

Serie
Series

YCB-LKB

BOMBAS DE ENGRANES

GEAR PUMPS



pumps

pumpen

azcue

bombas

pompes



YCB-0114

Features & Applications

- Smooth and efficient operation with low noise and long life.
- Media temperature up to 80°C and viscosity any point between 5~1500 cst.
- Overload protection with pressure differential safety valve, 1.5 times the rated pressure. However, safety valve is not recommended to be used as pressure relief valve.
- Soft packing and mechanical seals available for choice.

YCB series gear pumps apply to pumping non-corrosive lubricating oil or similar liquid without solid particles and fibres at temperatura below 80 °C and with the viscosity of $5 \times 10^{-6} \sim 1.5 \times 10^{-3} \text{m}^2/\text{S}$ (5-1500cSt).

It can be applied as delivering pump or booster pump in oil delivery system, as a fuel pump for delivery, pressurization and injection in fuel supply system and in all industry fields as lubricating oil pump.

YCB series gear pumps are mainly composed of gears, shafts, pump body, pump cap, bearing sheaths and shaft-end seals, etc. The gears are adopted double circular sinusoid teeth shape, which makes the gears less wear on gear surface, stable rotation, low noise, long service life and high efficiency, due to no sliding on the gear teeth during gear meshing. This kind of pump has got rid of traditional design astrict and come into a new decade in designing and application.

The pump is designed with safety valve for protecting against overload. The full return flow pressure of the safety valve is 1.5 times higher than the rated exhaust pressure of the pump. It can be also adjusted within the allowance of exhaust pressure range according to actual working condition. But please note the safety valve can't be applied as pressure-reducing valve for long time. You may install pressure-reducing valve separately on pipe-line if needed.

There are two kinds of shaft-end seals, mechanical seal and packing seal, which can be chosen according to the customer's requirement or application condition.



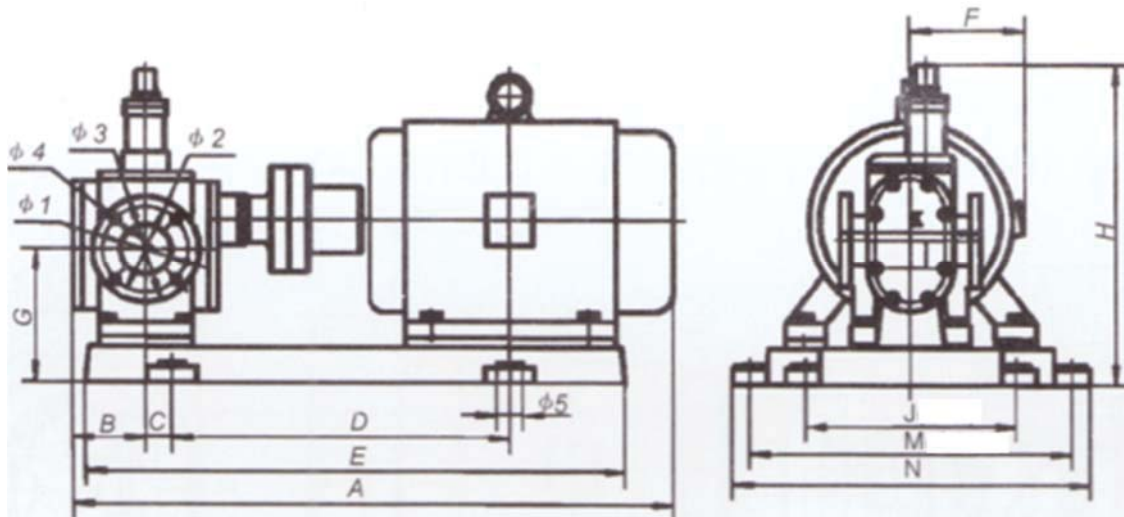
Performance Parameters

Type	Capacity m ³ /h	Speed r/min	Pressure MPa	(NPSH) _r m	Efficiency η %	Motor		
						Hz	Power KW	Type
YCB0.6-0.6	0.6	910	0.6	5.5	60	50	0.75	Y90S-6
	1.0	1390				50	0.75	Y80L2-4
	0.7	1130				60	0.75	Y90S-6
	1.2	1710				60	0.75	Y80L2-4
YCB0.6-1.6	0.6	910	1.6	7.0	70	50	1.1	Y90L-6
	1.0	1400				50	1.5	Y90L-4
	0.7	1130				60	1.1	Y90L-6
	1.2	1710				60	1.1	Y90S-4
YCB1.6-0.6	1.6	910	0.6	5.5	63	50	0.75	Y90S-6
	2.5	1400				50	1.1	Y90S-4
	1.9	1130				60	1.1	Y90L-6
	3.0	1710				60	1.5	Y90S-4
YCB1.6-1.6	1.6	940	1.6	7.0	71	50	2.2	Y112M-6
	2.5	1440				50	4	Y112M-4
	1.9	1150				60	2.2	Y112M-6
	3.0	1750				60	4	Y112M-4
YCB3.3-0.6	3.3	940	0.6	5.0	60	50	1.5	Y100L-6
	5.0	1420				50	2.2	Y100L1-4
	4.0	1150				60	1.5	Y100L-6
	6.0	1730				60	2.2	Y100L1-4
YCB3.3-1.6	3.3	960	1.6	7.0	72	50	5.5	Y132M2-6
	5.0	1440				50	7.5	Y132M-4
	4.0	1170				60	4	Y132M1-6
	6.0	1750				60	7.5	Y132M-4
YCB4-0.6	4.0	940	0.6	5.0	60	50	1.5	Y100L-6
	6.0	1420				50	2.2	Y100L1-4
	4.8	1150				60	2.2	Y100M-6
	7.2	1730				60	3	Y100L2-4
YCB4-1.6	4.0	960	1.6	7.0	72	50	5.5	Y132M2-6
	6.0	1440				50	7.5	Y132M-4
	4.8	1170				60	5.5	Y132M1-6
	7.2	1750				60	7.5	Y132M-4
YCB8-0.6	8.0	960	0.6	5.0	61	50	3	Y132S-6
	12.0	1440				50	5.5	Y132S-4
	9.6	1170				60	4	Y132M1-6
	14.4	1750				60	5.5	Y132S-4
YCB8-1.6	8.0	970	1.6	7.0	75	50	11	Y160L-6
	12.0	1460				50	15	Y160L-4
	9.6	1170				60	11	Y160L-6
	14.4	1760				60	15	Y160L-4
YCB10-0.6	10.0	960	0.6	5.0	62	50	4	Y132M1-6
	15.0	1440				50	5.5	Y132S-4
	12.0	1170				60	5.5	Y132M2-6
	18.0	1750				60	7.5	Y132M-4
YCB10-1.6	10.0	970	1.6	7.0	76	50	11	Y160L-6
	15.0	1470				50	15	Y160L-4
	12.0	1170				60	11	Y160L-6
	18.0	1770				60	18.5	Y180M-4
YCB20-0.6	20.0	970	0.6	5.0	68	50	7.5	Y160M-6
	24.0	1170				60	7.5	Y160M-6
YCB25-0.6	25.0	970	0.6	5.5	69	50	11	Y160L-6
	30.0	1170				60	11	Y160L-6
YCB30-0.6	30.0	970	0.6	5.5	65	50	11	Y160L-6
	36.0	1170				60	11	Y160L-6

Performance Parameters

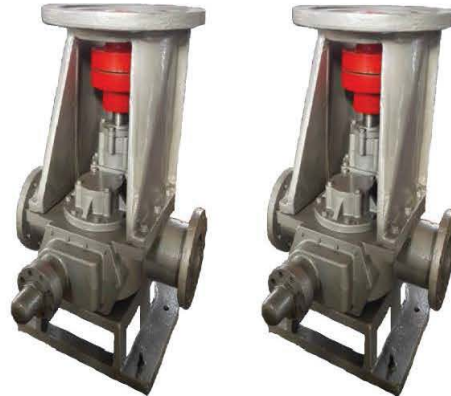
Type	Capacity m ³ /h	Speed r/min	Pressure MPa	(NPSH) _r m	Efficiency η %	Motor		
						H z	Power KW	Type
YCB40-0.6	40.0	970	0.6	5.5	66	50	15	Y180L-6
	48.0	1180				60	15	Y180L-6
YCB50-0.6	50.0	970	0.6	5.5	66	50	22	Y200L2-6
	60.0	1180				60	22	Y200L2-6
YCB60	60.0	970	1.0	5.5	65	50	30	Y225M-6
	73.0	1180				60	37	Y250M-6
YCB80	80.0	970	0.6	5.5	65	50	22	Y200L2-6
	97.0	1180				60	30	Y225M-6

Appearance & Dimensions



Pump Type	m ³ /h	A	B	C	D	E	F	G	H	J	K	M	N	ø1	ø2	ø3	n x ø4	n x ø5	Weight
YCB0.6-0.6	0.6	506	50	22.5	280	421	155	115	232	136	125	222	252	ø25	ø75	ø100	4 x M10	4 x ø14	38.5
YCB1.0-0.6	1.0	486.5			264	405	150		217			207	237						
YCB1.6-0.6	1.6	547	63	27.5	303	455	155	180	127.6	298	198	180	222	252	ø32	ø90	ø120	4 x ø14	43
YCB2.5-0.6	2.5																		
YCB3.3-0.6	3.3	644	76	35	344.5	544.5	180	127.6	298	198	180	266	298	ø40	ø100	ø130	4 x ø14	4 x ø16	65
YCB5.0-0.6	5.0																		
YCB4.0-0.6	4.0	667.5	82	40	346	557	180	127.6	298	198	180	256	288	ø50	ø110	ø140	4 x ø14	4 x ø16	66
YCB6.0-0.6	6.0																		
YCB8.0-0.6	8.0	795	101	50	382	644	210	140	396	218	220	332	364	ø65	ø130	ø160	4 x ø14	4 x ø16	117
YCB12-0.6	12																		
YCB10-0.6	10	849	111	50	430	690	210	140	396	218	220	332	364	ø65	ø130	ø160	4 x ø14	4 x ø16	130
YCB15-0.6	15	808																	
YCB20-0.6	20	1009	131.5	29.5	566	845	255	165.8	471.5	270	260	380	416	ø80	ø150	ø190	4 x ø18	4 x ø18	216
YCB25-0.6	25	1100	146.5		603	904						385	421						
YCB30-0.6	30	1125	147	35	646	954	255	165.8	471.5	270	260	400	436	ø100	ø170	ø210	4 x ø18	4 x ø18	288
YCB40-0.6	40	1214	161	42.5	673	1023						285	212						
YCB50-0.6	50	1300	159	52.5	680	1080	310	237	590	340	300	476	536	ø125	ø200	ø240	8 x ø18	4 x ø18	

MARINE VERTICAL GEAR PUMP LKB SERIAL PUMP



Capacity: Max. 325m³/h
 Different pressure: Max. 1.0 MPa
 Temperature: Max. 150°C
 Shaft sealing: Gland packing or Mech. sealing

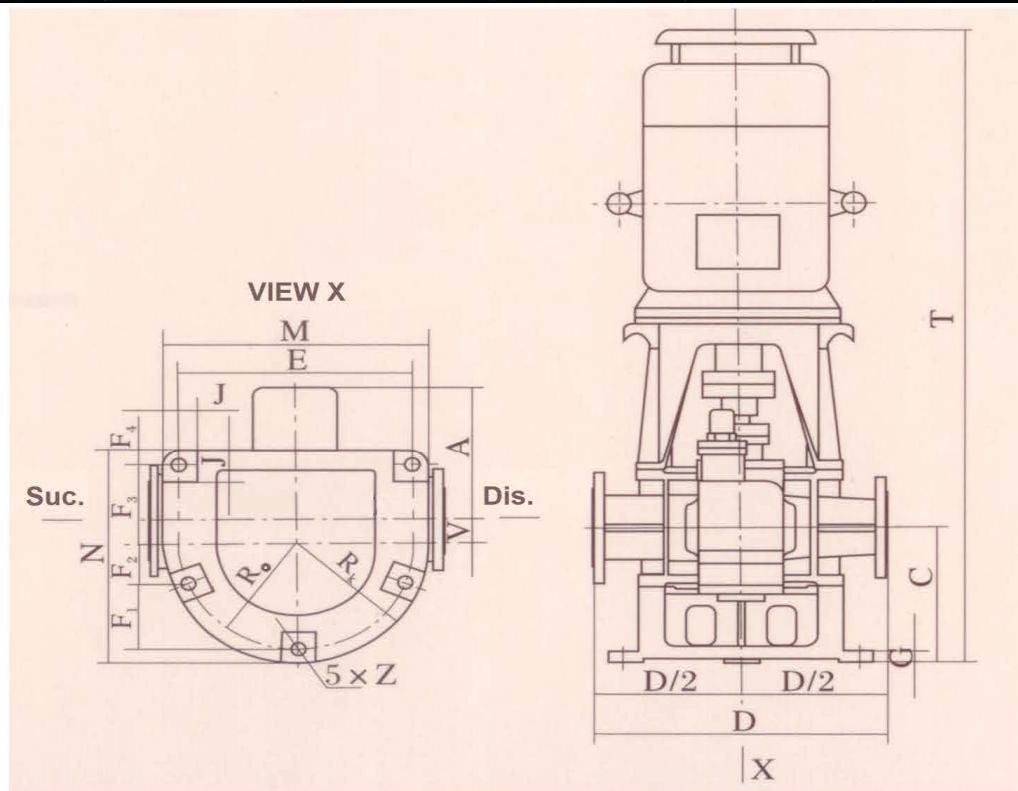
Type	Speed rpm	Frequency Hz	Capacity m ³ /h	Pressure (Mpa) @20cst				NPSH m	Suc/Dis. mm
				0.4	0.6	0.8	1.0		
				Power of shaft KW					
LKB 75	740	50	75	18.2	25	31.5	37.9	6	150
	890	60	90	21.8	30	37.8	45.5		
LKB 100	980	50	100	24.2	33.4	42	50.5		200
	1180	60	120	29	40	50.4	60.6		
LKB 110	740	50	110	26.6	36.7	46.2	55.6		250
	890	60	132	31.9	44	55.4	66.7		
LKB 125	980	50	1250	30.2	41.7	52.5	63.2		300
	1180	60	150	36.3	50	62.9	75.8		
LKB 150	980	50	150	36.3	50	62.9	75.8		
	1180	60	180	43.5	60	75.5	90.9		
LKB 175	740	50	175	42.3	58.4	73.4	88.4		
	890	60	210	50.8	70	88.1	106.1		
LKB 225	980	50	225	54.4	75	94.4	113.7		
	1180	60	270	65.3	90	121.6	136.4		
LKB 250	740	50	250	60.4	83.4	104.9	126.3		
	890	60	300	72.5	100	125.8	151.6		
LKB 325	980	50	325	78.5	108.4	134.2	164.2		
	1180	60	390	94.2	130	163.6	197		

**MARINE VERTICAL GEAR PUMP
LHB SERIAL PUMP**



Capacity: Max.100 m3/h
 Different pressure: Max. 0.6 MPa
 Temperature: Max. 80°C
 Shaft sealing: Gland packing or Mech. sealing

Size	Suc./Dis.	Capacity m3/h				Pressure Mpa
		60HZ		50HZ		
		1180rpm	900rpm	970rpm	720rpm	
LHB 0.6	Φ25/Φ25	0.72	-	0.6	-	0.6
LHB 1.6	Φ32/Φ32	1.92	-	1.6	-	
LHB 10	Φ65/Φ65	12	-	10	-	
LHB 20	Φ100/Φ80	24	-	20	-	
LHB 25		30	-	25	-	
LHB 30	Φ125*Φ100	36	-	30	-	
LHB 40	Φ150/Φ125	48	-	40	-	
LHB 50		61	-	50	-	
LHB 65		-	65	-	55	
LHB 80		-	80	-	65	
LHB 90		-	90	-	75	
LHB 100	Φ200/Φ150	-	100	-	85	



Size	Motor Frame	Dimension (mm)																
		A	C	D	E	F1	F2	F3	F4	G	J	RK	M	N	RO	T	V	Z
LHB 0.6	Y90S	134	120	230						15			220	205	111		12	Φ14
	Y100L	134	120	230						15			220	205	111		12	
LHB 1.6	Y90S		120	240	174	52.5	50	50	22.5	20			200	197				Φ15
LHB 10	Y132M		143	280	275	135	67.5	67.5	40	25	80		320	355				Φ22
LHB 20	Y160M	250	253	500	400	125	75	150	25	20	60	225	450	400	200	1201	45	Φ23
LHB 25	Y160L	250	253	500	400	125	75	150	25	20	60	225	450	400	200	1246	45	
LHB 30	Y160L	268	265	500	400	125	75	150	25	20	60	225	450	400	200	1259	45	
LHB 40	Y180L-6	354	300	620	510	160	95	200	25	25	70	280	560	505	255	1404	53	
LHB 50	Y200L-6	354	300	620	510	160	95	200	25	25	70	280	560	505	255	1404	53	
LHB 65	Y225M		330	720	620	200	110	235	30		70	335	670	600	310		62	Φ24
LHB 80	Y250M		350	720	620	200	110	235	30		70	335	670	600	310		62	
LHB 90	Y280S		350	720	620	200	110	235	30		70	335	670	600	310		62	
LHB 100	Y280S		417	780	680	215	125	250	30		80	370	740	650	340		70	Φ28