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The banner features the Hanthing logo on the left, which consists of a stylized blue 'S' shape above the word 'Hanthing' in a blue sans-serif font. To the right of the logo is a collage of various industrial pumps and valves. A large, diagonal blue arrow points from the bottom left towards the top right, containing the text 'Water pump' in a bold, yellow, sans-serif font. To the right of the arrow, the following pump types are listed in white text on blue rectangular backgrounds: 'Inline', 'Split case', 'Multi stage', and 'End suction'. At the bottom of the banner, the website 'www.hanthing.com' is displayed in white text on a blue background. The collage also includes the phrases 'QUALITY CREATES VALUE' and 'INNOVATION SHAPES THE FUTURE'.

Hanthing

Water pump

Inline
Split case
Multi stage
End suction

www.hanthing.com



The banner features the Exthin logo on the left, which consists of a stylized yellow 'X' shape above the word 'Exthin' in a bold, yellow, sans-serif font. To the right of the logo is a collage of various industrial compressors. A large, diagonal black arrow points from the bottom left towards the top right, containing the text 'Air Compressor' in a bold, yellow, sans-serif font. To the right of the arrow, the following compressor types are listed in yellow text on black rectangular backgrounds: 'Portable', 'Screw', and 'Piston'. At the bottom of the banner, the website 'www.exthin.com' is displayed in white text on a black background. The collage also includes a detailed image of a large industrial air compressor unit.

Exthin

Air Compressor

Portable
Screw
Piston

www.exthin.com

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国家产品质量免检 | 中国著名品牌

YCB齿轮泵

YCB Series Gear Pump



YCB 系列圆弧齿轮泵

YCB SERIES CIRCULAR GEAR PUMP



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80℃，粘度为 $5 \times 10^{-4} \sim 1.5 \times 10^{-3} \text{ m}^2/\text{s}$ (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。

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 80℃ and with the viscosity of $5 \times 10^{-4} \sim 1.5 \times 10^{-3} \text{ m}^2/\text{s}$ (5—1500cSt). It applies to hydraulic System, too.

2、Application Scope

It can give performance as transfer pump or 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、Structure 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 teeth 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 kind of pump has got rid of traditional design and come into a new decade in designing and 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 adjusted within the allowance of exhaust pressure range according to circumstance. 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 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.

性能曲线图

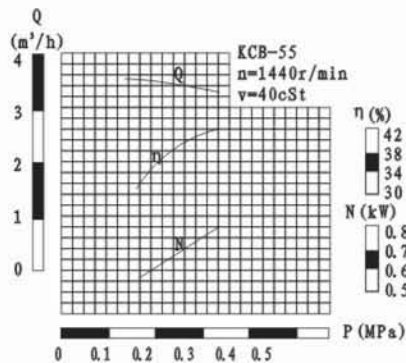
DIAGRAM OF PERFORMANCE CURVE

各型齿轮泵的性能参数，是在介质粘度 $4 \times 10^{-5} \text{ m}^2/\text{s}$ (40cSt) 时确定的。性能参数表中给出的参数值适用于介质粘度 $1 \times 10^{-5} \sim 8 \times 10^{-5} \text{ m}^2/\text{s}$ (10—80cSt) 范围内，超出这个范围则根据用户提出的性能参数要求另行确定。

各型齿轮泵性能参数中给出的排出压力是给出的最大工作压力值，在此范围内泵均能正常工作，其工作范围见图一。

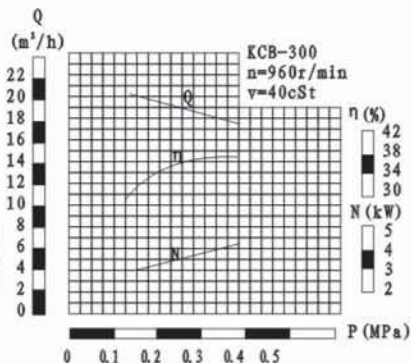
Performance data of all gear pump have been defined on basis of the viscosity of $4 \times 10^{-5} \text{ m}^2/\text{s}$ (40cSt). The data indicated in the performance diagram is suitable to medium viscosity of $1 \times 10^{-5} \sim 8 \times 10^{-5} \text{ m}^2/\text{s}$ (10—80cSt). If which exceeds the above viscosity, the data will be re-defined according to the client's demands.

The given exhausting pressure of all gear pumps is the highest working pressure, and pumps can perform normally within range of the rated working pressure, which can be found in Diagram N0.1.



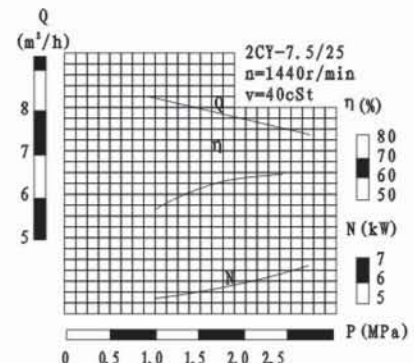
KCB-55型性能曲线图

Diagram of Performance Curve of Model KCB-55 Gear Pump



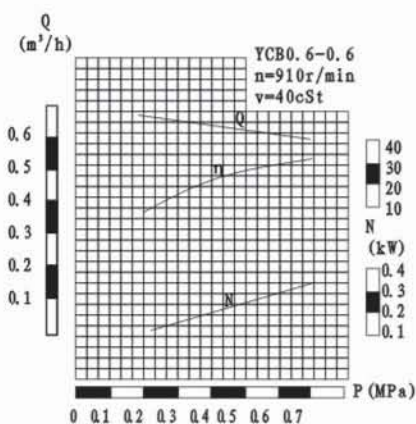
KCB-300型性能曲线图

Diagram of Performance Curve of Model KCB-300 Gear Pump



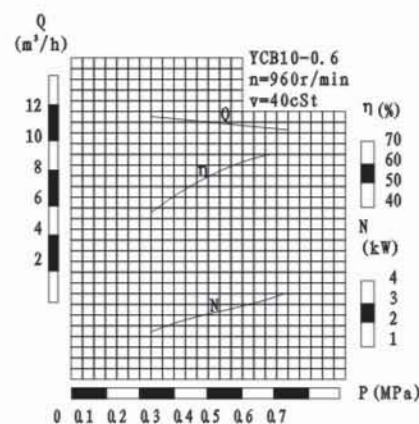
2CY-7.5/25型性能曲线图

Diagram of Performance Curve of Model 2CY-7.5/25 Gear Pump



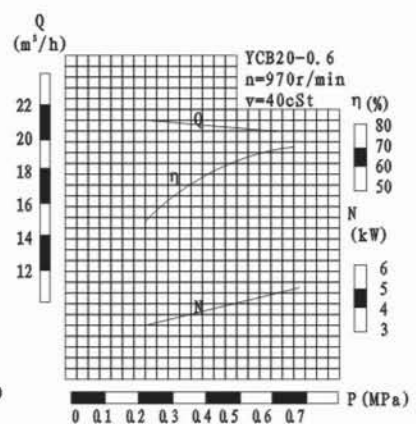
YCB 0.6-0.6型性能曲线图

Diagram of Performance Curve of Model YCB 0.6-0.6 Gear Pump



YCB 10-0.6型性能曲线图

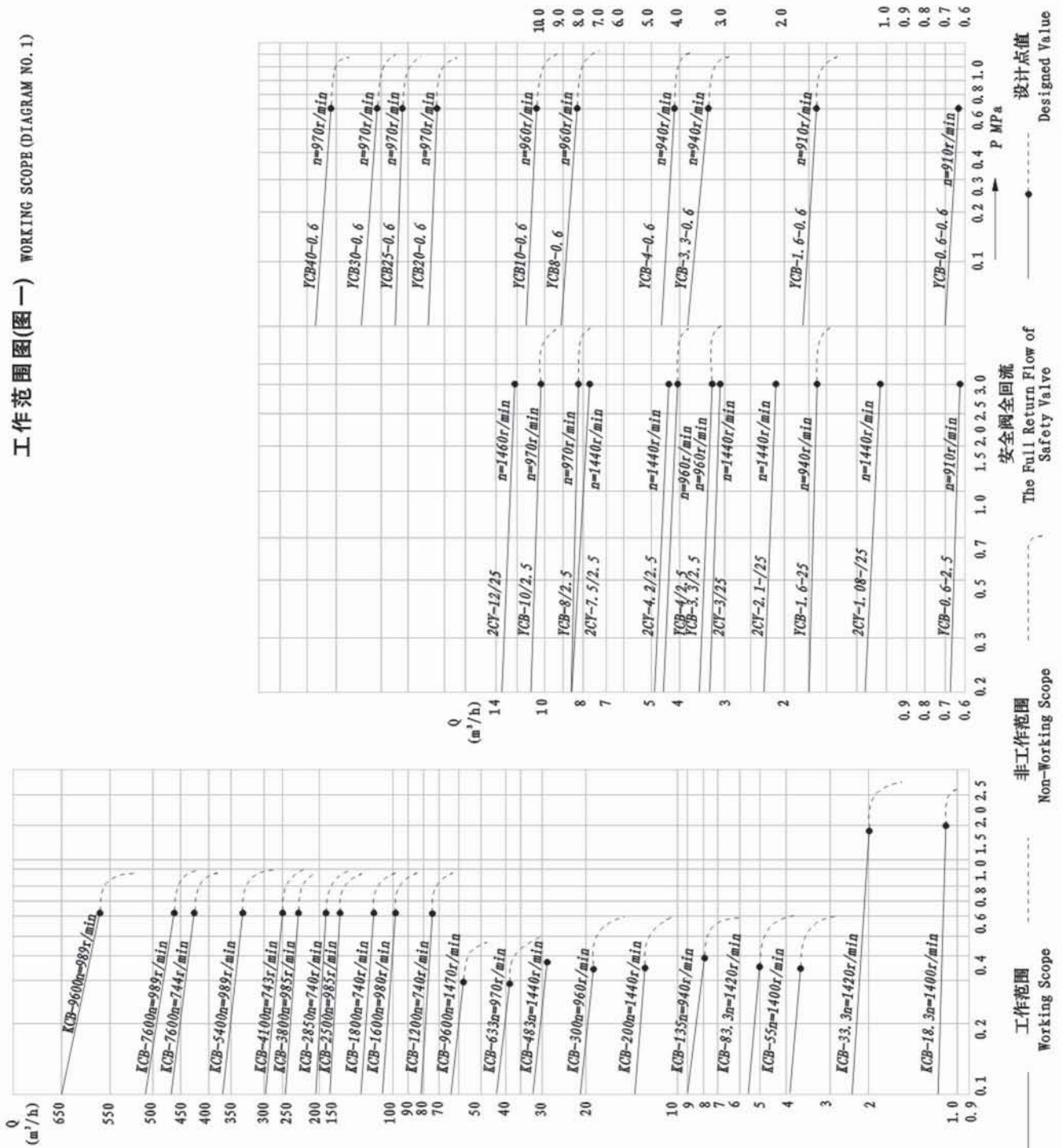
Diagram of Performance Curve of Model YCB 10-0.6 Gear Pump



YCB 20-0.6型性能曲线图

Diagram of Performance Curve of Model YCB 20-0.6 Gear Pump

工作范围图(图一) WORKING SCOPE (DIAGRAM NO. 1)



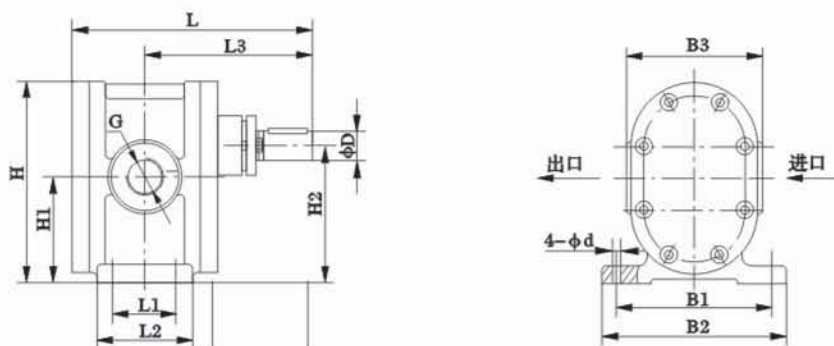
YCB型齿轮泵性能参数

FUNCTIONAL DATA OF YCB SERIES CIRCULAR TEETH GEAR PUMPS

型号 Model	流量 Capacity Q m³/h	转速 Speed r/min	排出压力 Exhaust Pressure P MPa	必需汽 蚀余量 (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	60.0	970	0.6	5.5	65	50	22	Y200L2-6
	73.0	1180				60	30	Y225M-6
YCB80	80.0	970	0.6	5.5	65	50	30	Y225M-6
	97.0	1180				60	37	Y250M-6

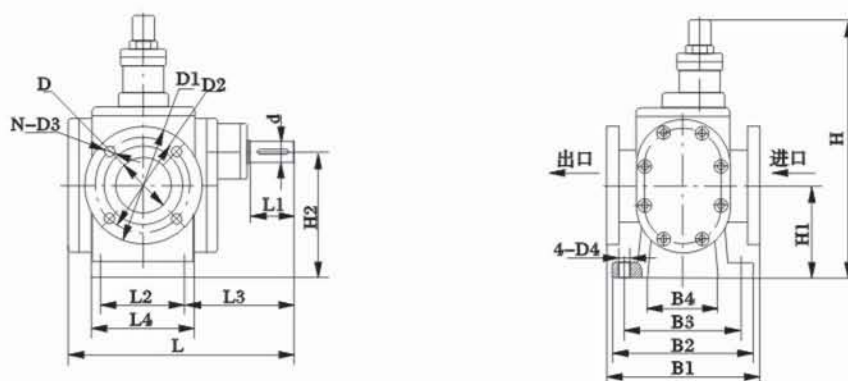
型号 Model	L	L ₁	L ₂	B ₁	B ₂	B ₃	H	H ₁	H ₂	φ1	φ2	φ3	n-d	φD	4-φD
KCB-1200	715	300	480	415	463	510	708	220	300	150	225	260	8-φ18	56	25
KCB-1600															
KCB-1800															
KCB-2500	830	340	547	460	585	684	876	262	350	200	280	320	8-φ18	76	25
KCB-2850															
KCB-3800															
KCB-4100	948	380	625	520	584	640	915	299	400	250	335	370	12-φ18	86	25
KCB-5600															
KCB-7000															
KCB-7600	1085	345	700	500	600	740	1155	386	500	350	445	490	12-φ23	95	32
KCB-9600															

2CY 型泵外形、安装尺寸 2CY GEAR PUMP APPERANCE & INSTALLATION DIMENSION

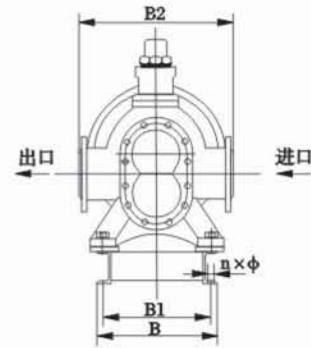
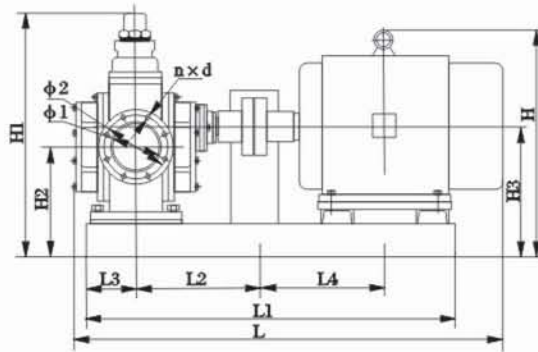


型号 Model	L	L ₁	L ₂	L ₃	B ₁	B ₂	B ₃	H	H ₁	H ₂	G	φD	4-φD
2CY-1.08/2.5	193.5	45	75	138.5	114	138	95	132	67.5	87	G3/4"	18	10
2CY-2.1/2.5	198.5	48	78	142.5	124	154	110	164.5	86	112	G1"	18	10
2CY-3/2.5	198.5	48	78	142.5	124	154	110	164.5	86	112	G1"	18	10
2CY-4.2/2.5	220	58	88	155	160	190	140	205	107.5	140	G1 1/4"	28	12
2CY-7.5/2.5	239	65	98	164.5	160	190	140	205	107.5	140	G1 1/2"	28	12
2CY-12/2.5	360	106	136	257	190	220	210	256	136	178	G2"	32	14

YCB 型泵外形、安装尺寸 YCB TYPE GEAR PUMP APPERANCE & INSTALLATION DIMENSION



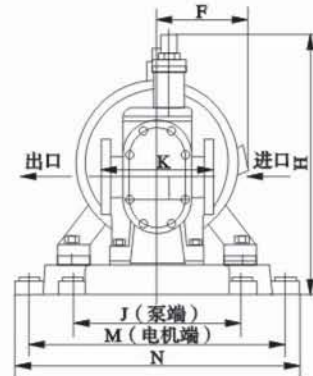
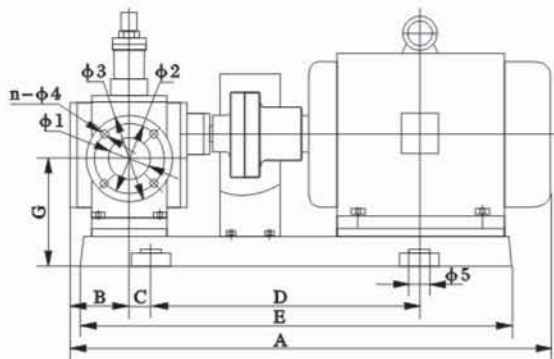
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YCB0.6	180	30	45	107.5	66	125	91	70	35	187	80	92	φ25	φ100	φ75	4-M10	4-φ9	φ12
YCB1.6	208	32	55	118.5	80	150	115	90	50	208	79.7	95	φ32	φ120	φ90	4-φ14	4-φ11	φ14
YCB3.3	247.6	35	70	132.85	98	180	148	120	75	258	87.6	110	φ40	φ130	φ100	4-φ14	4-φ13	φ18
YCB4	260.6	35	80	134.8	108	180	148	120	75	263	92.6	115	φ50	φ140	φ110	4-φ14	4-φ13	φ18
YCB8	313	45	100	158.5	138	220	178	140	90	361	105	135	φ65	φ160	φ130	4-φ14	4-φ13	φ24
YCB10	330	45	100	168.5	138	220	178	140	90	360	105	135	φ65	φ160	φ130	4-φ14	4-φ13	φ24
YCB20	400	55	135	201	182	260	226	180	118	436.5	130.8	170	φ80	φ190	φ150	4-φ18	4-φ18	φ32
YCB25	430	55	135	216	182	260	226	180	118	436.5	130.8	170	φ100	φ210	φ170	4-φ18	4-φ18	φ32
YCB30	459	60	150	236	200	275	231	190	126	461	141	185	φ100	φ210	φ170	4-φ18	4-φ18	φ35
YCB40	500	70	175	251.5	225	300	260	210	140	509	157	205	φ125	φ240	φ200	8-φ18	4-φ18	φ40
YCB50	493	70	175	246.5	225	300	260	210	140	509	157	205	φ125	φ240	φ200	8-φ18	4-φ18	φ40



型号 Model	L	L ₁	L ₂	L ₃	L ₄	H	H ₁	H ₂	H ₃	B	B ₁	B ₂	φ1	φ2	n×d	n×φ
KCB5600	2632	2090	723	245	723	1465	1440	671	785	760	690	740	φ350	φ445	12-φ23	6-φ32
KCB7000	2662	2090	723	245	723	1465	1440	671	785	760	690	740	φ350	φ445	12-φ23	6-φ32
KCB7600	2632	2090	723	245	723	1465	1440	671	785	760	690	740	φ350	φ445	12-φ23	6-φ32
KCB9600	2662	2090	723	245	723	1465	1440	671	785	760	690	740	φ350	φ445	12-φ23	6-φ32

YCB型整机外形、安装尺寸及重量

YCB TYPE GEAR PUMP APPRANCE INSTALLATION DIMENSION & WEIGHT



型号 Model	流量 m³/h	A	B	C	D	E	F	G	H	J	K	M	N	φ1	φ2	φ3	n×φ4	n×φ5	重量 Weight(kg)
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			207	237						
YCB1.6-0.6	1.6	547	63	27.5	303	455	155		243	156	150	222	252	φ32	φ90	φ120			
YCB2.5-0.6	2.5																		
YCB3.3-0.6	3.3	644	76	35	344.5	544.5	180	122.6	298	198	180	266	298	φ40	φ100	φ130	4×φ14	4×φ16	65
YCB5.0-0.6	5.0							127.6				256	288						
YCB4.0-0.6	4.0	667.5	82	40	346	557		127.6				256	288	φ50	φ110	φ140			
YCB6.0-0.6	6.0																		
YCB8.0-0.6	8.0	795	101	50	382	644	210	140	396	218	220	332	364	φ65	φ130	φ160	4×φ16	117	
YCB12-0.6	12																		
YCB10-0.6	10	849	111		430	690													
YCB15-0.6	15	808		392	652														
YCB20-0.6	20	1009	131.5	29.5	566	845	255	165.8	471.5	270	260	380	416	φ80	φ150	φ90	4×φ18	4×φ18	216
YCB25-0.6	25	1100	146.5		603	904						385	421						
YCB30-0.6	30	1125	147	35	646	954		196	517	295	275	400	436	φ100	φ170	φ210			
YCB40-0.6	40	1214	161	42.5	673	1023	285	212	562	315	300	425	461	φ125	φ200	φ240	8×φ18	4×φ18	364
YCB50-0.6	50	1300	159	52.5	680	1080	310	237	590	340	300	476	536	φ125	φ200	φ240	8×φ18	4×φ22	