

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 and LKB series gear pumps apply to pumping non-corrosive lubricating oil or similar liquid without solid particles at temperatures below 80°C (YCB series) and below 150°C (LKB series) with the viscosities from 5 to 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 and LKB series gear pumps main components are: gears, shafts, pump body, pump cap, bearing bushings and shaft-end seals, etc. The gears have double circular sinusoidal teeth shape, which makes the gears to have less wear on gear surface, stable rotation, low noise, long service life and high efficiency, as there is no sliding on the gear teeth during gear meshing. This kind of pump has not a traditional design and come into a new decade in designing and application in gear pumps.

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 discharge pressure of the pump. It can be also adjusted within the allowance of discharge pressure range according to actual working condition. 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

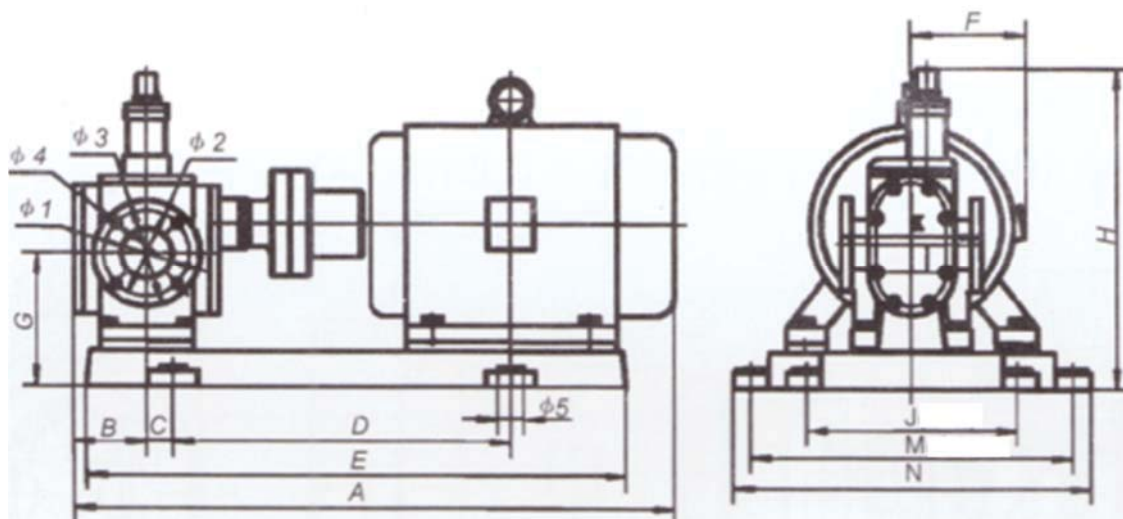
Type	Capacity m³/h	Speed r/min	Pressure MPa	(NPSH) _r m	Efficiency η %	Motor		
						Hz	Power KW	Type
YCB0.6-0.6	0.6	910	0.6	5.5	60	50	0.75	Y90S-6
	1.0	1390				50	0.75	Y80L2-4
	0.7	1130				60	0.75	Y90S-6
	1.2	1710				60	0.75	Y80L2-4
YCB0.6-1.6	0.6	910	1.6	7.0	70	50	1.1	Y90L-6
	1.0	1400				50	1.5	Y90L-4
	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

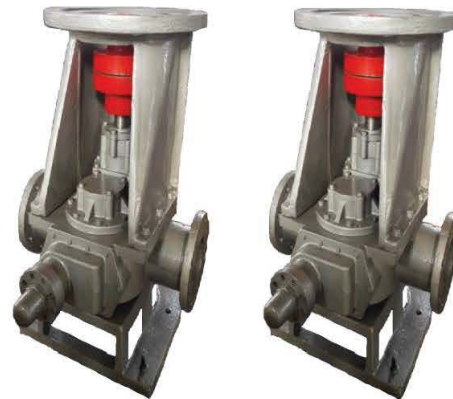
Type	Capacity m³/h	Speed r/min	Pressure MPa	(NPSH) _r m	Efficiency η %	Motor		
						H z	Power KW	Type
YCB40-0.6	40.0	970	0.6	5.5	66	50	15	Y180L-6
	48.0	1180				60	15	Y180L-6
YCB50-0.6	50.0	970	0.6	5.5	66	50	22	Y200L2-6
	60.0	1180				60	22	Y200L2-6
YCB60	60.0	970	1.0	5.5	65	50	30	Y225M-6
	73.0	1180				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	m³/h	A	B	C	D	E	F	G	H	J	K	M	N	φ1	φ2	φ3	n×φ4	n×φ5	Weight
YCB0.6-0.6	0.6	506	50	22.5	280	421	155	115	232	136	125	222	252	φ25	φ75	φ100	4×M10	4×φ14	38.5
YCB1.0-0.6	1.0	486.5			264	405	150		217	136	125	207	237	φ25	φ75	φ100	4×M10		38.5
YCB1.6-0.6	1.6	547	63	27.5	303	455	155	115	243	156	150	222	252	φ32	φ90	φ120	4×M10	4×φ14	43
YCB2.5-0.6	2.5																		43
YCB3.3-0.6	3.3	644	76	35	344.5	544.5	180	127.6	298	198	180	266	298	φ40	φ100	φ130	4×M10	4×φ14	65
YCB5.0-0.6	5.0																		65
YCB4.0-0.6	4.0	667.5	82	40	346	557	180	127.6	298	198	180	256	288	φ50	φ110	φ140	4×M10	4×φ14	66
YCB6.0-0.6	6.0																		66
YCB8.0-0.6	8.0	795	101	50	382	644	210	140	396	218	220	332	364	φ65	φ130	φ160	4×M10	4×φ16	117
YCB12-0.6	12																		117
YCB10-0.6	10	849	111	50	430	690	210	140	396	218	220	332	364	φ65	φ130	φ160	4×M10	4×φ16	130
YCB15-0.6	15	808			392	652													130
YCB20-0.6	20	1009	131.5	29.5	566	845	255	165.8	471.5	270	260	380	416	φ80	φ150	φ190	4×M10	4×φ18	216
YCB25-0.6	25	1100	146.5		603	904						385	421	φ100	φ170	φ210			223
YCB30-0.6	30	1125	147	35	646	954	255	196	517	295	275	400	436	φ100	φ170	φ210	4×M10	4×φ18	288
YCB40-0.6	40	1214	161	42.5	673	1023						425	461	φ125	φ200	φ240			364
YCB50-0.6	50	1300	159	52.5	680	1080	310	237	590	340	300	476	536	φ125	φ200	φ240	8×φ18	4×φ18	

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 m3/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		
	1180	60	120	29	40	50.4	60.6		
LKB 110	740	50	110	26.6	36.7	46.2	55.6		
	890	60	132	31.9	44	55.4	66.7		
LKB 125	980	50	1250	30.2	41.7	52.5	63.2		
	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		