



HYDRAULICS

HYDRAULIC PISTON PUMP, MOTOR & PARTS
GEAR PUMP, CHARGE PUMP, HYDRAULIC VALVE
GEARBOX & PARTS

SOLUTIONS



SKS HYDRAULICS



HIGH QUALITY WIDE RANGE FAST SERVICE



SKS HYDRAULICS

2004.11



INTRODUCTION

SKS HYDRAULIC TECHNOLOGY CO., LTD. Founded in April 2005, SKS Hydraulic Technology Co., Ltd. is a national high-tech enterprise with the main business of hydraulic piston pump, motor, gearbox and spare parts.

SKS considers the production as the fundamental. After years of development, our company has established a unique manufacturing system, which has a complete set of manufacturing processes and equipment for piston pump, motor and gearbox from precision casting, precision forging, precision machining, heat treatment, bi-metal sintering, assembly to testing, and has passed the ISO9001 quality system certification.

SKS considers R & D as life. Our company has a provincial high-tech enterprise R & D center, and has undertaken 2 national torch programs, 1 national key new product project, and 1 national major scientific and technological achievement transformation project. In addition, lots of our products have won industry technology progress awards. In 2019, our company was named as "Zhejiang Hidden Champion Enterprise". As of the end of 2023, SKS has 141 patents, including 23 invention patents and 91 utility model patents.

SKS considers the customer service as a heavenly duty. Adhering to the management concept of "high-quality, multi-variety, fast service", our company has more than 50 domestic and foreign dealers, and has established a complete sales and service system that covering 31 domestic provinces, cities and autonomous regions and extending to the major global markets.

SKS has become one of the leading enterprises in the domestic hydraulic aftermarket, and our after market share of the hydraulic piston pump and motor is in the forefront of China. "SKS" has being a well-known brand in domestic and abroad market, and has successively won awards such as the high-quality brand of China machinery industry, the famous trademark of Zhejiang Province, and Ningbo brand products. SKS is committed to become a leader in the hydraulic fluid power industry, and provide high-quality hydraulic products and hydraulic solutions for global customers.



R&D Team



Testing Equipment



Heat Treatment Equipment



Testing Equipment



Assembly Line



Product Showroom



Casting Equipment



Casting Equipment



Workshop Equipment



Workshop Equipment



Workshop Equipment



Workshop Equipment



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**High-Pressure Piston Pump / Motor**

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1	SA2FO10/SA2FM10	A2FO10/A2FM10	Industry Machinery, Metallurgical Machinery, Mining Machinery, Construction Machinery, Marine Machinery
2	SA2FO12/SA2FM12	A2FO12/A2FM12	
3	SA2FO16/SA2FM16	A2FO16/A2FM16	
4	SA2FO23/SA2FM23	A2FO23/A2FM23	
5	SA2FO28/SA2FM28	A2FO28/A2FM28	
6	SA2FO32/SA2FM32	A2FO32/A2FM32	
7	SA2FO45/SA2FM45	A2FO45/A2FM45	
8	SA2FO56/SA2FM56	A2FO56/A2FM56	
9	SA2FO63/SA2FM63	A2FO63/A2FM63	
10	SA2FO80/SA2FM80	A2FO80/A2FM80	
11	SA2FO90/SA2FM90	A2FO90/A2FM90	
12	SA2FO107/SA2FM107	A2FO107/A2FM107	
13	SA2FO125/SA2FM125	A2FO125/A2FM125	
14	SA2FO160/SA2FM160	A2FO160/A2FM160	
15	SA2FO180/SA2FM180	A2FO180/A2FM180	
16	SA2FE56	A2FE56	Construction Machinery, marine Machinery, flat Push Dump Truck
17	SA2FE63	A2FE63	
18	SA2FE80	A2FE80	
19	SA2FE90	A2FE90	
20	SA2FE107	A2FE107	
21	SA2FE125	A2FE125	
22	SA2FE160	A2FE160	
23	SA2FE180	A2FE180	
24	SA11VO40	A11VO40	Industry Machinery, Metallurgical Machinery, Mining Machinery, Construction Machinery
25	SA11VO60	A11VO60	
26	SA11VO75	A11VO75	
27	SA11VO95	A11VO95	
28	SA11VO115	A11VO115	
29	SA11V(L)O130	A11V(L)O130	
30	SA11V(L)O145	A11V(L)O145	
31	SA11V(L)O190	A11V(L)O190	
32	SA11V(L)O260	A11V(L)O260	Industry Machinery, Metallurgical Machinery, Mining Machinery, Construction Machinery
33	SA20VO90	A20VO90	
34	SA20VLO190	A20VLO190	
35	SA20VLO260	A20VLO260	Construction Machinery, Rotary Drilling Rig
36	SA6VE55	A6VE55	
37	SA6VE80	A6VE80	
38	SA6VE107	A6VE107	
39	SA6VE160	A6VE160	
40	SA6VM55	A6VM55	
41	SA6VM80	A6VM80	
42	SA6VM107	A6VM107	
43	SA6VM160	A6VM160	
44	SA6VM200	A6VM200	
45	SA6VM85/71	A6VM85/71	
46	SA6VM115/71	A6VM115/71	
47	SA6VM170/71	A6VM170/71	
48	SA6VM215/71	A6VM215/71	Excavator
49	SK3VL45	K3VL45	
50	SK3VL80	K3VL80	
51	SK3V112S	K3V112S	



High-Pressure Piston Pump / Motor

NO.	SKS TYPE	REFERENCE	APPLICATION
52	SK3V63DT/DTP	K3V63DT/DTP	Industry Machinery, Metallurgical Machinery, Mining Machinery, Construction Machinery, Marine Machinery
53	SK3V112DT/DTP	K3V112DT/DTP	
54	SK3V140DT/DTP	K3V140DT/DTP	
55	SK3V180DT/DTP	K3V180DT/DTP	
56	SK5V80DT/DTP	K5V80DT/DTP	
57	SK5V140DT/DTP	K5V140DT/DTP	
58	SK5V160DT/DTH	K5V160DT/DTH	
59	SK5V200DT/DTH	K5V200DT/DTH	
60	SK5V212DPH	K5V212DPH	Excavator
61	SK7V63	K7V63	Excavator
62	SK7V125	K7V125	
63	SK7V140	K7V140	
64	SK7V180	K7V180	
65	SK7V260	K7V260	
66	SHPV102	HPV102	EX200-6
67	SHPV118	HPV118	ZAX330-7
68	SHPV145	HPV145	ZAX330
69	SAP2D25	AP2D25	Miniature Hydraulic Excavator
70	SAP2D36	AP2D36	
71	SA7VO55	A7VO55	Stand Pump
72	SA7VO107	A7VO107	
73	SA7VO160	A7VO160	
74	SM5X130	M5X130	Hydraulic Excavator-Swing
75	SM5X180	M5X180	
76	SA22VG045	A22VG045	Hydrostatic Travle Pump
77	SA4VTG90	A4VTG90	Agricultural Machinery Closed Walking
78	SA4VG100	A4VG100	
79	SA4VG110	A4VG110	
80	SA4VG125	A4VG125	
81	SMSF340	MSF340	Excavator Travle Motor
82	SF12-ISO	F12-ISO	Vibrating Hammer Motor (005/90/110)
83	SF12-SAE	F12-SAE	
84	SF12-019	F12-019	



Medium-Pressure Piston Pump / Motor

NO.	SKS TYPE	REFERENCE	APPLICATION
1	SA10VSO18/31	A10VSO18/31	Min Excavation 0.8-2.2t, Concrete Pump Truck
2	SA10VSO28/31	A10VSO28/31	
3	SA10VSO45/31	A10VSO45/31	Industry Machinery, Metallurgical Machinery, Mining Machinery, Construction Machinery
4	SA10VSO71/31	A10VSO71/31	
5	SA10VS100/31	A10VS100/31	
6	SA10VS110/31	A10VS110/31	
7	SA10VSO140/31	A10VSO140/31	Industry Machinery, Metallurgical Machinery, Mining Machinery, Construction Machinery
8	SA10VO28/52	A10VO28/52	
9	SA10VO45/52	A10VO45/52	
10	SA10VO60/52	A10VO60/52	Hydraulic Excavator
11	SA10VO85/52	A10VO85/52	
12	SA10VO60/53	A10VO60/53	
13	SA10VO63/53	A10VO63/53	
14	SA10VO72/53	A10VO72/53	Hydraulic Excavator
15	SA10VO85/53	A10VO85/53	
16	SA10VO100/53	A10VO100/53	
17	SA10VD43	A10VD43	Hydraulic Excavator
18	SA10VNO45/52	A10VNO45/52	Agricultural Machinery
19	SA10VNO63/52	A10VNO63/52	
20	SA10VNO45/53	A10VNO45/53	
21	SA10VNO85/53	A10VNO85/53	
22	SA10CNO45/52	A10CNO45/52	Agricultural Machinery
23	SA10CNO63/52	A10CNO63/52	
24	SA10CNO85/53	A10CNO85/53	
25	SMMF044	MMF044	Cotton Picker
26	SPVH57	PVH57	Industry Machinery, Metallurgical Machinery, Mining Machinery, Construction Machinery
27	SPVH74	PVH74	
28	SPVH98	PVH98	
29	SPVH131	PVH131	
30	SPVH141	PVH141	Mini Excavator
31	SPVD-0B-18P	PVD-0B-18P	
32	SPVD-1B-30P	PVD-1B-30P	
33	SPVD-2B-40P	PVD-2B-40P	
34	SPVK-2B-505	PVK-2B-505	3-5T Hydraulic Excavator
35	SVD22	PSVD22	
36	SVD27	PSVD27	6-8T Hydraulic Excavator
37	SDV36	K3SP36C	
38	SPVC90R	PVC90R	6-10T Hydraulic Excavator
39	SKC38	KC38	Hydraulic Aerial Cage
40	SA10VM45	A10VM45	Mining Machinery
41	S74318	74318	Agricultural Machinery

Low-Pressure Piston Pump / Motor

NO.	SKS TYPE	REFERENCE	APPLICATION
1	SPVB5	PVB5	Industry Machinery, Mining Machinery
2	SPVB6	PVB6	
3	SPVB10	PVB10	
4	SPVB15	PVB15	
5	SPVB20	PVB20	
6	SPVB29	PVB29	
7	SPVB45	PVB45	

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Low-Pressure Piston Pump / Motor

NO.	SKS TYPE	REFERENCE	APPLICATION
8	SPVQ10	PVQ10	Industry Machinery, Mining Machinery
9	SPVQ13	PVQ13	
10	SPVQ20	PVQ20	
11	SPVQ32	PVQ32	
12	SPVQ40	PVQ40	
13	SPVQ45	PVQ45	
14	SPVE19	PVE19	Industry Machinery, Forestry Machinery, Agricultural Machinery
15	SPVE21	PVE21	
16	STATA1919	TATA1919	

Fan Pump / Motor

NO.	SKS TYPE	REFERENCE	APPLICATION
1	SA10VSO28/31ED73-VSC	A10VO28/31ED73-VSC	CAT330D/336D Fan Pump
2	SA10VSO28/31ED73-VCC	A10VO28/31ED73-VCC	CAT345C/CAT345B Fan Pump
3	SA10FE10	A10FE10	CAT325C/322C Fan Motor
4	SA10FE11	A10FE11	VOLVO-A25 Fan Motor
5	SA10FE16	A10FE16	CAT330C Fan Motor
6	SA10FE28	A10FE28	CAT336GC Fan Motor
7	SA10FE45	A10FE45	CAT345GC/CAT349GC Fan Motor
8	SA10FM28	A10FM28	CAT330D/336D/345B Fan Motor
9	SA10FM53	A10FM53	CAT345D Fan Motor
10	SK3VL28	K3VL28	SY485 Fan Pump
11	SK3VL45	K3VL45	SY850 Fan Pump
12	SA10VNO41	A10VNO41	CAT345D/349 Fan Pump
13	SMSF18	MSF18	Hydraulic Excavator Fan Motor
14	SMSF-23	MSF-23	EC700 Fan Motor /SY485 Fan Motor
15	SMSF-50-48	MSF-50-48	ZAX470 Fan Motor
16	S74315	74315	CAT824/825 Fan Motor
17	S74318	74318	

Parts Of Pump / Motor

NO.	TYPE	REFERENCE	APPLICATION
1	Hydraulic Valve	K3V, A11V, A10VSO, PVC90R, PV20	Variable valves fitted to the main pump
		PVB, PVQ, PVH, PVE Variable Valve	
		Travel/swing Motor, JMV53, MSG Control Valve	Control valves fitted to the stravel motor
2	Gear Pumps	K3V, A8VO160/200, PVC90R	Gear pump matching on main pump
		PVK-2B-505, PSVD21/27	
		CAT320C, EX200-1/5, PV20	
		PC200-3/6 Various Series Of Gear Pumps	
3	Charge Pumps	A4V Series	Rexroth hydraulic pump with gear pump
4	Hydraulic Pump Spare Parts	KOMATSU, HITACHI, KYB	Excavator hydraulic pump spare parts
		NACHI, KAWASAKI, NABTESCO, ZF	Excavator hydraulic pump, motor & spare parts
		SUMITOMO, UCHIDA, LIEBHERR, TOSHIBA, VOLVO, YUKEN	
		REXROTH, SAUER, EATON, KYOKUTO	Metalurgy, concrete, engineering, construction, industrial machinery
		HAWA, VICKERS, LINDE, PARKER	Engineering/mining/construction machinery

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PLANETARY GEARBOX-SWING

NO.	SKS TYPE	REFERENCE	SPEED RATIO	APPLICATION
1	SB2C3002	SL3002	24.2/27/30.3/33.8	Rotary Drilling Rig
2	SB2C1572	EL1572	22/26.5/30.4	
3	SB2C2150	ED2150	20/26.6/30.9	
4	SB2C2250	ED2250	20.2/22.2/25.6/30.7/36	
5	SB2D309	BFL309	21.8/25.4/28/32.6	
6	SB2D310	BFL310	21.8/25.4/28/32.6	
7	SB2D311	BFL311	32.7	
8	SB2M32102	P32102-H	31.7	
9	SB2B26	GFB26T2	63	
10	SB3B36	GFB36T3	68/90/101	
11	SB3B60	GFB60T3	87.5/106.5	Rotary Digging Rig And Others

PLANETARY GEARBOX-TRAVLE

NO.	SKS TYPE	REFERENCE	SPEED RATIO	APPLICATION
1	ST3B017	GFT17	32/45/54/88	Tire Trolley-travle, Crawler-travle
2	ST3B026	GFT26	42.8/47.2	
3	ST3B034	GFT34	50.5	Rotary Drilling Rig, Crawler Crane Coal Mining Mechanic Equipment
4	ST3B036	GFT36	67/79/100/113/115/117/131/139	
5	ST3B050	GFT50	100	
6	ST3B060	GFT60	105.5/139.9/169.9	
7	ST3B060	GFT80	77/99/127/150/185	
8	ST3B110	GFT110	147/174/215	
9	ST3B160	GFT160	211/251/268/281	
10	ST3B220	GFT220	365	
11	ST4B450	GFT450	453/655	
12	ST3D0713	BFL713	108	
13	ST3D0715	BFL715	108/156	
14	ST3D0717	BFL717	131	
15	ST3D0718	BFL718	264	
16	ST3D0720	BFL720	99.7/173.5	
17	ST3K080	F80	147	
18	ST3K130	F130	123.3/206.3	
19	ST3B8190	GFT8190	168/209	

PLANETARY GEARBOX-WINCH

NO.	SKS TYPE	REFERENCE	SPEED RATIO	APPLICATION
1	SW3B017	GFT17W	45	Rotary Drilling Rig, Crawler Crane Marine Machinery
2	SW3B036	GFT36W	67/79	
3	SW3B060	GFT60W	86.5/140	
4	SW3B080	GFT80W	77/99/127/185	
5	SW3B110	GFT110W	96/115/129/147/174/215	
6	SW3B160	GFT160W	133	
7	SW3B220	GFT220W	116/145/168/189/233/246/293	
8	SW3D0713	BFL713W	108	
9	SW3D0715	BFL715W	108	
10	SW3D0717	BFL717W	131	
11	SW3D0718	BFL718W	161.4/131.2	
12	SW3D0720	BFL720W	173.5	
13	SW3K130	F130W	115/123	
14	SW3B5185	GFW5185	99	
15	SW3B5190	GFW5190	121	

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Application & Features

The SA2FO/M series is inclined quantitative piston pump/motor with inclined angle of 40°, high power density, small overall dimensions and light weight, which is used for static pressure drive pump/motor in open and closed circuits. When the motor is in use, the output speed is proportional to the flow and inversely proportional to the displacement. The output torque of the hydraulic motor is proportional to the difference between the motor inlet and outlet.

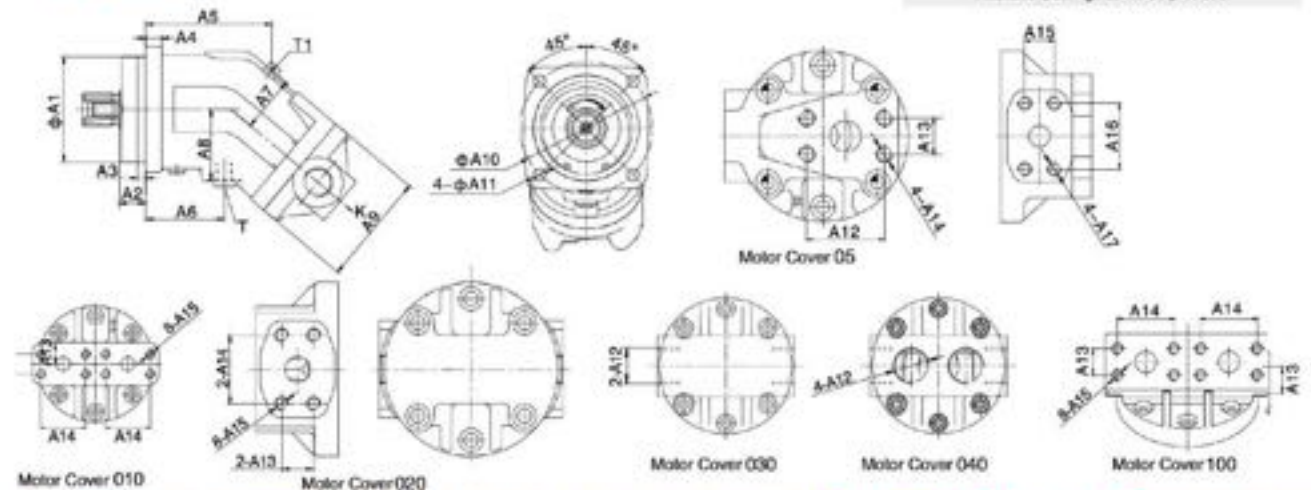


SA2FO/M Series

Technical Specification

Model	SA2FO/M10/12/16	SA2FO/M23/28/32	SA2FO/M45	SA2FO/M56/63	SA2FO/M80/90	SA2FO/M107/125	SA2FO/M160	SA2FO/M180
Displacement	10/12/16 mL/r	23/28/32 mL/r	45 mL/r	56/63 mL/r	80/90 mL/r	107/125 mL/r	160 mL/r	180 mL/r
Max. speed(Pump)	3150/min	2500/min	2240/min	2000/min	1800/min	1600/min	1450/min	1450/min
Max. speed(Motor)	8000/min	6300/min	5600/min	5000/min	4500/min	4000/min	3600/min	3600/min
Inlet pressure	Open circuit system: 0.08~3 MPa							
Rated pressure	35 MPa							
Max. pressure	40 MPa							
Recommended oil	L-HM46 (Summer) L-HM32 (Winter)							
Housing pressure	< 0.3 MPa							
Open circuit system	Open circuit system							
Weight	6 kg	9.5 kg	13.5 kg	16 kg	23 kg	32 kg	45 kg	45 kg

Dimension



Specification	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	Pin type						Pin type					
												A12	A13	A14	A15	A16	A17	B	B1	A12	A13	A14	A15
SA2FO/M10/12/16	80	20	8	12	95.5	59.5	29.3	53.5	85	100	9	-	-	-	-	-	M082	M0815	M0815	-	-	-	
SA2FO/M23/28/32	100	25	8	18	106	42	25	55.5	106	125	11	47.6	22.2	M10	18.2	40.5	M8	-	-	13	18.2	40.5	M8
SA2FO/M45	125	32	12	20	108	42	28	63	118	180	13.5	52.4	26.2	M10	23.8	50.8	M10	-	-	19	23.8	50.8	M1015
SA2FO/M56/63	125	32	10	20	118	50	32	70	128	180	13.5	52.4	26.2	M10	23.8	50.8	M10	-	-	19	23.8	50.8	M1015
SA2FO/M80/90	127	-	12.7	20.5	161.2	92.5	40.8	86	138	182	14.4	58.7	30.2	M10	27.8	57.2	M12	-	-	25	27.8	57.2	T16-16/20
SA2FO/M107/125	160	40	10	23	140	65	40	85	150	200	17.5	58.7	30.2	M12	27.8	57.2	M12	-	-	32	31.8	66.7	16/20
SA2FO/M160/180	160	40	10	25	158	72	75	96	180	224	17.5	69.9	35.7	M12	31.8	66.7	M12	-	-	32	31.8	66.7	16/20

Specification	Spline shaft	C1	C2	C3	C4	B	P	C5	C6	C7	C8	C9
SA2FO/M10/12/16	W25 x 1.25 x 218 x 9g	28	6	M10	22	A 8 x 7 x 32	A 8 x 7 x 32	40	22/16	M10/M8	Φ25/Φ20	28/22.5
SA2FO/M23/28/32	W30 x 2 x 30 x 214 x 9g	35	8	M10	22	A 8 x 7 x 40	A 8 x 7 x 40	50	22/19	M10	Φ30/Φ25	33/28
SA2FO/M45	W30 x 2 x 30 x 214 x 9g	35	8	M12x1.75	28	-	AS8 x 7 x 50	60	28	M12X1.75	Φ30	33
SA2FO/M56/63	W30 x 2 x 30 x 214 x 9g	35	8	M12x1.75	28	AS10 x 8 x 50	AS8 x 7 x 50	60	28	M12X1.75	Φ30	33
SA2FO/M80/90	W40 x 2 x 30 x 216 x 9g	40	8	M12x1.75	28	AS12 x 8 x 56	AS10 x 8 x 56	70	28	M12X1.75	Φ35	38
SA2FO/M107/125	W40 x 2 x 30 x 218 x 9g	45	8	M12x1.75	28	AS14 x 9 x 63	AS12 x 8 x 63	80	28	M12X1.75	Φ40	43
SA2FO/M160/180	W45 x 2 x 30 x 221 x 9g	50	8	M16x1.75	36	AS14 x 9 x 70	AS14 x 9 x 70	90	36	M16X1.75	Φ45	48.5

All original manufacturer's names, part numbers and description are for reference purposes only and it does not imply that any Part listed is the product of those manufacturers.

Application & Features

The SA2FE series is a diagonal axial quantitative motor with an inclination angle of 40°, high power density, plug-in design, small size and light weight. The flange can be directly connected to the reducer to save installation space, which is suitable for static pressure transmission in open and closed circuits, and is mainly applied to the traveling and winch system of construction machinery.

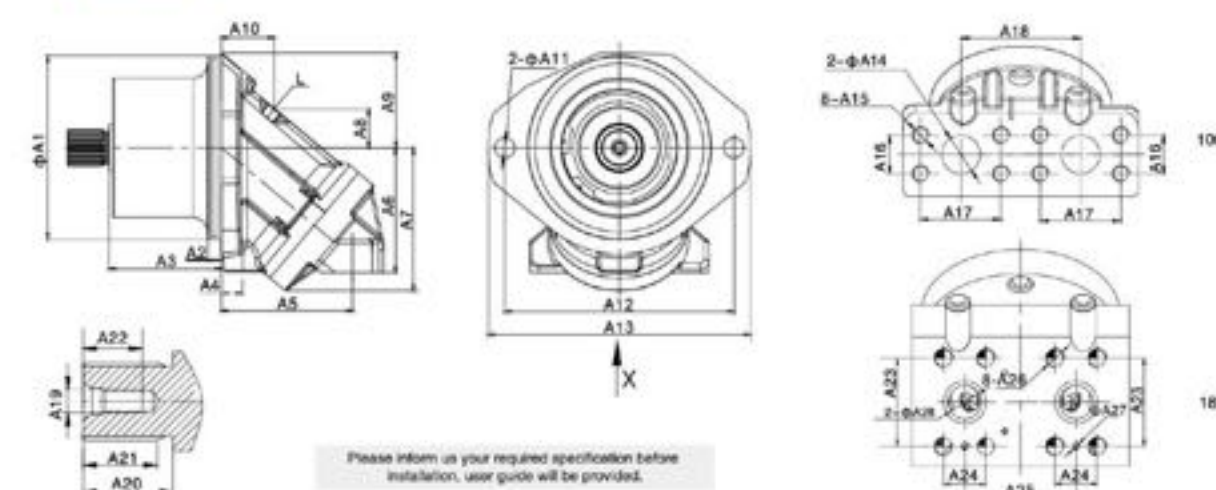


SA2FE Series

Technical Specification

Model	SA2FE56	SA2FE63	SA2FE80	SA2FE90	SA2FE107	SA2FE125	SA2FE160	SA2FE180
Displacement	56 mL/r	63 mL/r	80 mL/r	90 mL/r	106.7 mL/r	125 mL/r	160 mL/r	180 mL/r
Direction of rotation (View from shaft end)	R: Clockwise L: Counter clockwise							
Rated pressure	35 MPa	40 MPa						
Max. pressure	40 MPa	45 MPa						
Max. speed	5000 r/min	5000 r/min	4500 r/min	4500 r/min	4000 r/min	4000 r/min	3600 r/min	3600 r/min
Recommended oil	L-HM46 (Summer) L-HM32 (Winter)							
Housing pressure	< 0.3 MPa							
Open circuit system	Open circuit system							
Weight	18 kg	19 kg	23 kg	25 kg	34 kg	36 kg	47 kg	48 kg

Dimension



Specification	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12	A13	A14	A15	A16	A17	A18	A19(A)
SA2FE56/63	160	15	92.3	18	122	107	128	34	82	59	18	200	235	19	M10X1.5	23.8	50.8	75	M12X1.75
SA2FE80/90	190	15	110	20	127	120	144	41	98	54	22	224	260	25	M12X1.75	27.8	57.2	84	M16X2
SA2FE107/125	200	15	122.8	20	143	136	158	41	103	58	22	250	286	32	M14X2	31.8	66.7	99	M16X2
SA2FE160/180	200	15	122.8	20	169	149	184	47	104	75	22	250	286	32	M14X2	31.8	66.7	99	M16X2

Specification	A19(Z)	A20(A)	A20(Z)	A21(A)	A21(Z)	A22(A)	A22(Z)	A23	A24	A25	A26	A27	A28	A	Z
SA2FE56/63	M12X1.75	40	35	32	27	28	28	50.8	23.8	75	M10X1.5	17	19	W35X2X30X15X9g	W30X2X30X14X9g
SA2FE80/90	M12X1.75	45	40	37	32	36	28	57.2	27.8	75	M12X1.75	17	25	W40X2X30X18X9g	W35X2X30X16X9g
SA2FE107/125	M12X1.75	50	45	42	37	36	28	66.7	31.8	84	M14X2	19	M8	W45X2X30X21X9g	W40X2X30X18X9g
SA2FE160/180	M16X2	55	50	44	42	36	36	66.7	31.8	84	M14X2	19	M8	W50X2X30X24X9g	W45X2X30X21X9g

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Application & Features

The SA11V(L)O series is high pressure diagonal disc axial piston pump, which is used for open hydraulic system. Built-in booster pump (centrifugal pump) can improve the 19% limit speed of the product, which is used in travel machinery and other fields. Multiple control modes are optional. The pump is driven by a pass shaft and can be connected to a gear pump or an axial plug pump of the same specification. The displacement can vary steplessly between the maximum and zero values.

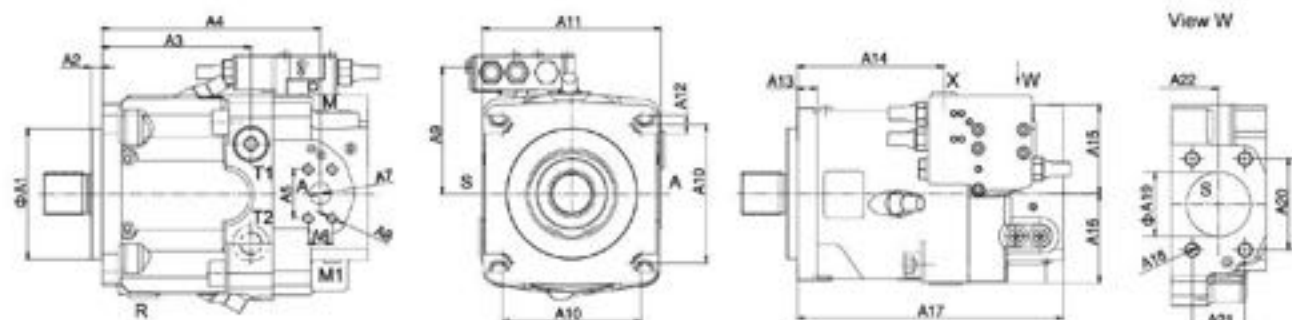


SA11V(L)O Series

Technical Specification

Model	SA11VO40	SA11VO60	SA11VO75	SA11VO95	SA11VO115	SA11VO130	SA11VO145	SA11VO190	SA11VO260
Displacement	42mL/r	58.5mL/r	74mL/r	93.5mL/r	115mL/r	130mL/r	145mL/r	193mL/r	260mL/r
Direction of rotation (View from shaft end)	R:Clockwise				L:Counter clockwise				
Rated pressure	35 MPa								
Max. pressure	40 MPa								
Max. speed	3000 r/min	2700 r/min	2550 r/min	2350 r/min	2350 r/min	2500 r/min	2500 r/min	2500 r/min	2300 r/min
Inlet. pressure	0.06~2 MPa								
Housing pressure	≤ 0.2 MPa								
Working mode	Open circuit system								
Recommended oil	L-HM46 (Summer)				L-HM32 (Winter)				
Weight	32 kg	40 kg	45 kg	53 kg	54 kg	66(72)kg	73(76)kg	95(104)kg	125(138)kg

Dimension



Please inform us your required specification before installation, user guide will be provided.

Specification	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12	A13	A14	A15	A16	A17	A18	A19
SA11VO40	101.5	9.7	183	101.6	50.8	23.8	19	M10×1.5	100	146	177	14	15	111	75	75	225	M12×1.75	50
SA11VO60	127	12.7	195	127	50.8	23.8	19	M10×1.5	106	181	213	17	19	124.5	82	82	242	M12×1.75	50
SA11VO75	152.4	12.7	215	152.4	57.2	27.8	25	M12×1.75	117	161.6	200	21	19	136.5	88.5	88.5	250	M12×1.75	63
SA11VO95/115	152.4	12.7	234	152.4	57.2	27.8	25	M12×1.75	139	161.6	200	21	20	150	96	96	287	M16×2	75
SA11VO130/145	152.4	12.7	255	152.4	57.2	27.8	25	M12×1.75	148	161.6	204	21	21	171	104	104	310	M16×2	75
SA11VO130/145	152.4	12.7	244	152.4	65.7	31.8	32	M14×2	148	161.6	204	21	21	171	104	104	358	M16×2	75
SA11VO190	165.1	15.9	281.3	165.1	79.4	36.5	38	M16×2	156	224.5	262.5	21	27	318.8	161	161	346.8	M16×2	90
SA11VO190	165.1	15.9	272	165.1	79.4	36.5	38	M16×2	156	224.5	262.5	21	27	318.8	161	161	395	M16×2	90
SA11VO260	165.1	15.9	307	165.1	79.4	36.5	38	M16×2	168	224.5	262.5	21	30	346	130	130	372.1	M16×2	90
SA11VO260	165.1	15.9	329.5	165.1	79.4	36.5	38	M16×2	168	224.5	262.5	21	30	346	130	130	428	M16×2	100

Specification	A20	A21	A22	Spine port	T1/T2	Specification	A20	A21	A22	Spine port	T1/T2
SA11VO40	77.8	42.9	183	16	M22×1.5	SA11VO130/145	105.5	61.9	287	24	M26×1.5
SA11VO60	77.8	42.9	198	16	M22×1.5	SA11VO190	120.7	69.9	281.3	24	M33×2
SA11VO75	88.9	50.8	215	18	M22×1.5	SA11VO190	120.7	69.9	319	24	M33×2
SA11VO95/115	106.5	61.9	234	21	M26×1.5	SA11VO260	120.7	69.9	307	28	M33×2
SA11VO130/145	106.5	61.9	255	24	M26×1.5	SA11VO260	130.2	77.8	346	28	M33×2

All original manufacturer's names, part numbers and description are for reference purposes only and it does not imply that any Part listed is the product of these manufacturers.

Application & Features

The SA20VLO is a high-pressure swash plate construction double axial piston rotary assembly variable pump for hydrostatic transmission in open circuits for Mobile and stationary applications. It has a powerful control programme for different control and regulation functions. The through-axis drive it has is suitable for the installation of a gear pump or a second axial piston pump. Its output flow is proportional to the transmission speed and pump displacement and can be infinitely varied between maximum and zero displacement. It is mainly applied in large mining excavations.

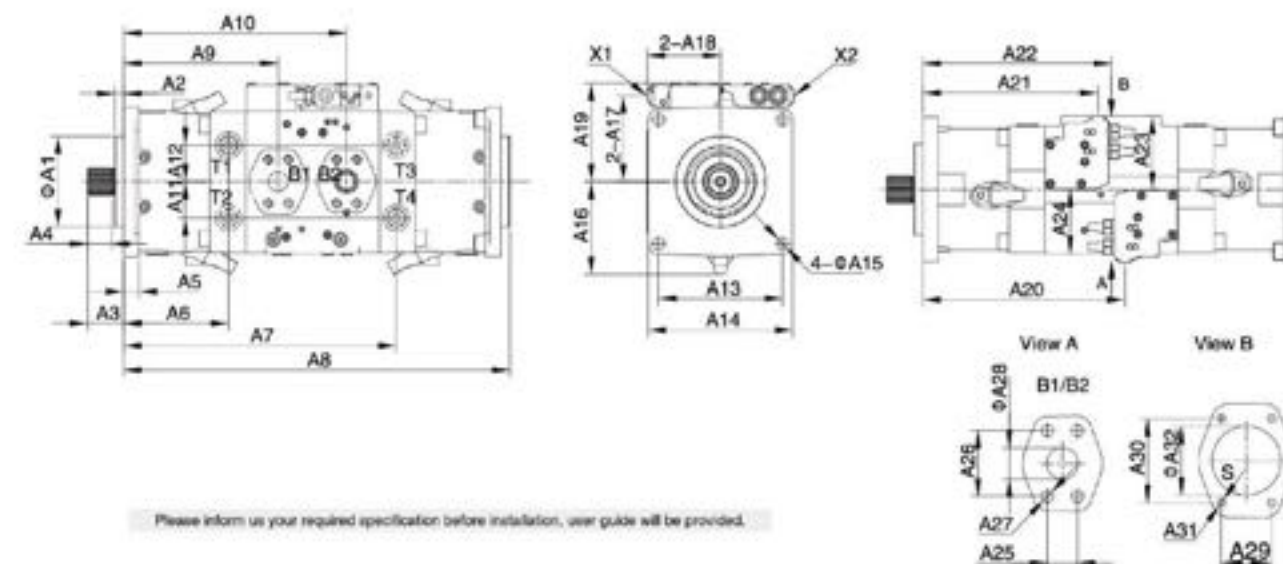


SA20VLO Series

Technical Specification

Model	SA20VO60	SA20VLO190	SA20VLO260
Displacement	2 x 60 mL/r	2 x 192.7 mL/r	2 x 260 mL/r
Direction of rotation (View from shaft end)	R:Clockwise L:Counter clockwise		
Max. speed	2700 r/min	2500 r/min	2300 r/min
Rated pressure	25 Mpa	35 Mpa	
Max. pressure	31.5 Mpa	40 Mpa	
Working mode	Open circuit system		
Weight	44 kg	210 kg	290 kg

Dimension



Please inform us your required specification before installation, user guide will be provided.

Specification	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12	A13	A14	A15	A16	A17	A18	A19	A20	A21
SA20VO60	127	12.7	55.2	39.5	16.5	40	117	459	210.5	210.5	-	-	114.5	148	14.3	-	122	64.8	137.5	69.5	351.5
SA20VLO190	165.1	15.9	65.4	44	28	190.3	494.3	700.5	280.3	404.3	66	66	224.5	262.5	21	164	156	133	178.5	367	317
SA20VLO260	165.1	15.9	149	100	29	214	536	766	309	442	72	72	224.5	262.5	21	168	168	139	198.5	404	345

Specification	Oil Inlet B1/b2				Oil Outlet S				Oil Drain Port				Pilot Port					
	A22	A23	A24	A25	A26	A27	A28	A29	A30	A31	A32	T1	T2	T3	T4	X1	X2	shaft
SA20VO60	210.5	89.9	89.9	26.2	52.4	M10	25	50.8	88.9	M12	62.8	7/8-14UNF				7/16-20UNF		14T x 12/24DP x 30"
SA20VLO190	342	132	116													M14X1.5		W50 x 2 x 30" x 24 x 9g
SA20VLO260	375	151	142	36.5	79.4	M16	38	92.1	152.4	M16	125	M33X2 Deep18				9/16-18UNF		18T x 8/16DP x 30"

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Application & Features

The SA6VE series is inclined shaft variable motor, which is used for hydrostatic transmission of open and closed circuits, and is suitable for traveling machinery and industrial fields. Wide adjustment range enables the motor to meet the requirements of high speed and large torque. The output speed depends on the pump flow and motor displacement. The output torque increases with the increase of pressure difference and displacement between the high and low pressure sides.

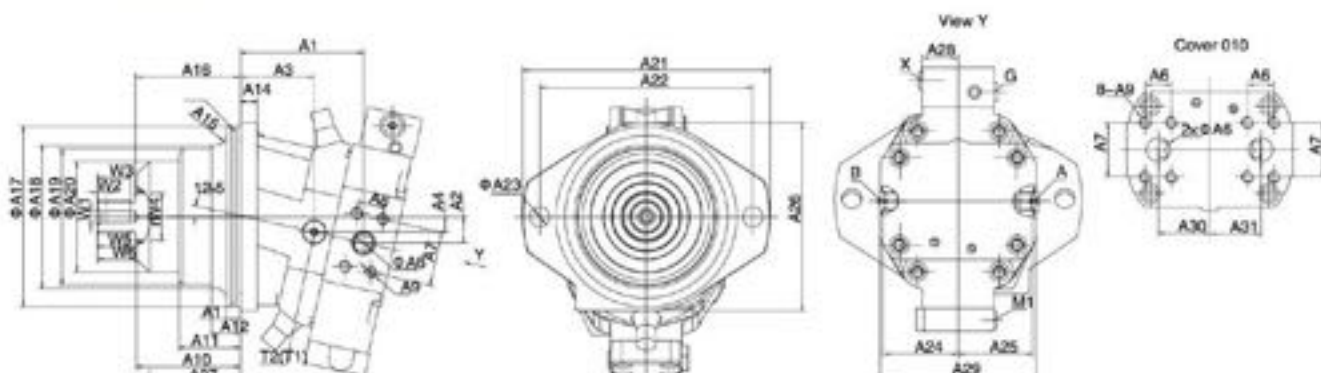


SA6VE Series

Technical Specification

Model	SA6VE55	SA6VE80	SA6VE107	SA6VE160
Displacement	54.8 mL/r	80 mL/r	107 mL/r	160 mL/r
Max. speed	4450 r/min	3990 r/min	3550 r/min	3100 r/min
Rated pressure	40 Mpa			
Max. pressure	45 Mpa			
Housing pressure	≤0.3 Mpa			
Direction of rotation (View from shaft end)	R:Clockwise L:Counter clockwise			
Control mode	HD1,HD2,HZ1,HZ3,EP1,EP2,EZ1,EZ2,EZ3,EZ4,HA1,HA2,DA1			
Weight	35 kg	43 kg	53 kg	72 kg

Dimension



Mounting flanges AGVM and AGVE with different dimensions

Please inform us your required specification before installation, user guide will be provided.

Specification	A1	A2	A3	A4	A6	A7	A8	A9	A10	A11	A12	A13	A14	A15	X/G/M1	A16	A17	A18
SA6VE55	123	24	77	14	Φ19	50.8	23.8	M10X1.5 Deep17	91	50	22	15	16	R8		92	160	139
SA6VE80	130	27.5	78	16	Φ25	57.2	27.8	M12X1.75 Deep17	109.5	65	30	15	18	R10		110.5	190	151
SA6VE107	137	30	84	18	Φ25	57.2	27.8	M12X1.75 Deep17	121.8	72	35	15	18	R12		122.8	200	168
SA6VE160	171	34	109	20	Φ32	66.7	31.8	M14X2 Deep19	122	87	29	15	20	R5		123	200	188

Specification	A19	A20	A21	A22	A23	A24/25	A26	A27	A28	A29	A30/31	shaft	W1	W2	W3	W4	W5	W6
SA6VE55	132	104	235	200	17	72.5	166	59	35.5	152	54	Z(W30X2X14X9g)	M12X1.75	9.5	28	45	27	35
SA6VE80	143	116	260	224	21	78.5	198	79	35.5	164	54	A(W40X2X18X9g)	M6X2	12	36	50	37	45
SA6VE107	160	132	286	250	21	86.5	210	82	40.5	180	65	Z(W40X2X18X9g)	M12X1.75	9.5	28	60	37	45
SA6VE160	180	146	286	250	21	98.5	210	83	40.5	204	76	A(W50X2X24X9g)	M6X2	12	36	70	44	55

All original manufacturer names, part numbers and description are for reference purposes only and it does not imply that any Part listed is the product of these manufacturers.



SKS HYDRAULICS

Application & Features

The SA6VM series is inclined shaft variable motor, which is used for hydrostatic transmission of open and closed circuits, and is suitable for traveling machinery and industrial fields. Wide adjustment range enables the motor to meet the requirements of high speed and large torque. The output speed depends on the pump flow and motor displacement. The output torque increases with the increase of pressure difference and displacement between the high and low pressure sides.

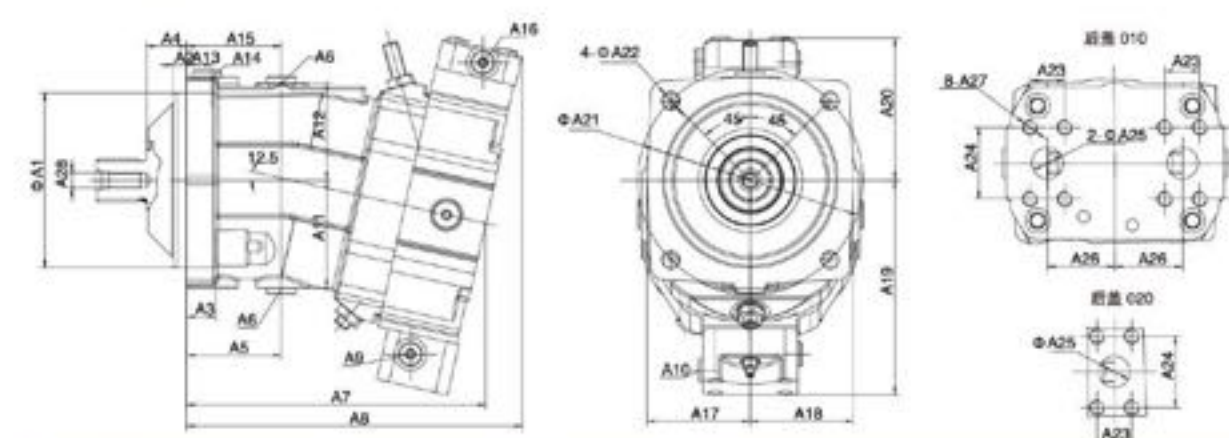


SA6VM Series

Technical Specification

Model	SA6VM55	SA6VM80	SA6VM107	SA6VM160	SA6VM200
Displacement	54.8 mL/r	80 mL/r	107 mL/r	160 mL/r	200 mL/r
Max. speed	4450 r/min	3900 r/min	3550 r/min	3100 r/min	2900 r/min
Rated pressure	40 MPa				
Max. pressure	45 MPa				
Housing pressure	≤0.3 Mpa				
Direction of rotation (View from shaft end)	R:Clockwise L:Counter clockwise				
Control mode	HD1,HD2,HZ1,HZ3,EP1,EP2,EZ1,EZ2,EZ3,EZ4,HA1,HA2,DA1				
Weight	26 kg	34 kg	47 kg	64 kg	80 kg

Dimension



Specification	A1	A2	A3	A4	A5	A6	A7	A8	A9/A10	A11	A12	A13	A14	A15
SA6VM55	125	10	22	32	67	M18X1.5 Deep12	210	240		79	74	16	M18X1.5 Deep12	67
SA6VM80	140	11	23.5	32	76	M18X1.5 Deep12	238	268		86	78	20	M18X1.5 Deep12	76
SA6VM107	160	13	25	40	77.2	M18X1.5 Deep12	257	283	M14X1.5	97	87	10	M18X1.5 Deep12	77.2
SA6VM160	180	10	29	40	92.5	M26X1.5 Deep16	291	323	Deep12	110	102	20	M22X1.5 Deep14	92.5
SA6VM200	200	10	32	40	96	M26X1.5 Deep16	314	345		117	107	19	M22X1.5 Deep14	96

Specification	A16	A17/A18	A19	A20	A21	A22	A23	A24	A25	A26	A27	A28	shaft
SA6VM55		75	151	176	160	13.5	23.8	50.8	19	54	M10X1.5 Deep17	M12X1.75	W35X2X30X16X9g
SA6VM80		82.5	172	113	180	13.5	27.8	57.2	25	54	M12X1.75 Deep17	M12X1.75	W35X2X30X16X9g
SA6VM107	M14X1.5	95	184	117	200	17.5	27.8	57.2	25	65	M12X1.75 Deep17	M16	W45X2X30X21X9g
SA6VM160		105	200	130	224	17.5	31.8	66.7	32	76	M14X2 Deep19	M16	W50X2X30X24X9g
SA6VM200		118	/	/	250	22	31.8	66.7	32	82	M14X2 Deep19	M16	W50X2X30X24X9g

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Application & Features

The SA6VM 71 series is a swash plate axial variable motor for hydrostatic transmission in open and closed circuits. Through a wide range of adjustment, the variable motor can meet the requirements of high speed and high torque without the need for a gear shifts, possibility of using smaller pumps. The motor is robust and has a long service life with a compact bearing system. It is mainly applied in Mobile and industrial machinery, etc.

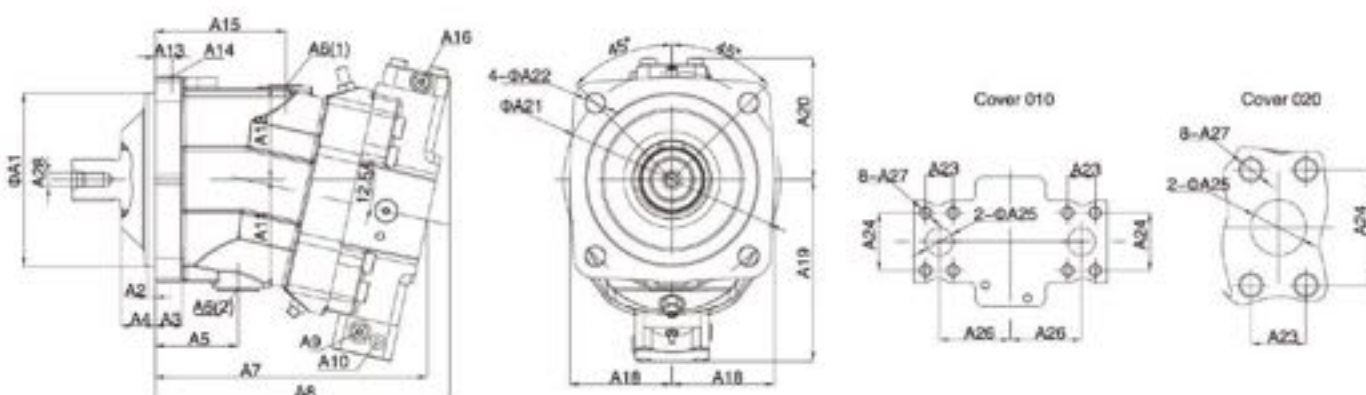


SA6VM 71Series

Technical Specification

Model	SA6VM85/71	SA6VM115/71	SA6VM170/71	SA6VM215/71
Displacement	85 ml/r	115 ml/r	170 ml/r	215 ml/r
Max. speed	3900 r/min	3550 r/min	3100 r/min	2900 r/min
Rated pressure	35 MPa			
Max. pressure	40 MPa			
Housing pressure	≤0.25 Mpa			
Direction of rotation (View from shaft end)	R:Clockwise L:Counter clockwise			
Control mode	液压越权控制			
起变点	19 Mpa			

Dimension



Please inform us your required specification before installation, user guide will be provided.

Specification	A1	A2	A3	A4	A5	A6(1)	A6(2)	A7	A8	A9	A10	A11	A12	A13	A14
SA6VM85	140	7.5	23	31	76	M22x1.5	M27x2	239	266	M14x1.5	M14x1.5	91	80	16.2	M18x1.5
SA6VM115	160	7.5	25	39	78	M27x2	M33x2	257	283	M14x1.5	M14x1.5	102	91	10	M18x1.5
SA6VM170	180	7.5	29	39	91	M27x2	M33x2	291	323	M14x1.5	M14x1.5	112	103	20	M22x1.5
SA6VM215	200	8	32	39	95	M33x2	M42x2	314	339	M14x1.5	M14x1.5	125	107	19	M22x1.5

Specification	A15	A16	A17	A18	A19	A20	A21	A22	A23	A24	A25	A26	A27	A28	轴伸
SA6VM85	117	M14x1.5	82.5	82.5	172	114	180	13.5	27.8	24	25	54	M12x1.75	M16	W40x2x30x18x9g
SA6VM115	126	M14x1.5	95	95	184	117	200	17.5	27.8	57.2	25	65	M12x1.75	M16	W40x2x30x18x9g
SA6VM170	141	M14x1.5	105	105	200	130	224	17.5	31.8	66.7	32	76	M14x2	M16	W45x2x30x21x9g
SA6VM215	151	M14x1.5	118	118	206	140	250	32	31.8	66.7	32	82	M14x2	M16	W50x2x30x24x9g

All original manufacturer names, part numbers and description are for reference purposes only and it does not imply that any Part listed is the product of these manufacturers.



SKS HYDRAULICS

Application & Features

The SK3VL80 is a diagonal disc axial variable piston pump, which is used for an open hydraulic drive circuit. It has the characteristics of high continuous pressure, good self-absorption performance, high reliability and long service life, high-power density ratio. Multiple control methods are selected. Axial drive can be selected. It is mainly applied to engineering machinery, traveling machinery, industrial vehicles and general industrial machinery.

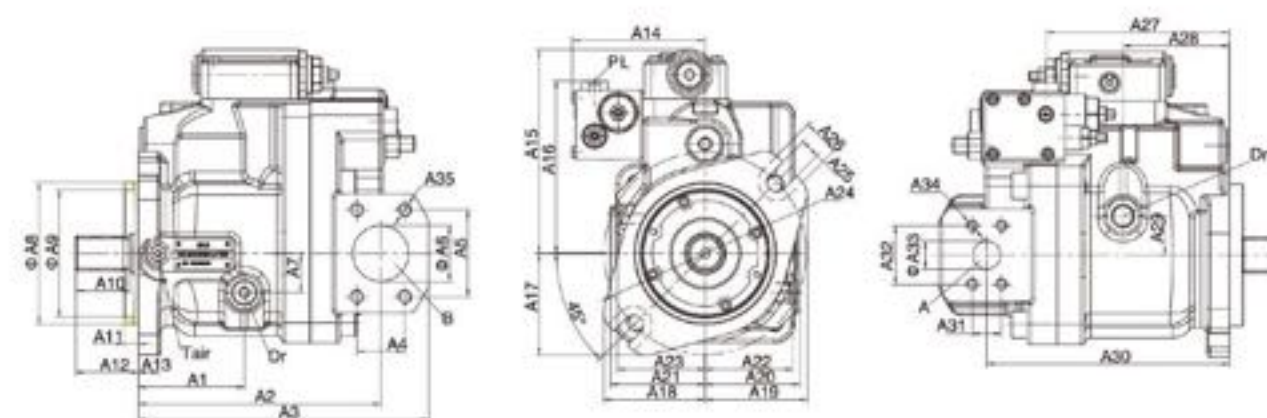


SK3VL80

Technical Specification

Model	SK3VL45	SK3VL80
Displacement	45 mL/r	80 mL/r
Direction of rotation (View from shaft end)	R:Clockwise	
Max. speed	2700 r/min	2400 r/min
Min. pressure	800 r/min	800 r/min
Max. pressure	35 MPa	
Rated pressure	32 MPa	
Recommended oil	L-HM46 (Summer) L-HM32 (Winter)	
Working mode	Open circuit system	
Weight	40 kg	

Dimension



Please inform us your required specification before installation, user guide will be provided.

Specification	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12	A13	A14	A15	A16	A17
SK3VL45	91	184	216	35.7	69.8	39	40	101.6	91	33	9.7	41	13	116.3	143.5	-	74.5
SK3VL80	95	217	260	42.9	77.8	50	35	127	118	48	12.7	56	18.5	119	182.5	154.5	91

Specification	A18	A19	A20	A21	A22	A23	A24	A25	A26	A27	A28	A29	A30	A31	A32	A33	A34
SK3VL80	80	80	77.5	77.5	68	68	140	14	28	99	91	40	184	26.2	52.4	25	4-3/8 16UNF
SK3VL80	91	91	85	85	78.5	78.5	181	17.5	33	164	95	35	217	26.2	52.4	25	4-M10 Deep17

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Application & Features

The SK3V112S is the variable piston pump for open-type circuit under heavy load. Multiple control methods can be selected, including flow control, pressure control, power control and other compound controls, which has high efficiency, long service life and continuous pressure up to 34.3MPa. With compact design, short installation length and high volume efficiency, it can be used for moving machinery such as excavator and crane.

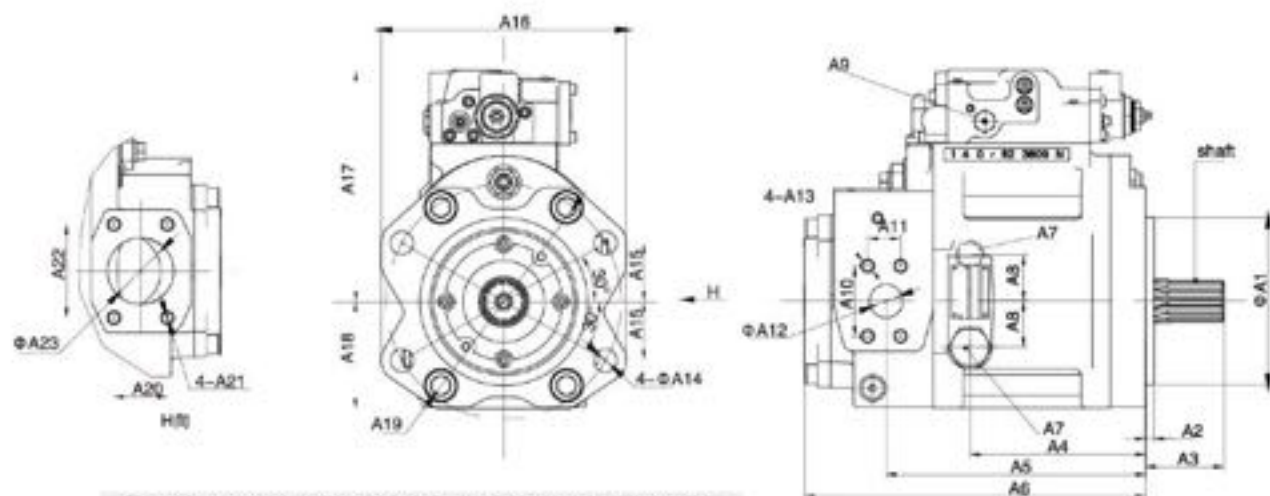


SK3V112S

Technical Specification

Model	SK3V112S
Displacement	112 mL/r
Direction of rotation (View from shaft end)	R.Clockwise
Rated speed	2000 r/min
Max. speed	2360 r/min
Inlet pressure	0.05~0.2 MPa
Rated pressure	34.3 MPa
Max. pressure	39.2 MPa
Recommended oil	L-HM46 (Summer) L-HM32 (Winter)
Housing pressure	≤0.1 MPa
Working mode	Open circuit system
Weight	68 kg

Dimension



Please inform us your required specification before installation, user guide will be provided.

Specification	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12	A13	A14
SK3V112S	160	8	78	167	247.5	400	G3/4	41	G1/4	66.7	31.8	31.8	M12	22

Specification	A15	A16	A17	A18	A19	A20	A21	A22	A23	shaft 1	shaft 2
SK3V112S	56	234	220.5	102	224	50.8	M12	88.9	60	14T x 12/24DP x 20°	JISD2001 30x12x2.5

All original manufacturer names, part numbers and description are for reference purposes only and it does not imply that any Part listed is the product of these manufacturers.

Application & Features

The SK3V/SK5V DT series is a variable piston and double pump for open-loop heavy load industrial and mineral. Multiple control methods can be selected, including flow control, pressure control, power control and other compound controls. It has the characteristics of high efficiency, long service life, compact design, special housing structure design, low noise, which can be used for moving machines such as the excavator and the crane.

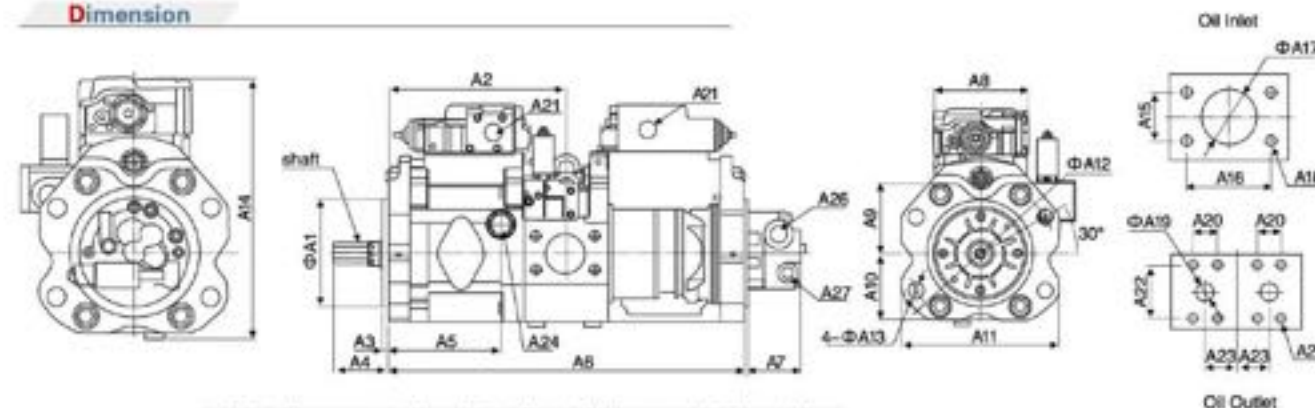


SK3V/SK5V DT Series

Technical Specification

Model	SK3V63 DT	SK3V112 DT	SK3V140 DT	SK3V180 DT	SK5V80 DT	SK5V140 DT	SK5V180 DT	SK5V200 DT
Displacement	2x63 mL/r	2x112 mL/r	2x140 mL/r	2x180 mL/r	2x80 mL/r	2x140 mL/r	2x160 mL/r	2x200 mL/r
Direction of rotation (View from shaft end)	左/右旋							
Rated speed	2650 r/min	2360 r/min	2150 r/min	2150 r/min	2460 r/min	2360 r/min	2150 r/min	1900 r/min
Max. speed	3250 r/min	2700 r/min	2500 r/min	2500 r/min	3000 r/min	2700 r/min	2500 r/min	2200 r/min
Inlet pressure	0.05~0.2 MPa							
Rated pressure	34.3 MPa							
Max. pressure	39.2 MPa							
Recommended oil	L-HM46 (Summer) L-HM32 (Winter)							
Housing pressure	≤0.25 MPa							
Working mode	Open circuit system							
Gear pump displacement	10 mL/r	15 mL/r						
Max. pressure	5 MPa							
Weight	81 kg	125 kg	160 kg	270 kg	81 kg	125 kg	160 kg	165 kg

Dimension



Please inform us your required specification before installation, user guide will be provided.

Specification	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12	A13	A14
SK3V63/SK5V80 DT	125	228	8	76	138	464	78	142	98	89	190	180	18	292
SK3V112/SK5V140 DT	160	265	8	78	167	538	78	142	110	100	234	224	22	329
SK3V140/SK5V180/200 DT	180	305	8	93	190	618	78	142	123	112	256	250	22	366

Specification	Oil Inlet				Oil Outlet									
	A15	A16	A17	A18	A19	A20	A21	A22	A23	A24	A25	A26	A27	shaft
SK3V63/SK5V80 DT	50.8	88.9	60	M12深18	19	23.8	G1/4	50.8	31	G1/2	M10深16	G3/4	G1/2	14T x 12/24DP x 30°
SK3V112/SK5V140 DT	50.8	88.9	60	M12深20	19	23.8	G1/4	50.8	31	G3/4	M10深20	G3/4	G1/2	12T或14T x 2.5J x 20°
SK3V140/SK5V180/200 DT	61.9	106.4	76	M16深26	25	27.8	G1/4	57.2	37.5	G3/4	M12深27	G3/4	G1/2	17T x 2.5J x 20°

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Application & Features

The SK3V/SK5V DTP series is a variable piston and double pump for open-loop heavy load industrial and mineral. Multiple control methods can be selected, including flow control, pressure control, power control and other compound controls. It has the characteristics of high efficiency, long service life, compact design, special housing structure design, low noise, which can be used for moving machines such as the excavator and the crane.

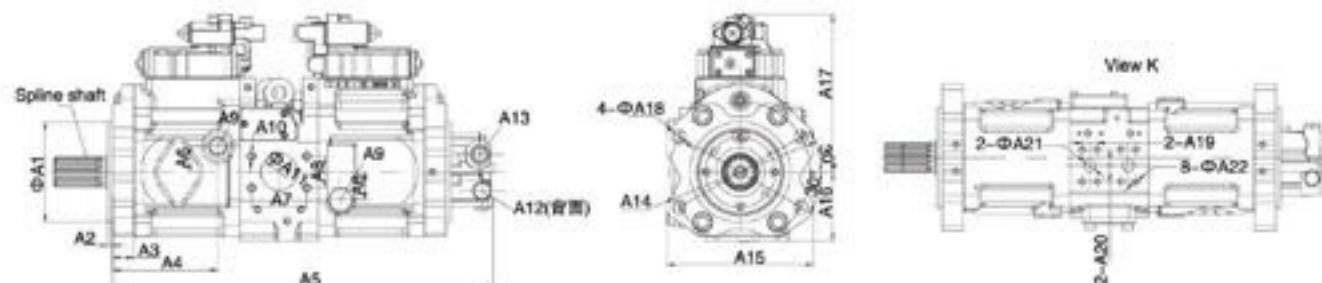


SK3V/SK5V DTP Series

Technical Specification

Model	SK3V63 DTP	SK3V112 DTP	SK3V140 DTP	SK3V180 DTP	SK5V60 DTP	SK5V140 DTP	SK5V160 DTP	SK5V200 DTP
Displacement	2x63 mL/r	2x112 mL/r	2x140 mL/r	2x180 mL/r	2x60 mL/r	2x140 mL/r	2x160 mL/r	2x200 mL/r
Direction of rotation (View from shaft end)	左/右旋							
Rated speed	2650 r/min	2360 r/min	2150 r/min	2150 r/min	2460 r/min	2360 r/min	2150 r/min	1900 r/min
Max. speed	3250 r/min	2700 r/min	2500 r/min	2500 r/min	3000 r/min	2700 r/min	2500 r/min	2200 r/min
Inlet pressure	0.05~0.2 MPa							
Rated pressure	34.3 MPa							
Max. pressure	39.2 MPa							
Recommended oil	L-HM46 (Summer) L-HM32 (Winter)							
Housing pressure	≤0.25 MPa							
Working mode	Open circuit system							
Gear pump displacement	10 mL/r	15 mL/r						
Max. pressure	5 MPa							
Weight	85 kg	130 kg	165 kg	275 kg	85 kg	130 kg	165 kg	170 kg

Dimension



Please inform us your required specification before installation, user guide will be provided.

Specification	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12	A13
SK3V63DTP/SK5V60DTP	125	8	27	138	552	37	88.9	50.8	G1/2	M12	60	G1/2	G3/4
SK3V112DTP/SK5V140DTP	160	8	33.5	167.5	607	41	88.9	50.8	G3/4	M12	60	G1/2	G3/4
SK3V140/180DTP/SK5V160/200DTP	180	8	36	190	688	52.5	106.7	61.9	G3/4	M16	76	G1/2	G3/4

Specification	A14	A15	A16	A17	A18	A19	A20	A21	A22	Shaft 1	Shaft 2
SK3V63DTP/SK5V60DTP	180	190	92	200	18	27.8	57.2	25	M10	14T x 12/24DP x 30°	
SK3V112DTP/SK5V140DTP	224	234	110	252	22	27.8	57.2	25	M10	14T x 12/24DP x 20°	12T x 12/24DP x 20°
SK3V140/180DTP/SK5V160/200DTP	250	256	123	245	22	27.8	57.2	25	M12	17T x 2.5J x 20°	

All original manufacturer names, part numbers and description are for reference purposes only and it does not imply that any Part listed is the product of these manufacturers.

Application & Features

The SK5V DTH series is variable piston double pump. Multiple control modes can be selected to integrate flow control, pressure control, power control and other compound controls. It has the characteristics of high efficiency, long service life, compact design, special housing structure design, low noise requirements, which can be used for moving machines such as the excavator, crane, rotary drilling rig, etc.

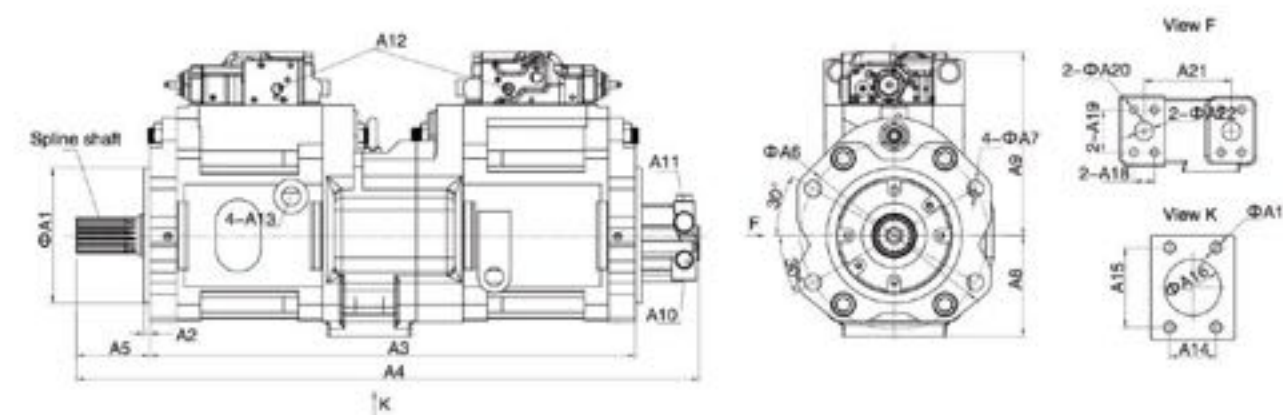


SK5V DTH Series

Technical Specification

Model	SK5V160 DTH	SK5V200 DTH
Displacement	2x160 mL/r	2x200 mL/r
Direction of rotation (View from shaft end)	左右旋	
Rated speed	2100 r/min	1850 r/min
Max. speed	3250 r/min	2200 r/min
Inlet pressure	0.05~0.2 MPa	
Rated pressure	34.3 MPa	
Max. pressure	39.2 MPa	
Recommended oil	L-HM46 (Summer) L-HM32 (Winter)	
Housing pressure	≤0.25 MPa	
Working mode	Open circuit system	
Gear pump displacement	15 mL/r	
Max. pressure	5 MPa	
Weight	160 kg	165 kg

Dimension



Please inform us your required specification before installation, user guide will be provided.

Specification	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11
SK5V160/200DTH	180	8	648	825	91	250	22	135	175	PF3/4	PF1/2

Specification	A12	A13	A14	A15	A16	A17	A18	A19	A20	A21	A22
SK5V160/200DTH	PF1/4	PF3/4	61.9	106.4	67	M16	27.8	57.2	M12	116	25

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Application & Features

The SK5V DPH series is a variable piston and double pump for open-loop heavy load industrial and mineral. Multiple control methods can be selected, including flow control, pressure control, power control and other compound controls. It has the characteristics of high efficiency, long service life, compact design, special housing structure design, low noise, which can be used for moving machines such as the excavator and the crane.

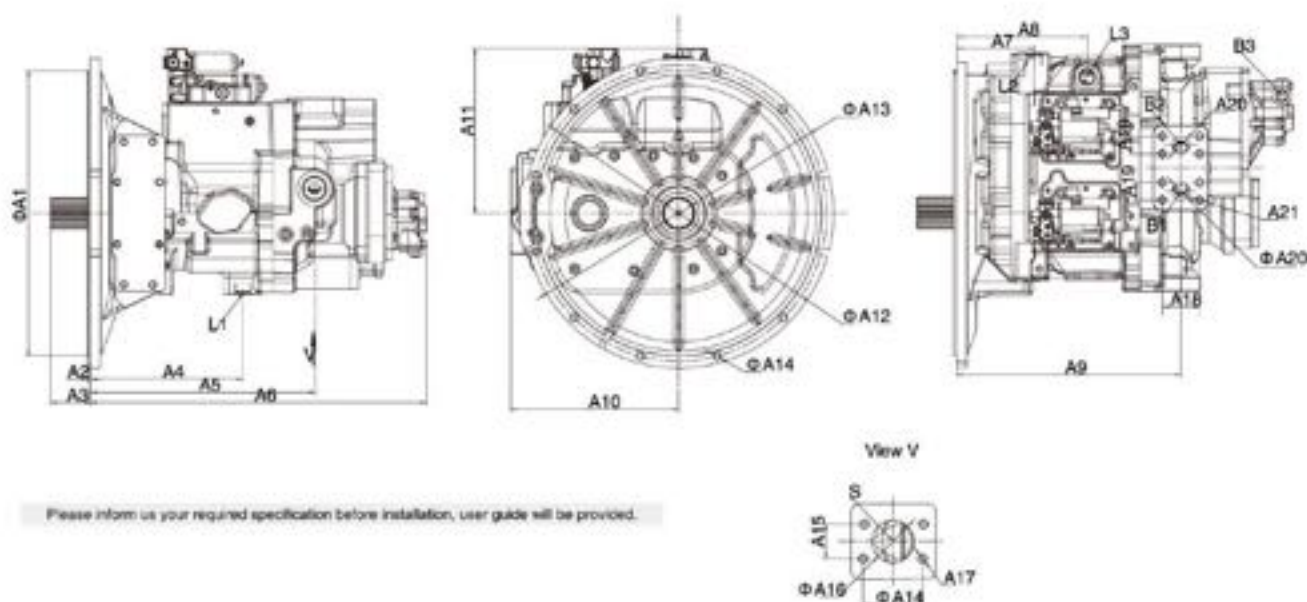


SK5V212 DPH

Technical Specification

Model	SK5V212 DPH
Displacement	2 x 212mL/r
Rated speed	1500 r/min
Rated pressure	30 MPa
Max. pressure	35 MPa
Direction of rotation (View from shaft end)	右旋
Weight	271 kg

Dimension



Please inform us your required specification before installation, user guide will be provided.

Specification	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12	A13	A14
SK5V212 DPH	511	5	71	273	403	602	138.5	233	401	301	295	530	555	13.5

Specification	Oil Inlet S				Oil Outlet B1, B2, B3					Oil Drain Port				shaft
	A14	A15	A16	A17	A18	A19	A20	A21	B3	L1	L2	L3		
SK5V212 DPH	106.4	61	75.9	M16	66.7	31.8	32	M14	G1/2	G3/4	G3/4	G3/4	17T x 6/16DP x 30°	

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SKS HYDRAULICS

Application & Features

The SK7V series is a variable piston double-pump used for open-loop heavy load conditions. Multiple control methods are optional, which can integrate combined control such as flow control, pressure control, power control and other modes. It has the characteristics of compact design, short installation length, high volume efficiency and special housing structure design to achieve low noise requirements, which is applicable to moving machines such as the excavator and crane.

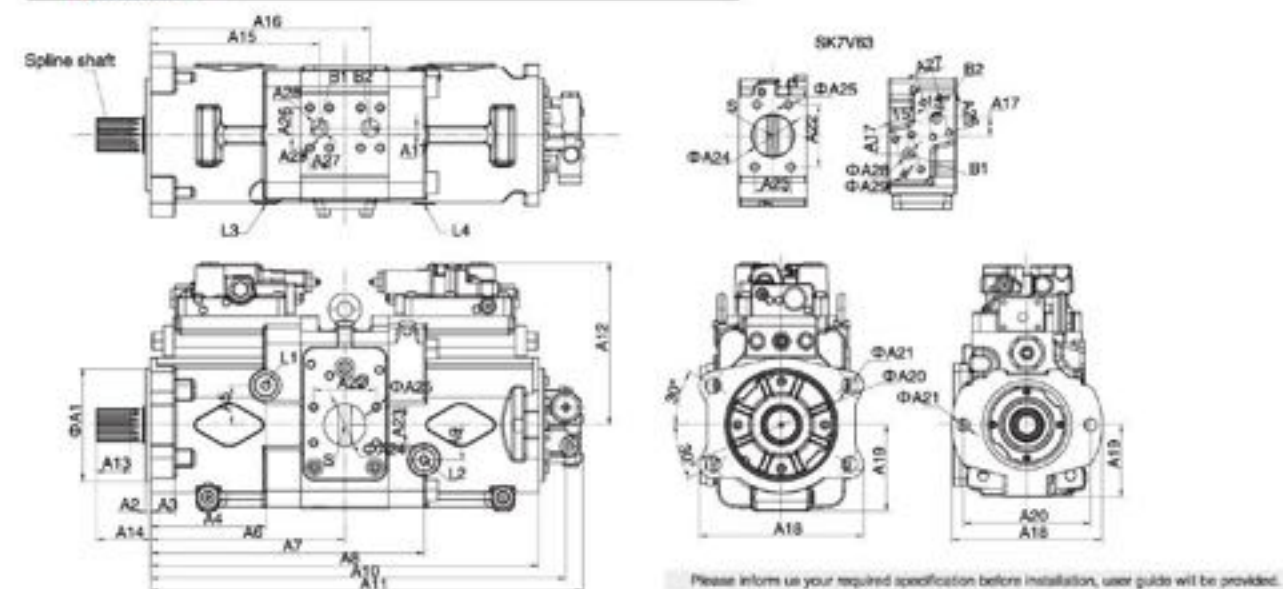


SK7V Series

Technical Specification

Model	SK7V63	SK7V125	SK7V138	SK7V180	SK7V260(CAT)	SK7V280(SANY)
Displacement	2x63 mL/r	2x125 mL/r	2x138 mL/r	2x180 mL/r	2x245 mL/r	2x280 mL/r
Rated speed	2650 r/min	2360 r/min	2200r/min	1800r/min	2100r/min	2100r/min
Rated pressure	35 MPa				37 MPa	
Max. pressure	40 MPa				42 MPa	
Direction of rotation (View from shaft end)	左/右旋					
Weight	82 kg	145 kg	145 kg	172.5 kg	265 kg	265 kg

Dimension



Please inform us your required specification before installation, user guide will be provided.

Specification	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12	A13	A14	A15	A16	A17	A18
SK7V63	127	13	23	129.5	42	201	347	401	42	440	465.5	226.5	47	76	181	221	26	214
SK7V125	160	8	34	163	56	276	388	551	56	588.5	613	228	54	77.5	239.5	311.5	10	233
SK7V138	160	8	34	163	56	276	388	551	56	588.5	613	230	49	78	239.5	311.5	10	233
SK7V180	180	12.4	32	187	63	293.5	400	587	63	-	634.5	242.5	76	120.4	264	323	32.5	257.6
SK7V280(CAT)	200	12.5	48	224	80	353	482	697	70	-	706	273	105	135.3	313	393	0	308
SK7V280(SANY)	200	12.5	48	224	80	353	482	697	70	761	784.5	273	95	115.3	313	393	0	308

Specification	Oil Inlet S						Oil Outlet B1, B2				Oil Drain Port				shaft	
	A19	A20	A21	A22	A23	A24	A25	A26	A27	A28	A29	L1	L2	L3		L4
SK7V63	102.3	181	19	88.9	50.8	60	M12	50.8	23.8	16	M10	G1/2	-	-	G1/2	14T x 12/24DP x 30°
SK7V125	122	224	22	88.9	50.8	60	M12	57.2	27.6	25	M12	G3/4	-	-	-	14T x 2.5DP x 20°
SK7V138	122	224	22	88.9	50.8	60	M12	57.2	27.6	25	M12	G3/4	-	-	-	17T x 2.5DP x 20°
SK7V180	143	250	22	120.7	69.9	76	M16	66.7	31.8	32	M12	1-1/8-UNF	-	3/8-UNF	-	15T x 8/16DP x 30°
SK7V280(CAT)	144	300	26	120.7	70	89	M16	66.7	31.8	32	M12	1-1/8-UNF	-	3/8-UNF	-	17T x 8/16DP x 30°
SK7V280(SANY)	144	300	26	120.7	70	89	M16	66.7	31.8	32	M12	G3/4	-	G1/4	-	16T x 3DP x 20°

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Application & Features

The SHPV series is a diagonal shaft variable double-piston pump used for open-loop heavy loading with left/right double-pump structure and optional multiple control modes. It has the characteristics of high efficiency, long service life, compact design, extremely short installation length, high volume efficiency, etc., which can be widely used in construction machinery such as the excavator and crane.

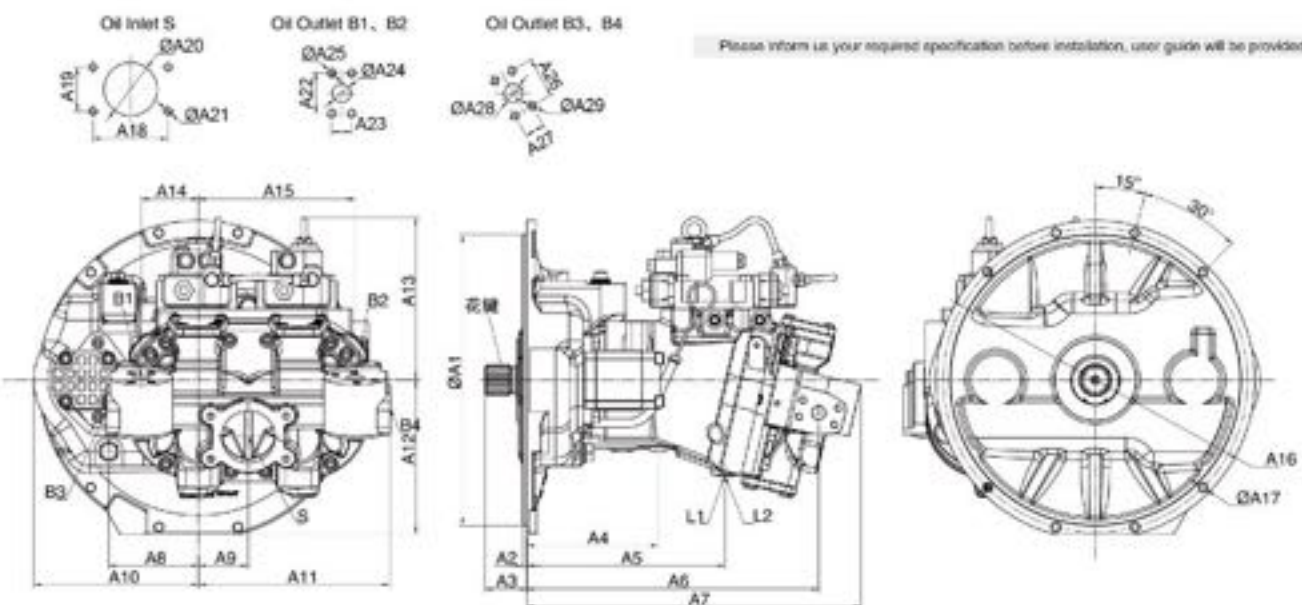


SHPV Series

Technical Specification

Model	SHPV102	SHPV118
Displacement	2x102 mL/r	2x118 mL/r
Rated speed	2000 r/min	
Max. speed	2500 r/min	
Rated pressure	34.3 MPa	
Max. pressure	39.2 MPa	
Direction of rotation (view from shaft end)	R: Clockwise	
Weight	186 kg	

Dimension



Please inform us your required specification before installation, user guide will be provided.

Specification	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12	A13	A14	A15	A16	A17
SHPV102	409.6	5.5	58.5	185.5	279	411.2	470.5	126	70.5	231.7	270	217	228.6	80	221	428.5	11
SHPV118	409.6	5.5	34	163	56	276	388	551	58	588.5	613	228	54	77.5	239.5	311.5	10

Oil Inlet S		Oil Outlet B1, B2				Oil Outlet B3, B4				Oil Drain Port			
Specification	A18	A19	A20	A21	A22	A23	A24	A25	A26	A27	A28	A29	shaft
SHPV102	106.4	62	76	M12	57.2	27.8	20	M12	50.8	23.8	19	M10	G3/8 - 15T x 2.5DP x 20°
SHPV118	106.4	62	76	M12	57.2	27.8	20	M12	50.8	23.8	19	M10	G3/8 - 15T x 2.5DP x 20°

All original manufacturers names, part numbers and description are for reference purposes only and it does not imply that any Part listed is the product of these manufacturers.

Application & Features

The SHPV145 is a kind of inclined shaft variable piston pump. Multiple control modes are optional. It has the characteristics of high efficiency, long service life, compact design, extremely short installation length, high volume efficiency, etc., which can be widely used in construction machinery such as the excavator and crane.

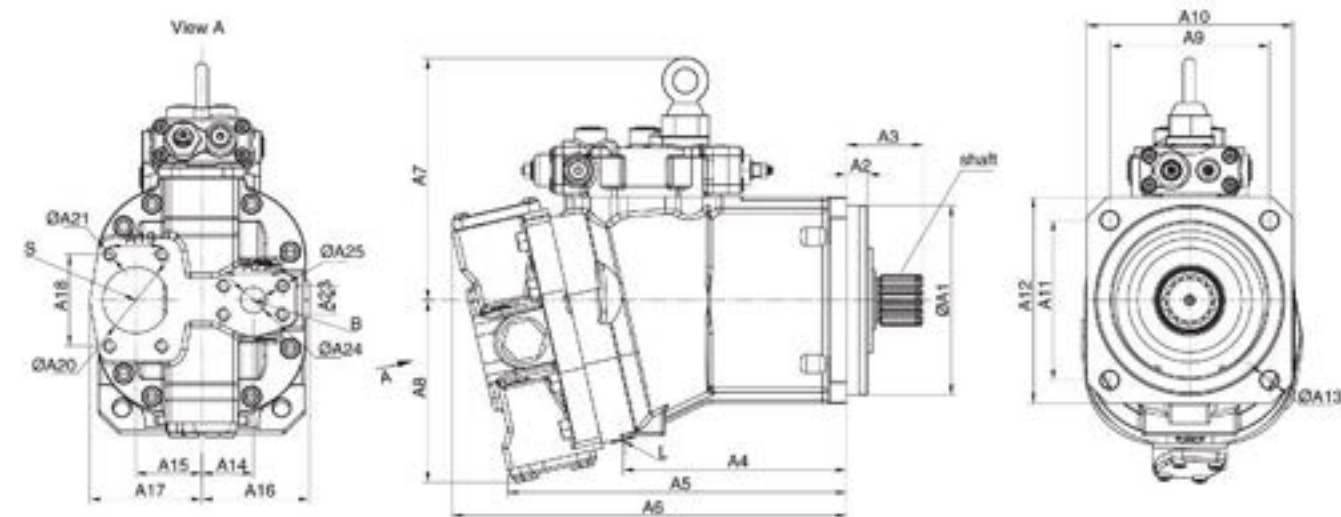


SHPV145

Technical Specification

Model	SHPV145
Displacement	145 mL/r
Rated speed	1800 r/min
Max. speed	2000 r/min
Rated pressure	34.3 MPa
Max. pressure	39.2 MPa
Direction of rotation (view from shaft end)	L: Counter clockwise
Weight	72 kg

Dimension



Please inform us your required specification before installation, user guide will be provided.

Specification	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12	A13	A14	A15	A16	A17
SHPV145	184	20.8	74.3	217	329	383	235	177	155.5	200	155.5	200	17.5	50	64	104.3	108.8

Oil Inlet S				Oil Outlet B						
Specification	A18	A19	A20	A21	A22	A23	A24	A25	Dr L	shaft
SHPV145	88.9	50.8	63.5	M12	57.2	27.8	25	M12	G3/8	15T x 8/16DP x 30°

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Application & Features

The SAP2D series is a piston pump for small-type multi-function requirements with compact structure, single cylinder and double-output. It can fully absorb engine power. The pressure of the third pump can be used to realize power change. The through shaft drive can connect the third pump in series.

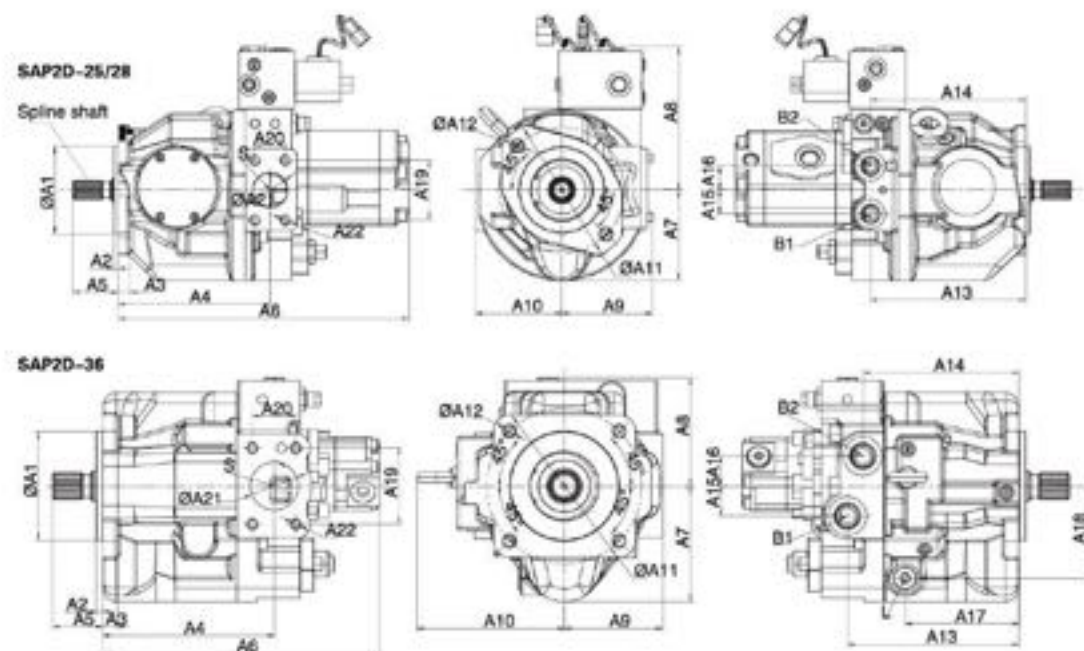


SAP2D Series

Technical Specification

Model	SAP2D-25/28	SAP2D-36
Displacement	2x27.5 mL/r	2x36 mL/r
Rated speed	2600 r/min	2200 r/min
Max. speed	26 MPa	
Rated pressure	R:Clockwise	
Weight	27 kg	45 kg

Dimension



Please inform us your required specification before installation, user guide will be provided.

Specification	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12	A13	A14
SAP2D-25/28	101.6	5	14	177.5	53	339.2	105.5	167.2	105.8	101	146	14	181.5	181.5
SAP2D-36	127	6.5	17	200	58.7	323.2	135	126	115	172	181	14	200.2	182.5

Oil Inlet S

Oil Outlet B1, B2

Specification	A15	A16	A17	A18	A19	A20	A21	A22	B1	B2	Dr L	shaft
SAP2D-25/28	28	28	-	-	69.9	35.7	41	M12	G1/2	G1/2	-	13T x 16/32DP x 30°
SAP2D-36	35	35	132.8	107.5	88.9	50.8	56	M12	G3/4	G3/4	G1/2	14T x 12/24DP x 30°

All original manufacturer names, part numbers and description are for reference purposes only and it does not imply that any Part listed is the product of these manufacturers.



SKS HYDRAULICS

Application & Features

The SA7VO55 is an axial tapered piston variable pump with a diagonal shaft structure, which is used for open-circuit hydrostatic transmission. The output flow is proportional to the rotating speed and pump displacement, and the flow is stepless adjustable from maximum to zero (Q_{max} to $Q_{min} = 0$). The multiple variable modes and a solid and compact bearing system makes the pump has long service life, which is applicable to travel machinery and industrial fields.

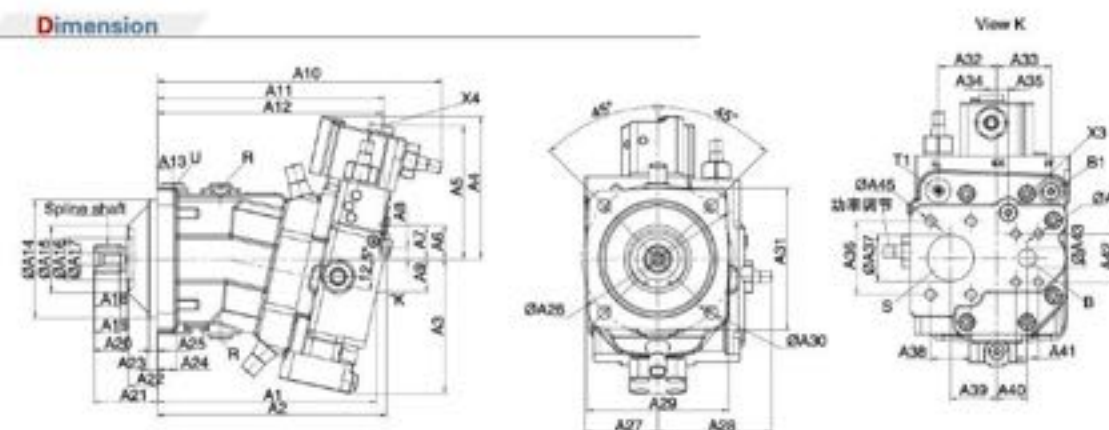


SA7VO Series

Technical Specification

Model	SA7VO55	SA7VO107	SA7VO160
Displacement	54.8 mL/r	107 mL/r	160 mL/r
Direction of rotation (View from shaft end)	L:Counter clockwise		
Max. speed	2500 r/min	2150 r/min	1900 r/min
Rated pressure	35 MPa		
Max. pressure	40 MPa		
Factory power setting	40KW(Speed 2300r/min)		110KW(Speed 2300r/min)
Recommended oil	L-HM46 (Summer) L-HM32 (Winter)		
Working mode	Open circuit system		
Weight	25 kg	49 kg	71 kg

Dimension



Specification	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12	A13	A14	A15	A16	A17	A18	A19	A20	A21	A22
SA7VO55	232	242	142	151	141	36	35	12	35	301	241	238	16	125	71	45	M12	27	28	35	67	31
SA7VO107	272	289	170	150	-	46	37	18	41	307	286	234	16	160	90	60	M12	28	37	45	85.5	45
SA7VO160	310	328	193	188	175	65	56	36	47	340	333	328	20	180	105	70	M16	36	42	51	90	39

Specification	A23	A24	A25	A26	A27	A28	A29	A30	A31	A32	A33	A34	A35	A36	A37	A38	A39	A40	A41	A42	A43
SA7VO55	10	20	7.5	160	77	120	150	13.5	150	62	57	6	12	77.8	49	42.9	49	32	23.8	50.8	19
SA7VO107	14.6	25	7.5	200	95	115	190	17.5	190	74	10	18	22	88.9	62	50.8	55	36	22.8	57.2	25
SA7VO160	10.5	20	7.5	224	115	133	210	17.5	210	84	88	0	22	106.4	75	61.4	66	40	31.8	66.7	32

Specification	A44	A45	U	R	B1	T1	X3	X4	shaft
SA7VO55	M10-17	M12-20	M18X1.5	M18X1.5	M14X1.5	M12X1.5	M12X1.5	M14X1.5	DIN5480 W30 x 2 x 30 x 14 x 9g
SA7VO107	M12-17	M12-17	M18X1.5	M18X1.5	-	-	-	M14X1.5	DIN5480 W40 x 2 x 30 x 18 x 9g
SA7VO160	M14-19	M16-24	M22X1.5	M26X1.5	M18X1.5	M12X1.5	M16X1.5	M14X1.5	DIN5480 W45 x 2 x 30 x 21 x 9g

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Application & Features

The SM5X series is diagonal disc piston motor with built-in mechanical brake, buffer relief valve and oil supply valve, which integrates the arrangement of rotating parts, mechanical brake parts and auxiliary functional valves. The mounting flange is directly connected to the reducer gear ring. High-voltage compactness transformation improves output power. It can be used in rotary occasions such as the excavator and rotary drilling rig.

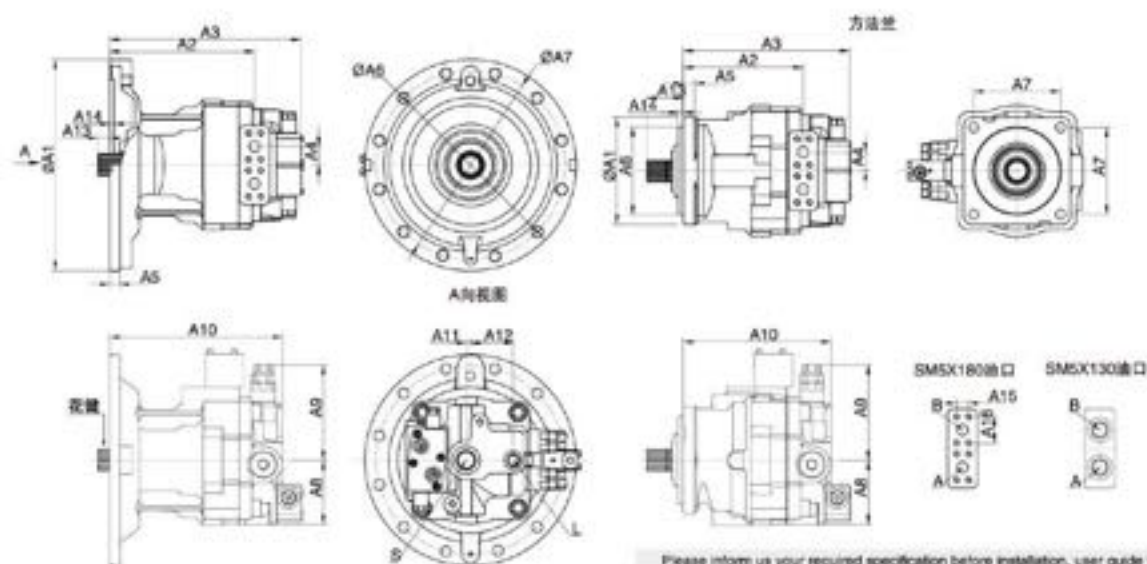


SM5X Series

Technical Specification

Model	SM5X130	SM5X180
Displacement	130 mL/r	170 mL/r
Max. speed	1850 r/min	1680 r/min
Rated pressure	32.4 MPa	
Max. pressure	39.2 MPa	
Direction of rotation (View from shaft end)	R:Clockwise	L:Counter clockwise
Weight	55 kg	61 kg

Dimension



Please inform us your required specification before installation, user guide will be provided.

Specification	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12	A13
SM5X130-A(Round)	319	227	325	34	17	259	282.6	113	157	277	8	56	28
SM5X130-B(Round)	332	227	325	34	17	279	302	113	157	277	8	56	28
SM5X130-C(Quadrate)	195	194	292	34	20	160	158.6	113	157	244	8	56	61
SM5X180A(Quadrate)	195	218	305	34	20	160	158.6	117	174	269	8	78	67

Specification	A14	A15	A16	A	B	L	S	shaft
SM5X130	6	-	-	G3/4	G3/4	G3/8	G3/4	JISD2001 19T x 1.667M x 20°
SM5X130-A	6	-	-	G3/4	G3/4	G3/8	G3/4	JISD2001 19T x 1.667M x 20°
SM5X130-C	9	-	-	G3/4	G3/4	G3/8	G3/4	JISD2001 19T x 1.667M x 20°
SM5X180- Quadrate	9	22.2	47.8	Ø20 4-M10 - 20	Ø20 4-M10 - 20	G1/2	G1	JISD2001 14T x 2.5M x 20°

All original manufacturer names, part numbers and description are for reference purposes only and it does not imply that any Part listed is the product of these manufacturers.



SKS HYDRAULICS

Application & Features

The SA22VG045 is a high-pressure diagonal disc variable piston double pump with characteristics of anti-overload, high pressure, high rotating speed, etc., which is suitable for closed hydraulic system of construction machinery such as skid loader.

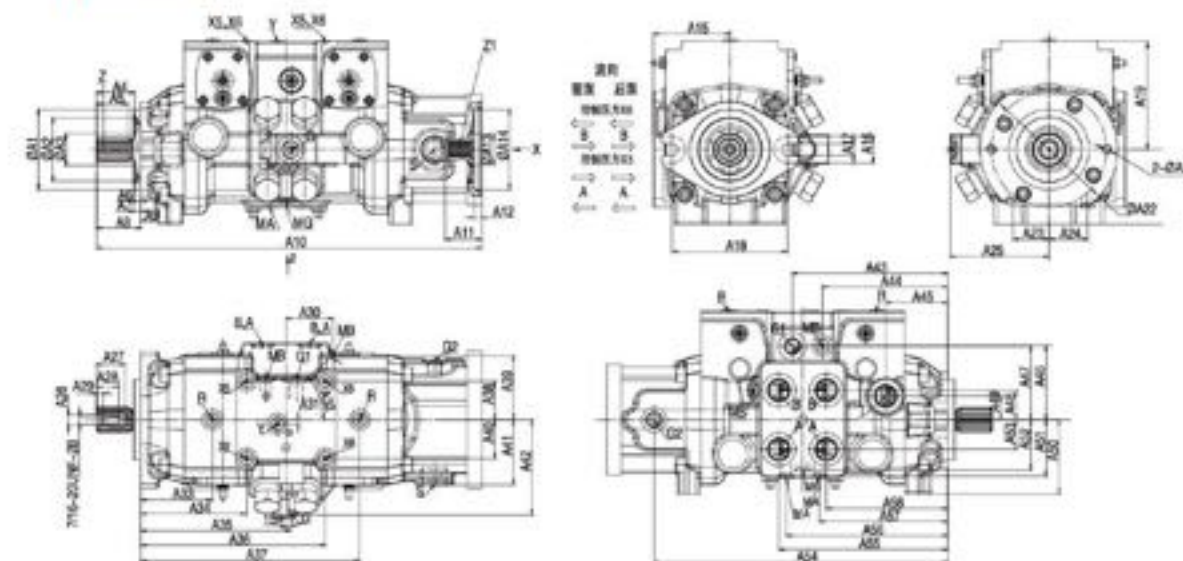


SA22VG045

Technical Specification

Model	SA22VG045	Gear pump
Displacement	2x46 mL/r	14.9 mL/r
Rated pressure	35 MPa	2.5 MPa
Max. pressure	42 MPa	4 MPa
Rated speed	2200 r/min	
Max. speed	3300 r/min	
Direction of rotation (view from shaft end)	R:Clockwise	
Working mode	Closed circuit system	
Control Mode	DA, HW	
Weight	55 kg	

Dimension



Specification	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12	A13	A14	A15	A16	A17
SA22VG045	101.6	80	40	48	40	7.2	9.2	56	17	487.3	47.5	10	39	101.6	97	34	14.5

Specification	A18	A19	A20	A21	A22	A23	A24	A25	A26	A27	A28	A29	A30	A31	A32	A33	A34
SA22VG045	146	137.5	M12	94	146	45	49	125.1	13	36	28	8	60	5.5	40°	90.2	133.6

Specification	A35	A36	A37	A38	A39	A40	A41	A42	A43	A44	A45	A46	A47	A48	A49	A50	A51
SA22VG045	188.9	232.2	276.6	49	81.3	49	82	120	196.4	158.4	78.4	94	93	37.5	30	94	71.5

Specification	A52	A53	A54	A55	A56	A57	A58	Shaft 1	Shaft 2	Standard
SA22VG045	63.5	37.5	371.2	213.4	204.2	162.6	153.4	1 1/4in 14T x 12/24DP	1 1/8in 13T x 16/32DP	ANSI B92.1a

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Application & Features

The SA4VG is a swash plate axial variable piston pump for hydrostatic transmission in closed circuits. The flow is proportional to the output speed and displacement and can be steplessly adjusted. A wide range of compatible control devices provide a variety of control and adjustment functions and the built-in charge pump is used as a supply and control pump, and the maximum charge pressure is limited by the built-in charge relief valve.

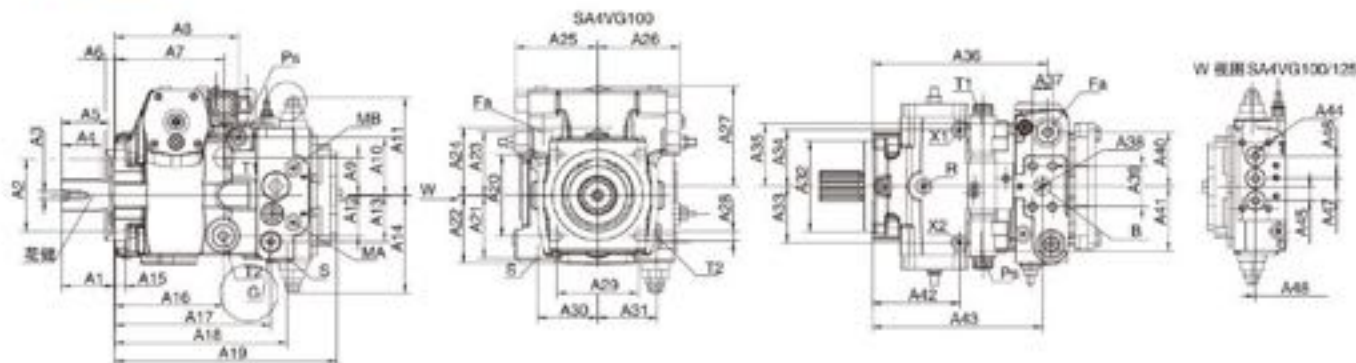


SA4VG Series

Technical Specification

Model	SA4VTG90	SA4VG100	SA4VG125
Displacement	90	100	125
Direction of rotation (view from shaft end)		R:Clockwise	
Min. speed	500 r/min	500 r/min	500 r/min
Max. speed	3300 r/min	3300 r/min	2850 r/min
Rated pressure		40 MPa	
Max. pressure		45 MPa	
Gear pump		20 mL/r	
Recommended oil		L-HM46 (Summer) L-HM32 (Winter)	
Working mode		Closed circuit system	

Dimension



Please inform us your required specification before installation, user guide will be provided.

Specification	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12	A13	A14	A15	A16	A17	A18	A19	A20	A21	A22
SA4VTG90	56.9	Ø100.5	7/16-14UNC-2B	41	48.2	12.7	153	157	53	77	110	53	/	110	15	153	/	234	294	115	102	AB,90.3
SA4VG100	74.4	Ø100.5	7/16-14UNC-2B	55	65.6	12.7	154	174	53.1	81.2	137	56.8	65	137	15	152	219	242	312	115	88	A,95
SA4VG125	75	Ø91	5/8-11UNC-2B	56	67	12.7	185	185	75	91	192	75	52	149	20	185	239	274	326	162	103	A,115

Specification	A23	A24	A25	A26	A27	A28	A29	A30	A31	A32	A33	A34	A35	A36	A37	A38	A39	A40	A41	A42	A43
SA4VTG90	/	AB,90.3	116	116	185	14.3	115	4.2	83	Ø127(0-0.063)	79	79	83.1	/	27.8	Ø25.8	57.2	/	80	121.8	229.1
SA4VG100	89.5	B,95	116	116	141	14.3	115	84	83	Ø127(0-0.063)	79	79	88	245	27.8	Ø25	57.2	76	90.7	121.7	238.1
SA4VG125	103	B,115	137	137	192	21	162	82.5	94	Ø152.4(0-0.063)	94	94	96	279	31.8	Ø32	66.7	86	90	143.5	273.4

Specification	A44	A45	A46	A47	A48	X1,X2	R	T1	T2
SA4VTG90	/	/	/	/	/	M12 × 1.5-12	M12 × 1.5-12	M26 × 1.5-16	M26 × 1.5-16
SA4VG100	M8 - 10	19	31	31	245	M12 × 1.5-12	M12 × 1.5-12	M26 × 1.5-16	M26 × 1.5-16
SA4VG125	M8 - 12.5	23	43	43	268	M16 × 1.5-12	M16 × 1.5-12	M33 × 2-18	M33 × 2-18

All original manufacturer names, part numbers and description are for reference purposes only and it does not imply that any Part listed is the product of these manufacturers.



SKS HYDRAULICS

Application & Features

The SMSF-340 is a swash plate axial variable piston motor for hydrostatic transmission in open and closed circuits. The driving speed is proportional to the flow and displacement, which can realise the automatic switching between high speed and low speed. Built-in high-pressure buffer relief valve can effectively protect and improve the service life of the motor. It is widely used in the mobile system of various construction machines, such as excavators and loaders. Fixed displacement and high efficiency make it maintain good working performance under various working conditions.

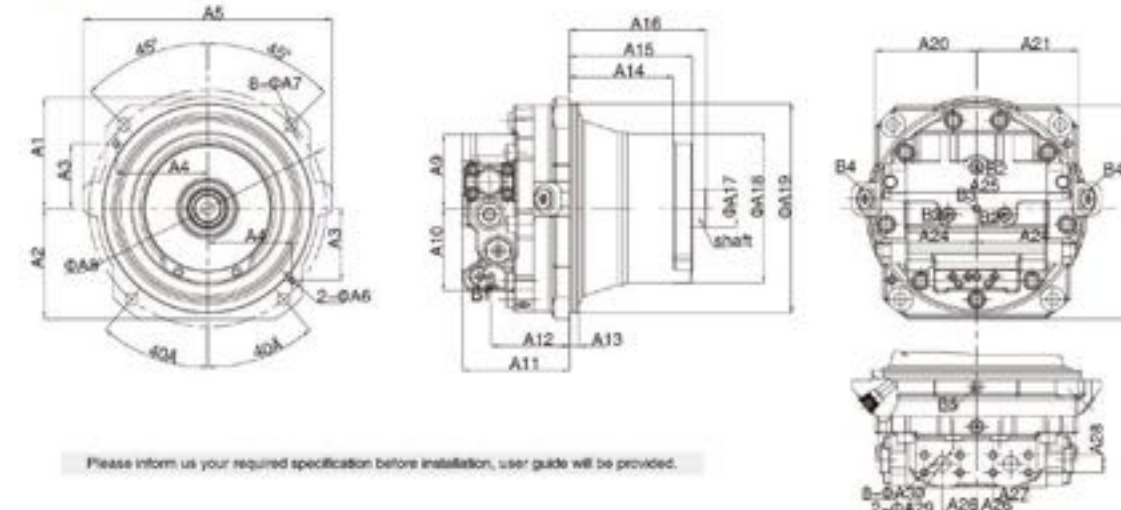


SMSF340

Technical Specification

Model	SMSF-340VP-FL18	SMSF-340VP-FH7	SMSF-340VP-FH8	SMSF-340VP-EH7
Displacement	304.1 mL/r	304.1 mL/r	337.2 mL/r	337.2 mL/r
Displacement	175.7 mL/r	196.8 mL/r	228.6 mL/r	228.6 mL/r
Direction of rotation (view from shaft end)		R:Clockwise	L:Counter clockwise	
Max. allowable flow			494 L/min	
Rated pressure			34.3 Mpa	
Buffer pressure			14.7 Mpa	
Control mode			Leading variable + Automatic pressure switching	

Dimension



Please inform us your required specification before installation, user guide will be provided.

Specification	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12	A13	A14	A15	A16	A17	A18
SMSF-340VP-FL18	177.5	177	104	146	399	M12	20	380	119	132	171.5	125.5	15	166	197	219	59.8	239
SMSF-340VP-FH7	177.5	177	104	146	399	M12	20	380	119	132	171.5	125.5	15	166	197	219	59.8	239
SMSF-340VP-FH8	177.5	177	104	146	399	M12	20	380	119	132	171.5	125.5	15	166	197	219	59.8	239
SMSF-340VP-EH7	177.5	177	104	146	399	M12	20	380	119	132	171.5	125.5	15	164	194	216	59.8	239

Specification	A19	A20	A21	A22	A23	A24	A25	A26	A27	A28	A29	A30	B1	B2	B3	B4	B5	轴伸
SMSF-340VP-FL18	336.37	163	163	164.5	177	161	309	55	57.2	27.8	25	M12	G1/4	G1/4	M12	G3/4	M12	
SMSF-340VP-FH7	336.37	163	163	164.5	177	161	309	55	57.2	27.8	25	M12	G1/4	G1/4	M12	G3/4	M12	JIS D 200145 × 16 × 2.5
SMSF-340VP-FH8	336.37	163	163	164.5	177	161	309	55	57.2	27.8	25	M12	G1/4	G1/4	M12	G3/4	M12	
SMSF-340VP-EH7	336.37	163	163	164.5	177	161	309	55	57.2	27.8	25	M12	G1/4	G1/4	M12	G3/4	M12	

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Application & Features

The SF12 ISO is a swash plate bend type fixed displacement piston motor with high efficiency, low noise and high reliability. With bevel gear driving, drive shaft and cylinder block are at an angle of 40°, making the motor compact and light weight. It is suitable for fan and high frequency vibration pile driver.

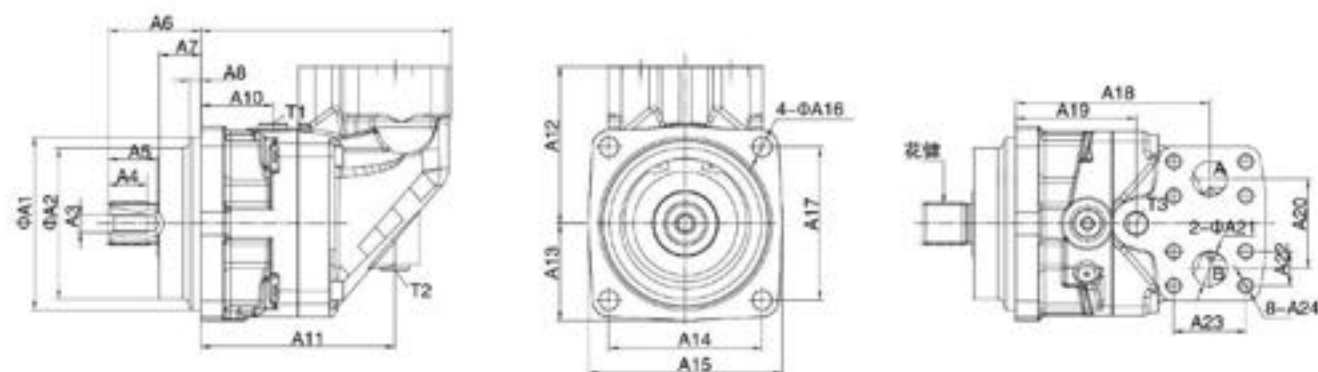


SF12 ISO Series

Technical Specification

Model	SF12-080	SF12-090	SF12-110	SF12-125
Displacement	80.4 mL/r	93 mL/r	110.1 mL/r	125 mL/r
Direction of rotation (view from shaft end)	R:Clockwise		L:Counter clockwise	
Rated speed	35 Mpa			
Max.pressure	42 Mpa			
Max.speed	4800 r/min	4600 r/min	4400 r/min	4200 r/min
Recommended oil	L-HM46 (Summer)		L-HM32 (Winter)	
Housing pressure	≤ 3 bar			

Dimension



Please inform us your required specification before installation, user guide will be provided.

Specification(ISO)	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12	A13	A14	A15
SF12-080/090	140	128	M16	36	45	77.5	30.5	10	216	72.4	172.4	135	80	127.2	155
SF12-110/125	160	140	M16	36	45	85.5	38.5	10.5	230.8	66.5	179	145	89.5	141.5	179

Specification(ISO)	A16	A17	A18	A19	A20	A/B				Oil Drain Port			Shaft		
						A21	A22	A23	A24	T1/T2	T3	Z	DP	a	
SF12-080/090	13.5	127	173	-	75	25	27.8	57.2	M12;- 20	M22 × 1.5	-	18	2	30°	
SF12-110/125	18	142	179	111	83	32	31.8	66.7	M14;- 26	M22 × 1.5	M22 × 1.5	18	2	30°	

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SKS HYDRAULICS

Application & Features

The SF12 SAE is a swash plate bend type fixed displacement piston motor with high efficiency, low noise and high reliability. With bevel gear driving, drive shaft and cylinder block are at an angle of 40°, making the motor compact and light weight. It is suitable for fan and high frequency vibration pile driver.

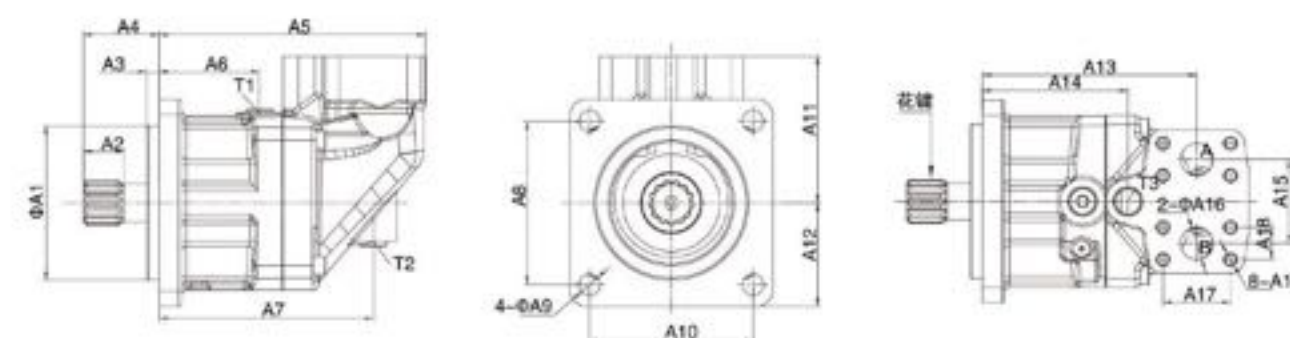


SF12 SAE Series

Technical Specification

Model	SF12-080	SF12-090	SF12-110	SF12-125
Displacement	80.4 mL/r	93 mL/r	110.1 mL/r	125 mL/r
Direction of rotation (View from shaft end)	R:Clockwise		L:Counter clockwise	
Rated speed	35 Mpa			
Max.pressure	42 Mpa			
Max.speed	4800 r/min	4600 r/min	4400 r/min	4200 r/min
Recommended oil	L-HM46 (Summer)		L-HM32 (Winter)	
Housing pressure	≤ 3 bar			

Dimension



Please inform us your required specification before installation, user guide will be provided.

Specification(SAE)	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12	A13	A14	A15
SF12-080/090	127	26	12.5	55.5	240.6	95	197	114.5	14	114.5	135	78	197.1	-	75
SF12-110/125	152.4	40	12.5	75	263.3	99	211.6	161.6	21	161.6	145	102	211.8	143.8	83

Specification(SAE)	A/B				Oil Drain Port			Shaft		
	A16	A17	A18	A19	T1/T2	T3	Z	DP	a	
SF12-080/090	25	57.2	27.8	7/16-14UNC深27	7/8-14UNF	-	14	12/24DP	30°	
SF12-110/125	32	66.7	31.8	1/2-13UNC深25	1 1/16-12UN	1 1/16-12UN	13	8/16DP	30°	

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Application & Features

The SF11 is a bend shaft type fixed displacement piston motor with high efficiency, low noise and high reliability. With bevel gear driving, drive shaft and cylinder block at an angle of 40°, making the motor structure is compact, light weight and the back cover is integrated with a replenishment valve. Suitable for fan and forestry machinery chain saws.

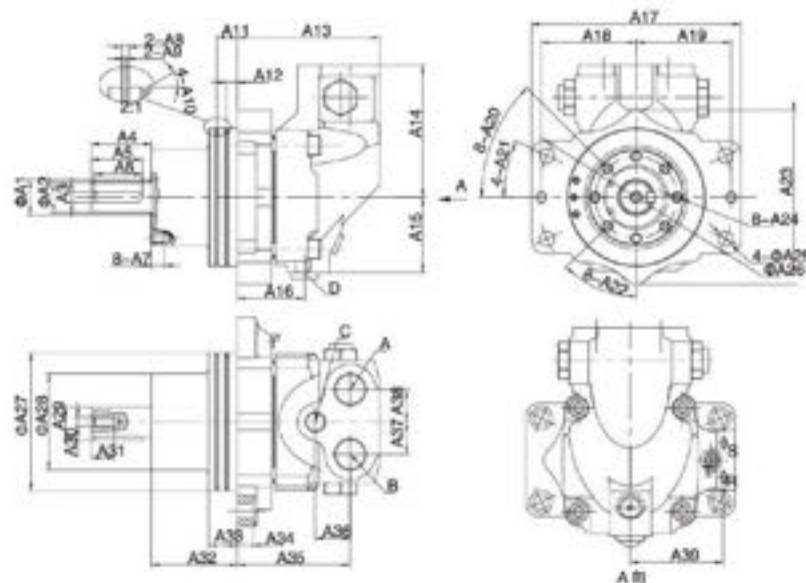


SF11-019

Technical Specification

Model	SF11-019	
Displacement	19 mL/r	
Direction of rotation (View from shaft end)	R:Clockwise	L:Counter clockwise
Max pressure	42 Mpa	
Max speed	8900 r/min	
Recommended oil	L-HM46 (Summer) L-HM32 (Winter)	
Housing pressure	≤ 3 bar	

Dimension

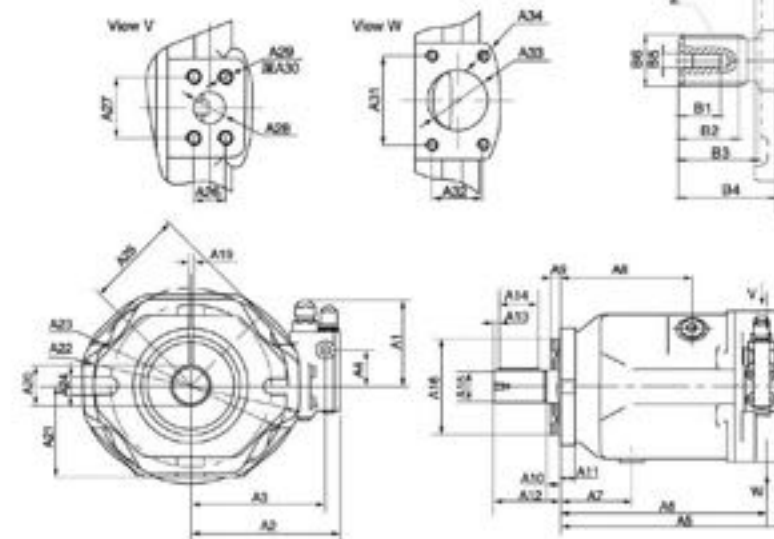


Please inform us your required specification before installation, user guide will be provided.

Specification	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12	A13	A14	A15
SF11-019	30	25	8	50	42.4	40	10.8	3	1.6	30°	17	9	118.4	110	63
Specification	A16	A17	A18	A19	A20	A21	A22	A23	A24	A25	A26	A27	A28	A29	A30
SF11-019	56	174	79	79	45°	25°	45°	145	M8	12.5	164	115	80	28	M8
Specification	A31	A32	A33	A34	A35	A36	A37	A38	A39	A/B		C/D		C/D	
SF11-019	19	71.5	24	13	94	29	27	27	77	BSP3/4		BSP3/8		BSP1/8	

All original manufacturer's names, part numbers and description are for reference purposes only and it does not imply that any Part listed is the product of these manufacturers.

Dimension



Please inform us your required specification before installation, user guide will be provided.

Technical Specification

Model	SA10VSO18/31	SA10VSO28/31	SA10VSO45/31	SA10VSO71/31	SA10VSO100/31	SA10VSO140/31
Displacement	18 mL/r	28 mL/r	45 mL/r	71 mL/r	100 mL/r	140 mL/r
Direction of rotation (View from shaft end)	R:Clockwise			L:Counter clockwise		
Rated speed	2200 r/min	2000 r/min	1500 r/min	1500 r/min	1500 r/min	1500 r/min
Max speed	3300 r/min	3000 r/min	2600 r/min	2200 r/min	2000 r/min	1800 r/min
Absolute pressure	0.03-3 MPa					
Rated pressure	28 MPa					
Max pressure	35 MPa					
Recommended oil	L-HM46 (Summer)			L-HM32 (Winter)		
Housing pressure	≤0.2 MPa					
Working mode	Open circuit system					

Specification	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12	A13	A14	A15	A16	A17
SA10VSO18/31	105	125	119	40	195	145	43	83	7	8	11.5	26	2	25	Φ18	Φ80	63
SA10VSO28/31	105	135	119	40	206	165	40	90	9	10	13	46	2	32	Φ22	Φ100	80
SA10VSO45/31	105	145	129	40	224	184	45	96	9	10	13	52	3	36	Φ25	Φ100	90
SA10VSO71/31	105	160	143	40	257	217	53	115	9	10	20	60	2.5	45	Φ32	Φ125	104
SA10VSO100/31	105	165	148	40	326	275	95	175	9	10	17	80	1.5	68	Φ40	Φ125	100
SA10VSO140/31	105	209	183	40	337	275	78	173	9	10	21	92	1.5	80	Φ45	Φ180	110

Specification	A18	A19	A20	A21	A22	A23	A24	A25	A26	A27	A28	A29	A30	A31	A32	A33	A34
SA10VSO18/31	63	6	20.5	66		109	11	66	22.2	47.6	20	M10	20	52.4	26.2	25	M10
SA10VSO28/31	80	6	24.5	75	174	140	14	74	22.2	47.6	20	M10	17	58.7	30.2	32	M10
SA10VSO45/31	90	8	28	81	177	140	14	83	26.2	52.4	25	M10	17	70	35.7	40	M12
SA10VSO71/31	104	10	35	92	210	180	18	98	30.2	58.7	25	M10	20	78	43	50	M12
SA10VSO100/31	100	12	43	95		180	17.5	106	31.8	68.7	32	M14	19	89	50	61	M12
SA10VSO140/31	110	14	48.5	108		224	18	118.5	31.8	66.7	32	M14	20	89	50	63	M12

Specification	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	B13	B14	B15	B16
SA10VSO18/31	12.5	22	30	38	No.12-24 UNC	9T-16/32DP	12.5	15.8	23.8	31.8	No.12-24 UNC	11T-16/32DP				
SA10VSO28/31	16	25	33	41	1/4-20 UNC	13T-16/32DP										
SA10VSO45/31	16	30	38	46	1/4-20 UNC	15T-16/32DP	16	25	33	41	1/4-20 UNC	13T-16/32DP				
SA10VSO71/31	19	39.5	47.5	55.4	5/16-18 UNC	14T-12/24DP										
SA10VSO100/31	28	43.6	54	70	7/16-14 UNC	17T-12/24DP	19	39.5	47.5	55.4	5/16-18 UNC	14T-12/24DP				
SA10VSO140/31	36	55	67	75	5/8-11 UNC	13T-8/16DP										

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SKS HYDRAULICS

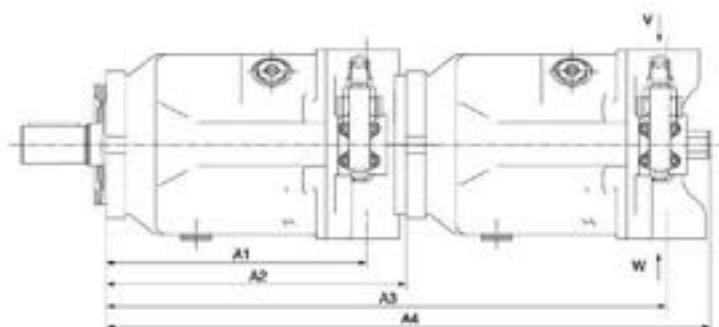


SA10VSO/31 Series

The SA10VSO/31 series is a medium pressure diagonal disc piston pump with constant pressure control, constant flow control, constant power control, remote pressure regulation control and other modes. It has the advantages of simple structure, small volume, light weight, low noise, long service life, etc., which can be combined into series pump drive and is widely used in the fields of metallurgical machinery, mining machinery, industrial machinery, engineering machinery, etc.

Medium-Pressure
Piston Pump / Motor

Dimension



Please inform us your required specification before installation, user guide will be provided.

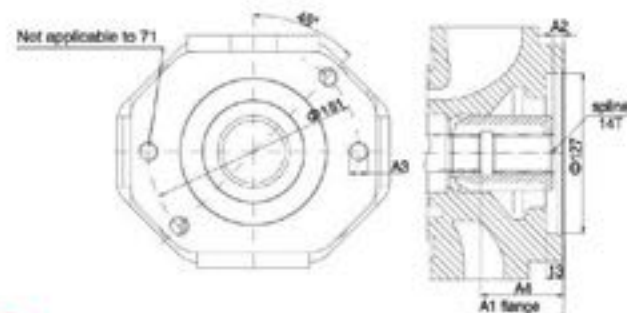


SA10VSO/31 Tandem Pumps

The SA10VSO/31 series is a medium pressure diagonal disc piston pump with constant pressure control, constant flow control, constant power control, remote pressure regulation control and other modes. It has the advantages of simple structure, small volume, light weight, low noise, long service life, etc., which can be combined into series pump drive and is widely used in the fields of metallurgical machinery, mining machinery, industrial machinery, engineering machinery, etc.

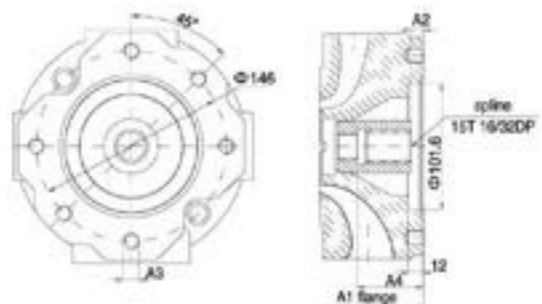
Specification	SA10VSO18				SA10VSO28				SA10VSO45				SA10VSO71				SA10VSO100				SA10VSO140			
	A1	A2	A3	A4	A1	A2	A3	A4	A1	A2	A3	A4	A1	A2	A3	A4	A1	A2	A3	A4	A1	A2	A3	A4
SA10VSO18	145	182	327	377	165	204	349	399	184	229	374	424	217	267	412	462	275	338	483	533	275	350	495	545
SA10VSO28	/	/	/	/	165	204	369	410	184	229	364	435	217	267	432	473	275	338	503	544	275	350	514	556
SA10VSO45	/	/	/	/	/	/	/	/	184	229	413	448	217	267	451	486	275	338	522	557	275	350	534	569
SA10VSO71	/	/	/	/	/	/	/	/	/	/	/	/	217	267	484	526	275	338	555	597	275	350	567	609
SA10VSO100	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	275	338	613	666	275	350	625	680
SA10VSO140	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	275	350	613	666	275	350	625	687

SA1V Rear cover measurement for pump in series (16 types)



K07 headcover :
flange 127-2(ISO-3901-1), for
tandem SA10VSO71(14 teeth).

Specification	A1	A2	A3	A4
SA10VSO71/31	267	10	M16	61
SA10VSO100/31	338	8	M16	65
SA10VSO140/31	350	9	M16	77



K04 headcover :
flange 101-2(ISO-3901-1), for
tandem SA10VSO45(15 teeth).

Specification	A1	A2	A3	A4
SA10VSO71/31	229	9	M12	53
SA10VSO100/31	267	8	M12	61
SA10VSO140/31	338	10	M12	65

Please inform us your required specification before installation, user guide will be provided.

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K01 headcover :
flange(ISO-3901-1), for tandem
SA10VSO18(9 teeth) or gear pump.

Specification	A1	A2	A3	A4
SA10VSO18	182	9	M10	43
SA10VSO28	204	9	M10	47
SA10VSO45	229	9	M10	53
SA10VSO71	267	9	M10	61
SA10VSO100	338	9	M10	65
SA10VSO140	350	9	M10	77

K52 headcover :
flange(ISO-3901-1), for tandem
SA10VSO18(11 teeth).pump.

Specification	A1	A2	A3	A4
SA10VSO18	182	9	M10	43
SA10VSO28	204	9	M10	47
SA10VSO45	229	9	M10	53
SA10VSO71	267	9	M10	61
SA10VSO100	338	9	M10	65
SA10VSO140	350	9	M10	77

K02 headcover :
flange(ISO-3901-1), for tandem
SA10VSO18(13 teeth).

Specification	A1	A2	A3	A4
SA10VSO28	204	9	M10	47
SA10VSO45	229	9	M10	53
SA10VSO71	267	9	M10	61
SA10VSO100	338	9	M10	65
SA10VSO140	350	9	M10	77

K68 headcover :
flange(ISO-3901-1), for tandem
SA10VSO18(13 teeth).

Specification	A1	A2	A3	A4
SA10VSO28	204	9	M12	47
SA10VSO45	229	9	M12	53
SA10VSO71	267	9	M12	61
SA10VSO100	338	9	M12	65
SA10VSO140	350	9	M12	77

Please inform us your required specification before installation, user guide will be provided.

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Application & Features

The SA10VO/52 series is the medium pressure inclined disc axial piston pump, which is equipped with constant pressure control, constant flow control, constant power control, remote pressure regulation control, etc.. It has the advantages of simple structure, small size, light weight, low noise, long service life, etc., which can be combined into a series pump drive and is widely used in the fields of metallurgical machinery, mining machinery, industrial machinery, construction machinery, etc.

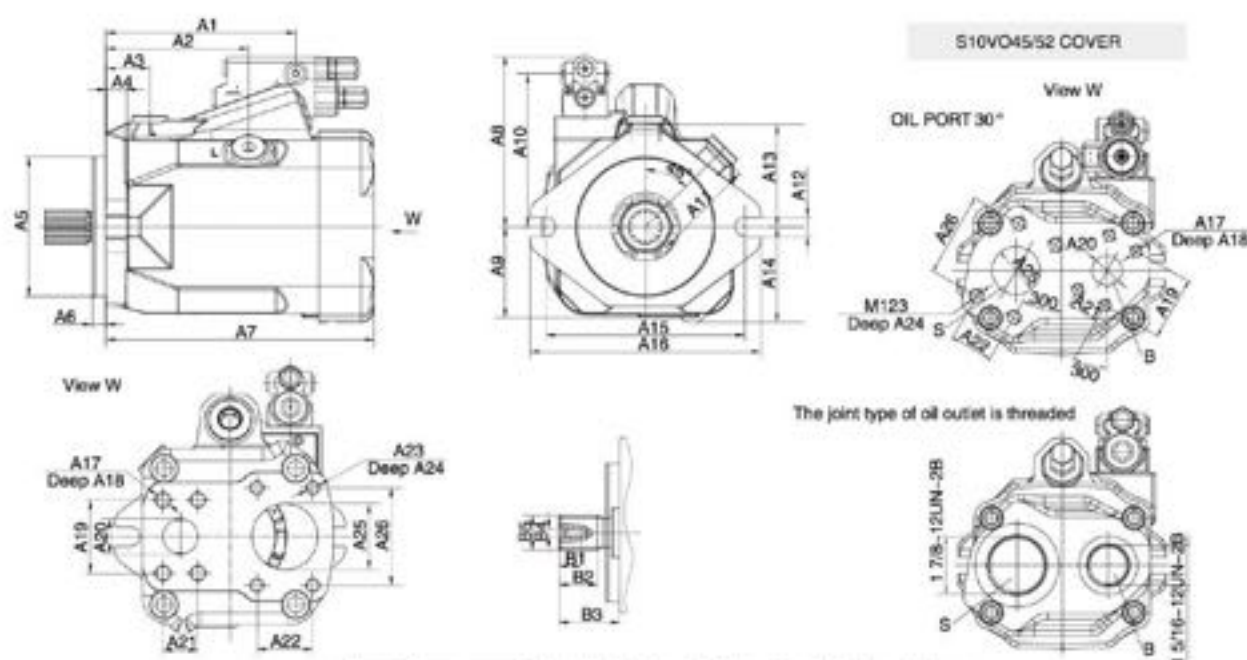


SA10VO/52 Series

Technical Specification

Model	SA10VO28/52	SA10VO45/52	SA10VO60/52	SA10VO85/52
Displacement	28 ml/r	45 ml/r	60 ml/r	85 ml/r
Max.speed	3000 r/min	2600 r/min	2700 r/min	2500 r/min
Rated pressure	25 MPa			
Max.pressure	31.5 MPa			

Dimension



Please inform us your required specification before installation, user guide will be provided.

Specification	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12	A13	A14	A15	A16	A17	A18	A19	A20	A21
SA10VO28/52	140	90	27	12	Φ101.6	9.5	205	123.5	73	107	69	14.3	66	73	146	172	M10	17	47.6	20	22.2
SA10VO45/52	151.4	99	30	12	Φ101.6	9.5	190	131.5	68.5	116.5	78	14.3	77	70	146	172	M10	17	52.4	25	26.2
SA10VO60/52	151.5	117	40	15	Φ127	12.7	208	138	73	122	79	14	88	83	114.5	212	M10	17	52.4	25	26.2
SA10VO85/52	171.5	130	40	20	Φ127	12.7	244.3	156.5	82.5	139.5	95	17.5	93.5	28	181	210	M14	19	66.7	32	31.8

Specification	A22	A23	A24	A25	A26	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	B13	B14	B15
SA10VO28/52	30.2	M10	17	32	58.7	16	25	41	1/4-20UNC	13T-16/32DP	-	-	-	-	-	-	-	-	-	-
SA10VO45/52	35.7	M12	20	38	69.9	16	30	45.9	1/4-20UNC	15T-16/32DP	16	25	45.9	1/4-20UNC	13T-16/32DP	-	-	-	-	-
SA10VO60/52	42.9	M12	20	50	77.8	19	39.5	55.4	5/16-18UNC	14T-12/24DP	16	25	41	1/4-20UNC	15T-16/32DP	-	-	-	-	-
SA10VO85/52	50.8	M12	17	60	88.9	-	-	-	-	-	19	35	55.4	5/16-18UNC	14T-12/24DP	-	-	-	-	-

All original manufacturer names, part numbers and description are for reference purposes only and it does not imply that any Part listed is the product of those manufacturers.

Application & Features

The SA10VO/53 series is an axial piston variable pump with diagonal disc structure, which is suitable for the hydraulic fluid flow in an open circuit proportional to the rotating speed and displacement. The flow can be changed steplessly by adjusting the swash plate, and the strong bearing shall ensure long service life, high allowable speed, high power and low noise.

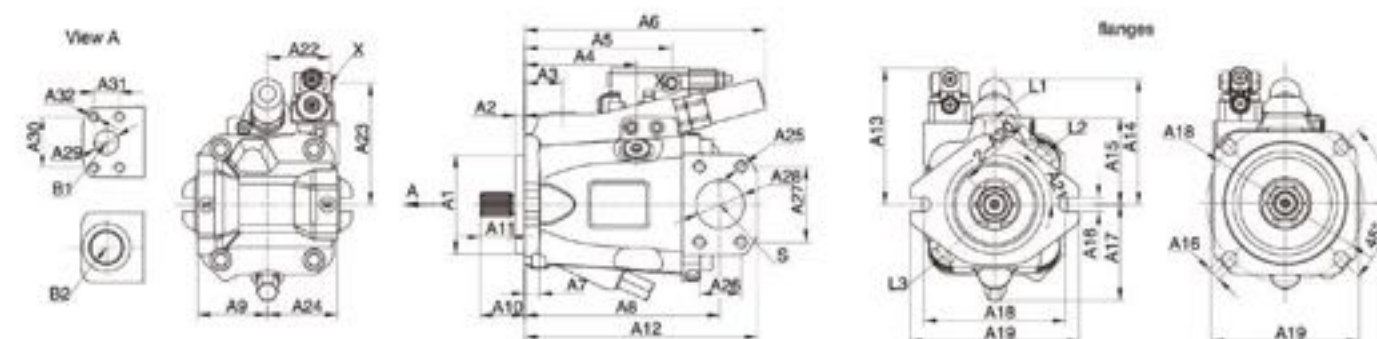


SA10VO/53 Series

Technical Specification

Model	SA10VO60/53	SA10VO63/53	SA10VO72/53	SA10VO85/53	SA10VO100/53
Displacement	60 mL/r	63 mL/r	72 mL/r	85 mL/r	100 mL/r
Rated speed	2700 r/min	2800 r/min	2600 r/min	2300 r/min	2300 r/min
Max.speed	3140 r/min			2500 r/min	2500 r/min
Rated pressure	25 Mpa				
Max.pressure	31.5 Mpa				
Working mode	开式系统				
Weight	22 kg	22 kg	22 kg	36 kg	36 kg

Dimension



Please inform us your required specification before installation, user guide will be provided.

Specification	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12	A13	A14
SA10VO60/53	127	12.7	39	115.5	151.5	248	14	201.5	72	45.7	27.5	240	140.5	128
SA10VO63/53	101.6	9.5	39	115.5	151.5	248	15	201.5	72	45.7	30	240	140.5	128
SA10VO72/53	127	12.7	39	115.5	151.5	248	14	201.5	72	55.2	39.5	240	140.5	128
SA10VO85/53	127	12.7	36	143	182.5	274.4	20	235	105	61.9	35	301.5	150	145
SA10VO100/53	127	12.7	36	143	182.5	274.4	20	235	105	61.9	35	301.5	150	145

Specification	A15	A16	A17	A18	A19	A20	A21	A22	A23	A24	Drainage port	X
SA10VO60/53	89	14.5	88.5	161.5	152	81	45°	65	125	72	7/8-14UNF	7/16-20UNF
SA10VO63/53	89	14.5	99	146	174	78.5	45°	65	125	72	7/8-14UNF	7/16-20UNF
SA10VO72/53	89	14.5	88.5	161.5	152	81	45°	65	125	72	7/8-14UNF	7/16-20UNF
SA10VO85/53	101	14.3	107.6	161.5	210	95	45°	74.8	134.5	105	7/8-14UNF	7/16-20UNF
SA10VO100/53	101	14.3	107.6	161.5	210	95	45°	74.8	134.5	105	7/8-14UNF	7/16-20UNF

Specification	A25	A26	A27	A28	A29	A30	A31	A32	B2	Shaft	Whorl
SA10VO60/53	M12	42.9	77.8	50	-	-	-	-	15/16-12UN-2B	15T x 16/32 x 30°	1/4-20UNC
SA10VO63/53	M12	42.9	77.8	50	25	52.4	26.2	M10	-	15T x 16/32 x 30°	1/4-20UNC
SA10VO72/53	M12	42.9	77.8	50	25	52.4	26.2	M10	-	14T x 16/32 x 30°	5/16-18UNC
SA10VO85/53	M12	50.8	88.9	61.5	32	66.7	31.8	M14	-	17T x 12/24 x 30°	7/16-14UNC
SA10VO100/53	M12	50.8	88.9	61.5	32	66.7	31.8	M14	-	17T x 12/24 x 30°	7/16-14UNC

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Application & Features

The SA10VD43 is a medium pressure swash plate variable piston double pump, which can be connected in series by gear pumps. It is suitable for 3.5–6.5 ton fully hydraulic excavators and multi-circuit small displacement open hydraulic systems.

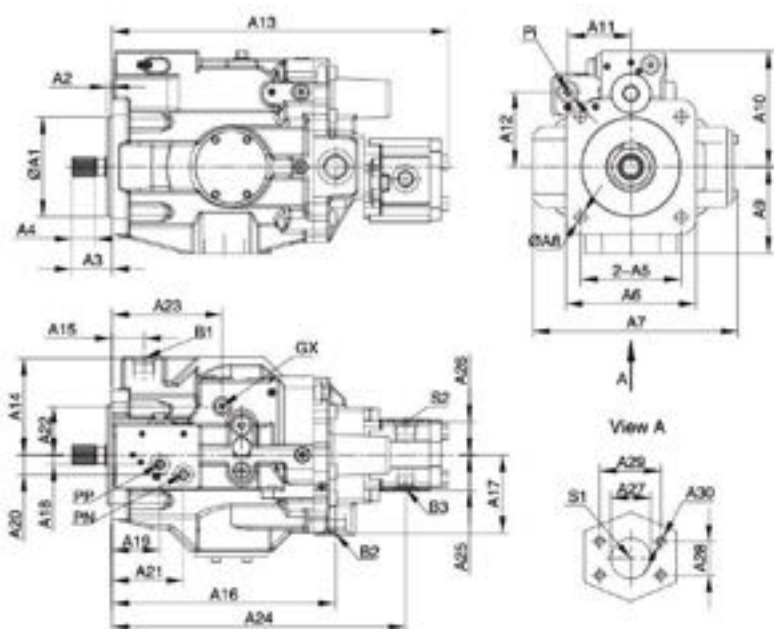


SA10VD43

Technical Specification

Model	SA10VD43
Displacement	2 x 36 mL/r
Max.speed	2300 r/min
Max.pressure	26Mpa
Working mode	Open circuit system
Weight	70 kg

Dimension



Please inform us your required specification before installation, user guide will be provided.

Specification	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12	A13	A14	A15
SA10VD43	127	6.5	479	30	128	166	261	14	110	147	80	95.5	428.6	124	41

Specification	A16	A17	A18	A19	A20	A21	A22	A23	A24	A25	A26	A27	A28	A29	A30
SA10VD43	285	100	12	61	25	81	62	140.5	374	45	45	Ø50	42.9	77.8	M12

Oil Outlet		Oil Drain Port													
Specification	S2	B1	B2	B3	PP	PN	GX	GX		Shaft					
SA10VD43	G3/4	G3/4	G3/4	G1/2	G1/4	G1/4	G1/4	G3/8		15T X 16/32DP X30°					

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SKS HYDRAULICS

Application & Features

The SA10VNO is a swash plate axial variable displacement piston pump for hydrostatic transmissions in open circuits, where the flow rate is proportional to the transmission speed and displacement. The flow rate can be steplessly adjusted by adjusting the angle of the swash plate. It allows stable storage for a long service life, high permissible output speeds, favourable power-weight ratios, compact design and low noise.

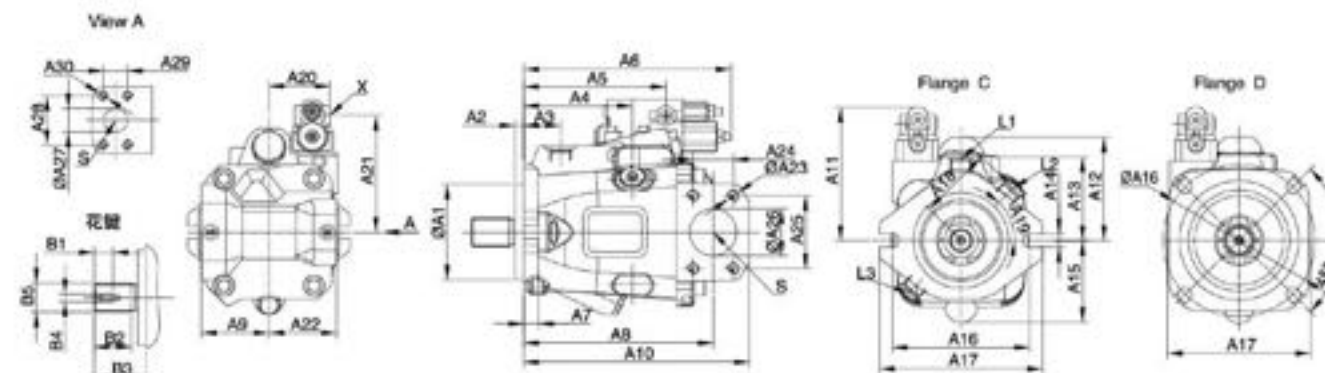


SA10VNO Series

Technical Specification

Model	SA10VNO45/52	SA10VNO63/52	SA10VNO45/53	SA10VNO85/53-C	SA10VNO85/53-D
Displacement	45 mL/r	63 mL/r	45 mL/r	85 mL/r	85 mL/r
Max.speed	2900 r/min	2700 r/min	2900 r/min	2700 r/min	2700 r/min
Rated pressure	21Mpa				
Max.pressure	25Mpa				
Working mode	Open circuit system				
Weight	14 kg	18 kg	15 kg	22 kg	22 kg

Dimension



Please inform us your required specification before installation, user guide will be provided.

Specification	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12	A13	A14	A15
SA10VNO45/52	101.6	9.5	-	90	141	210	12	160	66	187	125	97	-	14.5	67
SA10VNO63/52	101.6	9.5	30	99	151	216	12	178	90	213	134	106	77	14.5	71
SA10VNO45/53	101.6	9.5	29.3	89.6	140.8	214.5	13	159.6	66.2	186.8	129.7	115	83.7	14.5	75
SA10VNO85/53-C	101.6	9.5	39	115.5	151.5	220	15	201.5	72	240	140.5	110	89	14.5	88.5
SA10VNO85/53-D	127	12.7	39	115.5	151.5	220	14	201.5	72	240	140.5	110	89	14.5	88.5

Oil Inlet S		Oil Outlet B													
Specification	A16	A17	A18	A19	A20	A21	A22	A23	A24	A25	A26	A27	A28	A29	A30
SA10VNO45/52	146	172	66	45°	63	109	66	M10	30.2	58.6	32	20	47.6	22.2	M10
SA10VNO63/52	146	180	78	45°	69	117	90	M12	35.7	69.9	38	25	52.4	26.2	M10
SA10VNO45/53	146	172	78.5	41°	67.7	114	66.2	M10	30.2	58.7	32.5	1 1/16-12UN	/	/	/
SA10VNO85/53-C	146	174	78.8	45°	65	125	72	M12	42.9	77.8	50	25	52.4	26.2	M10
SA10VNO85/53-D	161.5	152	81	45°	65	125	72	M12	42.9	77.8	50	25	52.4	26.2	M10

Specification	Oil Outlet			Oil Drain Port		Shaft S			Shaft W		
	L1	L2	L3	X		B1	B2	B3	B4	B5	B6
SA10VNO45/52	3/4-16UNF	7/16-20UNF	17	24	40.7	1/4-20UNC	13TX16/32DP	/	/	/	/
SA10VNO63/52	7/8-14UNF	7/16-20UNF	17	30	46	1/4-20UNC	15TX16/32DP	/	/	/	/
SA10VNO45/53	3/4-16UNF	7/16-20UNF	/	33.5	46	/	15TX16/32DP	/	/	/	/
SA10VNO85/53-C	7/8-14UNF	7/16-20UNF	20	39.5	55.4	5/16-18UNC	14TX12/24DP	16.5	29	45.9	1/4-20UNC
SA10VNO85/53-D	7/8-14UNF	7/16-20UNF	20	39.5	55.4	5/16-18UNC	14TX12/24DP	16.5	29	45.9	1/4-20UNC

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Application & Features

The A10CNO is a medium-pressure swash plate variable piston pump with compact design and small volume, it has self-boosting oil replenishment and suction port filtration function. It can be used in the hydraulic system of agricultural machinery and tractors.

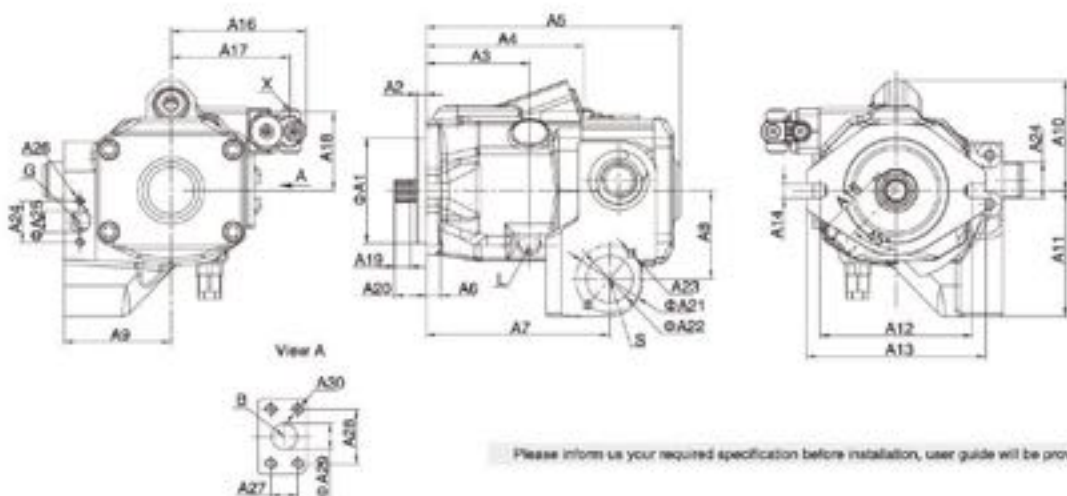


SA10CNO Series

Technical Specification

Model	SA10CNO45/52	SA10CNO63/52	SA10CNO85/53
Displacement	45 ml/r	63 ml/r	85 ml/r
Max speed	2630 r/min	2700 r/min	2675 r/min
Rated pressure	21 MPa		
Max pressure	25 MPa		
Weight	38kg	26kg	45kg

Dimension



Please inform us your required specification before installation, user guide will be provided.

Specification	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12	A13	A14	A15
SA10CNO45/52	102	9.5	90	94	229	12	166	30	131	95	66	146	173	14.3	70
SA10CNO63/52	102	9.5	99	151	245	13	176	85	103	106	122	148	173	14.3	78
SA10CNO85/53	102	9.5	116	151	322	15	200	-	-	112	126	146	173	14.3	78

Specification	Oil Inlet S			Flushing port G			Oil Outlet B		
	A16	A17	A18	A19	A20	A21	A22	A23	A24
SA10CNO45/52	-	-	-	23	31	M48 x 2	M18 x 1.5	M33 x 2	
SA10CNO63/52	130	115	77	15	31	M8	39.7	20	M8
SA10CNO85/53	126	111	82	35	49.7	103	M12	M27 x 2	26.2

Specification	L	X	Shaft
SA10CNO45/52	M22 x 1.5	7/16-20UNF-2B	13T-16/32DP-30°
SA10CNO63/52	7/8-14UNF-2B	7/16-20UNF-2B	13T-16/32DP-30°
SA10CNO85/53	7/8-14UNF-2B	7/16-20UNF-2B	14T-12/24DP-30°

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Application & Features

The SMMF is a hydraulic motor with compact design and high power density. The design concept is based on a parallel arrangement of pistons and piston shoes with a fixed swash plate. It allows stepless speed variation of the output speed in both forward and reverse directions and between maximum and zero speed. Main applications are in agricultural machinery, such as cotton picker motors.

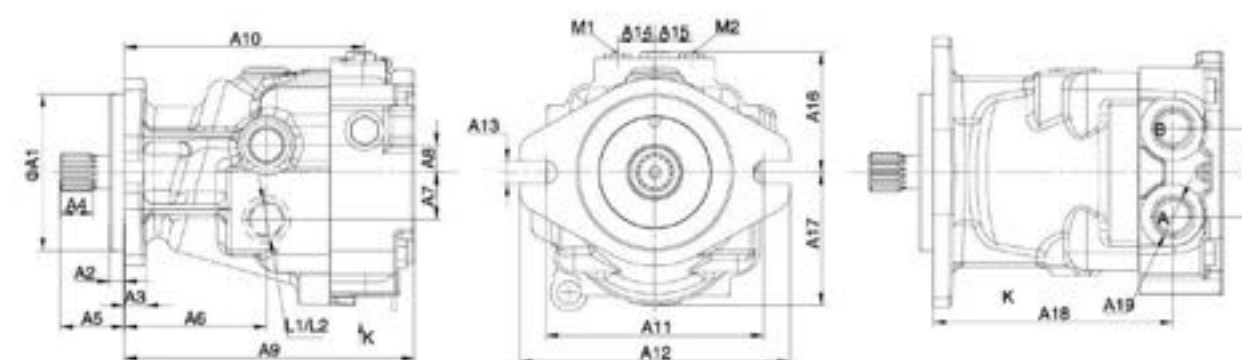


SMMF044

Technical Specification

Model	SMMF044
Displacement	43.5 ml/r
Max. continuous speed	3300 r/min
Max intermittent speed	4100 r/min
Direction of rotation (view from shaft end)	R:Clockwise L:Counter clockwise
Rated pressure	34.5 MPa
Max pressure	41.5 MPa
Recommended oil	L-HM46 (Summer) L-HM32 (Winter)
Weight	22 Kg

Dimension



Please inform us your required specification before installation, user guide will be provided.

Specification	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12	A13	A14	A15
SMMF044	101.6	9.4	14	21.5	41.5	92	30.5	17.7	187.5	155	141	174.7	14.3	24	24

Specification	A16	A17	A18	A19	A20	L1/L2	M1/M2	Shaft 1	Shaft 2
SMMF044	78	86	155.3	1 1/16UN	57.2	7/8-14UNF	7/16-20UNF	15T x 16/32DP x 30°	13T x 16/32DP x 30°

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Application & Features

The SPVH series variable plunger pump is characterized by compact structure, light weight, high efficiency, long service life, low noise, multiple control modes. Mute and non-mute configurations can meet the requirements of customers under different working conditions, which can be widely used in mining machinery, coal mine machinery, construction machinery and industrial fields.

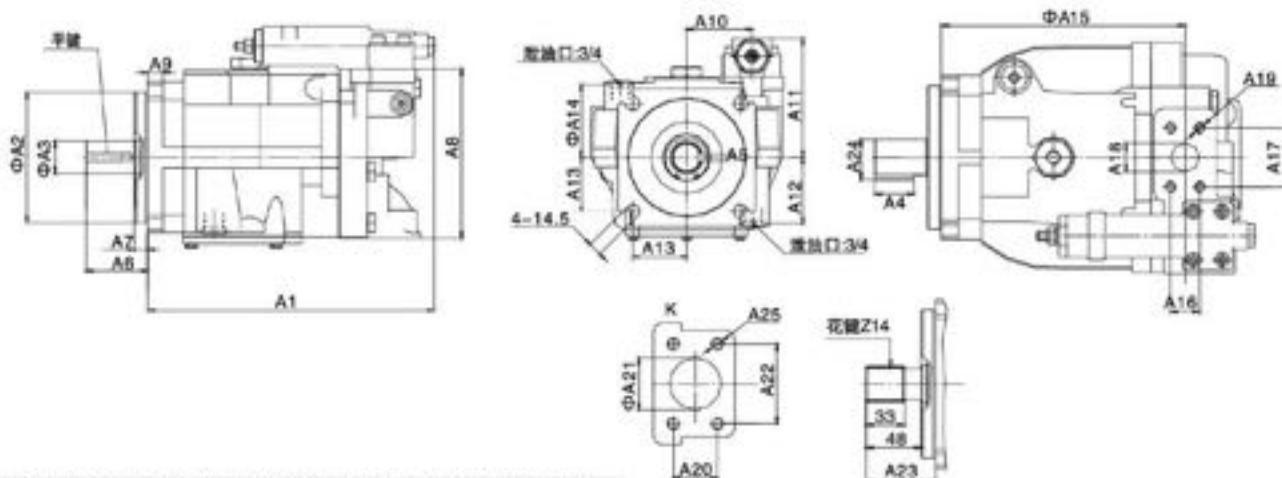


SPVH Series

Technical Specification

Model	SPVH57	SPVH74	SPVH96	SPVH131	SPVH141
Displacement	57.4 mL/r	73.7 mL/r	96.3 mL/r	131.1 mL/r	141 mL/r
Direction of rotation (View from shaft end)	R: Clockwise L: Counter clockwise				
Rated speed	1800 r/min				
Absolute pressure	(0.08~0.3) MPa				
Rated pressure	25 MPa				
Recommended oil	L-HM46 (Summer) L-HM32 (Winter)				
Housing pressure	0.2 MPa				
Working mode	Open circuit system				
Weight	34 kg	41 kg	44 kg	63 kg	63 kg

Dimension



Please inform us your required specification before installation, user guide will be provided.

Specification	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12	A13	A14	A15
SPVH57	293	127	31.75	35	77.93	56	12.5	165	14	102.7	127	70.5	57.25	Φ76	Φ216.6
SPVH74	306.6	127	31.75	35	77.93	56	12.5	186	15	109.2	133	81	57.25	Φ88	Φ241.2
SPVH96	323.5	127	31.75	35	77.93	56	12.5	183	16	102.7	135.5	80	57.25	Φ93.1	Φ251.3
SPVH131/141	377	127	31.75	35	77.93	56	12.5	229	15	125.2	161	84.8	57.25	Φ108.4	Φ280.4

Specification	A16	A17	A18	A19	A20	A21	A22	A23	A24	A25	Spline shaft	Flat shaft
SPVH57	26.19	52.37	25.4	3/8M10	42.8	50.8	77.77	56	35.32	1/2M12	W3x2240x24 W3x1630x26	73073035
SPVH74	26.19	52.37	25.4	3/8M10	42.8	50.8	77.77	56	35.32	1/2M12	W3x2240x24 W3x1630x27	73073035 95083240
SPVH96	26.19	52.37	25.4	3/8M10	50.8	63.5	88.9	56	35.32	1/2M12	W3x2240x24	73073035
SPVH131/141	31.75	66.66	31.75	1/2M14	50.8	63.5	88.9	56	35.32	1/2M12	W3x1630x27 W3x1630x27	95265236 1111x1111x48

All original manufacturer names, part numbers and description are for reference purposes only and it does not imply that any Part listed is the product of these manufacturers.

Application & Features

The SPVD series is a medium pressure inclined disc variable pump. The double pump is composed of two groups of pistons in a single cylinder, and the double gear pump is connected in series to form a four-pump hydraulic output power source, which is controlled by total power, compact structure, light weight and high power density, and is applicable to 1~4.5 tons micro excavator.

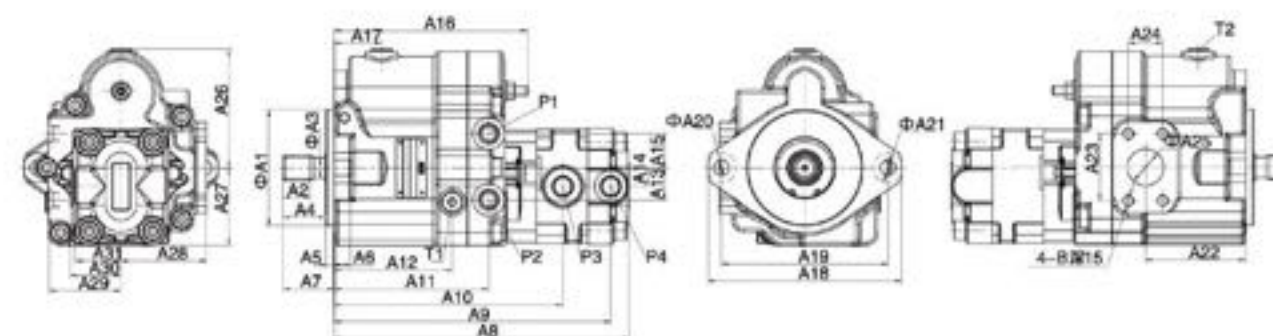


SPVD Series

Technical Specification

Model	SPVD-0B-16P	SPVD-1B-32P	SPVD-2B-40P
P1+P2	Displacement	9+9 mL/r	16+16 mL/r
	Max. pressure	21 MPa	21 MPa
P3	Displacement	6.5 mL/r	10.5 mL/r
	Max. pressure	18.6 MPa	20.6 MPa
P4	Displacement	3.3 mL/r	4.5 mL/r
	Max. pressure	3.9 MPa	3.9 MPa
Rated speed (r/min)		2300 r/min	2200 r/min
Direction of rotation		Right rotation (View from shaft end)	
Weight		17.5 kg	19 kg

Dimension



Please inform us your required specification before installation, user guide will be provided.

Specification	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12	A13	A14	A15	A16
SPVD-0B-16P	101.6	24	18	37	7	14	45	258.5	242.5	200.5	135.5	103.5	28	16.3	30	169.5
SPVD-1B-32P	101.6	24.3	18	37.3	7	14	45	265.5	250.5	208.5	136	103.5	28	16.3	30	170
SPVD-2B-40P	101.6	31	18.2	44	7	15	52	324.5	309	251	159.5	108.5	28	16.3	32	207

Specification	A17	A18	A19	A20	A21	A22	A23	A24	A25	A26	A27	A28	A29	A30	A31	B
SPVD-0B-16P	41.5	170	146	13.5	26	88	58.7	30.2	32	104	68	75	63	44.5	39.5	M10
SPVD-1B-32P	41.5	170	146	13.5	26	88	58.7	30.2	32	102	72.5	74.5	64	40	40	M10
SPVD-2B-40P	-	173	146	13	26	141.5	58.7	30.2	33	108.5	101	75.5	71.5	42	42	M10

Specification	P1	P2	P3	P4	T1/T2	Flat shaft	Standard
SPVD-0B-16P	G3/8	G3/8	G3/8	G3/8	G1/4		
SPVD-1B-32P	G1/2	G1/2	G1/2	G3/8	G1/4	13T x 16/32DP X 30°	SAE J498b
SPVD-2B-40P	G1/2	G1/2	G1/2	G3/8	G1/4		

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Application & Features

The SPVK is a medium-pressure inclined disc variable piston pump, which is characterized by compact structure, light weight, high power density, low noise, and a single cylinder and double pump structure, etc. The constant power + load sensitive control mode is adopted, which is applicable to the main pump of 5 - 6 tons small excavator.

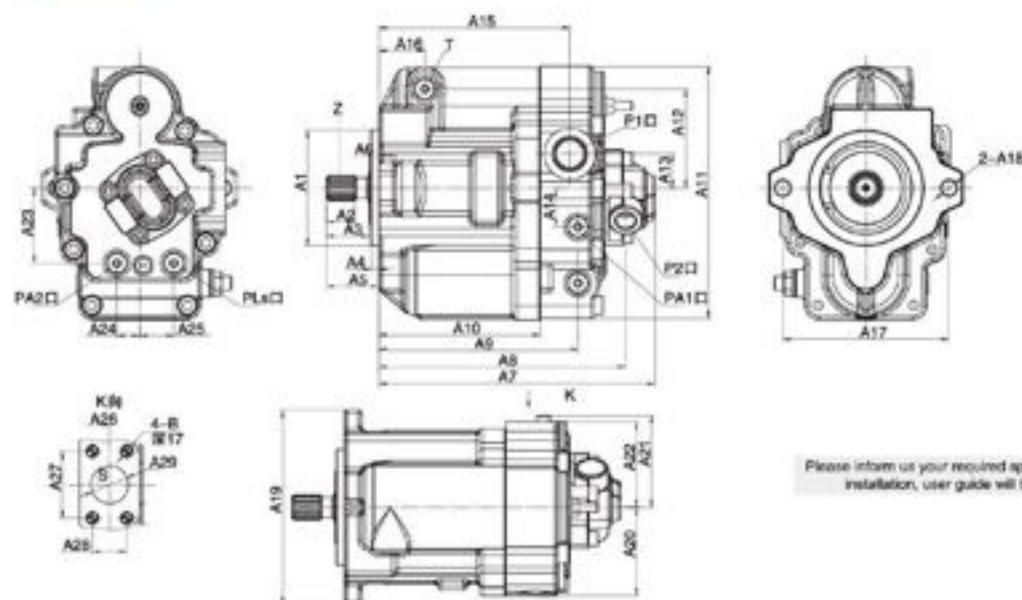


SPVK Series

Technical Specification

Model		SPVK-2B-505
P1	Displacement	9+9 mL/r
	Max. pressure	21 MPa
P2	Displacement	6.5 mL/r
	Max. pressure	18.6 MPa
Max. speed		2600 r/min
Direction of rotation		Right rotation (View from shaft end)
Inlet pressure		0.2-0.4 MPa
Recommended oil		L-HM46 (Summer) L-HM32 (Winter)
Working mode		Open circuit system
Weight		22.9 kg

Dimension



Specification	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12	A13	A14	A15
SPVK-2B-505	101.6	24.5	37.1	7	45.8	15.5	242.5	217	175	141.5	221.6	87	30	34	168

Specification	A16	A17	A18	A19	A20	A21	A22	A23	A24	A25	A26	A27	A28	A29	B
SPVK-2B-505	40.5	146	13	171	77.6	80.7	75	66	20	30	168.5	58.7	30.2	33	M10

Dimensions of shaft end

Specification	P1	P2	PA1	PA2	PLs	T	Z	DP	a	standard
SPVK-2B-505	G3/4	G3/8	G1/4	G1/4	G1/4	G1/4	13	16/32	30°	SAE J498b

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Application & Features

The SVD series is a hydraulic power source of the medium pressure inclined disc variable plunger pump, which consists of two groups of plunger with a single cylinder, a built-in pendulum gear pump and a series gear pump, forming a four-pump pilot control, which is controlled by total power and has compact structure. It is applicable to 3.5-6.5 tons full hydraulic excavator and multi-circuit open-type hydraulic system with small displacement.

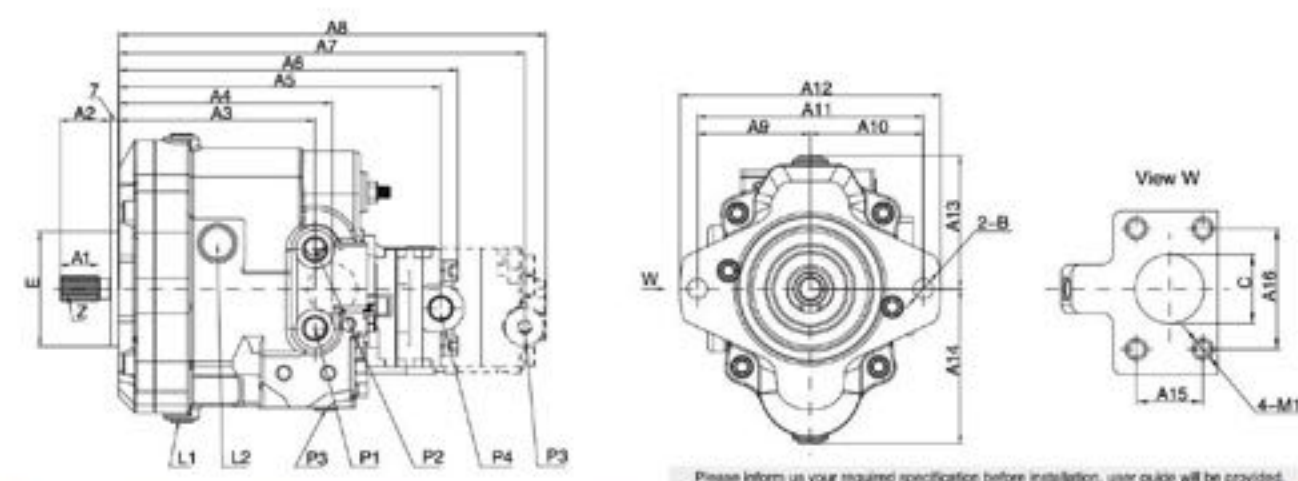


SVD Series

Technical Specification

Model	SVD22(PSVD2-21)	SVD27(PSVD2-27)
Displacement	2x21 mL/r	2x27 mL/r
Direction of rotation (View from shaft end)	Right rotation (View from shaft end)	
Max. pressure	25 MPa	
Max. speed	2400 r/min	
Inlet pressure	0.05-0.2 MPa	
Recommended oil	L-HM46 (Summer)	L-HM32 (Winter)
Housing pressure	≤0.25 MPa	
Gear pump displacement	17 mL/r	19 mL/r
Gear pump max. pressure	21 MPa	
Cycloid gear pump displacement	4.8 mL/r	
Cycloid gear pump max. pressure	5 MPa	
Working mode	Open circuit system	

Dimension



Specification	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12	A13	A14	A15	A16
SVD22	34	49.8	161	172.5	297	320	340.7	356.7	73	73	146	179	107.5	119.5	35.7	70
SVD27	34	45	173.7	188.7	301	323	340.7	356.7	100	100	200	231	118	137	42.9	77.8

Dimensions of shaft end

Specification	Z	DP	a	D	d	ΦB	ΦE	ΦC	P1	P2	P3	P4	L1	L2
SVD22	13	16/32	30°	Φ21.8 ^{+0.15} _{-0.15}	Φ18.4	14	101.6 ^{+0.15} _{-0.15}	38	G1/2	G1/2	G1/4	G1/2	G1/4	G1/4
SVD27	13	16/32	30°	Φ21.8 ^{+0.15} _{-0.15}	Φ18.4	17.5	101.6 ^{+0.15} _{-0.15}	44.5	G1/2	G1/2	G1/4	G1/2	G1/4	G1/4

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Application & Features

The SDV36 diagonal disc variable piston pump is used for the open hydraulic system with control mode of the total power, which is applicable to engineering machinery, construction machinery, especially for 6-8 tons excavator. The plunger pump is featured by high pressure, compact structure, light weight, wide range of use, convenient installation, low noise and convenient maintenance, etc.

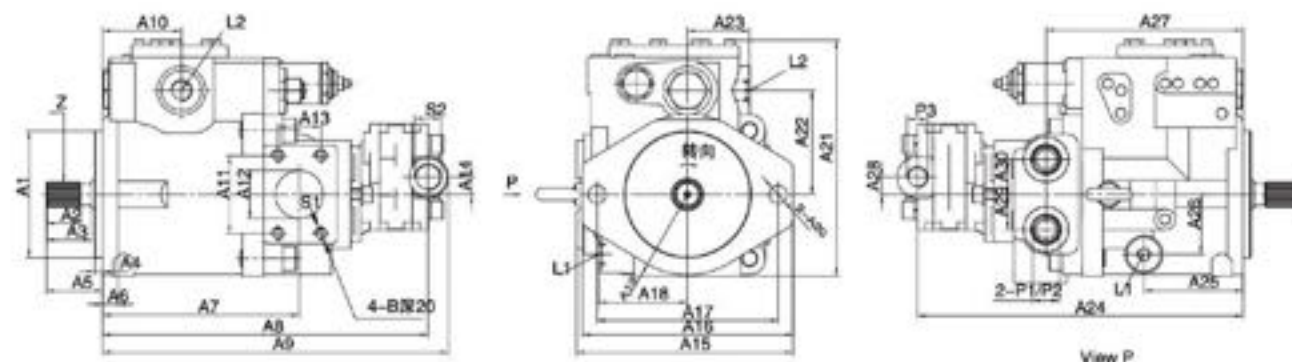


SDV36

Technical Specification

Model	SDV36(K3SP36C)
Displacement	2x36mL/r
Direction of rotation (View from shaft end)	Right rotation (View from shaft end)
Max. speed	2300 r/min
Inlet pressure	0.05-0.2 MPa (Absolute pressure)
Rated pressure	28 MPa
Max. pressure	30 MPa
Recommended oil	L-HM46 (Summer) L-HM32 (Winter)
Housing pressure	≤ 0.2 MPa
Gear pump displacement	9 mL/r
Cycloid gear pump max. pressure	5 MPa
Working mode	Open circuit system

Dimension



Please inform us your required specification before installation, user guide will be provided.

Specification	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12	A13	A14	A15
SDV36	127	34	45	8	56	15.5	197	325.8	346.5	79	78	48	43	17.5	216.5
Specification	A16	A17	A18	A19	A20	A21	A22	A23	A24	A25	A26	A27	A28	A29	A30
SDV36	211	181	89	80.5	18	236.5	104	62	325.8	99	60	197	17.5	35	35
Specification	B	S2	P1/P2	P3	L1/L2										
SDV36	M12	G3/4	G3/4	G1/2	G1/2										

All original manufacturer names, part numbers and description are for reference purposes only and it does not imply that any Part listed is the product of these manufacturers.



SKS HYDRAULICS

Application & Features

The SPVC90R is a diagonal disc axial piston pump with the functions of constant power control and load sensitivity control, compact structure and pilot gear pump, which is suitable for open hydraulic systems of construction machinery, construction machinery and mining machinery, especially for 8-10 tons excavator.

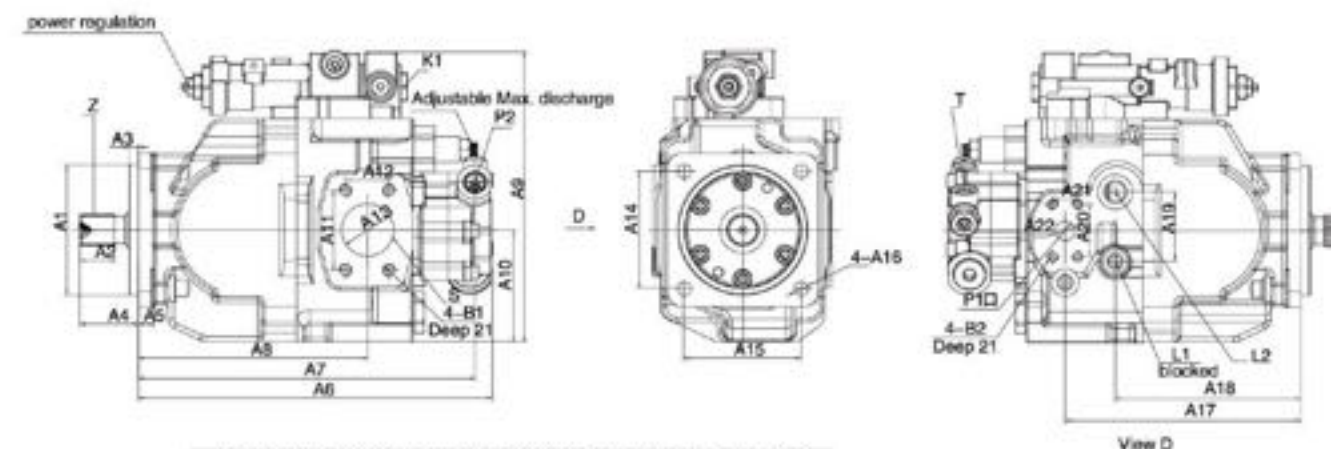


SPVC90R

Technical Specification

Model	SPVC90R
Displacement	90 mL/r
Direction of rotation (View from shaft end)	Right rotation (View from shaft end)
Max. speed	2300 r/min
Inlet pressure	0.06-0.2 MPa
Rated pressure	28 MPa
Max. pressure	30 MPa
Recommended oil	L-HM46 (Summer) L-HM32 (Winter)
Housing pressure	≤ 0.2 MPa
Gear pump displacement	8 mL/r
Gear pump max. pressure	5 MPa
Working mode	Open circuit system
Weight	45 kg

Dimension



Please inform us your required specification before installation, user guide will be provided.

Specification	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12	A13	A14	A15
SPVC90R	Ø127	33.5	9	56.5	15	346	329	224	283.5	110	77.8	43	Ø51	114.5	114.5

Specification	A16	A17	A18	A19	A20	A21	A22	B1	B2	K1	P2	L1	L2	T
SPVC90R	Ø13.5	230.5	181.5	68	50.6	23.8	Ø19	M12	M10	G1/4	G1/2	G1/4	G1/2	G3/8

Specification	Shaft
SPVC90R	14T x 12/24DP x 30°

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Application & Features

The SKC38 is a diagonal disc axial piston motor with the plug-in design to make the installation space compact. The motor oil ports are arranged on one side. The convenient oil circuit layout facilitates wheel side installation and application. It is mainly used for open or closed hydraulic transmission circuits, which is mainly used for high-altitude vehicles.

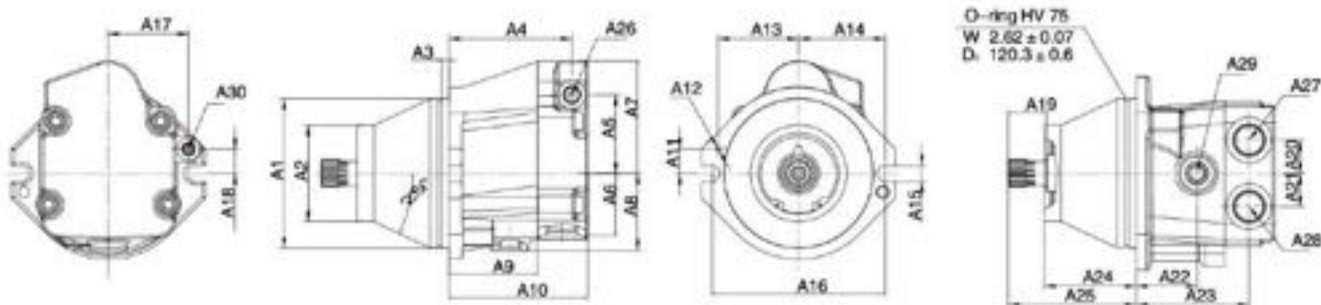


SKC38

Technical Specification

Model	SKC38
Max. displacement	38 mL/r
Min. displacement	16.4 mL/r
Direction of rotation (View from shaft end)	R:Clockwise L:Counter clockwise
Rated pressure	21 Mpa
Max. pressure	40 Mpa
Rated speed	3600 r/min
Max. speed	4000 r/min
Max. housing pressure	0.2 MPa
Pilot pressure oil	1.4-6.9 Mpa
Weight	16 kg

Dimension



Please inform us your required specification before installation, user guide will be provided.

Specification	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12	A13	A14	A15	A16	A17
SKC38	Ø135	Ø87	6.5	110.8	71	56	101.5	69.5	79.6	125.3	22	Ø4	72.4	78	14	156	72.4

Dimensions of shaft end

Specification	A18	A19	A20	A21	A22	A23	A24	A25	Z	DP	a	D	d
SKC38	22	34.4	30	30	54.6	101.8	83	115.7	15	16/32	30°	Ø25.2	Ø21

Port dimensions

Specification	A26	A27	A28	A29	A30
SKC38	9/16-18UNF-2B	1-1/16-12UN-2B	1-1/16-12UN-2B	3/4-16UNF-2B	7/16-20UNF-2B

All original manufacturers' names, part numbers and description are for reference purposes only and it does not imply that any Part listed is the product of these manufacturers.



SKS HYDRAULICS

Application & Features

The SA10VM45 is a diagonal disc axial piston motor, which has the characteristics of direct-controlled two-point variable mode, high power-weight ratio, compact structure, long service life and high output speed, etc. It is widely used in mining machinery, industrial machinery, tunnel machinery and other fields.

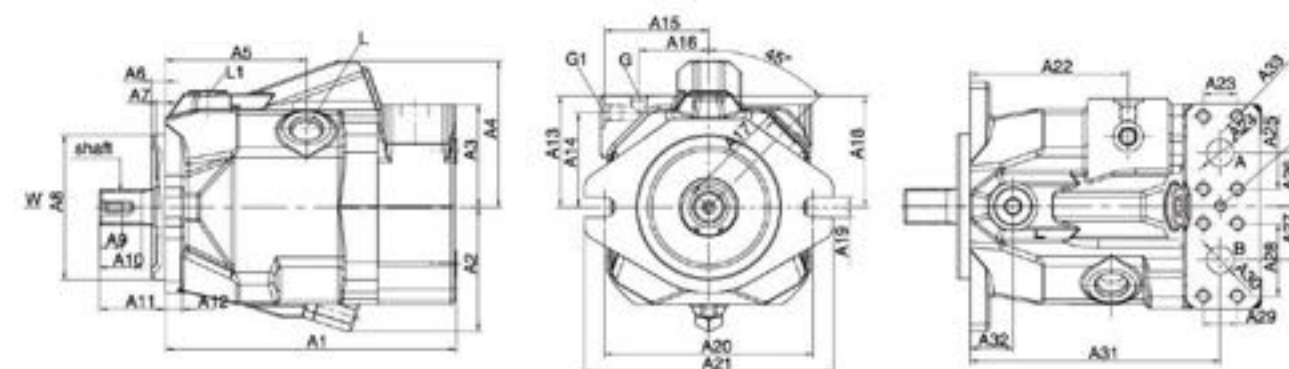


SA10VM45

Technical Specification

Model	SA10VM45
Displacement	45 mL/r
Direction of rotation (View from shaft end)	R:Clockwise L:Counter clockwise
Max. speed	4600 r/min
Min. speed	2500 r/min
Rated pressure	28 MPa
Max. pressure	35 MPa
Recommended oil	L-HM46 (Summer) L-HM32 (Winter)
Housing pressure	< 0.25 MPa
Weight	18 kg

Dimension



Please inform us your required specification before installation, user guide will be provided.

Specification	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12	A13	A14	A15	A16	A17
SA10VM45	204	87	72	102.5	99	9.5	6.3	101.6	16	29.5	48	12	78	66	73	49	78

Specification	A18	A19	A20	A21	A22	A23	A24	A25	A26	A27	A28	A29	A30	A31	A32	A33
SA10VM45	78	14.3	146	174	110.5	23.8	19	50.8	37.5	37.5	50.8	23.8	19	175	30	3/8-16UNC

Specification	L, L1 drainage port	G, G1 Pilot pressure port	U	shaft	a
SA10VM45	ISO11926-1 7/8-14UNF-2B	ISO11926-1 7/16-20UNF-2B	M8X1.25 Deep12	15T 16/32DP	30°

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Application & Features

The S74318 series is inclined disc axial quantitative piston motor, which is characterized by compact structure, high power weight ratio, long service life, etc. The output speed is proportional to the input flow, and the output torque increases with the increase of pressure gradient between the high and low pressure sides, which can be used for hydrostatic transmission in open and closed circuits, and is suitable for travelling machinery and industrial fields.

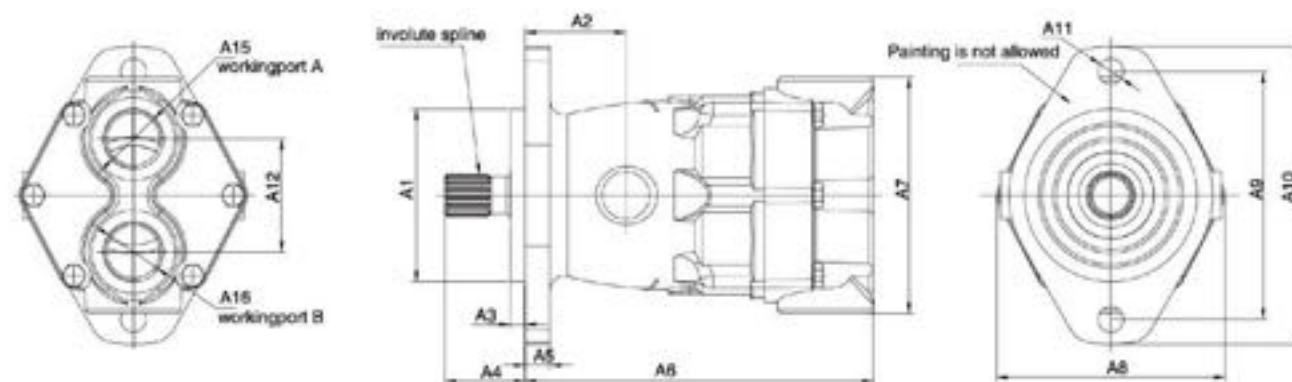


S74318 Series

Technical Specification

Model	S74318-DDA	S74318-DAC	S74318-DAA	S74318-DAB	S74318-DAG	S74318-RAA	S74315-RAA
Displacement	40.6 mL/r						32.9 mL/r
Direction of rotation (View from shaft end)	R:Clockwise		L:Counter clockwise			R:Clockwise	
Max. pressure	37.2 MPa						
Max. speed	3600 r/min						
Inlet pressure	0.08 ~ 0.2 MPa						
Housing pressure	≤0.25 MPa						
Working mode	Open circuit system						
Recommended oil	L-HM46 (Summer) L-HM32 (Winter)						
Weight	10 kg						

Dimension



Please inform us your required specification before installation, user guide will be provided.

Specification	Z	DP	a	D	d
S74318-DDA	15	16/32	30°	Ø25	Ø21.8
S74318-DAC	13	16/32	30°	Ø21.8	Ø18.4

Specification	A1	A2	A3	A4	A5
S74318-DDA	Ø101.6	59.5	8.5	45.6	15
S74318-DAC	Ø101.6	59.5	8.5	40.7	15

Specification	A6	A7	A8	A9	A10	A11	A12	A13	A14	A15	A16	A17
S74318-DDA	205	139	134.5	146	175	Ø14.5	66.4	130	252	1 5/16-12 SAE	1 5/16-12 SAE	2 x 3/4-16 SAE
S74318-DAC	205	139	134.5	146	175	Ø14.5	66.4	130	252	1 5/16-12 SAE	1 5/16-12 SAE	2 x 3/4-16 SAE

All original manufacturer names, part numbers and description are for reference purposes only and it does not imply that any Part listed is the product of these manufacturers.

Application & Features

The SPVB series is the low-pressure inclined disc axial variable piston pump, which has the characteristics of low noise, high efficiency, small volume, light weight, long service life, etc., and is provided with adjustable displacement pressure compensator, remote pressure regulation and other control modes for selection. The flat spline shaft extending modes are widely used in various industrial equipment.

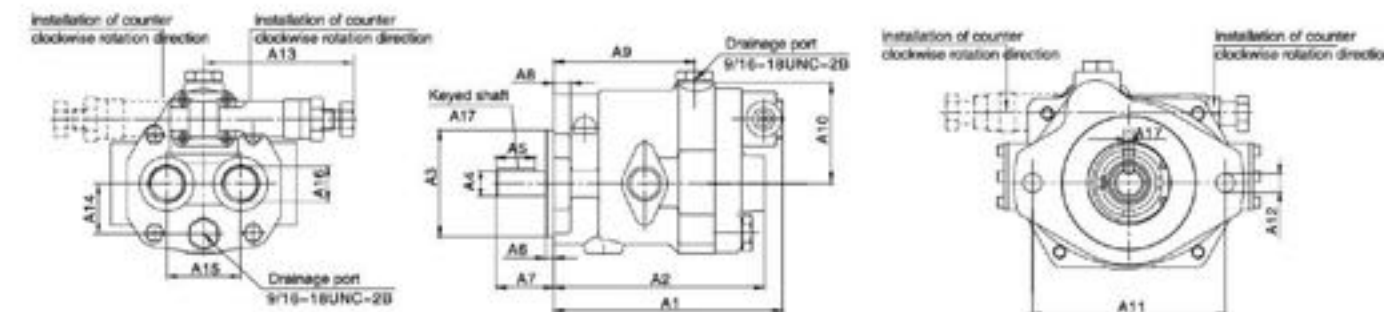


SPVB Series

Technical Specification

Model	SPVB5	SPVB6	SPVB10	SPVB15	SPVB20	SPVB29	SPVB45
Displacement	0.55 mL/r	13.81 mL/r	21.1 mL/r	33 mL/r	42.8 mL/r	61.6 mL/r	94.5 mL/r
Max.pressure	21 MPa	14 Mpa	21 Mpa	14 Mpa	21 Mpa	14 Mpa	7 Mpa
Inlet pressure	0.1 MPa						
Max.speed	1800 r/min						
Recommended oil	L-HM46 (Summer)			L-HM32 (Winter)			
Direction of rotation (view from shaft end)	R.Clockwise			L.Counter clockwise			
Working mode	Open circuit system						
Weight	8.2 kg	8.2 kg	15.2 kg	15.2 kg	26.3 kg	26.3 kg	22 kg

Dimension



Please inform us your required specification before installation, user guide will be provided.

Specification	A1	A2	A3	A4	A5	A7	A8	A9
SPVB5	177	163	82.55	19.05	6.5	44.8	15.4	108.7
SPVB6	177	163	82.55	19.05	6.5	44.8	15.4	108.7
SPVB10	208	190	101.6	22.22	9.5	58.9	12.7	123.7
SPVB15	208	190	101.6	22.22	9.5	58.9	12.7	123.7
SPVB20	237	221.7	127	31.75	9.5	58.5	16	123.4
SPVB29	237	221.7	127	31.75	9.5	58.5	16	123.4
SPVB45	237	222	127	31.75	9.5	57.3	16	123.4

Specification	A10	A11	A12	A13	A14	A15	A16	A17
SPVB5	78.1	106.4	11.1	116	38.1	57.2	1 1/8	4.8 x 25.5
SPVB6	78.1	106.4	11.1	116	38.1	57.2	1 1/8	4.8 x 25.5
SPVB10	82.5	146	14.3	137.1	49.3	66.5	1 5/8	6.35 x 31.75
SPVB15	82.5	146	14.3	137.1	49.3	66.5	1 5/8	6.35 x 31.75
SPVB20	90	181	17.5	73	61.2	82.5	1 5/8	7.94 x 31.75
SPVB29	90	181	17.5	73	61.2	82.5	1 5/8	7.94 x 31.75
SPVB45	90	181	17.5	68.7	59	101.6	5/8-11/16-18UNC	7.94 x 31.75

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Application & Features

The SPVQ series is the low-pressure diagonal disc piston pump, which can achieve high performance and efficiency by using of various oils and liquids. The pump has the characteristics of low noise and low pulsation, etc. with adjustable displacement pressure compensator, remote pressure regulation and other control modes for selection, which can be widely used in various industrial equipment.

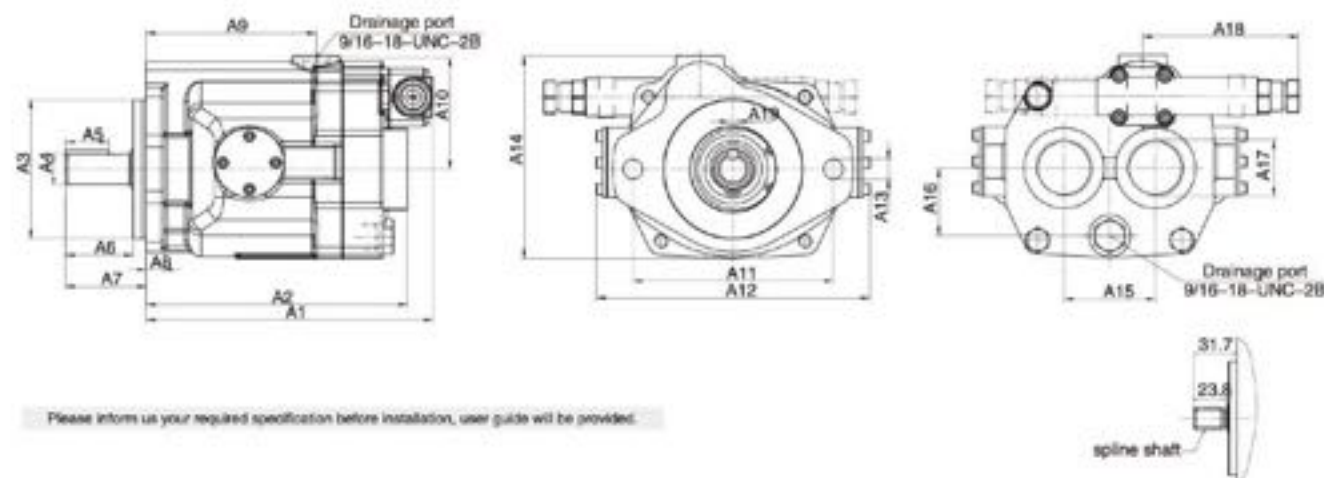


SPVQ Series

Technical Specification

Model	SPVQ10	SPVQ13	SPVQ20	SPVQ32	SPVQ40	SPVQ45
Displacement	10.5 mL/r	13.8 mL/r	21.1 mL/r	32.9 mL/r	41 mL/r	45.1 mL/r
Rated pressure	21 MPa	14 Mpa	21 Mpa	14 Mpa	21 Mpa	18.6 MPa
Inlet pressure	0.1 MPa					
Rated speed	1800 r/min					
Recommended oil	L-HM46 (Summer) L-HM32 (Winter)					
Direction of rotation (View from shaft end)	R:Clockwise L:Counter clockwise					
Working mode	Open circuit system					
Weight	8.1 kg	8.1 kg	15.5 kg	15.5 kg	23 kg	24.5 kg

Dimension



Specification	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12	A13
SPVQ10/13	177	163	Ø82.55	Ø19.05	25.5	6.5	44.8	15.4	109	78.1	106.4	140	Ø11.1
SPVQ20/32	209	190	Ø101.6	Ø22.22	31.75	9.5	58.9	12.7	123.7	82.5	146	199	Ø14.3
SPVQ40/45	252	220	Ø101.6	Ø22.22	22	8.7	44.5	15.3	176	88	146	194	14

Specification	A14	A15	A16	A17	A18	A19	轴伸1	轴伸2
SPVQ10/13	133	57.2	38.1	1-1/16	116	方4.8	W16 x 16/32 x 30 x Z9	—
SPVQ20/32	148	66.5	49.3	1-5/8	141.5	方6.35	W21 x 32/64 x 30 x Z26	W22 x 16/32 x 30 x Z13
SPVQ40/45	190	95.4	84	1-7/8, 1-5/16	—	方6.35	W25 x 16/32 x 30 x Z15	W22 x 16/32 x 30 x Z13

All original manufacturers' names, part numbers and description are for reference purposes only and it does not imply that any Part listed is the product of these manufacturers.

Application & Features

The SPVE series is a diagonal disc axial piston pump with an aluminum housing, light weight and wide service range. The control modes include pressure compensation, pressure flow compensation and remote pressure control, which can achieve high performance indexes and efficiency by using of various oils and liquids and can be widely used in various industrial equipment.

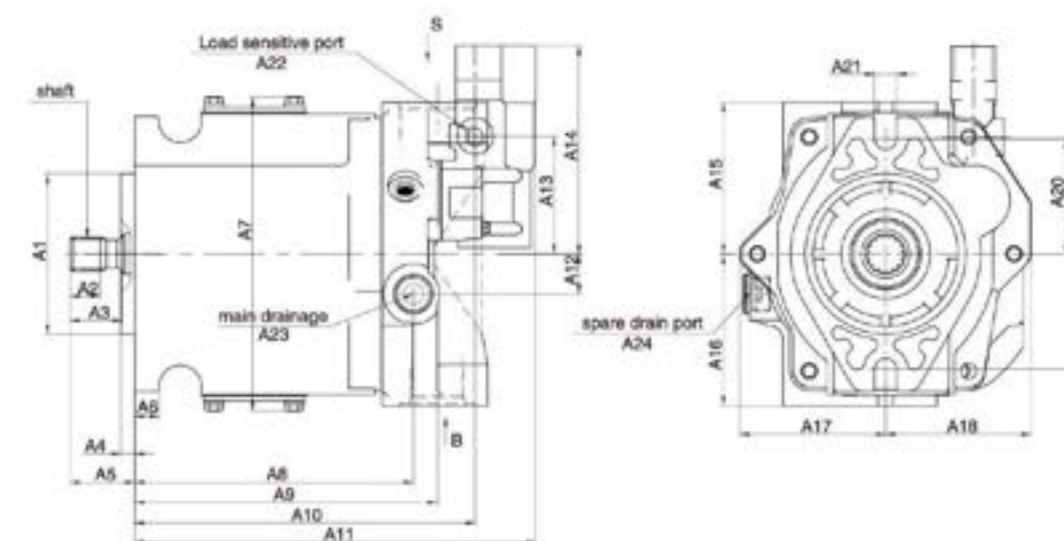


SPVE Series

Technical Specification

Model	SPVE19	SPVE21
Displacement	41mL/r	45.1mL/r
Max.pressure	21 MPa	18.6 MPa
Inlet pressure	0.08~2 MPa	
Max.speed	2400 r/min	

Dimension



Specification	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11
SPVE19/21	101.6	19	33	8.7	41	15.3	197.4	178.3	191.5	215.9	253.7

Specification	A12	A13	A14	A15	A16	A17	A18	A19	A20	A21
SPVE19/21	25.7	74.7	131.6	96	96	92.5	92	146	73	14

Specification	A22	A23	A24	shaft 1	shaft 2
SPVE19/21	7/16-20UNF-2B	7/8-14UNF-2B	7/8-14UNF-2B	W22 x 16/32 x 30 x Z13	W25 x 16/32 x 30 x Z15

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Application & Features

The STA1919 is a kind of diagonal disc axial variable plunger pump, which mainly uses the hydrostatic transmission in the closed circuit. The flow can be stepless adjusted by mechanically adjusting the angle of the swash plate; It has long service life, small size and light weight, which is mainly used in agricultural machinery and small construction machinery.

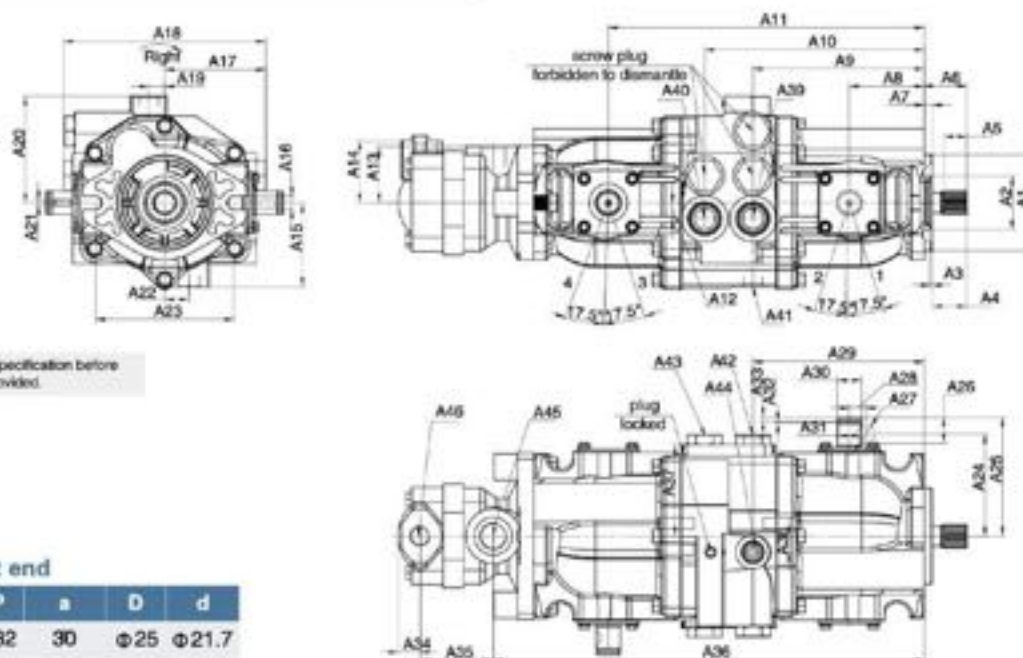


STA1919

Technical Specification

Model	STA1919	
Displacement	41 × 2+20 mL/r	
Direction of rotation (view from shaft end)	R:Clockwise	L:Counter clockwise
Max.pressure	21 MPa	
Max.speed	2800 r/min	
Inlet pressure	0.08 – 2 MPa	
Housing pressure	≤ 0.25 MPa	
Working mode	Open circuit system	
Recommended oil	L-HM46 (Summer)	L-HM32 (Winter)
Weight	45 kg	

Dimension



Please inform us your required specification before installation, user guide will be provided.

Dimensions of shaft end

Specification	Z	DP	a	D	d
STA1919	15	16/32	30	Φ25	Φ21.7

Specification	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12	A13	A14	A15	A16	A17	A18	A19
STA1919	102	58.3	2.6	36.3	24	45.3	8.7	79	181	232	334	16.8	59.7	66	89	14	107	214	17

Specification	A20	A21	A22	A23	A24	A25	A26	A27	A28	A29	A30	A31	A32	A33	A34	A35	A36	A37	A38
STA1919	113	6.3	25.5	146	108	126	27.4	19.1	17.4	181	25.4	23.5	2.2	4.2	22.9	77.8	456	97	17

Specification	A39	A40	A41	A42	A43	A44	A45	A46
STA1919	1-5/16-12UN-2B	1-5/16-12UN-2B	1-1/16-12UN-2B	1-5/16-12UN-2B	1-5/16-12UN-2B	7/8-14UNF-2B	1-1/16-12UNF-2B	1-1/16-12UN-2B

All original manufacturers names, part numbers and description are for reference purposes only and it does not imply that any Part listed is the product of these manufacturers.

Application & Features

The SA10VSO28ED series is diagonal disc axial piston variable pump, which is used for hydrostatic drive of the open circuit. The flow is proportional to the drive speed and displacement. It has the characteristics of stepless adjustment, high power, weight ratio, small size and low noise level. The drive shaft can withstand axial and radial loads. The short response time is short and installation dimensions are ultra-small. Replace the quantitative pump with low cost and high efficiency.

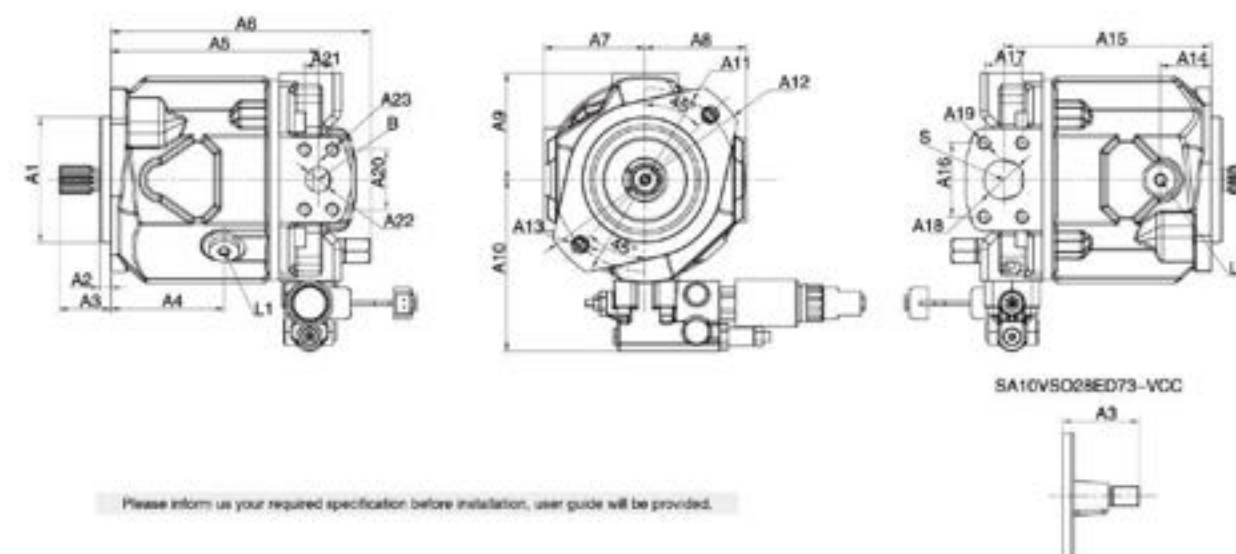


SA10VSO28ED Series

Technical Specification

Model	SA10VSO28ED73-VSC	SA10VSO28ED73-VCC
Displacement	28 mL/r	28 mL/r
Rated speed	2000 r/min	2000 r/min
Max.speed	3000 r/min	3000 r/min
Rated pressure	28 MPa	28 MPa
Max.pressure	35 MPa	35 MPa
Direction of rotation (view from shaft end)	R:Clockwise	

Dimension



Please inform us your required specification before installation, user guide will be provided.

Specification	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12	A13	A14	A15
SA10VSO28ED73-VSC	Φ101.6	9	41	90	165	206.5	80.3	80.3	84.5	136.5	Φ146	Φ174	Φ14	40	165
SA10VSO28ED73-VCC	Φ101.6	9	60.5	90	165	206.5	80.3	80.3	84.5	136.5	Φ146	Φ174	Φ14	40	165

Specification	S				B				L1, L2
	A16	A17	A18	A19	A20	A21	A22	A23	
SA10VSO28ED73-VSC	58.7	30.2	Φ32	M10	47.6	22.2	Φ20	M10	3/4-16UNF
SA10VSO28ED73-VCC	58.7	30.2	Φ32	M10	47.6	22.2	Φ20	M10	3/4-16UNF

Spline shaft

Keyed shaft

Specification	Z	DP	a	Internal thread	Taper	Keyed shaft	Thread
SA10VSO28ED73-VSC	13	16/32	30°	1/4-20UNC-2B	-	-	-
SA10VSO28ED73-VCC	-	-	-	-	125:1000	A6.35 × 6.35 × 25.4	5/8-18UNF-2A

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Application & Features

The SA10FE series is a kind of inclined disc structure axial piston quantitative motor, which is used for the hydrostatic transmission in the open and closed circuits. The output speed is proportional to the input flow and the output torque increases with the increase of pressure gradient between the high and low pressure sides, which is used for traveling machinery and industrial fields and has long service life. It can be used for fan cooling system in the traveling machinery and industrial fields.

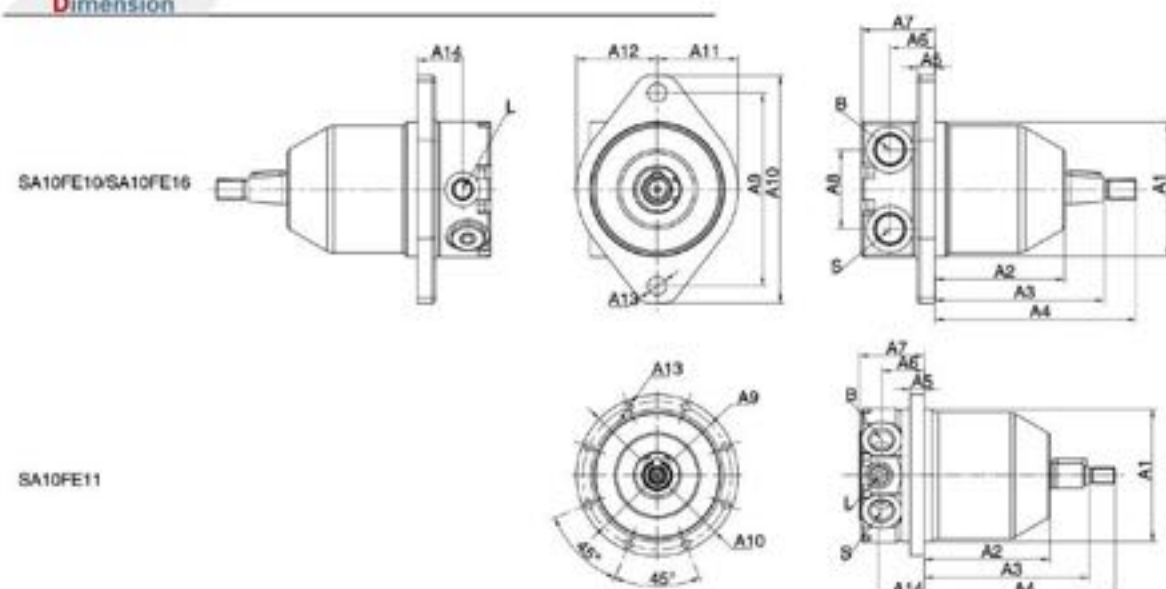


SA10FE Series

Technical Specification

Model	SA10FE10	SA10FE11	SA10FE16	SA10FE28	SA10FE45
Displacement	10.6 mL/r	11.5 mL/r	16.1 mL/r	28.5 mL/r	44.5 mL/r
Rated speed	4500 r/min	3800 r/min	3800 r/min	2500 r/min	2500 r/min
Max. speed	5000 r/min	4200 r/min	4200 r/min	4700 r/min	4000 r/min
Rated pressure	28 MPa				
Max. pressure	35 MPa				
Direction of rotation (View from shaft end)	R:Clockwise	R:Clockwise L:Counter clockwise	R:Clockwise	R:Clockwise	L:Counter clockwise

Dimension



Specification	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12	A13	A14
SA10FE10	82.55	85	115.3	139.3	10	34	55.5	60	106.4	134	51	51	11	34
SA10FE11	100	95	124.8	144.3	10.3	32.2	49	—	Ø112	Ø122	—	—	6.5	34.2
SA10FE16	101.6	98	127.8	152	13	34	55.5	60	146	172	61	61	14	34
SA10FE28	135	81	110.6	129.6	12.5	76.7	104.7	62	160	184	76	84	14	22
SA10FE45	135	88.5	123.9	142	14	82	114	68	160	188	76.5	80.5	14	28

Specification	S	B	L	Taper	Keyed shaft	Thread
SA10FE10	7/8-14UNF-2B	7/8-14UNF-2B	9/16-18UNF-2B	125:1000	A6.35x6.35x25.4	5/8-18UNF-2A
SA10FE11	M18 x 1.5	M18 x 1.5	M14 x 1.5	—	A6.35x6.35x25.4	M12
SA10FE16	7/8-14UNF-2B	7/8-14UNF-2B	9/16-18UNF-2B	125:1000	A6.35x6.35x25.4	5/8-18UNF-2A
SA10FE28	1/16-12UNF-2B	1/16-12UNF-2B	3/4-16UNF-2B	125:1000	A6.35x6.35x25.4	M16x1.5
SA10FE45	1/16-12UNF-2B	1/16-12UNF-2B	7/8-14UNF-2B	125:1000	A6.35x6.35x28.6	M16x1.5

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Application & Features

The SA10FM series is a kind of inclined disc structure axial piston quantitative motor, which is used for the hydrostatic transmission in the open and closed circuits. The output speed is proportional to the input flow and the output torque increases with the increase of pressure gradient between the high and low pressure sides, which is used for traveling machinery and industrial fields and has long service life. It can be used for fan cooling system in the traveling machinery and industrial fields.

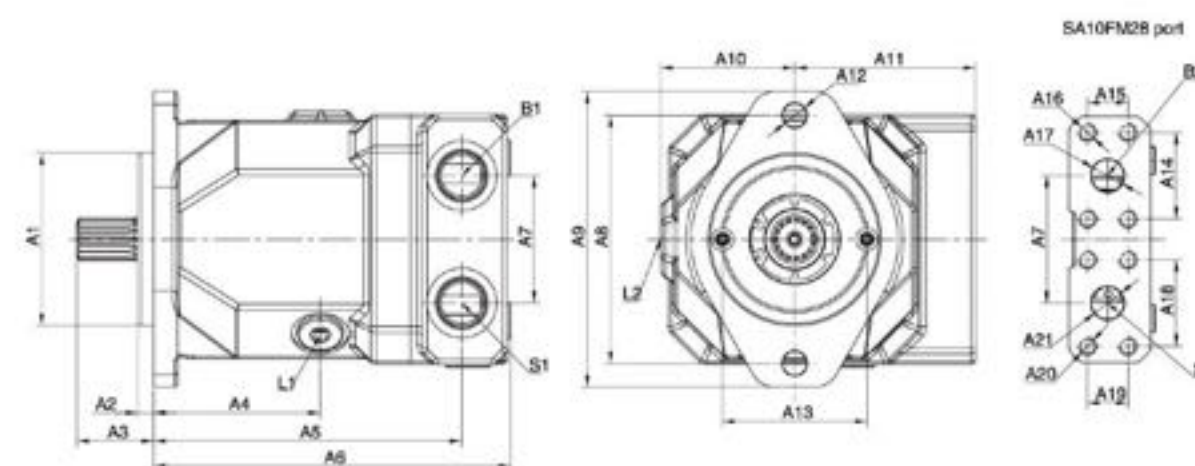


SA10FM Series

Technical Specification

Model	SA10FM28	SA10FM63
Displacement	28.5 mL/r	63.1 mL/r
Rated speed	4500 r/min	3000 r/min
Max. speed	4700 r/min	3400 r/min
Rated pressure	28 MPa	28 MPa
Max. pressure	35 MPa	35 MPa

Dimension



Dimensions of shaft end

Please inform us your required specification before installation, user guide will be provided.

Specification	Z	Module	a	Internal thread
SA10FM28	13	16/32	30°	M6
SA10FM63	15	16/32	30°	1/4-20UNC-2B

Specification	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12	A13
SA10FM28	Ø101.6	9.5	40.9	80	151	178.7	75	146	174	63	67.5	Ø14	80
SA10FM63	Ø101.6	9.5	45.2	98	181.3	210	75	146	174	79	106.5	Ø14	85

Specification	B2				S2				B1	S1	L1, L2
	A14	A15	A16	A17	A18	A19	A20	A21			
SA10FM28	50.8	23.8	M10	Ø19	50.8	23.8	M10	Ø19	—	—	3/4-16UNF-2B
SA10FM63	—	—	—	—	—	—	—	—	1 1/16-12UN-2B	1 1/16-12UN-2B	7/8-14UNF-2B

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Application & Features

The K3VL28 is an axial piston variable pump with diagonal disc structure, which is suitable for hydrostatic drive with open-circuit. The flow is proportional to the drive speed and displacement. The flow can be adjusted steplessly by adjusting the diagonal disc. It has the characteristics of high power, weight ratio, and small size. The drive shaft can bear axial and radial loads, and the installation size is too small.

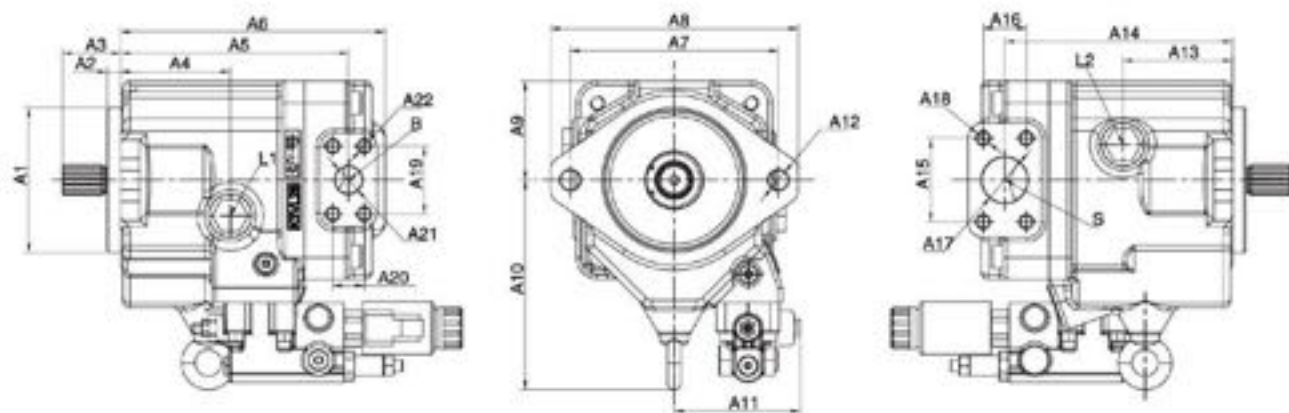


SK3VL Series

Technical Specification

Model	SK3VL28	SK3VL45
Displacement	28 mL/r	45 mL/r
Rated speed	2000 r/min	2000 r/min
Max speed	3000 r/min	2700 r/min
Rated pressure	28 MPa	32 MPa
Max pressure	35 MPa	35 MPa
Direction of rotation (View from shaft end)	R:Clockwise	

Dimension



Please inform us your required specification before installation, user guide will be provided.

Specification	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12	A13	A14
SK3VL28	101.8	9.5	41.2	77	160	165.8	146	174	69.5	147.3	88.3	14	77	160
SK3VL45	101.8	9.7	41	91	—	226	140	206	74.5	143.5	116	14	91	—

Specification	进油口S				出油口B				L1, L2		shaft	
	A15	A16	A17	A18	A19	A20	A21	A22				
SK3VL28	58.7	30.2	32	M10	47.7	22.2	19	M10	3/4-16UNF-2B		13T x 16/32DP x 30"	
SK3VL45	69.8	35.7	38	M12	52.4	26.2	25	M10	3/4-16UNF-2B		13T x 16/32DP x 30"	

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SKS HYDRAULICS

Application & Features

The SA10VNO41 is an axial piston variable pump with diagonal plate structure, which is suitable for hydraulic driving of open circuit. The flow is proportional to the driving speed and displacement. The flow can be steplessly adjusted by adjusting the diagonal plate. It has the characteristics of high power, weight ratio, small size and low noise level.

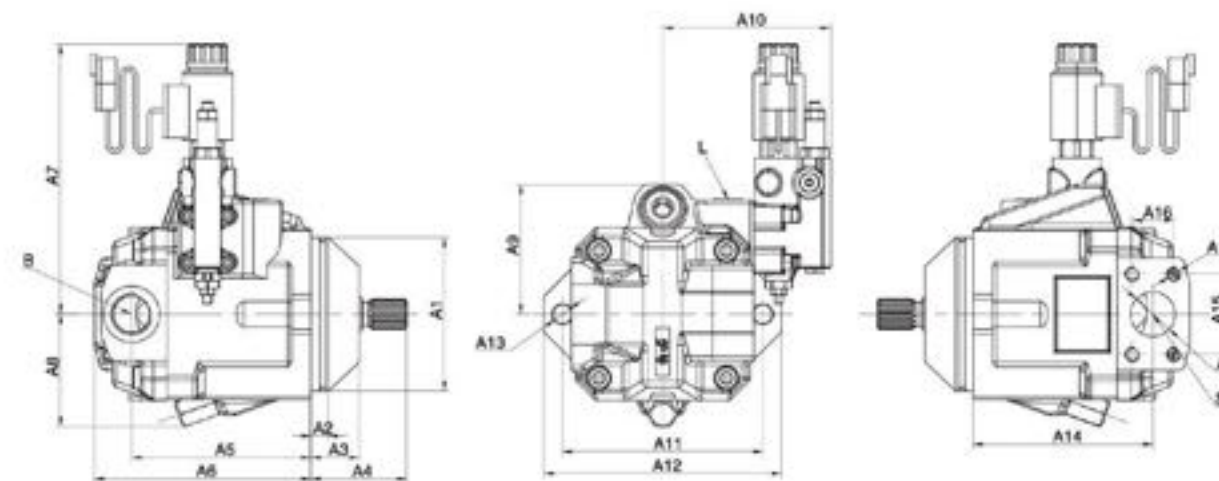


SA10VNO41 Series

Technical Specification

Model	SA10VNO41
Displacement	41 mL/r
Rated speed	1800 r/min
Max speed	2000 r/min
Rated pressure	21 MPa
Max pressure	25 MPa
Direction of rotation (View from shaft end)	R:Clockwise

Dimension



Please inform us your required specification before installation, user guide will be provided.

Specification	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12	A13	A14
SA10VNO41	Ø112	12.5	35	69.8	130.8	158	197	82	94.7	122.5	146	173	Ø14	130.8

Specification	S				B		L		shaft			
	A15	A16	A17	A18	Thread				Z	DP	a	Internal thread
SA10VNO41	58.7	30.2	Ø32.5	M10	1 1/16-12UNF-2B		16UNF		13	16/32	30°	1/4-20UNC-2B

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Application & Features

The SMF is a kind of inclined disc structure axial piston quantitative motor used for hydrostatic transmission in open and closed circuits. The output speed is proportional to the flow of the conveyor, and the output torque increases with the increase of pressure gradient between the high and low pressure sides, which is used for fan cooling systems in traveling machinery and industrial fields.

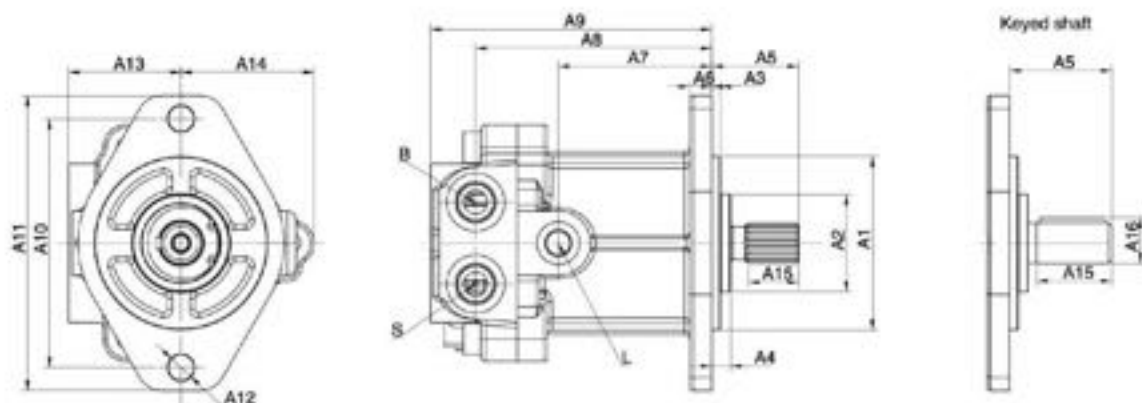


SMSF Series

Technical Specification

Model	SMSF18	SMSF-23S	SMSF-23P	SMSF-50-48
Displacement	16.4-18.4 mL/r	23.4 mL/r	23.4 mL/r	50.9 mL/r
Rated speed	2800 r/min	2800 r/min	2800 r/min	1800 r/min
Max. speed	3000 r/min	3000 r/min	3000 r/min	2000 r/min
Rated pressure	21 MPa	20 MPa	20 MPa	25 MPa
Max. pressure	25 MPa	24.5 MPa	24.5 MPa	28 MPa
Direction of rotation (View from shaft end)	R: Clockwise			

Dimension



Note: The drain port L of SMSF-50-48 is opposite to the inlet and outlet port

Please inform us your required specification before installation, user guide will be provided.

Specification	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12	A13	A14	A15	A16
SMSF18	Ø101.6	Ø57	5	11	51	13.5	67.5	113	134.5	146	174	Ø15	60	70.8	27	-
SMSF-23S	Ø101.6	Ø57	5	11	51	13	90	138.5	165	146	174	Ø15	65.8	78	29.5	-
SMSF-23P	Ø101.6	Ø57	5	11	60	13	90	138.5	165	146	174	Ø15	65.8	78	44	26.8
SMSF-50-48	Ø127	-	11	28.5	112	15	60	135.7	162.5	181	215	Ø18	80	82.5	54	37

Spline shaft

Keyed shaft

Specification	S	B	L	Z	Module	a	Internal thread	D	Keyed shaft	Internal thread
SMSF18	3/4-16UNF-2B	3/4-16UNF-2B	9/16-18UNF-2B	15	1.59	30°	3/8-20 B.S.F	-	-	-
SMSF-23S	7/8-14UNF-2B	7/8-14UNF-2B	9/16-18UNF-2B	14	16/32	30°	M10 x 1.25	-	-	-
SMSF-23P	7/8-14UNF-2B	7/8-14UNF-2B	9/16-18UNF-2B	-	-	-	-	24	A7 x 7 x 38	M10 x 1.5
SMSF-50-48	G3/4	G3/4	G3/8	-	-	-	-	34	A10 x 8 x 48	M12

All original manufacturer names, part numbers and description are for reference purposes only and it does not imply that any Part listed is the product of these manufacturers.

Application & Features

The 74315-RAA/74318-RAA fixed displacement piston motor is mainly used in Caterpillar wheel loaders as fan motors with built-in check valve. It is characterized by its high reliability, long service life, high power density and simple structure.

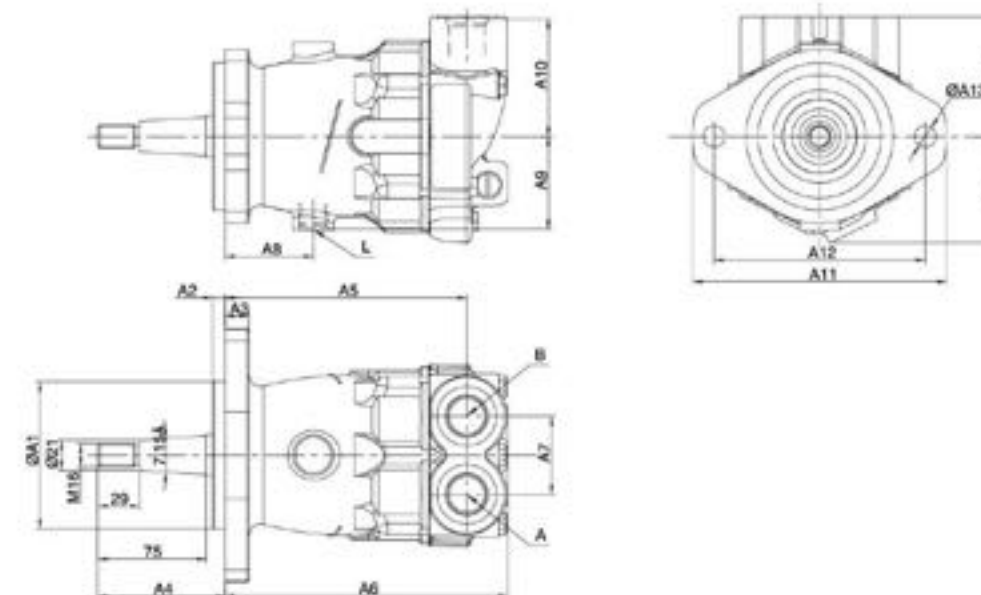


FAN MOTOR

Technical Specification

Model	129-2413	161-8919
Displacement	32.9 mL/r	40.6 mL/r
Direction of rotation (View from shaft end)	R: Clockwise	
Max. speed	3600 r/min	
Rated pressure	20.6 Mpa	
Max. pressure	37.2 Mpa	
Max. housing pressure	0.17 Mpa	
Max. operating temperature	107°C	
Min. output torque	180 N.m	
Weight	9 kg	

Dimension



Please inform us your required specification before installation, user guide will be provided.

Specification	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12
129-2413/161-8919	101.6	8.5	15	88	167	195	54	61	64	81	175	146

Specification	A13	A14	A15	A	B	L	Standard
129-2413/161-8919	15	83	74	1 1/16-12UNF	1 1/16-12UNF	3/4-16UNF	SAE J1926-1

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Hydraulic Valve/Gear Pump/Charge Pump



Gearbox



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A10VSO Series DFR/DRG Valve	A10VSO Series DR Valve	A10VSO Series LR Valve	A10VSO140DR/DRG Valve	PVC 90R Valve
A11V095/130/145LRDU2 Valve	A11VLO19GLRDU2 Valve	A11V095/130/145DRS Valve	A11V0190DRS Valve	A11V0190LDRS Valve
SAUER PV22 Valve	SAUER PV22/23/24 Valve	K3V Series Regulator	A11V060/75LDRS Valve	M2X63 Motor Valve
PVH C/CM Valve	PVB C/CM Valve	PVH CV/CMV Valve	Oilgear PVWJ Valve	Yuchai rotary overflow valve
PVE19/21 Valve	Vickers P2075/105/145 Valve	LIEBBHEER Valve	A8VO160/200 Gear Pump	CAT320C Gear Pump
K3V Gear Pump	PV20/22/23 Gear Pump	PVC90R Gear Pump	SA5D/PSVD Gear Pump	EX200-1/2/3/5 Gear Pump
A4VG71-250 Charge Pump	A4VG125 Charge Pump	A4VG56 Charge Pump	A4VG28 Charge Pump	A4VTG90 Charge Pump

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GFT17/36/60/80/110/160/17W/36W/60W/80W/110W/160W/8190/5190	GFB36
ED2150/2250/EL1572	SL3002
309/310/311	713/715/717/718/713W/715W/718W
F80/130/130W	P32102-H

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Parts Of Pump & Motor



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Parts Of Pump & Motor



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REXROTH:A8VO55/60/107/160/172/200 Main Pump



REXROTH:A4VO40/50/56/71/90/125/180/250/355/500



REXROTH:A4VG28/40/45/50/56/71/90/125/140/180/250



REXROTH:A10VSO16/18/28/45/63/71/100/140



REXROTH:A10VG28/45/63



REXROTH:A11VO50/60/75/95/130/145/160/190/250/260



REXROTH:A10VD17/23/28/40/43/71



SAUER:PV20/21/22/23/24/25/26/27



SAUER:PV90R030/42/55/75/100/130/180/250



SAUER:PVM046



EATON:3321/3331/4621/5421/6423/7621



TOKIWA:MKV23/33



HAWE:V30D95/140/250



KATO:HD3000



VICKERS:PVB5/6/10/15/20/29



VICKERS:PVH45/81/106/141



VICKERS:PVE19/21



VICKERS:PVB92 TOSHIBA:PVC90



VICKERS:SPV14/15



LINDE:HPR75/100/130/160



LINDE:BPV35/50/70



LINDE:B2PV35/50/75/105



LINDE:BPR140/186/260



PARKER:PVXS130/180/250

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