Manual Directional Valve SGOR-AK, SGOW-CK	925122 (205V) SN: 110660001	NO.6 Ball valve BKH(CG6 320BAR)	GR2-1-G24 SN: 150660022	SWR1AT UD-1- WG230-210
No.8 Pressure gauge switch AL-02	hand pump HD30	No.9 Pressure gauge: CB-LM60-A-40M	KR2-1 SN: 150660014	FR2-1 SN: 150660001

Hydraulic winch



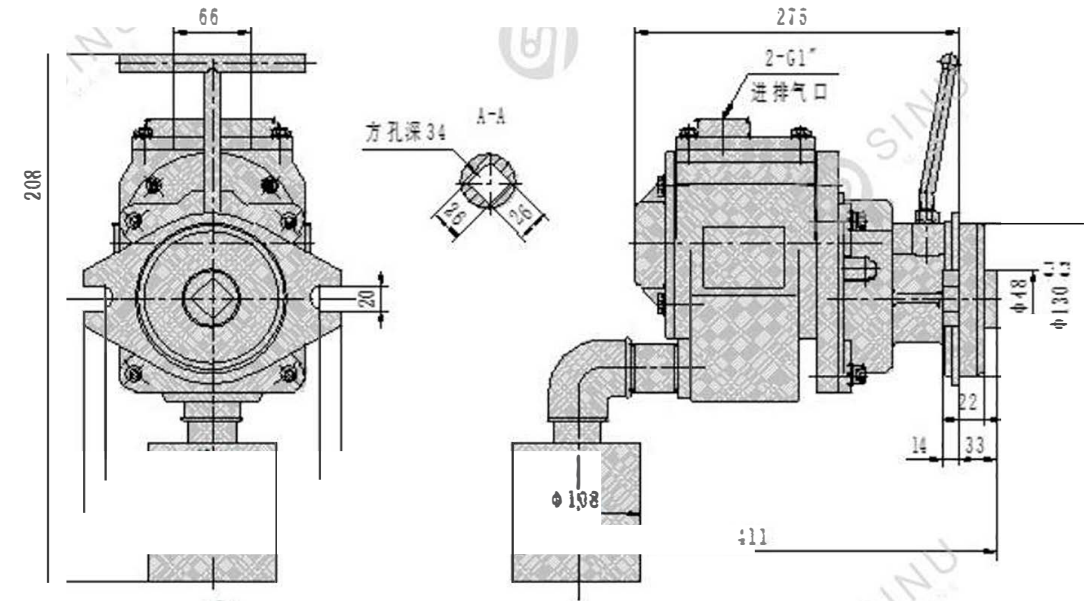
▶ Electric hydraulic slewing crans

Multiple valve PVG32-3	PVG32-3	PSL5-300-4	PSV41-250-3	HPV41;SN: 150130005 HPV77;SN: 150130003
MANUAL PUMP GL30	Cylinder seal kits	Luffing Cylinder HSGK02-180/125	Balance Valve: VOSL1/2"	Hand pump HD20;HD30
Filter: ZU-H63x20 RFA-63x20L	Limit Switch LKX3-20ST	Limit Switch LX918-120	PRESSURE GAUGE PTB-H1/P1-40-500	
CBCA-LHN-XEV; 084407-03-03-35(G1/2) SN: 112340070	LHK40GVP-11 SN: 150660010	MVP8C SN: 150660011	LHK44G-14-200 SN: 150660002	VOSL-G1-3 SN: 231670008

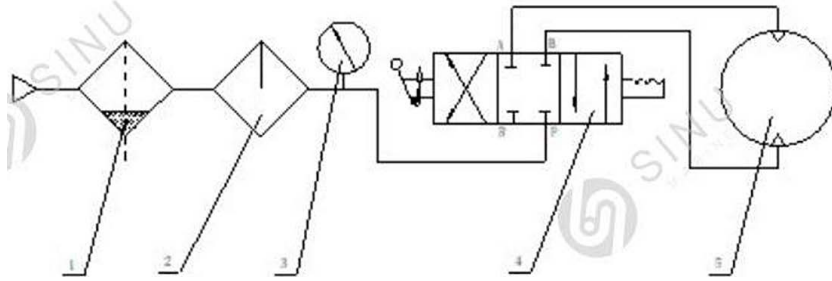
 SN: 151770040	 VAA-B-SICN-ST-VF-250 SN: 151430001	 Cylinder counter balance valve RL051351;SN: 152050050		 SN: 152050051
 Slewing Motor RE512/MGLR160	 Slewing Motor Balance Valve: VB035MP	 VOSL1 SN: 151670001	 WINCH MOTOR GM2420; H2V55;H2V108;H2V226	 Hoisting motor BALANCE VALVE VOSL/A 3/8
 CBV1-2	 Slewing counter balance valve SN: 111670001	 Slewing Gear Box	 Slewing Gear Box	 Slewing Gear Box

Vane type educing air motor

、 Construction, principle and feature



Installation



1. Filter QL3 25-05
2. Atomized lubricator QY3 25-05
3. Pressure gauge Y60
4. QF34 25-05 61.0 4/3 manual control valve (cut-off of air flow at neutral position)
5. (Pneumatic motor)

Other Pneumatic components

