RECIPROCATING PUMP

32CCY14-1B Axial Piston Variable displacement pump

ISO9001 Supplier

Class Certificate

Export Supply

Product overview: CY14-1B series pump is an axial piston pump with cylinder rotation and variable head (swashplate). As the oil film thickness design of hydrostatic balance is adopted between the sliding shoe and t...



Key Highlights

Category	Reciprocating Pump
Standard	DIN
Weight / Size	Therefore, compared with other types of pumps, the pump has the advantag...
Certificate	ABS, LR, BV, DNVGL, NK, KR, IRS, RMRS, CCS

We can supply according to your requirement, drawings, class certificate needs, and delivery schedule.

Technical Specifications			
Category	Reciprocating Pump	**Model / SKU**	32CCY14-1B-Axial-Piston-Variable-displacement-pump
Standard	DIN	**Weight / Size**	Therefore, compared with other types of pumps, the pump has the advantages of simple structure, small volume, high efficiency, light weight, low noise, long service life, strong self-priming capacity, etc.
Surface	As the oil film thickness design of hydrostatic balance is adopted between the sliding shoe and the variable head, and between the oil distribution plate and the cylinder block, the above two pairs of moving surfaces are operated under pure liquid friction, and heavy thrust bearings are omitted.	**Certificate**	ABS, LR, BV, DNVGL, NK, KR, IRS, RMRS, CCS
Warranty	12 Months unless specified otherwise	**Origin**	China

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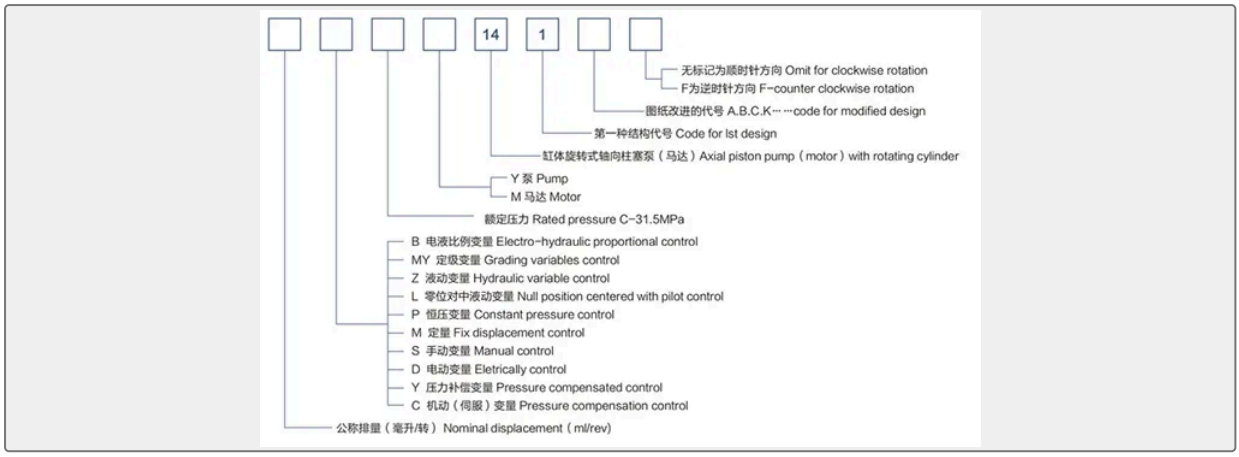
Product overview:

CY14-1B series pump is an axial piston pump with cylinder rotation and variable head (swashplate). As the oil film thickness design of hydrostatic balance is adopted between the sliding shoe and the variable head, and between the oil distribution plate and the cylinder block, the above two pairs of moving surfaces are operated under pure liquid friction, and heavy thrust bearings are omitted. Therefore, compared with other types of pumps, the pump has the advantages of simple structure, small volume, high efficiency, light weight, low noise, long service life, strong self-priming capacity, etc. It is suitable for forging and pressing machinery, machine tools, ships, aviation Hydraulic equipment such as metallurgical machinery, plastic machinery, engineering machinery and mining machinery.

working principle:

The main body (as shown in Fig. 1) is driven by the transmission shaft to rotate the cylinder block, so that the seven plungers evenly distributed on the cylinder block rotate around the center line of the transmission shaft. The sliding shoes in the column sliding components are pressed on the thrust plate (or swashplate) by the central spring. At the same time, the cylinder block is pressed on the oil distribution plate by the central spring through the outer sleeve, playing an initial sealing role. In this way, the plunger reciprocates with the rotation of the cylinder block, completing oil suction and oil pressure.

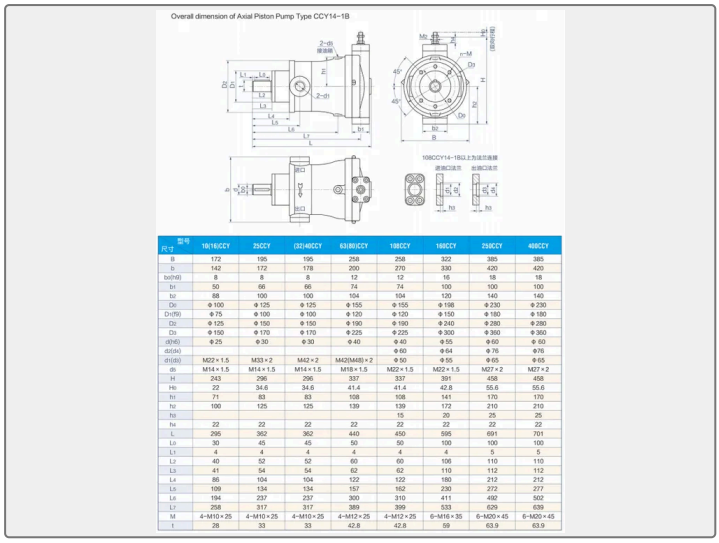
Model Description:



Technical data:

Model	(MPa) Continuous working pressure	(ml/rev) Nominal displacement	(r/min) Rated power	(KW) Rated power	(kg) SCY14-1B Weight
2.5*CY(M) 14—1B	31.5	2.5	3000	4.4	7.2
5*CY(M) 14—1B		5	1500	4.4	8.2
10*CY(M) 14—1B		10	1500	8.7	19
16*CY(M) 14—1B		16	1500	14	35
25*CY(M) 14—1B		25	1500	21.8	35
32*CY(M) 14—1B		32	1500	28	35
40*CY(M) 14—1B		40	1500	35	35
63*CY(M) 14—1B		63	1500	55	63
80*CY(M) 14—1B		80	1500	70	63
108*CY(M) 14—1B		108	1500	94.5	73
160*CY(M) 14—1B		160	1000、1500	93、 139	128
250*CY(M) 14—1B		250	1000、1500	145、 218	227
400*CY(M) 14—1B		400	1000	232	235

Size:



型号 尺寸	10(16)CCY	25CCY	(32)40CCY	63(80)CCY	108CCY	160CCY	250CCY	400CCY
B	172	195	195	258	258	322	385	385
b	142	172	178	200	270	330	420	420
b_2(h6)	8	8	8	12	12	16	18	18
b_1	50	66	66	74	74	100	100	100
b_2	88	100	100	104	104	120	140	140
D_0	Φ100	Φ125	Φ125	Φ155	Φ155	Φ198	Φ230	Φ230
D_1(f9)	Φ75	Φ100	Φ100	Φ120	Φ120	Φ150	Φ180	Φ180
D_2	Φ125	Φ150	Φ150	Φ190	Φ190	Φ240	Φ280	Φ280
D_3	Φ150	Φ170	Φ170	Φ225	Φ225	Φ300	Φ360	Φ360
d_3(h6)	Φ25	Φ30	Φ30	Φ40	Φ40	Φ55	Φ60	Φ60
d_5(d_6)					Φ60	Φ64	Φ76	Φ76
d_1(d_8)	M22×1.5	M33×2	M42×2	M42(M48)×2	Φ92	Φ55	Φ65	Φ65
d_9	M14×1.5	M14×1.5	M14×1.5	M18×1.5	M22×1.5	M22×1.5	M27×2	M27×2
H	243	296	296	337	337	391	458	458
H_0	22	34.6	34.6	41.4	41.4	42.8	55.6	55.6
h_1	71	83	83	108	108	141	170	170
h_2	100	125	125	139	139	172	210	210
h_3					15	20	25	25
h_4	22	22	22	22	22	22	22	22
L	295	362	362	440	450	595	691	701
L_0	30	45	45	50	50	100	100	100
L_1	4	4	4	4	4	4	5	5
L_2	40	52	52	60	60	106	110	110
L_3	41	54	54	62	62	110	112	112
L_4	86	104	104	122	122	180	212	212
L_5	109	134	134	157	162	230	272	277
L_6	194	237	237	300	310	411	492	502
L_7	258	317	317	389	399	533	629	639
M	4-M10×25	4-M10×25	4-M10×25	4-M12×25	4-M12×25	6-M16×35	6-M20×45	6-M20×45
t	28	33	33	42.8	42.8	59	63.9	63.9