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YCB系列齿轮泵

YCB Series Gear Pump



浙江扬子江泵业有限公司
ZHEJIANG YANGTZE RIVER PUMP CO.,LTD

Address: No. 3, Linyang Industrial Zone, Oubei, Yongjia,

Wenzhou, Zhejiang Province, China

E-mail:sales@yangzepumps.com

Tel: +86-577-67988715

Website:www.yangtzeriverpump.com



YCB系列圆弧齿轮泵

YCB SERIES ARC GEAR PUMP



不锈钢材质
Stainless steel



铸钢材质
Cast steel

1、用途

适用于输送不含固体颗粒和纤维、无腐蚀性，温度不高于300℃，粘度为 $5 \times 10^{-3} \sim 1.5 \times 10^{-3} \text{m}^2/\text{s}$ (5~1500cSt)的润滑油或性质类似润滑油的其它液体以及用于液压传动系统。

降低泵的转速，输送介质的粘度可到 $5 \times 10^5 \text{cSt}$ 。

2、应用范围

在输油系统中可用作传输，增压泵；

在燃油系统中可用作输送、加压、喷射的燃油泵；

在液压传动系统中可用作提供液压动力的液压泵；

在一切工业领域中，均可作润滑油泵用。

3、结构特点

本系列齿轮泵主要有齿轮、轴、泵体、泵盖、轴承套、轴端密封等组成。齿轮采用双圆弧正弦曲线齿形制造。它与渐开线齿轮相比最突出的优点是齿轮啮合过程中齿廓面没有相对滑动，所以齿面无磨损，运转平稳，无困液现象，噪音低、寿命长、效率高。该泵摆脱了传统设计的束缚，使得齿轮泵在设计、生产和使用上进入了一个新的领域。

泵设有安全阀作为超载保护，安全阀全回流压力为泵额定排出压力的1.5倍。也可在允许排出压力范围内根据实际需要另行调整。但注意本安全阀不能作减压阀长期工作，需要时可在管路上另行安装。

泵轴端密封设计为两种形式，一种为机械密封，一种是填料密封，可根据具体使用情况和用户要求确定。

从主轴外伸端向泵看，为顺时针旋转。

1.Application:

It applies to delivering non-corrosive lubricating-oil or equivalent liquid without solid particles and fibres at temperature below 300℃ and with the viscosity of $5 \times 10^{-3} \sim 1.5 \times 10^{-3} \text{m}^2/\text{s}$ (5~1500cSt). It applies to hydraulic system, too.

Reducing the speed, the pump can delivery the liquid that viscosity can be up to $5 \times 10^5 \text{cSt}$.

2.Application Scope

It can give performance as transfer pump of booster pump in oil delivery system, and fuel pump for delivery, pressurization and injection in fuel supply system. It can be also applied as hydraulic pump supplying hydraulic power in hydraulic system and in all industry fields as lubricating pump.

3.Features

YCB series gear pumps are mainly composed of gears, axles, pump body, pump cover, bearing sleeves and axle-end seal, etc. The gears are adopted double circular teech shape, which makes the gears less wear on gear surface, stable revolution, low noise, long service life and high efficiency, due to no sliding on the teeth during gear falling-in. This of pump has got rid of kind traditional design and come into a new decade in designing application.

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

There are two kinds of axle-end seals, mechanical seal and packing seal, which can be chosen according to the clients' requirement or application circumstance.

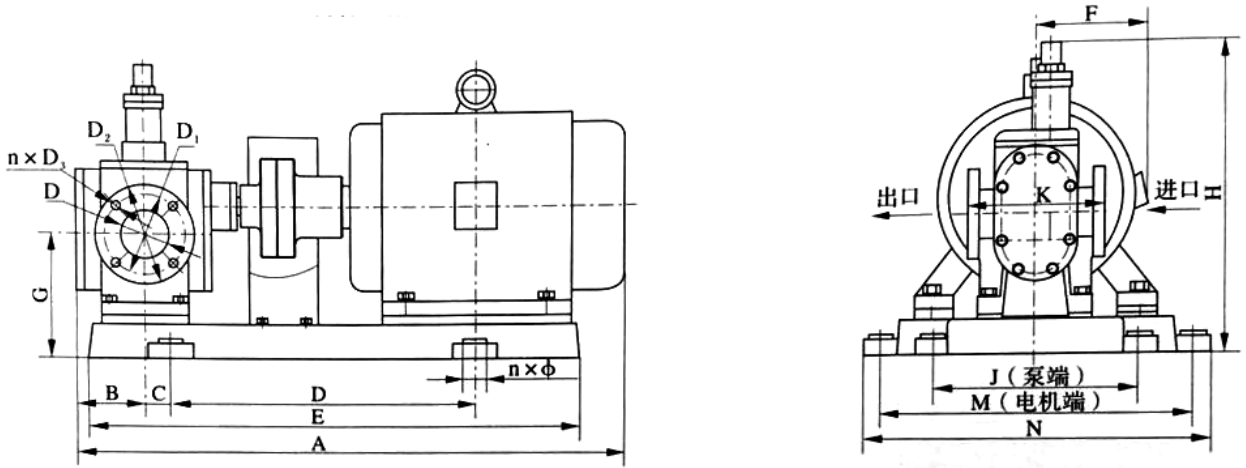
The direction of rotation is clockwise viewed from coupling end.

YCB型齿轮泵性能参数

FUNCTIONAL DATA OF YCB SERIES CIRCULAR TEETH GEAR PUMPS

型号 Model	流量 Capacity Q M ³ /h	转速 Speed r/min	排出压力 Exhaust Pressure p MPa	必需汽 蚀量 (NPSH)r m	效率 Efficiency η %	电动机 Motor		
						频率 Hz	功率 kW Power	型号 Model
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	Y90L-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	Y112M-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	Y132M-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
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
YCB60-0.6	60.0	970	0.1	5.5	65	50	30	Y225M-6
	73.0	1180				60	37	Y250M-6
YCB80-0.6	80.0	970	0.6	5.5	65	50	30	Y225-6
	97.0	1180				60	30	

■ YCB型泵外形、安装尺寸 YCB type gear pump outlineinstallation dimension



型号 Model	流量 Capacity m³/h	A	B	C	D	E	F	G	H	J	K	M	N	D	D ₁	D ₂	n×D ₃	n×φ
YCB0.6-0.6	0.6	506	50	22.5	280	421	155	115	232	136	125	222	252	25	75	100	4×M10	4×φ14
YCB1.0-0.6	1.0	486.5	50	22.5	264	405	150	115	217	136	125	207	237	25	75	100	4×M10	4×φ14
YCB1.6-0.6	1.6	547	63	27.5	303	455	155	115	243	156	150	222	252	32	90	120	4×φ14	4×φ14
YCB2.5-0.6	2.5	547	63	27.5	303	455	155	115	243	156	150	222	252	32	90	120	4×φ14	4×φ14
YCB3.3-0.6	3.3	644	76	35	344.5	544.5	180	122.6	298	198	180	266	298	40	100	130	4×φ14	4×φ16
YCB5.0-0.6	5.0	644	76	35	344.5	544.5	180	122.6	298	198	180	266	298	40	100	130	4×φ14	4×φ16
YCB4.0-0.6	4.0	667.5	82	40	346	557	180	127.6	298	198	180	256	288	50	110	140	4×φ14	4×φ16
YCB6.0-0.6	6.0	667.5	82	40	346	557	180	127.6	298	198	180	256	288	50	110	140	4×φ14	4×φ16
YCB8.0-0.6	8.0	795	101	50	382	644	210	140	396	218	220	332	364	65	130	160	4×φ14	4×φ16
YCB12-0.6	12	795	101	50	382	644	210	140	396	218	220	332	364	65	130	160	4×φ14	4×φ16
YCB10-0.6	10	849	111	50	430	690	210	140	396	218	220	332	364	65	130	160	4×φ14	4×φ16
YCB15-0.6	15	808	111	50	382	644	210	140	396	218	220	332	364	65	130	160	4×φ14	4×φ16
YCB20-0.6	20	1009	131.5	29.5	566	845	255	165.8	471.5	270	260	380	416	80	150	190	4×φ18	4×φ18
YCB25-0.6	25	1100	146.5	29.5	603	904	255	165.8	471.5	270	260	385	421	100	170	210	4×φ18	4×φ18
YCB30-0.6	30	1125	147	35	646	954	255	196	517	295	275	400	436	100	170	210	4×φ18	4×φ18
YCB40-0.6	40	1214	161	42.5	673	1023	285	212	562	315	300	425	461	125	200	240	8×φ18	4×φ18
YCB50-0.6	50	1300	159	52.5	680	1080	310	237	590	340	300	476	536	125	200	240	8×φ18	4×φ22
YCB60-0.6	60	1321	183	52.5	680	1080	315	260	642	340	360	476	536	125	210	250	8×φ18	4×φ22