

Hydraulic Motor series

液压马达系列

宁波欧士杰液压传动有限公司
Ningbo OUSHIJIE Hydraulic Transmission Co.,Ltd.

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欧士杰 OUSHIJIE

COMPANY PROFILE
企业简介

宁波欧士杰液压传动有限公司位于风景秀丽、人杰地灵的海滨城市——宁波。著名的杭州湾大桥、深水港北仑港，为我们提供了便捷的交通条件，并将我们融入大都市上海经济圈。

我公司专业设计生产液压马达，液压成套系统及成套液压设备。在多年的专研、创新和探索中，具备了独立研发、生产的能力。公司拥有现代化的标准厂房和一大批高精度、先进的加工设备，并拥有一批强大的创新研发专业设计人才。本公司产品在市场上赢得了客户的广泛认同和良好信誉。

精益求精，开拓创新不仅仅是一个口号，是每个员工烙在心里的信念和追求。在优胜劣汰的市场竞争中，质量是重中之重，公司将以执着的信念，不遗余力追求客户称心的品质。



GM
系列摆缸式液压马达 01-17



NHM
系列曲轴连杆式液压马达 18-31



配流盘
液压马达配流盘、集成式液压配流盘 32-37



QJM
系列径向钢球液压马达 38-57



GM

产品概述

GM系列液压马达是本公司集合多年生产实践经验，在原有的技术基础上进行了设计改进。使GM系列马达壳体强度增加，内部动态元件承载能力增强。这一特点使该系列马达具有很高的连续功率范围。由于机械效率和容积效率高，同时又减少了内部单位负载力，因此减少了热量产生及与此相关的负面效应。其主要特点如下：

1、由于活塞与摆缸不存在侧向力，活塞底部设计成静压平衡，活塞与曲轴之间通过滚动轴承传递扭力，这些均减少了传力过程中的摩擦损失。因而 GM 系列液压马达具有很高的机械效率、高的启动扭矩 (启动时机械效率 92% 以上) 的特点。

2、平面配流器简单可靠，密封性好，泄漏很少。活塞与摆缸之间用塑料活塞密封无泄漏，因而有很高的容积效率 (可达98%) 。

3、由于结构上减少了摩擦损失，提高了密封性能，因而低速稳定性好，可以在 10r/min 工况下平稳运转，调速范围大 (速度调节比可达1000) 。

4、由于活塞与轴承套通过卡环贴牢不存在间隙，因而该系列液压马达可以作泵工况下运转，当进油口封闭后马达可在自由轮工况下高速动转。

5、该系列液压马达压力高，最高压力可达31.5MPa。重量轻、体积小、功率高。

6、由于结构简单，设计合理，采用符合能力大的轴承，因而工作可靠，寿命长、噪音低，传动轴允许承受径向力，旋转方向可逆。

产品适用范围

由于GM系列液压马达具有上述一系列特点，故广泛用于塑料机械，轻工机械、冶金机械、矿山机械、起重运输设备、重型机械、石油煤矿机械、船舶甲板机械、机床、塑料、地质钻探设备等各种机械的液压传动系统中。特别适用于提升绞盘、卷筒机械、各种回转机械驱动、履带和轮子行走机构的驱动等传动机械中。

Product overview

GM series hydraulic motor is a new type of product of our company, which is based on years practical experience. The design is improved in the foundation on the original technologies. GM hydraulic motor mainly has the following characteristics:

As the piston and the tilt cylinder have no side force ,the piston bottom is designed to be static pressure balance. The torsional force is transferring between the piston and the crankshaft through rolling bearing, so the friction loss during the transferring process of force is reduced. Therefore, GM series hydraulic motor has such features as: very high mechanical efficiency and comparatively high startup torque (mechanical efficiency of over 0.92 during startup).

The plane distributor (patented technology)is simple and reliable with perfect seal performance and almost no leakage. The plastic piston ring is used to seal between the piston and the tilt cylinder, so it has very high volumetric efficiency (can be as high as 0.98).

As the structure of this product has reduced friction loss and enhanced the seal performance, the product has perfect stability at low speed. It can stably run at 10r/min working condition and has big speed regulation range.

As the piston is jointed closely with bearing bushing without any clearance, this series of hydraulic motor can run at pump working condition.

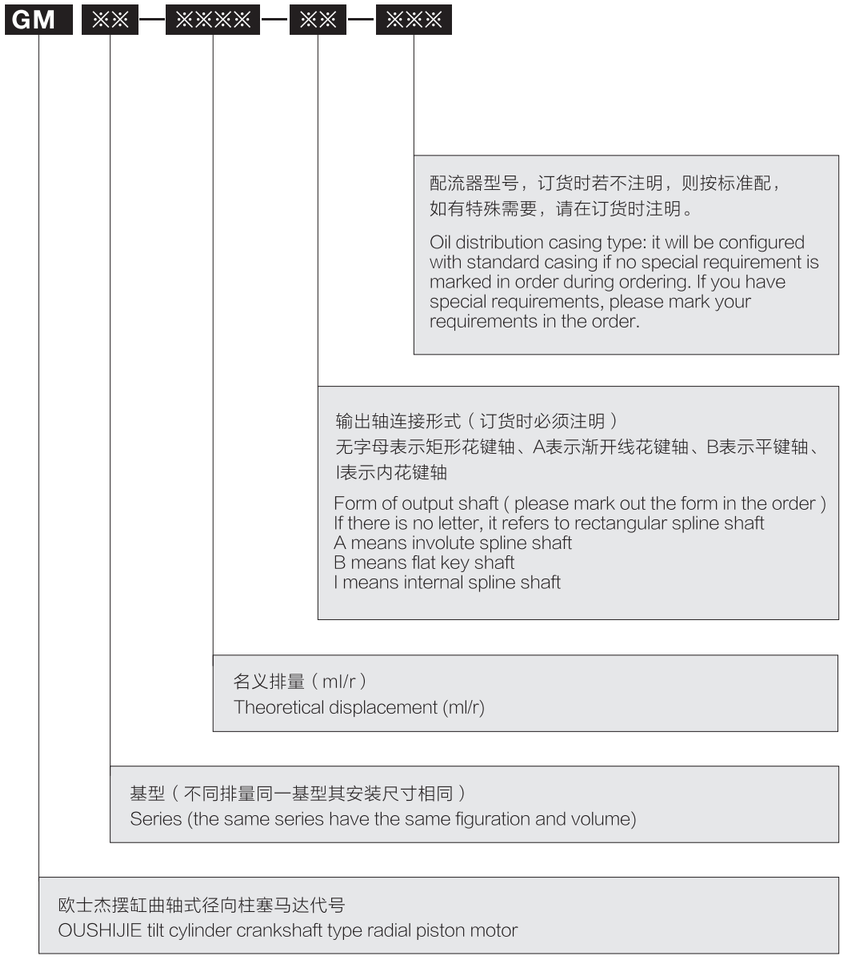
This series of hydraulic motor has high pressure, (the highest pressure can reach 31.5 Mpa) light weight, small bulk and high specific power.

As this series hydraulic motor has simple structure, reasonable design and adopts bearing with big load ability, it can work reliably and has long life and low noise; the transmission shaft allows endure radial load and the rotational direction is reversible.

Products application range

As GM series hydraulic motor has the above characteristics, it has wide application range. It can be applied in the hydraulic transmission systems of various types of machinery in plastic injection machine, light industry machine, engineering machine, metallurgical equipment, petroleum, coal mine, geological prospecting, railway, ship, environment protection, machine tool and agricultural machine industries.

型号说明 Description of model



型号举例 Example of model selection

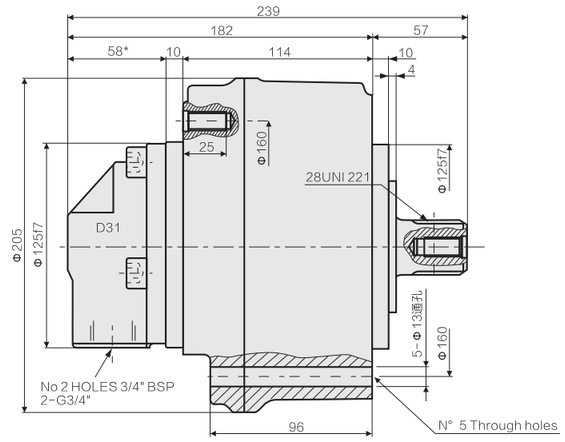
GM2-420BD31表示基型为2系列GM液压马达，其名义排量为 425ml/r；输出轴为平键轴，配流器型号为 D31。订货时请按此填写完整的型号，若有特殊要求请在订货合同中详细说明。

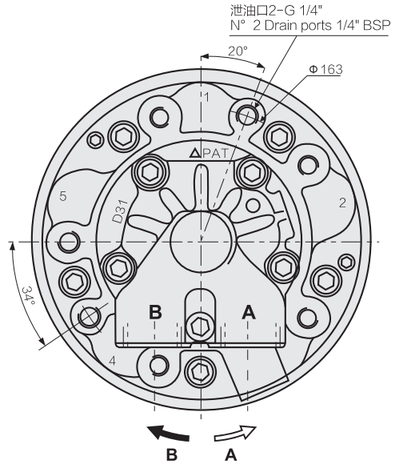
GM2-420BD31 means the basic type is 2 series GM hydraulic motor, and it's theoretical displacement is 425ml/r; output shaft 's type is flat key shaft, the distributor 's type is D31. When you place an order, please fill in the complete model according to this form. If you have special requirements please give a detailed description in the order contract.

技术参数 Technical data

型 号 Model	理论排量 Displacement (ml/r)	额定压力 Rated Pressure (Mpa)	尖峰压力 Peak Pressure (Mpa)	额定扭矩 Rated Torque (N.m)	单位扭矩 Theoric Specific Torque (N.m/Mpa)	连续转速 Speed range (r/min)	最高转速 Max.cont Speed (r/min)	重量 Weight (kg)
GM05-60	59	25	31.5	235	9.4	1~700	1000	22
GM05-75	74	25	31.5	295	11.8	1~700	1000	22
GM05-90	86	25	31.5	343	13.7	1~700	1000	22
GM05-110	115	25	31.5	458	18.3	1~650	900	22
GM05-130	129	25	31.5	513	20.5	1~650	900	22
GM05-150	151	25	31.5	600	24	1~650	900	22
GM05-170	166	25	31.5	660	26.4	1~600	800	22
GM05-200	191	25	28	760	30.4	1~600	800	22
GM1-100	99	25	31.5	385	15.4	1~550	1000	31
GM1-150	154	25	31.5	600	24	1~550	1000	31
GM1-175	172	25	31.5	670	26.8	1~550	900	31
GM1-200	201	25	31.5	785	31.4	1~550	800	31
GM1-250	243	25	31.5	950	38	1~450	700	31
GM1-300	290	25	31.5	1130	45.2	1~350	650	31
GM1-320	314	25	28	1225	49	1~350	600	31
GM1-350	340	25	28	1350	54	1~350	600	31
GM2-200	192	25	31.5	750	30	0.7~550	800	51
GM2-250	251	25	31.5	980	39.2	0.7~550	800	51
GM2-300	304	25	31.5	1188	47.5	0.7~500	750	51
GM2-350	347	25	31.5	1355	54.2	0.7~500	750	51
GM2-420	425	25	31.5	1658	66.3	0.7~450	750	51
GM2-500	493	25	31.5	1923	76.9	0.7~450	700	51
GM2-600	565	25	30	2208	88.3	0.7~450	700	51
GM2-630	623	25	28	2433	97.3	0.7~400	650	51
GM3-425	426	25	31.5	1660	66.4	0.5~500	650	87
GM3-500	486	25	31.5	1895	75.8	0.5~450	600	87
GM3-600	595	25	31.5	2320	92.8	0.5~450	575	87
GM3-700	690	25	31.5	2700	108	0.5~400	500	87
GM3-800	792	25	31.5	3100	124	0.5~400	500	87
GM3-900	873	25	31.5	3400	136	0.5~350	400	87
GM3-1000	987	25	28	3850	154	0.5~300	350	87
GM4-600	616	25	31.5	2403	96.1	0.4~400	550	120
GM4-800	793	25	31.5	3100	124	0.4~350	550	120
GM4-900	904	25	31.5	3525	141	0.4~325	450	120
GM4-1000	1022	25	31.5	4000	160	0.4~300	400	120
GM4-1100	1116	25	31.5	4350	174	0.4~275	400	120
GM4-1300	1316	25	28	5125	205	0.4~225	350	120
GM5-800	807	25	31.5	3150	126	0.3~325	450	175
GM5-1000	1039	25	31.5	4050	162	0.3~300	450	175
GM5-1200	1185	25	31.5	4625	185	0.3~300	400	175
GM5-1300	1340	25	31.5	5225	209	0.3~300	400	175
GM5-1450	1462	25	31.5	5700	228	0.3~275	350	175
GM5-1600	1634	25	31.5	6350	254	0.3~250	300	175
GM5-1800	1816	25	31.5	7075	283	0.3~250	300	175
GM5-2000	2007	25	31.5	7825	313	0.3~200	250	175
GM6-1700	1690	25	31.5	6600	264	0.2~250	400	275
GM6-2100	2127	25	31.5	8300	332	0.2~225	350	275
GM6-2500	2513	25	31.5	9800	392	0.2~200	300	275
GM6-3000	3041	25	31.5	11875	475	0.2~175	250	275

外形尺寸图 Contour dimension



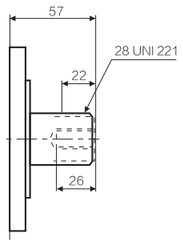


配油器长度 D31=58mm; D40(标准)=77mm
Distributor lenght：D31=58mm; D40(standard)=77mm

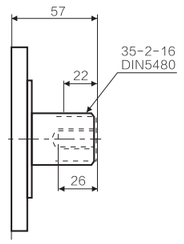
GM05液压马达可完全替代GM05, INM05, XHS05
GM05 can completely replace GM05, INM05,and XHS05.

轴伸型式 Shaft extension type

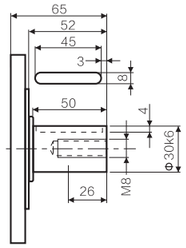
矩形外花键
Rectangular spline



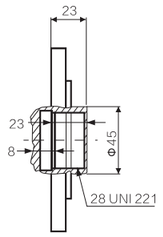
渐开线外花键 A
Involute spline A



圆柱平键 B
Cylindrical flat key B

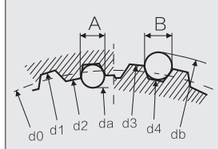


内花键 I
Internal spline I



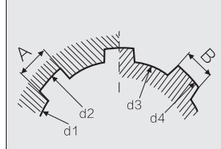
花键参数 Spline parameters

35-2-16 DIN5480



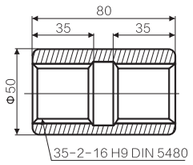
d0	Φ32.0	
d1	$\Phi 35.0^{+0.520}_{+0}$	H14
d2	$\Phi 31.0^{+0.160}_{+0}$	H11
A	Φ3.5	
da	Φ27.711	H11
d3	$\Phi 34.6^{-0}_{-0.160}$	h11
d4	$\Phi 30.6^{-0}_{-0.520}$	h14
B	Φ4.0	
db	Φ39.000	f8

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d1	$\Phi 28.0^{+0.021}_{+0}$	H7
d2	$\Phi 34.1^{+0.016}_{+0}$	H11
A	$7.0^{+0.028}_{+0.013}$	F7
d3	$\Phi 28.0^{-0.007}_{-0.020}$	g6
d4	$\Phi 34.0^{-0.065}_{-0.160}$	h14
B	$7.0^{-0.013}_{-0.026}$	f7

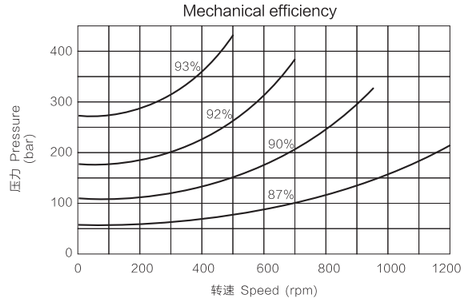
联轴器 Couplings



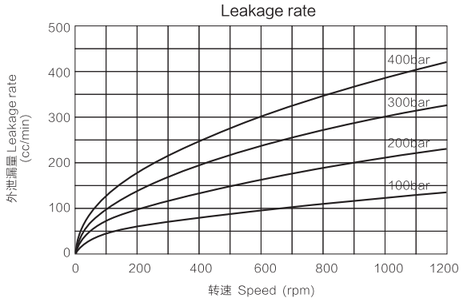
特性曲线 Performance

下列表为排量150cc的马达，在工作液采用矿物油，粘度40cSt，油温50℃工作时的典型特性曲线。
The graphs indicate the typical performance characteristics of the 150 cc motor operating with mineral oil with viscosity 40 cSt at 50 ℃

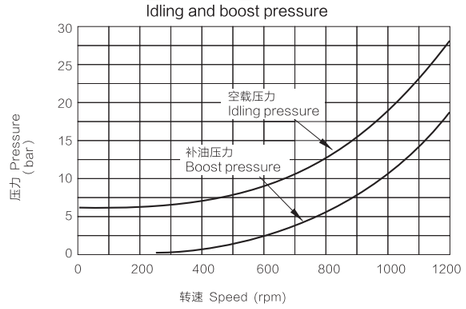
机械效率
Mechanical efficiency



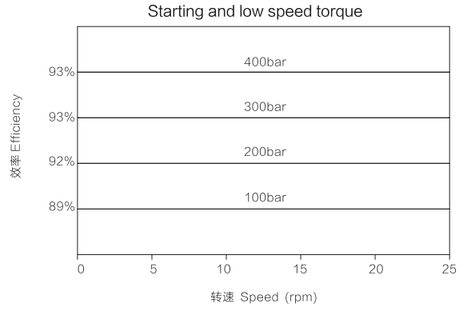
外泄漏
Leakage rate



空载和补油压力
Idling and boost pressure



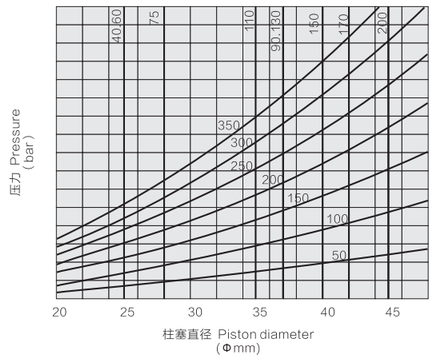
起动和低速时机械效率
Starting and low speed torque



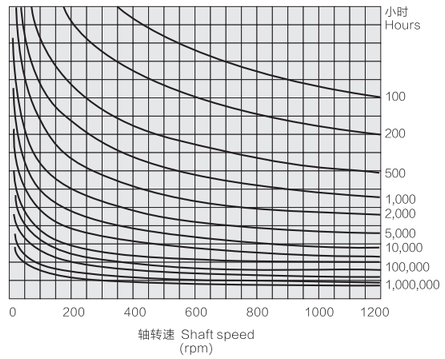
轴承寿命 Bearing lifetime

该图表示用配置滚柱轴承（代号H）的马达。注意轴承平均寿命（B50寿命）大约是B10寿命的5倍。
The graph refers to the motor with the standard bearings. Note that the average lifetime of a bearing (B50 lifetime) is approximately 5 times longer than B10's.

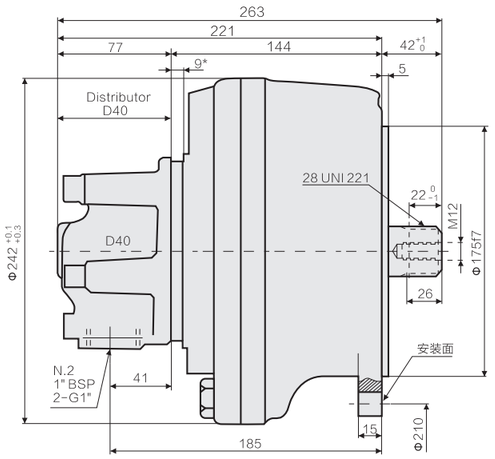
马达排量
Motor displacement

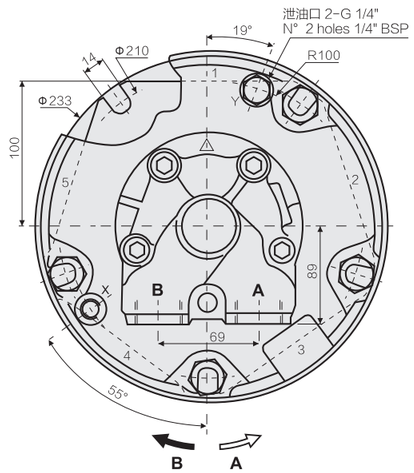


B10 寿命
B10 Lifetime



外形尺寸图 Contour dimension

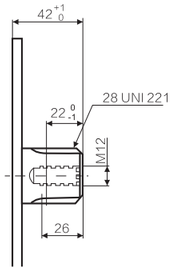




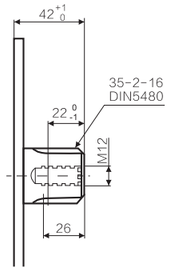
GM1液压马达可完全替代GM1, INM1, XHS1
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轴伸型式 Shaft extension type

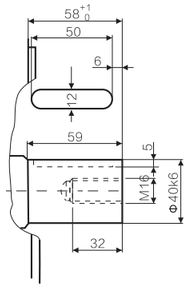
矩形外花键
Rectangular spline



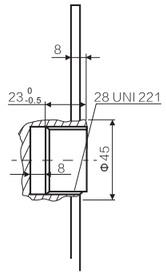
渐开线外花键 A
Involute spline A



圆柱平键 B
Cylindrical flat key B

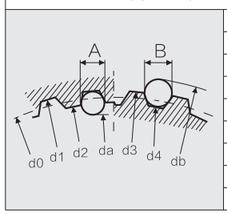


内花键 I
Internal spline I



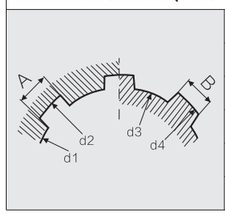
花键参数 Spline parameters

35-2-16 DIN5480



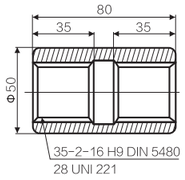
d0	Φ32.0	
d1	Φ35.0 +0.520 +0	H14
d2	Φ31.0 +0.160 +0	H11
A	Φ3.5	
da	Φ27.711	H11
d3	Φ34.6 -0 -0.160	h11
d4	Φ30.6 -0 -0.520	h14
B	Φ4.0	
db	Φ39.000	f8

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d1	Φ28.0 +0.021 +0	H7
d2	Φ34.1 +0.016 +0	H11
A	7.0 +0.028	F7
d3	Φ28.0 -0.007 -0.020	g6
d4	Φ34.0 -0.065 -0.160	h14
B	7.0 -0.028	f7

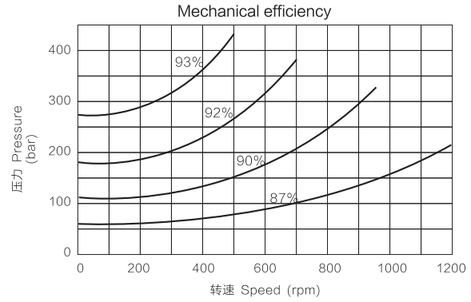
联轴器 Couplings



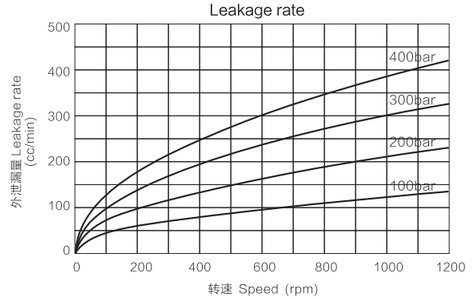
特性曲线 Performance

下列表为排量150cc的马达，在工作液采用矿物油，粘度40cSt，油温50℃工作时的典型特性曲线。
The graphs indicate the typical performance characteristics of the 150 cc motor operating with mineral oil with viscosity 40 cSt at 50 ℃

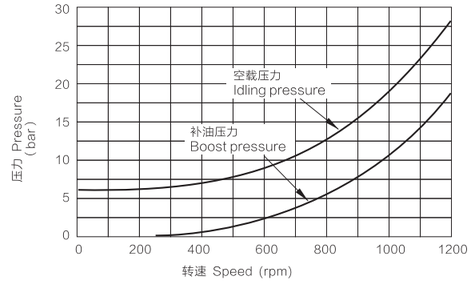
机械效率
Mechanical efficiency



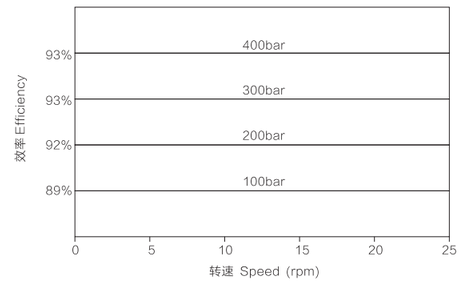
外泄漏
Leakage rate



空载和补油压力
Idling and boost pressure



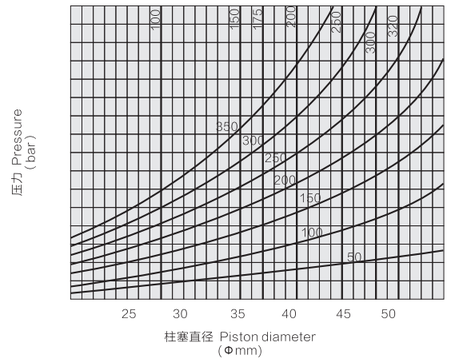
起动和低速时机械效率
Starting and low speed torque



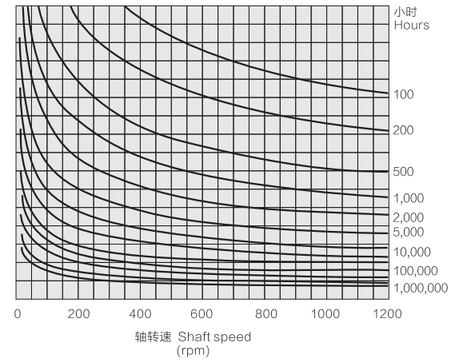
轴承寿命 Bearing lifetime

该图表示用配置滚柱轴承（代号H）的马达。注意轴承平均寿命（B50寿命）大约是B10寿命的5倍。
The graph refers to the motor with the standard bearings. Note that the average lifetime of a bearing (B50 lifetime) is approximately 5 times longer than B10's.

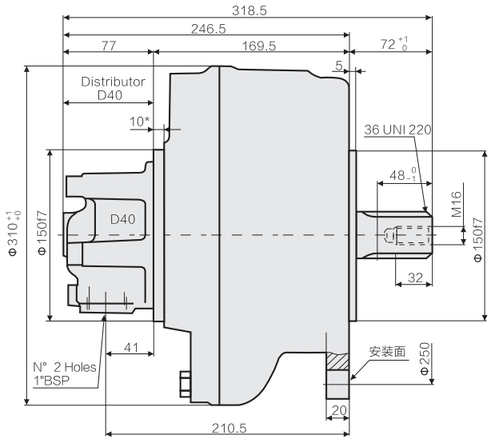
马达排量
Motor displacement

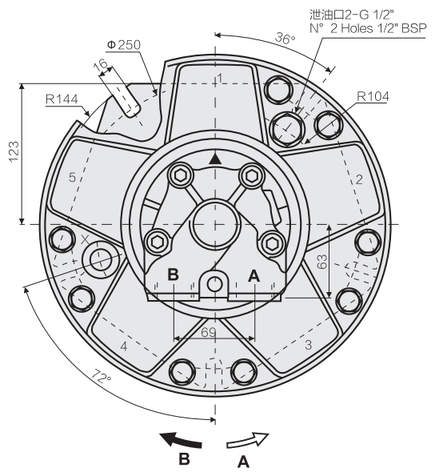


B10 寿命
B10 Lifetime



外形尺寸图 Contour dimension

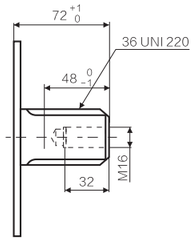




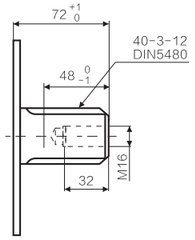
GM2液压马达可完全替代GM2, INM2, XHS2
GM2 can completely replace GM2, INM2,and XHS2.

轴伸型式 Shaft extension type

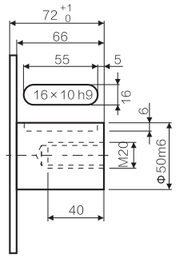
矩形外花键
Rectangular spline



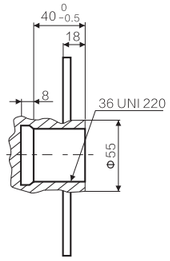
渐开线外花键 A
Involute spline A



圆柱平键 B
Cylindrical flat key B

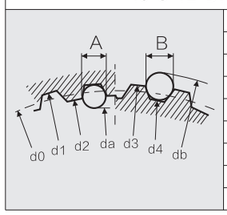


内花键 I
Internal spline I



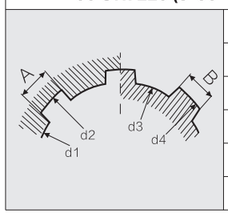
花键参数 Spline parameters

40-3-12 DIN5480



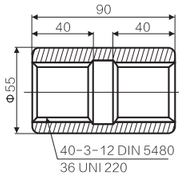
d0	Φ36.0	
d1	Φ40.0 +0.620 +0	H14
d2	Φ34.0 +0.160 +0	H11
A	Φ5.25	
da	Φ28.964	H11
d3	Φ39.4 -0 -0.160	h11
d4	Φ33.4 -0 -0.620	h14
B	Φ6.0	
db	Φ45.989	f8

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d1	Φ36.0 +0.025 +0	H7
d2	Φ40.0 +0.016 +0	H11
A	7.0 +0.028	F7
d3	Φ36.0 -0.009 -0.025	g6
d4	Φ40.0 -0.065 -0.160	d11
B	7.0 -0.028	f7

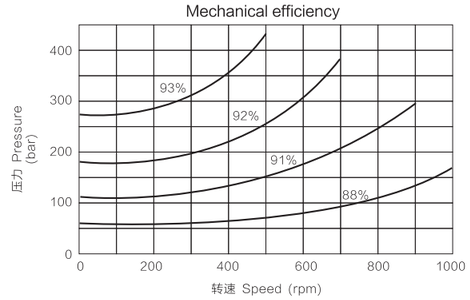
联轴器 Couplings



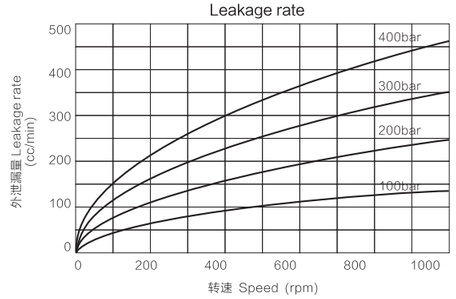
特性曲线 Performance

下列表为排量300cc的马达，在工作液采用矿物油，粘度40cSt，油温50℃工作时的典型特性曲线。
The graphs indicate the typical performance characteristics of the 300 cc motor operating with mineral oil with viscosity 40 cSt at 50 ℃

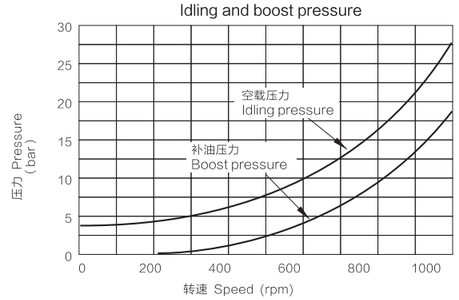
机械效率
Mechanical efficiency



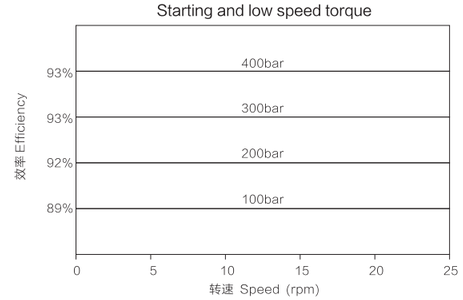
外泄漏
Leakage rate



空载和补油压力
Idling and boost pressure



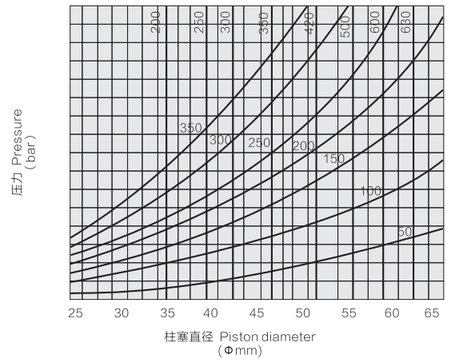
起动和低速时机械效率
Starting and low speed torque



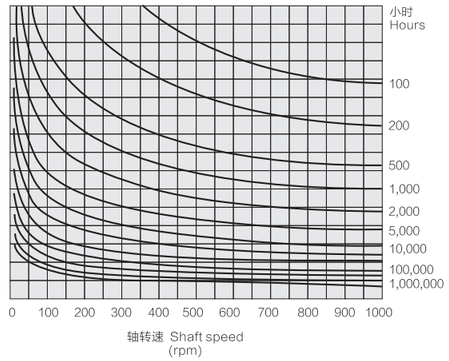
轴承寿命 Bearing lifetime

该图表示用配置滚柱轴承（代号H）的马达。注意轴承平均寿命（B50寿命）大约是B10寿命的5倍。
The graph refers to the motor with the standard bearings. Note that the average lifetime of a bearing (B50 lifetime) is approximately 5 times longer than B10's.

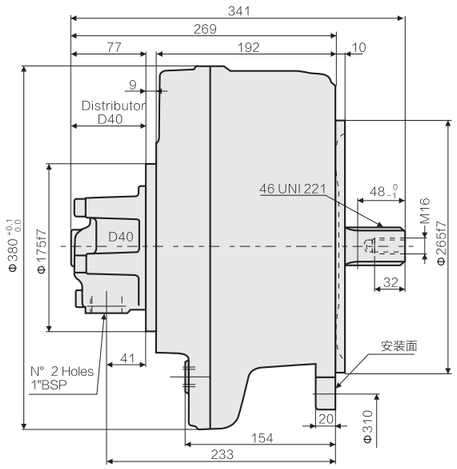
马达排量
Motor displacement

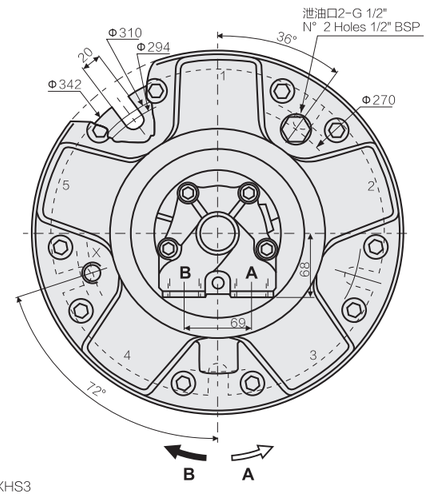


B10 寿命
B10 Lifetime



外形尺寸图 Contour dimension

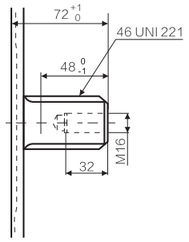




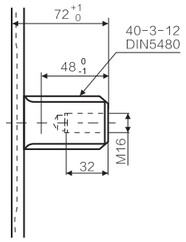
GM3液压马达可完全替代GM3, INM3, XHS3
GM3 can completely replace GM3, INM3,and XHS3.

轴伸型式 Shaft extension type

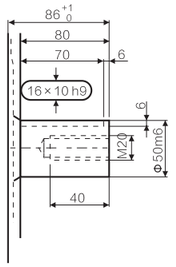
矩形外花键
Rectangular spline



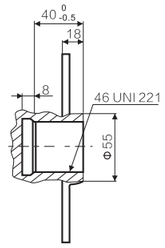
渐开线外花键 A
Involute spline A



圆柱平键 B
Cylindrical flat key B

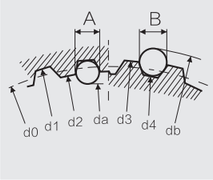


内花键 I
Internal spline I



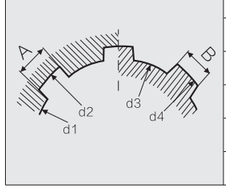
花键参数 Spline parameters

40-3-12 DIN5480



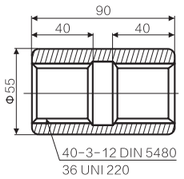
d0	Φ36.0	
d1	Φ40.0 +0.620 +0	H14
d2	Φ34.0 +0.160 +0	H11
A	Φ5.25	
da	Φ28.964	H11
d3	Φ39.4 -0 -0.160	h11
d4	Φ33.4 -0 -0.620	h14
B	Φ6.0	
db	Φ45.989	f8

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d1	Φ46.0 +0.030 +0	H7
d2	Φ54.0 +0.190 +0	H11
A	9.0 +0.028	F7
d3	Φ46.0 -0.009 -0.025	g6
d4	Φ54.0 -0.100 -0.290	d11
B	9.0 -0.028	f7

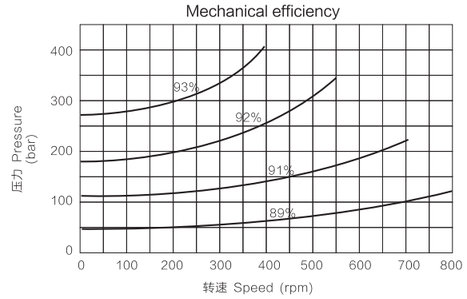
联轴器 Couplings



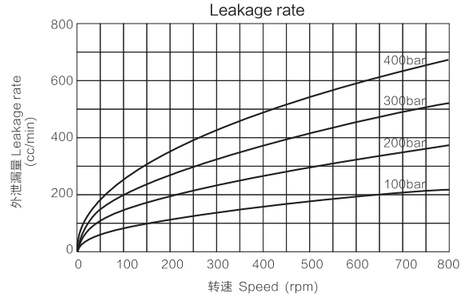
特性曲线 Performance

下列表为排量600cc的马达，在工作液采用矿物油，粘度40cSt，油温50℃工作时的典型特性曲线。
The graphs indicate the typical performance characteristics of the 600 cc motor operating with mineral oil with viscosity 40 cSt at 50 ℃

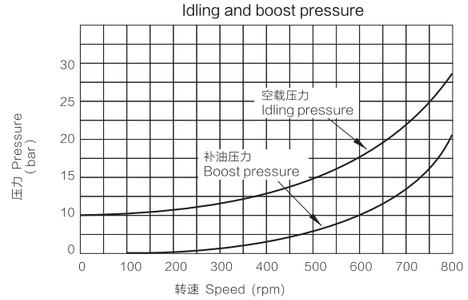
机械效率
Mechanical efficiency



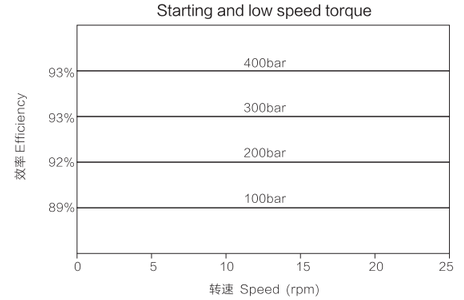
外泄漏
Leakage rate



空载和补油压力
Idling and boost pressure



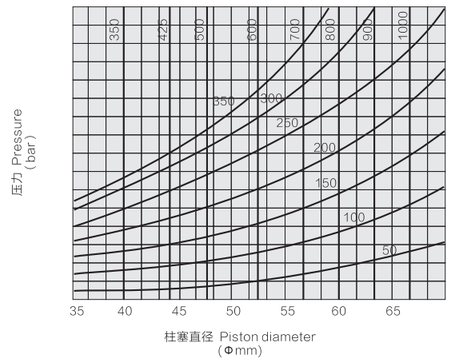
起动和低速时机械效率
Starting and low speed torque



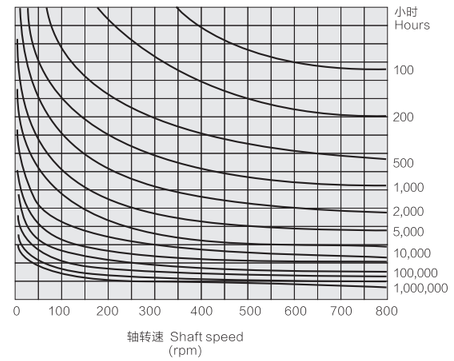
轴承寿命 Bearing lifetime

该图表示用配置滚柱轴承（代号H）的马达。注意轴承平均寿命（B50寿命）大约是B10寿命的5倍。
The graph refers to the motor with the standard bearings. Note that the average lifetime of a bearing (B50 lifetime) is approximately 5 times longer than B10's.

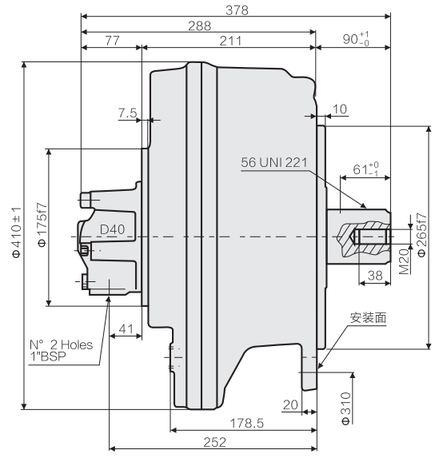
马达排量
Motor displacement

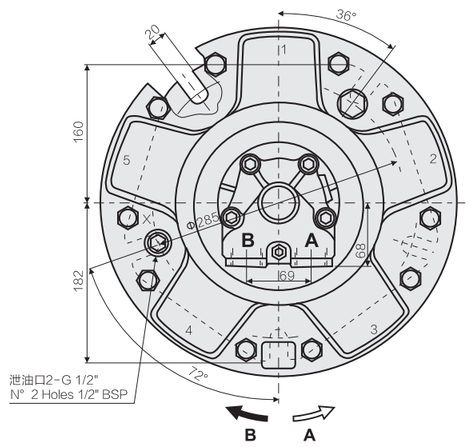


B10 寿命
B10 Lifetime



外形尺寸图 Contour dimension

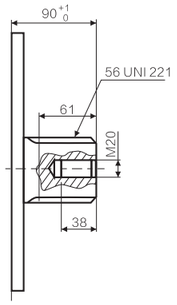




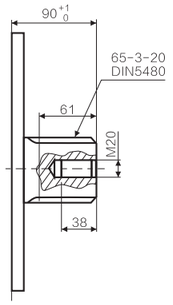
GM4液压马达可完全替代GM4, INM4, XHS4
GM4 can completely replace GM4, INM4,and XHS4.

轴伸型式 Shaft extension type

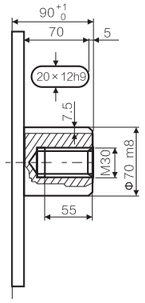
矩形外花键
Rectangular spline



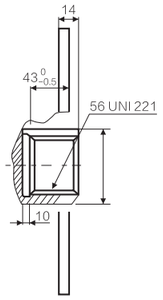
渐开线外花键 A
Involute spline A



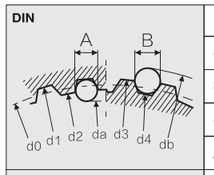
圆柱平键 B
Cylindrical flat key B



内花键 I
Internal spline I

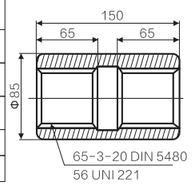


花键参数 Spline parameters



	65-3-20 DIN5480		55-2-26 DIN5482		55-3-17 DIN5480		56 UNI 221(8-56-65 DIN 5428)		
d0	Φ60.0		Φ52.0		Φ51.0		**d1**	Φ56.0 $^{+0.030}_{+0}$	H7
d1	Φ65.0 $^{+0.740}_{+0}$	H14	Φ55.0 $^{+0.300}_{+0}$	H12	Φ55.0 $^{+0.740}_{+0}$	H14	**d2**	Φ65.0 $^{+0.190}_{+0}$	H11
d2	Φ59.0 $^{+0.190}_{+0}$	H11	Φ50.0 $^{+0.160}_{+0}$	H11	Φ49.0 $^{+0.160}_{+0}$	H11	**A**	10.0 $^{+0.028}_{+0.013}$	F7
A	Φ5.25		Φ3.5		Φ5.25		**d3**	Φ56 $^{-0.010}_{-0.029}$	g6
da	Φ54.101	H11	Φ46.902	H10	Φ43.807	H11	**d4**	Φ65.0 $^{-0.100}_{-0.190}$	H11
d3	Φ64.4 $^{-0}_{-0.190}$	h11	Φ54.5 $^{-0}_{-0.190}$	h11	Φ54.4 $^{-0}_{-0.190}$	h11	**B**	10 $^{-0.028}_{-0.013}$	f7
d4	Φ58.4 $^{-0}_{-0.740}$	h14	Φ49.0 $^{-0}_{-0.300}$	h12	Φ48.4 $^{-0}_{-0.620}$	h14			
B	Φ6.0		Φ3.5		Φ6.0				
db	Φ70.999	f8	Φ56.953	e9	Φ60.873	f8			

联轴器 Couplings

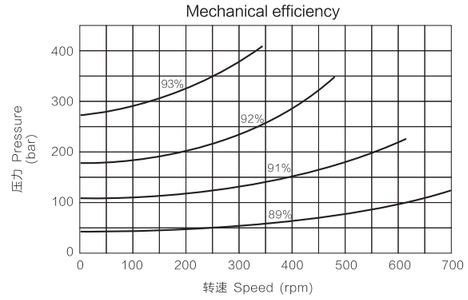


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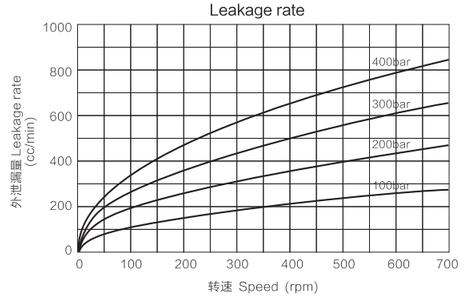
特性曲线 Performance

下列表为排量900cc的马达，在工作液采用矿物油，粘度40cSt，油温50℃工作时的典型特性曲线。
The graphs indicate the typical performance characteristics of the 900 cc motor operating with mineral oil with viscosity 40 cSt at 50 ℃

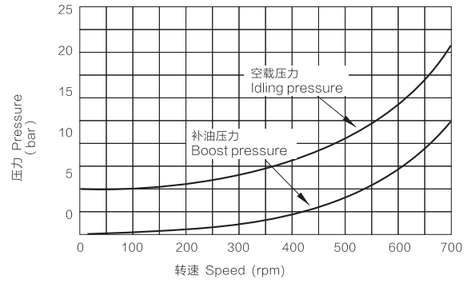
机械效率
Mechanical efficiency



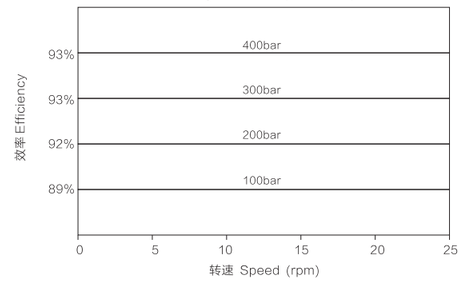
外泄漏
Leakage rate



空载和补油压力
Idling and boost pressure



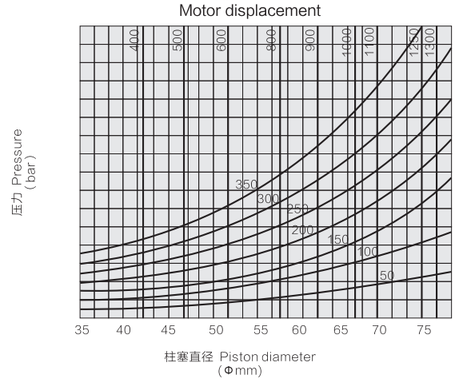
起动和低速时机械效率
Starting and low speed torque



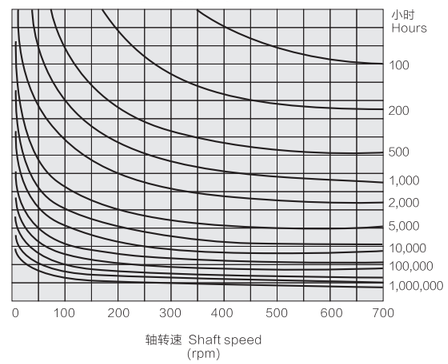
轴承寿命 Bearing lifetime

该图表示用配置滚柱轴承（代号H）的马达。注意轴承平均寿命（B50寿命）大约是B10寿命的5倍。
The graph refers to the motor with the standard bearings. Note that the average lifetime of a bearing (B50 lifetime) is approximately 5 times longer than B10's.

马达排量
Motor displacement

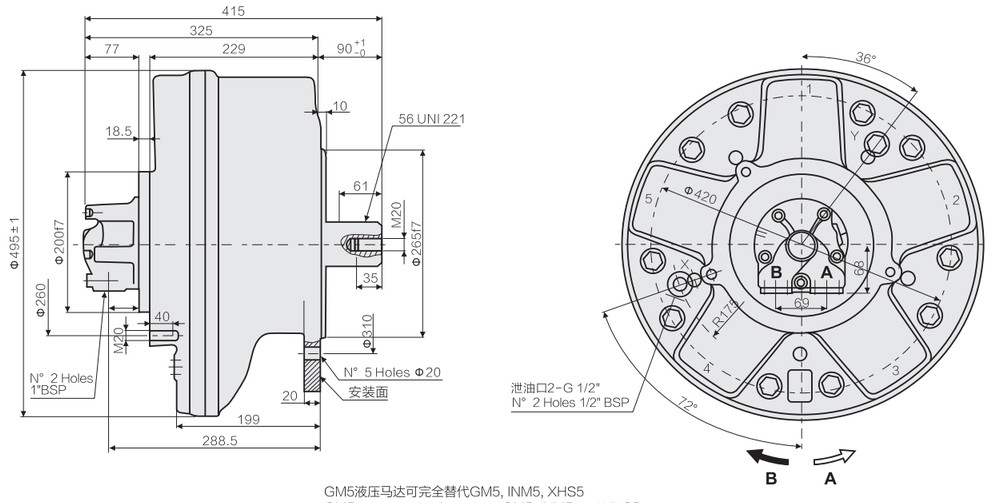


B10 寿命
B10 Lifetime



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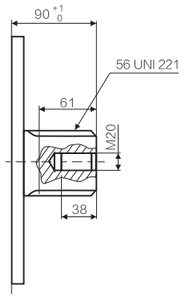
外形尺寸图 Contour dimension



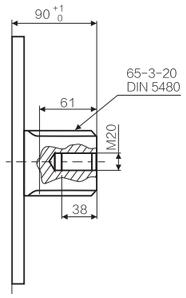
GM5液压马达可完全替代GM5, INM5, XHS5
GM5 can completely replace GM5, INM5,and XHS5.

轴伸型式 Shaft extension type

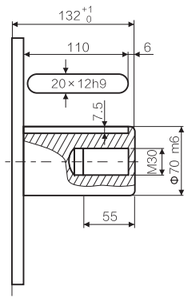
矩形外花键
Rectangular spline



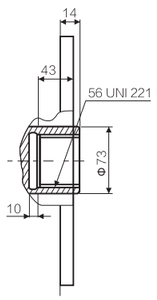
渐开线外花键 A
Involute spline A



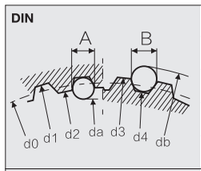
圆柱平键 B
Cylindrical flat key B



内花键 I
Internal spline I

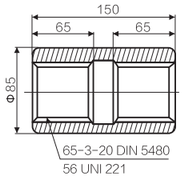


花键参数 Spline parameters



	65-3-20 DIN5480	55-2-26 DIN5482	55-3-17 DIN5480	56 UNI 221(10-56-65 DIN 5428)	
d0	Φ60.0	Φ52.0	Φ51.0	d1	Φ56.0 +0.030 +0 H7
d1	Φ65.0 +0.740 +0 H14	Φ55.0 +0.300 +0 H12	Φ55.0 +0.740 +0 H14	d2	Φ65.0 +0.190 +0 H11
d2	Φ59.0 +0.190 +0 H11	Φ50.0 +0.160 +0 H11	Φ49.0 +0.160 +0 H11	A	10.0 +0.028 +0.013 F7
A	Φ5.25	Φ3.5	Φ5.25	d3	Φ56 -0.010 -0.029 g6
da	Φ54.101 H11	Φ46.902 H10	Φ43.807 H11	d4	Φ65.0 -0.100 -0.190 H11
d3	Φ64.4 -0 -0.190 h11	Φ54.5 -0 -0.190 h11	Φ54.4 -0 -0.190 h11	B	10 -0.013 -0.028 f7
d4	Φ58.4 -0 -0.740 h14	Φ49.0 -0 -0.300 h12	Φ48.4 -0 -0.620 h14		
B	Φ6.0	Φ3.5	Φ6.0		
db	Φ70.999 f8	Φ56.953 e8	Φ60.873 f8		

联轴器 Couplings

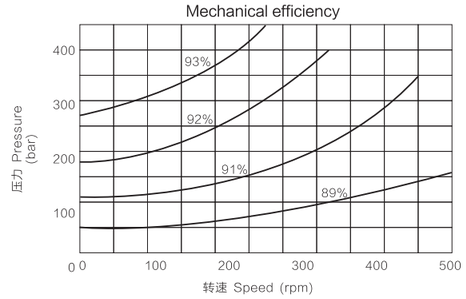


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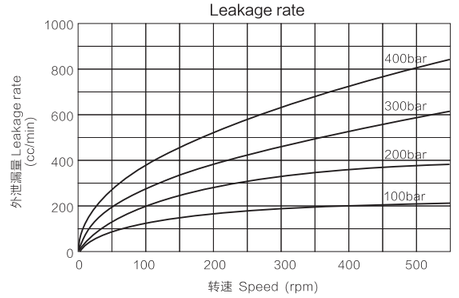
特性曲线 Performance

下列表为排量1200cc的马达，在工作液采用矿物油，粘度40cSt，油温50℃工作时的典型特性曲线。
The graphs indicate the typical performance characteristics of the 1200 cc motor operating with mineral oil with viscosity 40 cSt at 50 ℃

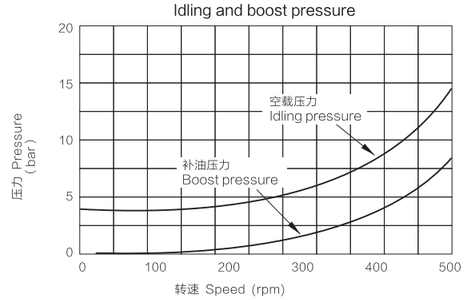
机械效率
Mechanical efficiency



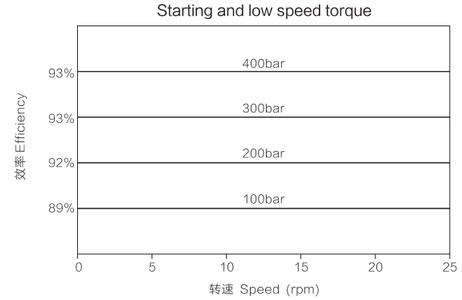
外泄漏
Leakage rate



空载和补油压力
Idling and boost pressure



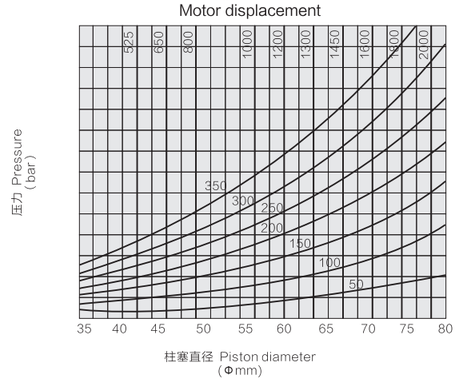
起动和低速时机械效率
Starting and low speed torque



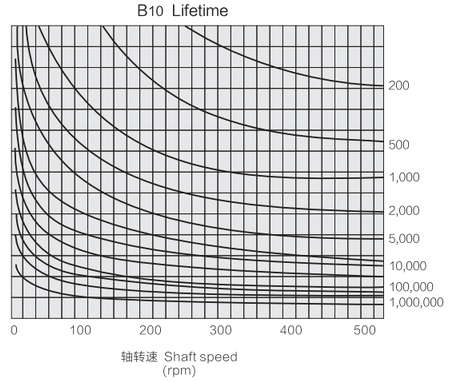
轴承寿命 Bearing lifetime

该图表示用配置滚柱轴承（代号H）的马达。注意轴承平均寿命（B50寿命）大约是B10寿命的5倍。
The graph refers to the motor with the standard bearings. Note that the average lifetime of a bearing (B50 lifetime) is approximately 5 times longer than B10's.

马达排量
Motor displacement

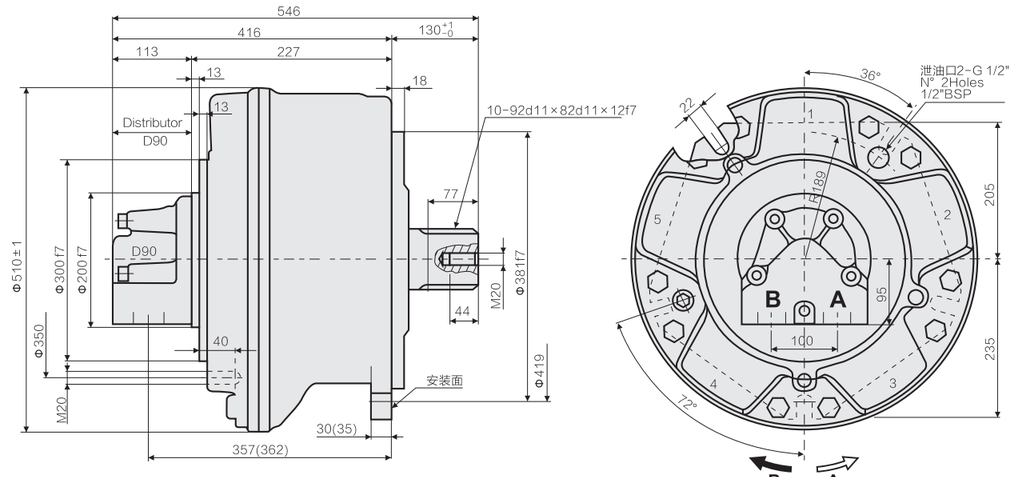


B10 寿命
B10 Lifetime



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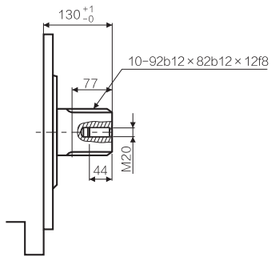
外形尺寸图 Contour dimension



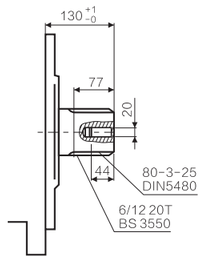
GM6液压马达可完全替代GM6, INM6, XHS6
GM6 can completely replace GM6, INM6,and XHS6.

轴伸型式 Shaft extension type

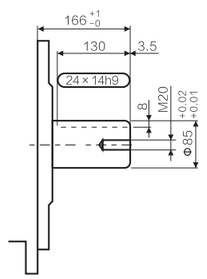
矩形外花键
Rectangular spline



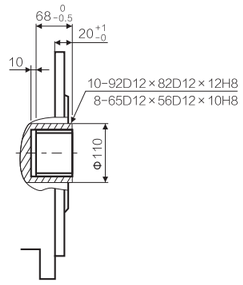
渐开线外花键 A
Involute spline A



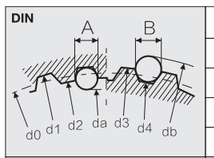
圆柱平键 B
Cylindrical flat key B

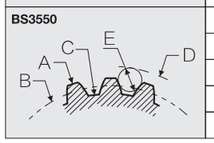


内花键 I
Internal spline I



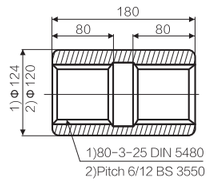
花键参数 Spline parameters





	80-3-25 DIN5480			Pitch 6/12 BS3550
d0	Φ75.0		A	Φ88.0
d1	Φ80.0 +0.870 +0	H14	B	Φ84.6 -0.047 -0.17
d2	Φ74.0 +0.190 +0	H11	C	Φ80.0 -0.480 -0.070
A	Φ5.25		D	Φ97.0 +0.082 +0.030
da	Φ68.9	H9	E	Φ8.12
d3	Φ79.4 -0 -0.190	h11		
d4	Φ73.4 -0 -0.870	h14		
B	Φ6.0			
db	Φ85.9	f8		

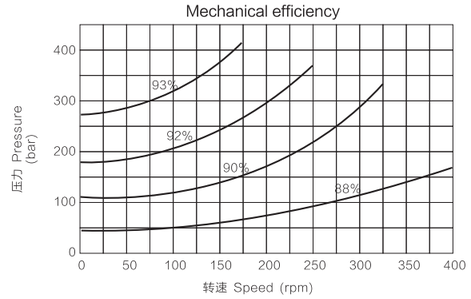
联轴器 Couplings



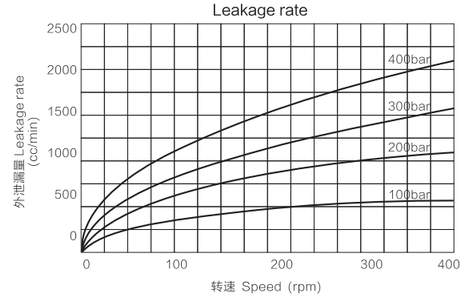
特性曲线 Performance

下列表为排量2500cc的马达，在工作液采用矿物油，粘度40cSt，油温50℃工作时的典型特性曲线。
The graphs indicate the typical performance characteristics of the 2500 cc motor operating with mineral oil with viscosity 40 cSt at 50 ℃

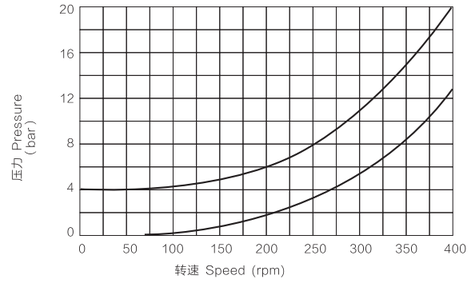
机械效率
Mechanical efficiency



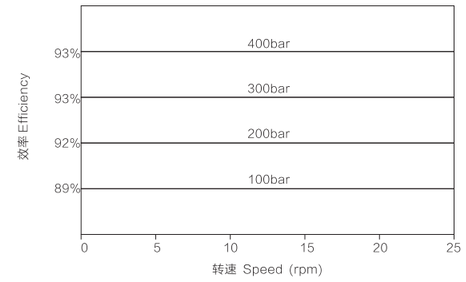
外泄漏
Leakage rate



空载和补油压力
Idling and boost pressure



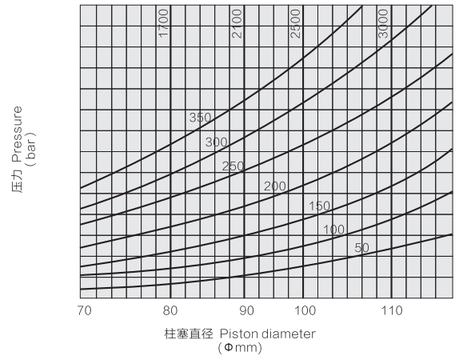
起动和低速时机械效率
Starting and low speed torque



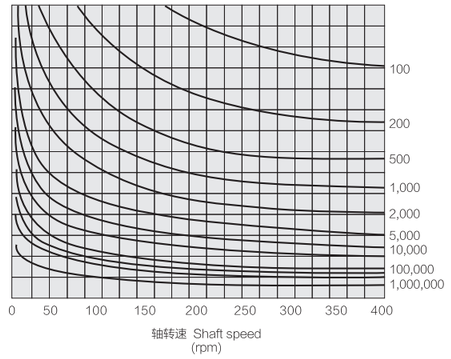
轴承寿命 Bearing lifetime

该图表示用配置滚柱轴承（代号H）的马达。注意轴承平均寿命（B50寿命）大约是B10寿命的5倍。
The graph refers to the motor with the standard bearings. Note that the average lifetime of a bearing (B50 lifetime) is approximately 5 times longer than B10's.

马达排量
Motor displacement



B10 寿命
B10 Lifetime



产品概述

我公司生产的液压马达主要零件由加工中心和数控机床加工，所有密封、高强度内六角螺钉由德国、意大利、台湾进口，外表铸件采用精密铸造球墨铸铁，从而保证产品性能和外观质量超过国内外同类产品水平。它具有以下特点：

1、采用偏心轴及较低激振频率的五柱塞结构，因而具有低噪音的特点。
2、启动扭矩大，低速稳定性好，能在很低速度下平稳运转。
3、采用先进的可补偿式端面配流结构，可靠性好，泄漏少，柱塞与缸体间采用新型密封环密封，具有很高的容积效率。
4、曲轴与连杆间由滚柱支承，因而具有很高的机械效率。
5、旋转方向可逆，输出轴允许承受一定的径向和轴向力。
6、具有较高的功率质量比，体积重量相对较小。

产品适用范围

由于 NHM 系列低速大扭矩液压马达具有可靠性好、效率高、寿命长、噪音低、转速范围宽等一系列特点，因而适用范围广，可广泛应用于矿山建筑工程机械、起重运输设备、重型冶金机械、石油煤矿机械、船舶甲板机械、机床、轻工、塑料机械、地质钻探设备等各种机械的液压传动系统中，特别适用于注塑机的螺杆驱动、提升绞盘、卷筒的驱动、各种回转机构的驱动、履带和轮子行走机构的驱动等传动机械中。

注意事项

1、过滤：正常的工业用过滤精度推荐为25微米，对低压、低速或间隙工况时可以允许精度为75微米。
2、粘度：最佳性能应在良好的粘度条件下才能获得，因此马达在大多数工况下，粘度应在 15—1000厘范围内，该范围保证满意地工作。
3、泄漏：泄油口应单独地与油箱接通，一般下壳体允许最大压力为0.1Mpa。若压力过高，易使油封损坏，引起外泄。
4、液压马达可以任意位置安装，安装马达的支架必须有足够的刚性，安装时应保证液压马达所联接的转动主轴与液压马达的输出轴同轴线。
5、泄油管的最高水平位置应高于马达壳体的最高水平位置，以防马达壳体内的油液排空。
6、首次启动前，必须向液体马达壳体内注满液压油，以防损坏。
7、严格保证联接油口的清洁度，不允许任何固体异物进入。
8、减少液压马达出轴所受径向负荷，可以使液压马达寿命延长。

Product overview

Our company's hydraulic motor's main parts and components are machined by machining center and CNC machine tools. All the seal parts and high strength interior hexagonal bolts are imported from Germany, Italia and Taiwan. The casting is made of polyester sand nodular cast iron to ensure the performance and appearance quality of the products to overpass the similar products in China and overseas market. The product has the following features:

1. As the product adopts eccentric crankshaft and five-piston structure with comparatively low frequency, it has low noise characteristic;
2. It has big startup torque, perfect stability at low speed, so it can stably operate at very low speed;
3. The plane compensation port plate has perfect reliability and almost no leakage. The piston bushing is sealed by seal ring, so it has comparatively high volume efficiency;
4. The bent axle and the connecting rod are supported by roller, so it has very high mechanical efficiency;
5. The rotational direction is reversible, the output shaft allows endure certain radial and axial force;
6. It has comparatively high power mass ratio. The volume and weight relatively small.

Scope of application

As NHM series low speed high torque hydraulic motor has such characteristics as: perfect reliability, high efficiency, long life, low noise and wide rotation speed range, it has wide application range. It can be widely applied in the hydraulic and transmission systems of construction engineering machinery, lifting and transportation equipment, heavy type metallurgical machinery, petroleum and coal mining machinery, ship's deck machinery, machine tools, light industry and plastic machinery, geological prospecting equipments. This product is especially applicable for the transmission devices of screw drive of plastic in jection machine, hoisting winch, all sorts of rotational mechanism and the track and wheel travel machine.

Notes:

1. Filtration: the recommended filtration precision for normal industrial use is 25μm, and in the working condition of low pressure, low speed or interval, the allowable precision is 75μm.
2. Oil viscosity: the optimum performance could only be obtained under proper oil viscosity between 15-1000 cst.
3. Leakage: drain port should be connected separately to the tank. Normally the maximum pressure for the motor body is 0.1Mpa. If the pressure is too high, it is easy to make the oil seal damage and cause to leak.
4. Hydraulic motor can be installed in any position with rigid support, when installed, shafts of the motor and its transmission should be concentric.
5. The top line of the drain pipe should be higher than that of the motor body, in case emptying oil storage.
6. Before the first start-up, it must fill hydraulic oil in the hydraulic motor body, to avoid the damage.
7. Strictly maintain the cleanness of the oil port, and keep away any solid particles away.
8. Release both the radial and axial loads of the output shaft to enable longer life of the motor.

型号说明 Description of model

NHM ____ ____ ____ ____

通油盘种类，订货时若不注明，则按标准配置（见各系列马达安装联接尺寸图）如有特殊需要请参见32-37页，并在订货时注明。

Oil distribution casing type: it will be configured with standard casing if there is no special requirement marked in the ordering. If you have special requirements, please mark your requirements in the order.

输出轴类形

1、无字母表示标准矩形花键轴（以外径定心）
2、B表示平键轴：注脚数字表示同BM型摆线液压马达或其他品牌对应型号安装尺寸相同（带过渡法兰板）。
3、D安装联接尺寸与昆山液压件厂1JMD型同排量液压马达相同。
4、I 表示内花键轴（以内径定心）：注脚数字表示与QJM系列安装尺寸相同（带过渡法兰板）。
5、QM, SL表示安装尺寸与意大利SAI公司生产的M系列、L系列、GM系列液压马达相同，注脚数字表示不同种类安装尺寸。

Form of output shaft

1. no letter---- standard rectangular spline shaft (the center is up to exterior diameter).
2. B----Flat key shaft: Footnote number ----the installation dimension is the same as BM motors series model (with flange).
3. D----installation dimension is the same as 1JMD series motors of the same displacement (KunShan HYD element plant).
4. I----internal spline shaft(the center is up to interior diameter). Footnote number----the installation dimension is the same as QJM series motors(with flange).
5. QM,SL indicates the installation dimension is the same as M series, L series, GM series of ITALY SAI company. Footnote number----different kinds of installation dimension.

名义排量（ml/r）
Theoretical displacement(ml/r)

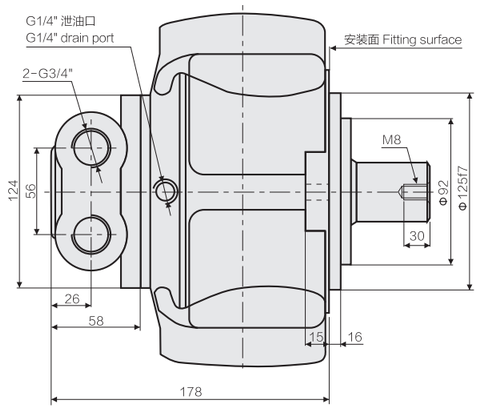
系列（同一系列，其外型尺寸、体积大小相同）
Series (the same series have the same figuration and volume)

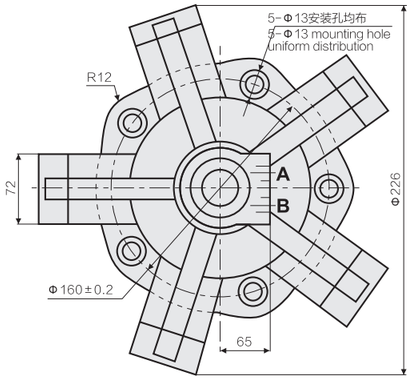
欧士杰低速大扭矩液压马达
OUSHIJIE low speed high torque hydraulic motor

技术参数 Technical data

型 号 Model	理论排量 Displacement (ml/r)	转速范围 Speed Range (r/min)	额定压力 Rated Pressure (Mpa)	尖峰压力 Peak Pressure (Mpa)	额定扭矩 Rated Torque (N.m)	单位扭矩 Theoric Specific Torque (N.m/Mpa)	重量 Weight (kg)
NHM1-63	77	15-1500	25	32	284	11	20
NHM1-80	91	15-1250	25	32	335	13	
NHM1-100	96	15-1000	25	32	355	14	
NHM1-110	113	15-1000	25	32	419	17	
NHM1-125	126	15-1000	20	25	371	19	
NHM1-140	138	15-1000	20	25	410	20	
NHM1-160	159	15-1000	16	20	376	24	
NHM1-200	196	15-800	16	20	464	29	
NHM2-100	113	15-1250	25	32	419	17	27
NHM2-125	138	15-1250	25	32	512	20	
NHM2-150	159	15-1000	25	32	588	24	
NHM2-175	180	15-1000	20	25	532	27	
NHM2-200	207	8-800	20	25	611	31	
NHM2-250	235	8-630	16	20	556	35	
NHM2-280	276	8-500	16	20	653	41	
NHM3-175	181	8-1000	25	32	670	27	35
NHM3-200	201	8-800	25	32	743	30	
NHM3-220	222	8-800	25	32	819	33	
NHM3-250	254	8-630	20	25	752	38	
NHM3-300	289	6-500	20	25	856	43	
NHM3-350	340	6-400	20	25	1000	50	
NHM3-400	380	6-350	18	22.5	1008	56	
NHM6-400	397	5-630	25	32	1469	59	57.5
NHM6-450	452	5-630	25	32	1672	67	
NHM6-500	491	5-500	20	25	1451	73	
NHM6-600	594	4-500	20	25	1756	88	
NHM6-700	683	4-400	16	20	1616	101	
NHM6-750	754	4-320	16	20	1785	112	
NHM8-600	617	4-500	25	32	2282	91	72
NHM8-700	710	4-400	25	32	2626	105	
NHM8-800	810	4-400	20	25	2396	120	
NHM8-900	889	3-350	20	25	2629	131	
NHM8-1000	1000	3-300	16	20	2366	148	
NHM11-700	707	4-400	25	32	2612	104	94
NHM11-800	784	4-400	25	32	2899	116	
NHM11-900	894	4-400	25	32	3306	132	
NHM11-1000	981	3-320	20	25	2902	145	
NHM11-1100	1104	3-320	20	25	3265	163	
NHM11-1200	1234	3-320	16	20	2919	182	
NHM11-1300	1301	3-250	16	20	3079	192	
NHM16-1400	1413	2-400	25	32	5224	209	170
NHM16-1600	1648	2-400	20	25	4874	244	
NHM16-1800	1815	2-350	20	25	5367	268	
NHM16-2000	2035	2-350	18	22.5	5416	301	
NHM16-2400	2267	2-250	16	20	5364	335	
NHM31-2500	2553	2-200	25	32	9438	378	298
NHM31-2800	2683	1-200	20	25	7935	397	
NHM31-3000	3063	1-200	20	25	9057	453	
NHM31-3150	3218	1-160	20	25	9518	476	
NHM31-3500	3561	1-160	20	25	10530	527	
NHM31-4000	4153	1-160	18	22.5	11053	614	
NHM31-4500	4522	1-160	16	20	10698	669	
NHM31-5000	4828	1-160	16	20	11423	714	
NHM40-3500	3462	0.5-150	20	25	10220	544	420
NHM40-4000	4155	0.5-150	20	25	12481	665	
NHM40-4500	4524	0.5-150	20	25	13508	720	
NHM40-5000	4988	0.5-135	20	25	15900	795	
NHM40-5500	5508	0.5-135	20	25	17490	875	
NHM40-6300	6311	0.5-130	20	25	19080	954	
NHM70-5000	4946	1-160	16	22	11450	716	550
NHM70-5400	5452	1-160	16	22	12622	789	
NHM70-6000	5984	0.5-125	16	22	13853	866	
NHM70-6300	6540	0.5-125	14	20	13248	946	
NHM70-7000	7122	0.5-125	14	20	14427	1030	
NHM100-6300	6765	0.5-125	20	25	18330	975	700
NHM100-8000	8298	0.5-125	20	25	23000	1223	
NHM100-10000	9982	0.3-100	20	25	25550	1669	

NHM1-63~160 外形尺寸 Dimension

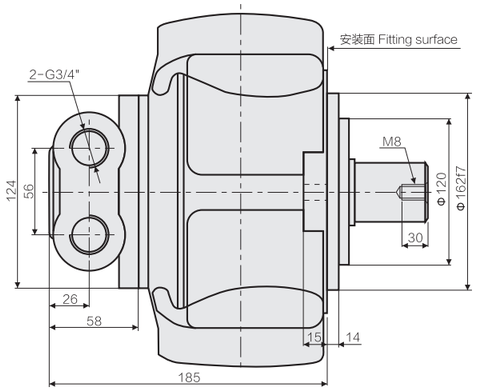


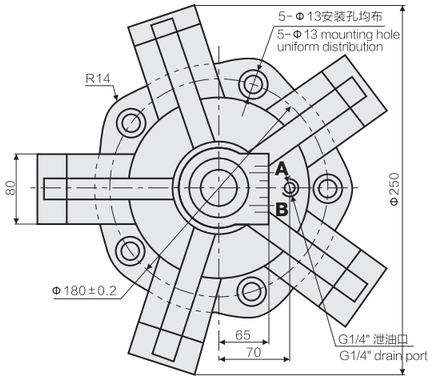


标准外花键：NHM1-**
External spline

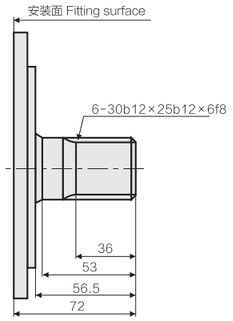
标准平键：NHM1-**B
Flat key

NHM2-100~280 外形尺寸 Dimension

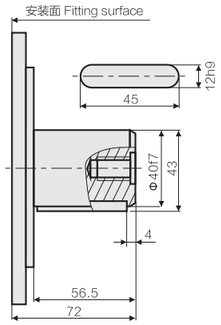




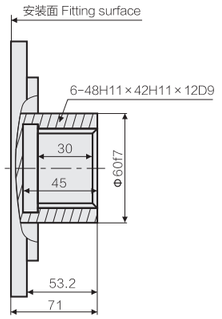
标准外花键：NHM2-**
External spline



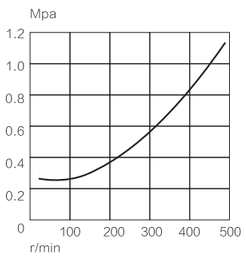
标准平键：NHM2-**B
Flat key



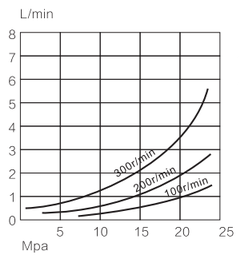
标准内花键：NHM2-**I
Internal spline



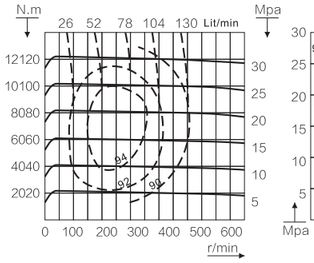
NHM2-250 特性曲线图 Performance



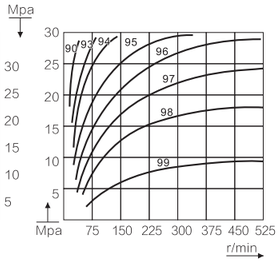
空载压力
Idling Rressure



内泄漏
Internal Leakage

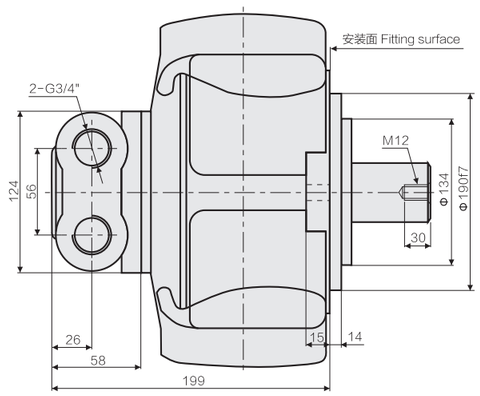


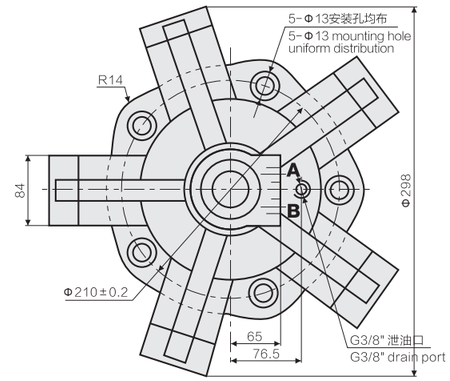
输出特性
Output Characteristic



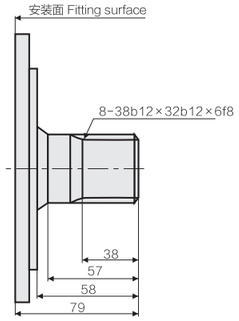
容积效率
Volumetric Efficiency(%)

NHM3-175~450 外形尺寸 Dimension

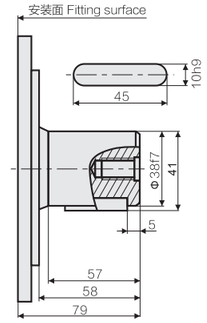




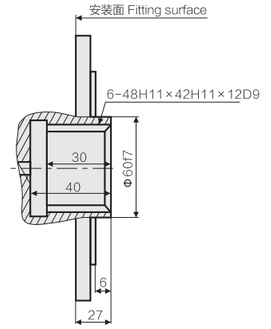
标准外花键：NHM3-**
External spline



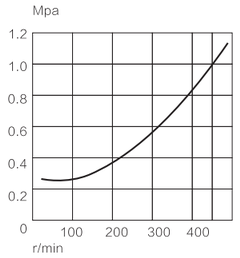
标准平键：NHM3-**B
Flat key



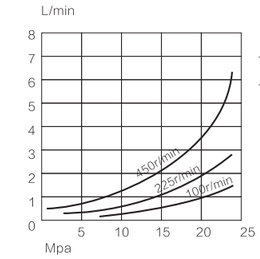
标准内花键：NHM3-**I
Internal spline



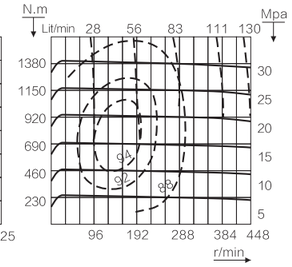
NHM3-300 特性曲线图 Performance



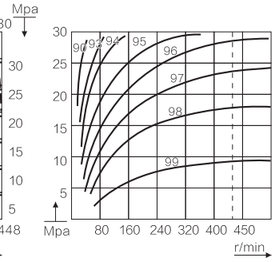
空载压力
Idling Rressure



内泄漏
Internal Leakage

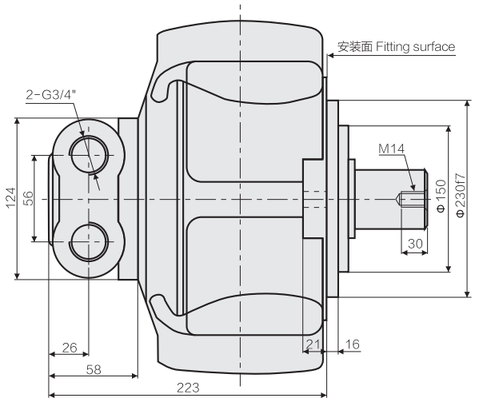


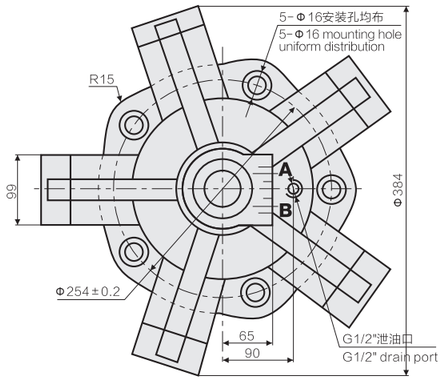
输出特性
Output Characteristic



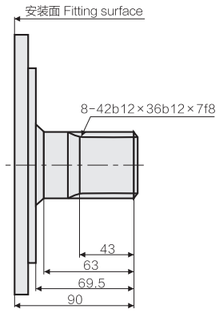
容积效率
Volumetric Efficiency(%)

NHM6-400~750 外形尺寸 Dimension

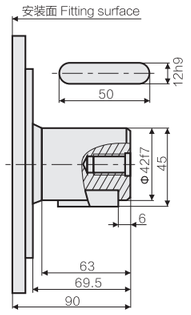




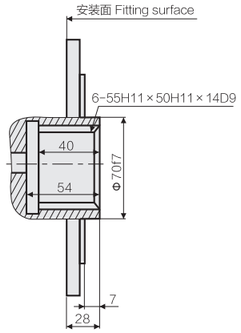
标准外花键：NHM6-**
External spline



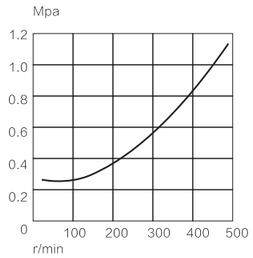
标准平键：NHM6-**B
Flat key



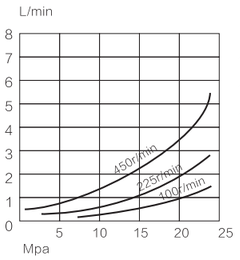
标准内花键：NHM6-**I
Internal spline



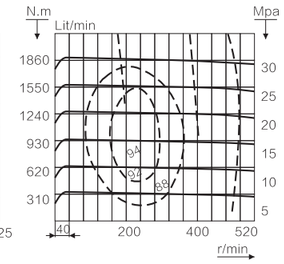
NHM6-500 特性曲线图 Performance



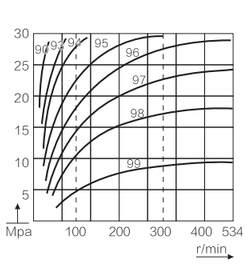
空载压力
Idling Rressure



内泄漏
Internal Leakage

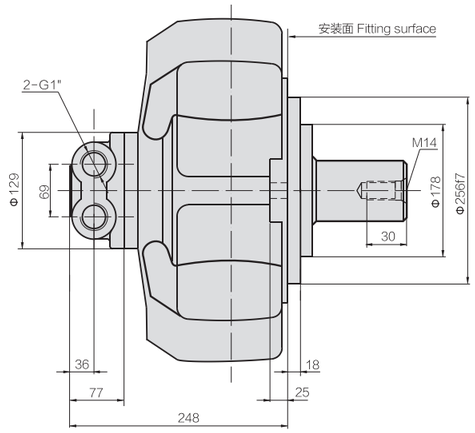


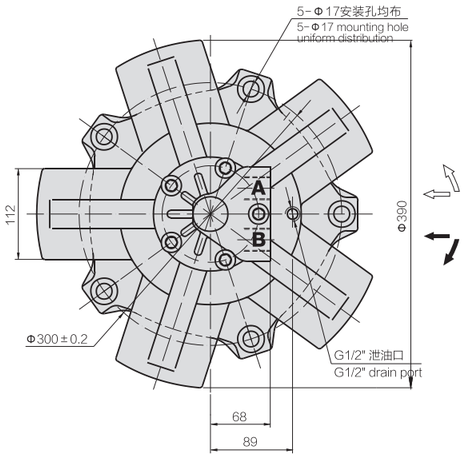
输出特性
Output Characteristic



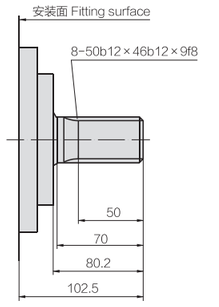
容积效率
Volumetric Efficiency(%)

NHM8-600~1000 外形尺寸 Dimension

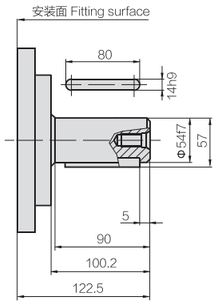




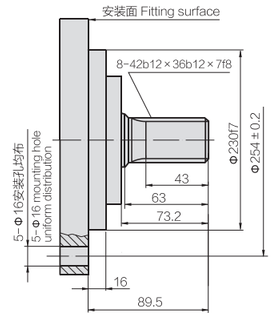
标准外花键：NHM8-**
External spline



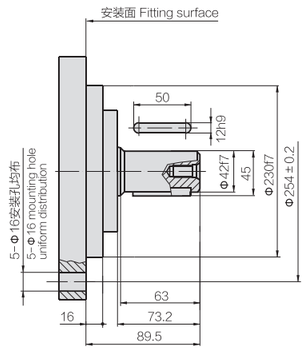
标准平键：NHM8-**B
Flat key



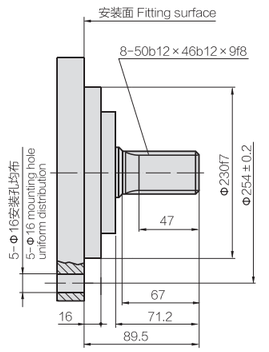
NHM8-**6M



NHM8-**6MB

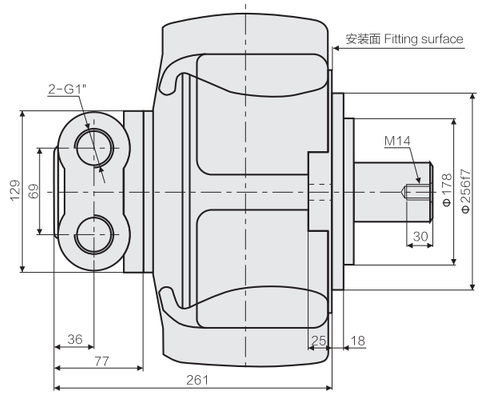


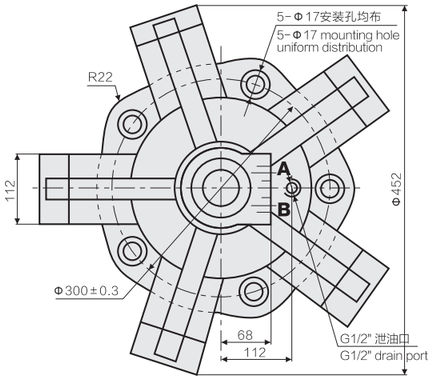
NHM8-**a2



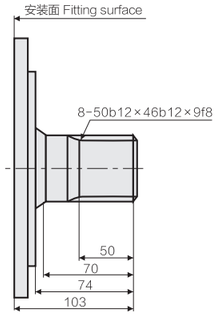
NHM11

NHM11-700~1400 外形尺寸 Dimension

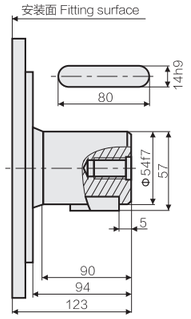




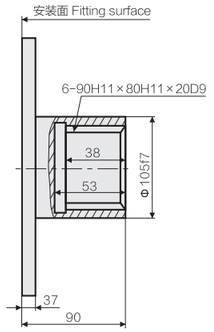
标准外花键：NHM11-**
External spline



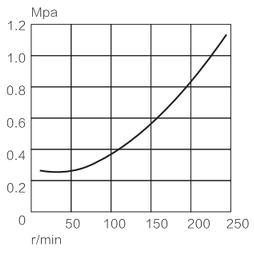
标准平键：NHM11-**B
Flat key



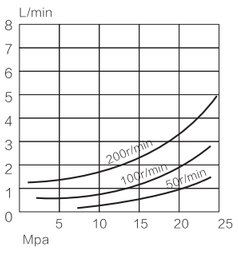
标准内花键：NHM11-**I
Internal spline



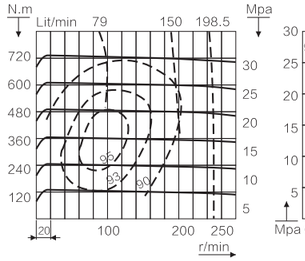
NHM11-800 特性曲线图 Performance



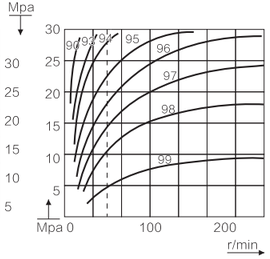
空载压力
Idling Rressure



内泄漏
Internal Leakage



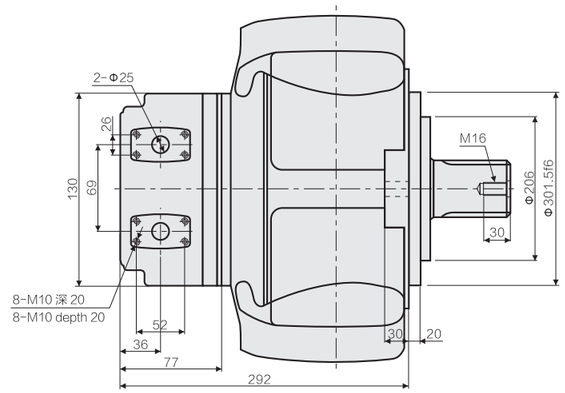
输出特性
Output Characteristic

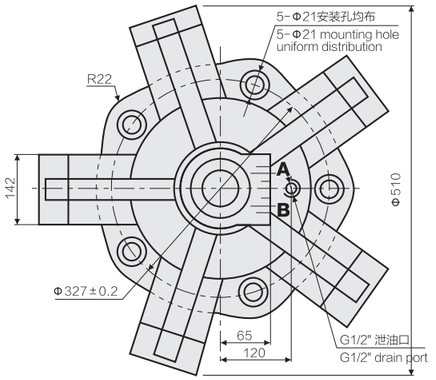


容积效率
Volumetric Efficiency(%)

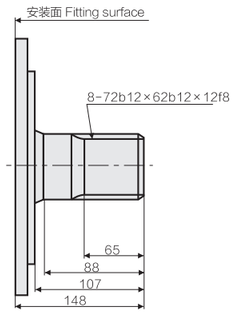
NHM16

NHM16-1400~3000 外形尺寸 Dimension

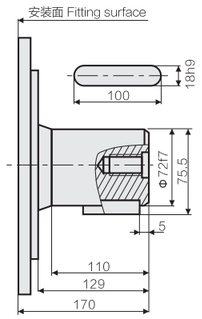




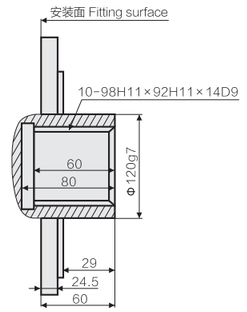
标准外花键：NHM16-**
External spline



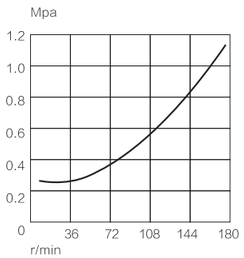
标准平键：NHM16-**B
Flat key



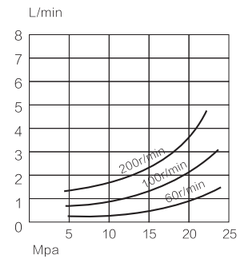
标准内花键：NHM16-**I
Internal spline



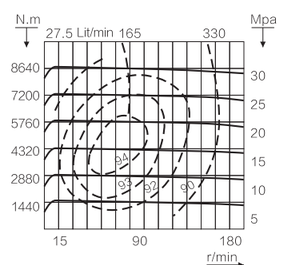
NHM16-1800 特性曲线图 Performance



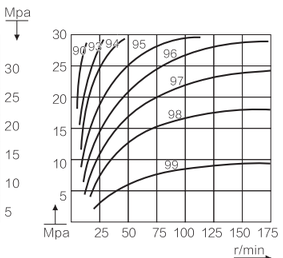
空载压力
Idling Rressure



内泄漏
Internal Leakage



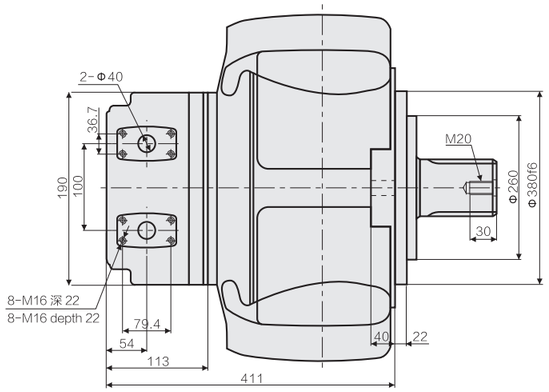
输出特性
Output Characteristic

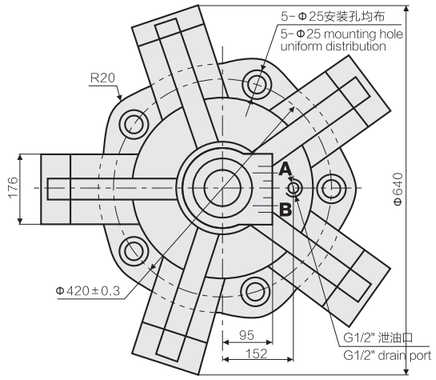


容积效率
Volumetric Efficiency(%)

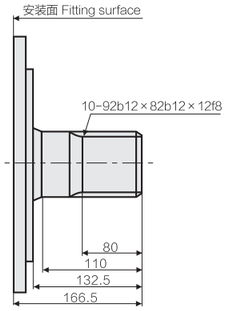
NHM31

NHM31-2500~5000 外形尺寸 Dimension

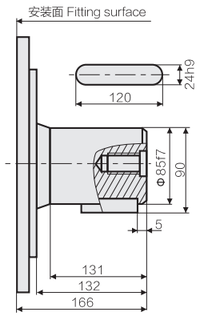




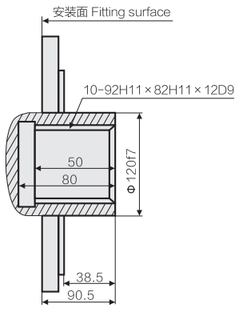
标准外花键：NHM31-**
External spline



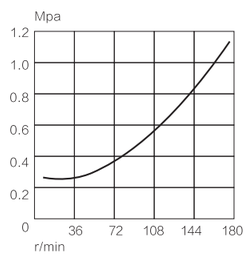
标准平键：NHM31-**B
Flat key



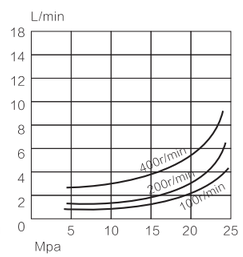
标准内花键：NHM31-**I
Internal spline



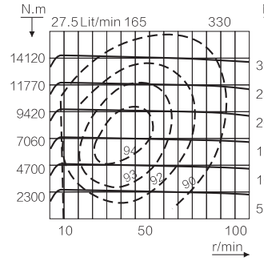
NHM31-3150 特性曲线图 Performance



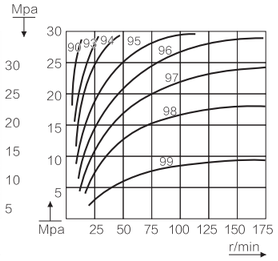
空载压力
Idling Rressure



内泄漏
Internal Leakage



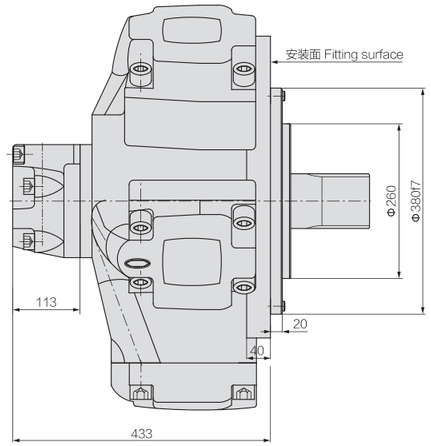
输出特性
Output Characteristic

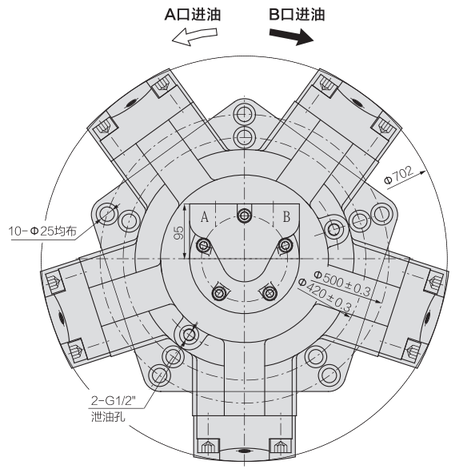


容积效率
Volumetric Efficiency(%)

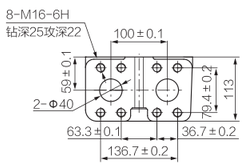
NHM40

NHM40-3000~6300 外形尺寸 Dimension

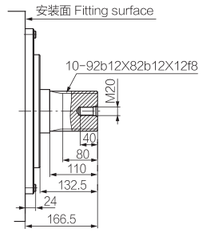




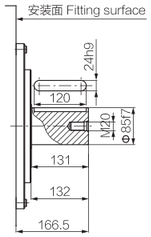
K向旋转
Direction rotation



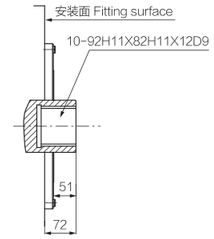
NHM40-**



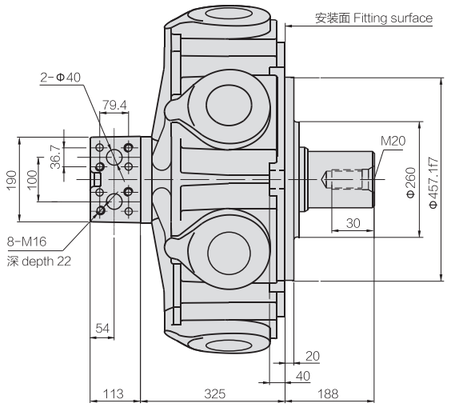
NHM40-**B

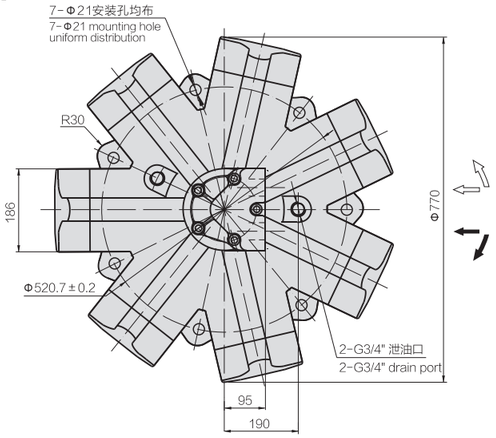


NHM40-**I

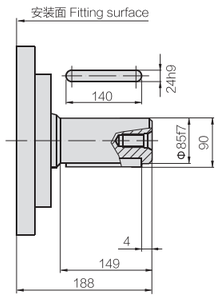


NHM70-5000~7000 外形尺寸 Dimension

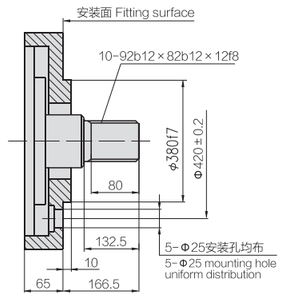




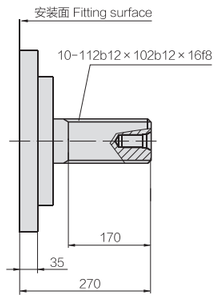
标准平键：NHM70-**B
Flat key



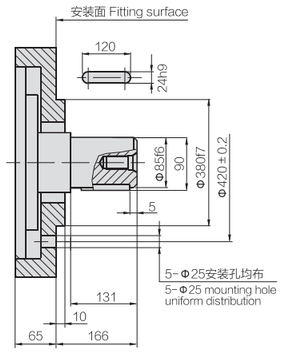
NHM70-**a_1



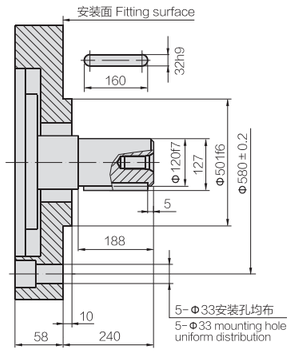
NHM70-**a_3



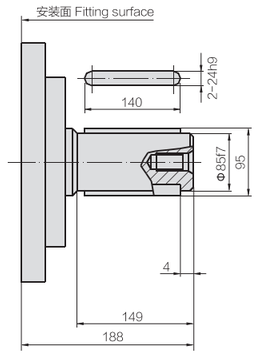
NHM70-**B_1



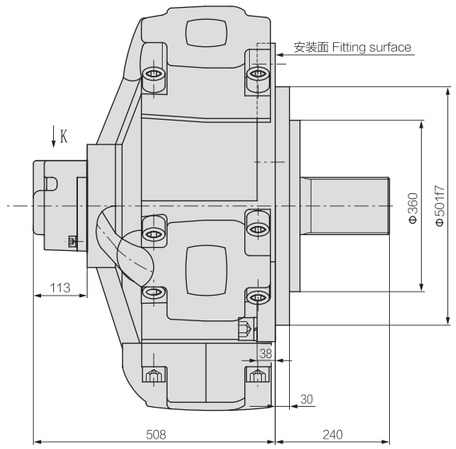
NHM70-**B_2

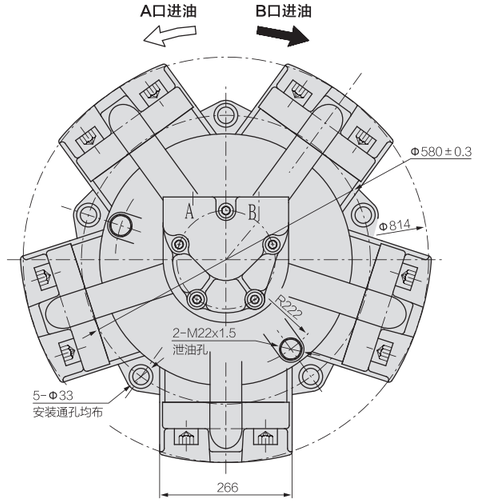


NHM70-**BC

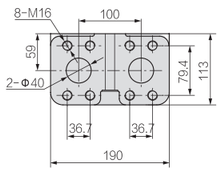


NHM100-6300~10000 外形尺寸 Dimension

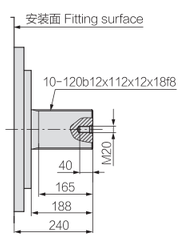




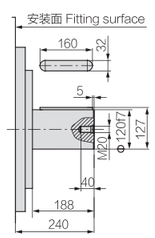
K向旋转
Direction rotation



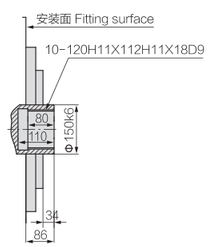
NHM40-**



NHM40-**B



NHM40-**I



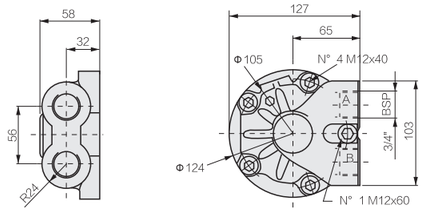
D31

D31配油盘，油孔为G3/4"
D31 distributor with 3/4" ports.

D310

与D31相同，油口为 G1"
重量: 4kg

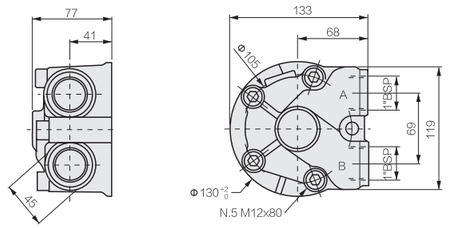
Is the same as D31, oil port is G1"
Weight：4kg



D40

标准配置用配油盘。
重量：5kg

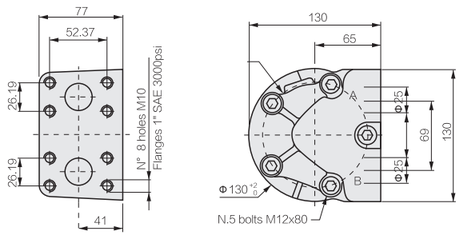
Standard distributor for motors.
Weight：5kg



D47

油孔为Φ25 的法兰连接配油盘。
重量: 6kg

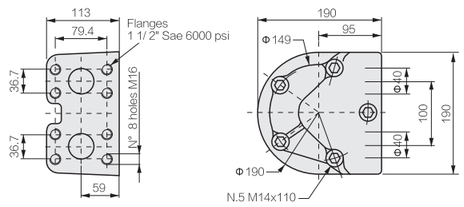
Distributor with SAE 1" 3000 psi flanges.
Weight：6kg



D90

GM6，NHM31 系列标准配油盘。
重量: 14.5kg

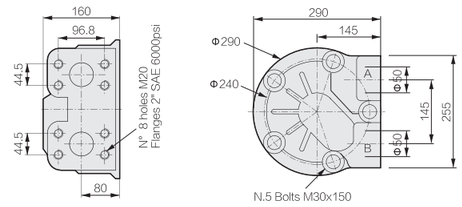
Standard distributor for GM6, NHM31 series motors.
Weight：14.5kg



D250

大流量配油盘
重量: 50kg

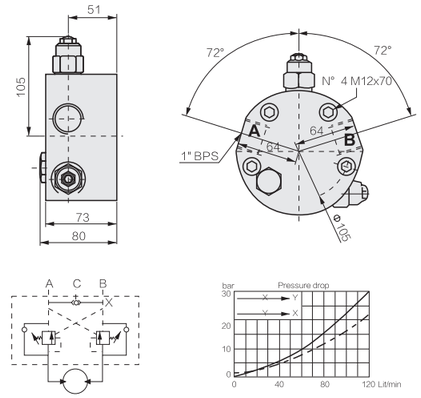
High flow distributor
Weight：50kg



D503

带有双向平衡阀和高压梭阀（C）的配油盘
最大流量120 lit/min
调节比 10: 1
最大压力 265 bar
压力设定=1.3x工作压力
压力设定范围从100bar 到350bar
B口背压可能对阀的作用产生不利影响
重量：5kg

Distributor with double overcentre valve and high pressure pilot line(C)
Max flow 120 lit/min
Pilot ratio 10:1
Max pressure 265 bar.
Pressure setting=1.3x working pressure.
Press.Setting range 100 to 350 bar
Back-pressure in port B may adversely affect operation of the valve
Weight: 5kg



D60221

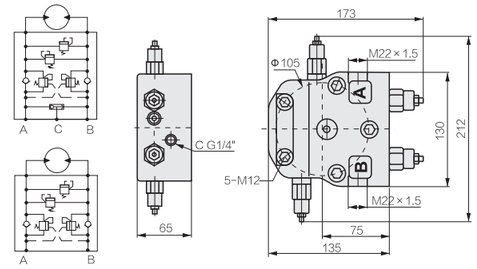
双向过载阀，双向平衡阀
高压梭阀
最高设定压力35MPa
最大流量为60L/min

Bidirectional overload valve
Bidirectional counterbalance valve
High pressure shuttle valve
Maximum setting pressure is 35MPa
Maximum flow is 60L/min

D6022

带双向过载阀，双向平衡阀
最高设定压力35MPa
最大流量为60L/min

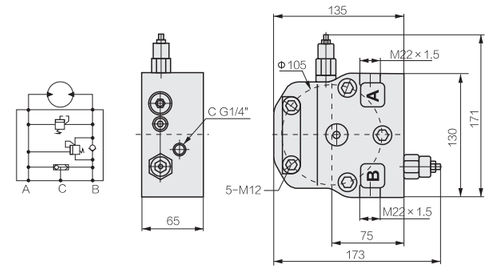
Bidirectional overload valve
Bidirectional counterbalance valve
Maximum setting pressure is 35MPa
Maximum flow is 60L/min



D60111

单向过载阀、单向平衡阀
高压梭阀
最高设定压力35MPa
最大流量为60L/min

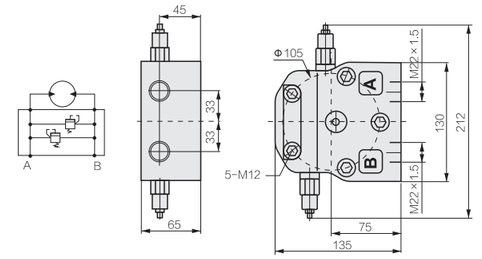
Single overload valve
Single counterbalance valve
High pressure shuttle valve
Maximum setting pressure is 35MPa
Maximum flow is 60L/min



D6002

双向过载阀
最高设定压力35MPa
最大流量为60L/min

Bidirectional overload valve
Maximum setting pressure is 35MPa
Maximum flow is 60L/min



D602

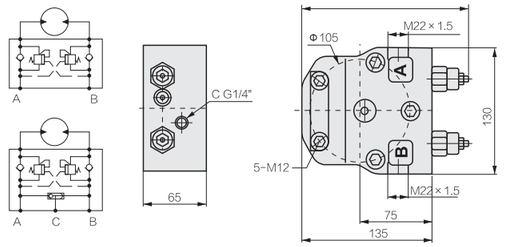
双向平衡阀
最高设定压力35MPa
最大流量为60L/min

Bidirectional counterbalance valve
Maximum setting pressure is 35MPa
Maximum flow is 60L/min

D60201

双向平衡阀
高压梭阀
最高设定压力35MPa
最大流量为60L/min

Bidirectional counterbalance valve
High pressure shuttle valve
Maximum setting pressure is 35MPa
Maximum flow is 60L/min



D601

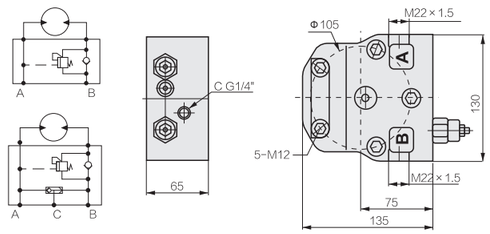
单向平衡阀
最高设定压力35MPa
最大流量为60L/min

Single counterbalance valve
Maximum setting pressure is 35MPa
Maximum flow is 60L/min

D60101

单向平衡阀
高压梭阀
最高设定压力35MPa
最大流量为60L/min

Single counterbalance valve
High pressure shuttle valve
Maximum setting pressure is 35MPa
Maximum flow is 60L/min



D60L

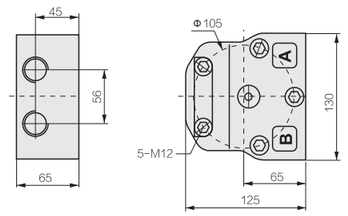
A、B油口为G3/4"
额定压力为32MPa
额定流量为100L/min
(相当于D31)

The diameter of port A and port B is G3/4"
Rated pressure is 35MPa
Rated flow is 100L/min
(Equal to D31)

D60LG

A、B油口为M27×2
额定压力为32MPa
额定流量为100L/min

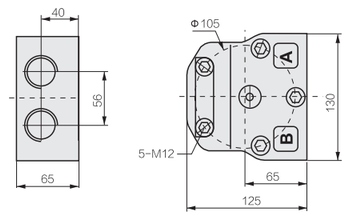
The diameter of port A and port B is M27×2
Rated pressure is 35MPa
Rated flow is 100L/min



D60L0

A、B油口为G1"
额定压力为32MPa
额定流量为100L/min
(相当于D310)

The diameter of port A and port B is G1"
Rated pressure is 35MPa
Rated flow is 100L/min
(Equal to D310)



D120221

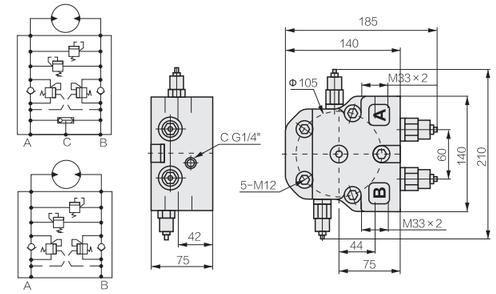
双向过载阀，双向平衡阀
高压梭阀
最高设定压力35MPa
最大流量为120L/min

Bidirectional overload valve
Bidirectional counterbalance valve
High pressure shuttle valve
Maximum setting pressure is 35MPa
Maximum flow is 120L/min

D12022

带双向过载阀，双向平衡阀
最高设定压力35MPa
最大流量为120L/min

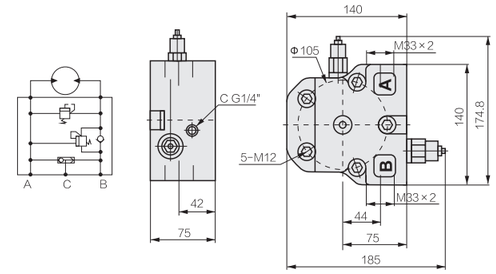
Bidirectional overload valve
Bidirectional counterbalance valve
Maximum setting pressure is 35MPa
Maximum flow is 120L/min



D120111

单向过载阀、单向平衡阀
高压梭阀
最高设定压力35MPa
最大流量为120L/min

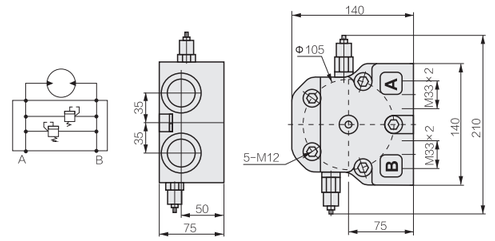
Single overload valve
Single counterbalance valve
High pressure shuttle valve
Maximum setting pressure is 35MPa
Maximum flow is 120L/min



D12002

双向过载阀
最高设定压力35MPa
最大流量为120L/min

Bidirectional overload valve
Maximum setting pressure is 35MPa
Maximum flow is 120L/min



D1202

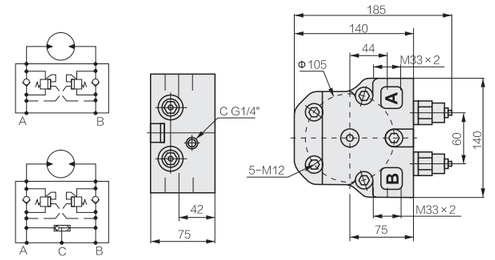
双向平衡阀
最高设定压力35MPa
最大流量为120L/min

Bidirectional counterbalance valve
Maximum setting pressure is 35MPa
Maximum flow is 120L/min

D120201

双向平衡阀
高压梭阀
最高设定压力35MPa
最大流量为120L/min

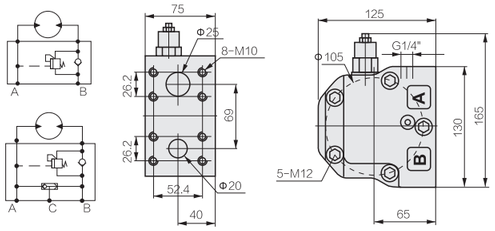
Bidirectional counterbalance valve
High pressure shuttle valve
Maximum setting pressure is 35MPa
Maximum flow is 120L/min



D1201

单向平衡阀
最高设定压力35MPa
最大流量为120L/min

Single counterbalance valve
Maximum setting pressure is 35MPa
Maximum flow is 120L/min



D120101

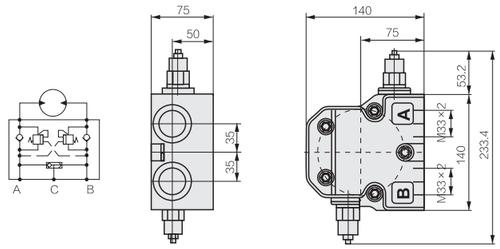
单向平衡阀
高压梭阀
最高设定压力35MPa
最大流量为120L/min

Single counterbalance valve
High pressure shuttle valve
Maximum setting pressure is 35MPa
Maximum flow is 120L/min

D120201

双向平衡阀
高压梭阀
最高设定压力35MPa
最大流量为120L/min

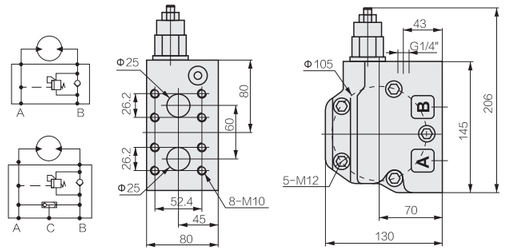
Bidirectional counterbalance valve
High pressure shuttle valve
Maximum setting pressure is 35MPa
Maximum flow is 120L/min



D2401

单向平衡阀
最高设定压力35MPa
最大流量为240L/min

Single counterbalance valve
Maximum setting pressure is 35MPa
Maximum flow is 240L/min



D240101

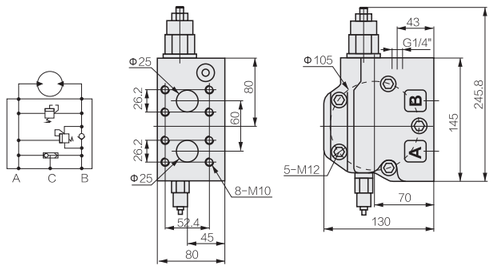
单向平衡阀
高压梭阀
最高设定压力35MPa
最大流量为240L/min

Single counterbalance valve
High pressure shuttle valve
Maximum setting pressure is 35MPa
Maximum flow is 240L/min

D240111

单向平衡阀及单向过载阀
高压梭阀
最高设定压力35MPa
最大流量为240L/min

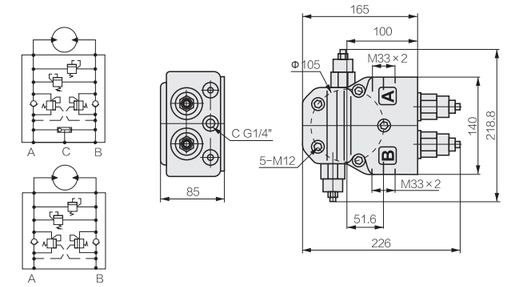
Single overload valve
Single counterbalance valve
High pressure shuttle valve
Maximum setting pressure is 35MPa
Maximum flow is 240L/min



D240221

双向过载阀，双向平衡阀
高压梭阀
最高设定压力35MPa
最大流量为240L/min

Bidirectional overload valve
Bidirectional counterbalance valve
High pressure shuttle valve
Maximum setting pressure is 35MPa
Maximum flow is 240L/min



D24022

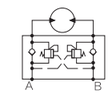
带双向过载阀及平衡阀
最高设定压力35MPa
最大流量为240L/min

Bidirectional overload valve
Bidirectional counterbalance valve
Maximum setting pressure is 35MPa
Maximum flow is 240L/min

D2402

双向平衡阀
最高设定压力35MPa
最大流量为240L/min

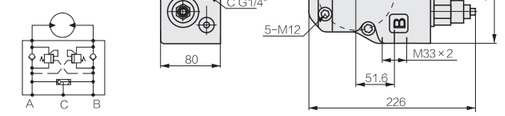
Bidirectional counterbalance valve
Maximum setting pressure is 35MPa
Maximum flow is 240L/min



D240201

双向平衡阀
高压梭阀
最高设定压力35MPa
最大流量为240L/min

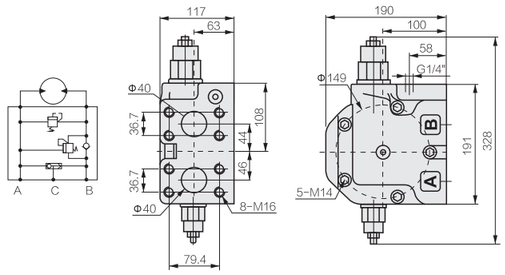
Bidirectional counterbalance valve
High pressure shuttle valve
Maximum setting pressure is 35MPa
Maximum flow is 240L/min



D480111

单向平衡阀及单向过载阀
高压梭阀
最高设定压力35MPa
最大流量为480L/min

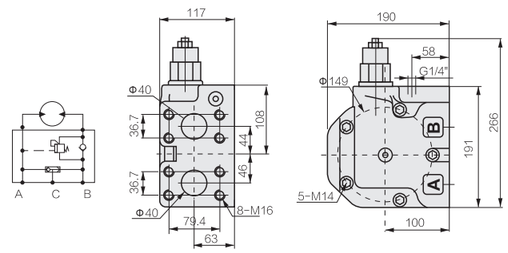
Single overload valve
Single counterbalance valve
High pressure shuttle valve
Maximum setting pressure is 35MPa
Maximum flow is 480L/min



D480101

单向平衡阀
高压梭阀
最高设定压力35MPa
最大流量为480L/min

Single counterbalance valve
High pressure shuttle valve
Maximum setting pressure is 35MPa
Maximum flow is 480L/min



产品适用范围

QJM型系列液压马达可与各种油泵、阀及液压附件配套组成液压传动装置，可适应各种机器工况。 该液压马达具有重量轻、体积小、调速范围大，低速稳定性能好，工作可靠、耐冲压、效率高、寿命长等一系列优点。目前广泛应用于矿山建筑工程、冶金设备、石油、煤矿、船舶、地质勘探等行业。

QJM型液压马达结构原理

QJM型系列液压马达的配油轴是与后盖刚性连接的，转子体以配油轴作径向支承，以定子球形滚道和钢球作轴向支承，转子出轴是内花键，要求工作机构传动轴与它松动配合，这样转子体是浮动的，配油轴是刚性的，故允许用钢管连结进出油口。压力油经配油轴中通道（或变速阀）分配到各通道高压腔的配油窗口进入各活塞缸孔。活塞在压力油作用下，通过钢球以正压力N 作用到定子上，定子以同值的反作用力N' 作用到钢球上。N' 可分解为径向和切向2个分力，径向力为油压力所平稳，切向力F通过活塞作用于转子体。这样转子体在F力的推动下绕配油轴旋转，因同一瞬间有几只活塞处于压力油的作用下，所以能产生很大扭矩。当活塞随转子体旋转到定子曲面的顶点后，活塞在定子曲面的推动下向轴心回程，将活塞缸中工作油经配油轴窗口排回低压流通，如此往复即完成将压力能转换成机械能的任务，使液压马达不断旋转。改变两个通油口的油流方向，即可使反向旋转。改变进入液压马达的流量即可改变转速，实现无级调速目的。有级变量液压马达排量的变化，是油装置在液压马达配油轴中的变速阀位置的改变来实现的。变速阀的位置可以用手动机构或先导阀来控制，（先导阀由用户自备）。

QJM型液压马达主要特点

1、该型马达的滚动体用一只钢球代替了一般内曲线液压马达所用的两只以上滚轮和横梁，因而结构简单，工作可靠，体积小，重量轻；
2、运动付惯量小，钢球结实可靠，故该型马达可以在冲击负载下连续工作；
3、摩擦付少，配油轴与转子内力平衡，球塞付通过自润滑复合材料制成的球垫传力，并具有静压平衡和良好润滑条件，采用自动补偿磨损的软性塑料活塞环密封高压油，因而具有较高的机械和容积效率，能在很低的转速下稳定运转，起动力矩较大；
4、因结构具有的特点，该马达所需回油背压较低，一般需0.3-0.8Mpa，转速越高，背压应越大；
5、该型马达具二级和三级变量，因而具有较大的调速范围。
6、结构简单，拆修方便，对油液清洁度无特殊要求，油液的过滤精度可按配套油泵的要求选定。

Product overview

QJM series hydraulic motor can constitute hydraulic transmission device with different oil pumps, valves and hydraulic parts, which can meet the requirements on all conditions. QJM hydraulic motor has the characteristics of light weight, small volume, wide speed regulation range, perfect stablity performance at low speed, tolerance of stamping, high efficiency, long lifetime, etc. Now it is widely used in constructional engineering, metallurgical equipment, petroleum, coal mine, ship, geological prospecting, etc.

QJM series hydraulic motor's structure principle

QJM hydraulic motor's oil distribution shaft is rigid connected with rear cover, rotor block uses oil distribtion shaft as radial support, uses stator spherical rollaway nest and steel ball as axial support. Rotor's output shaft is internal spline, rotor block is floating, oil distribution shaft is rigid, so it permits to use steel pipe connection in and out of oil mouth. Pressure oil is assigned to the distribution port of each channel' s high pressure chamber by the variable valves, and then the pressure oil will flow into each piston cylinder hole. Under the effect of pressure oil, the piston uses the ball with positive pressure N to effect on the stator. And the stator uses the same value number of reaction force N' to effect on the steel ball. N' can be divided into two component force radial and tangential. Tangential force F uses the piston to effect on the rotor block. Driven by the tangential force F, the rotor block rotates around the oil distribution shaft. As at the same moment, there is a few piston under the pressure oil effect, so it can produce large torque.

QJM series hydraulic motor main characteristics

1. Because the rolling body of this motor is replaces by a steel ball rather than two or more rollers and beams. Therefore, QJM series hydraulic motor has such features as: simple structure, reliable performance, small volume and light weight.

2. Small kinematics' pair inertia and hard steel ball make this motor continuously work under the strong impact load.

3. QJM series hydraulic motor has higher mechanical and volumetric efficiency. It can operate stably at low speed, and it has large starting torque.

4. Because of the characteristics of the structure, this motor's requirement of oil return backpressure is lower, general need is 0.3-0.8 Mpa, the higher the speed, the greater the backpressure.

5. As this model has variable displacements dual and trinal speeds, it has greater speed range.

6. Simple structure and easy maintenance. It has no special requirement for the cleanliness of the oil. And the oil filtration precision can be selected according to the requirement of the matching oil pump.

如何合理选型

1、同一基型编号的液压马达，压力等级有 3 种，其额定压力分别为 10、16、20Mpa，如何合理选择一种比较适合主机工况的型号呢？首先应考虑提高传动效率，对传动功率小，转速低、扭矩大的工况，此时影响传动总效率的主要因素是容积效率，对传动功率相同的液压装置，降低系统工作压力能提高容积效率，因此这时应选择用额定压力为 10Mpa 的型号，同时实际工作压力还应选得低些，当传动功率越小，转速越低时工作压力越低越有利。相反对传动功率大，转速较高的工况，此时影响传动总效率的主要因素是机械效率，因此这是应选用额定压力为16 或 20Mpa的型号。其次对于有低速稳定性要求的工况，选型中应注意液压马达排量越大，低速稳定性越好，它还与工作压力有关，工作压力越低低速稳定性越好。
2、排量相同的几个不同基型的液压马达，如何选择一种合理的型号呢？这与使用工况和使用寿命要求有关，对于短期间隙运转，整个大修期间累计工作时间较短的机械，可以选用基型号编号较小的型号，而对于每天累计运转时间长，使用寿命又要求较长的机械，应尽可能选用基型编号较大的型号，但在较低的压力条件下使用，此时能显著提高使用寿命，因为QJM型液压马达的使用寿命与使用压力成3.3次方反比，也就是使用压力降低一半，寿命可提高10倍。
3、设计中用到的几个计算公式：

(1)液压马达实际输出扭矩：
M=159（P1-P2）· q · ηm（N · m）
式中：P1，P2分别为液压马达的入口和出口压力(Mpa)
η，液压马达转速（r/min）
Q，液压马达流量（L/rev）
ηm，液压马达机械效率
ηv，液压马达容积效率

(2)液压马达输出功率：
$N=\frac{M\cdot n}{9550}\eta m\cdot \eta V(KW)$ $N=\frac{Q(P_1-P_2)}{60}\eta m\cdot \eta V(KW)$
式中：P1，P2分别为液压马达的入口和出口压力(Mpa)
Q，液压马达排量（L/rev）
ηm，液压马达机械效率

(3)液压马达转速：
$N=\frac{Q}{q}\eta V$（r/min）

How to select model reasonably?

1. The same basic type number hydraulic motor's pressure rating have three types, and there are 10, 16, 20 Mpa. How to reasonably choose a model is more suitable to the host condition? First of all is to consider to improve the transmission efficiency. For the small transmission power, low speed and high torque working conditions, to influence the total transmission efficiency's major factor is volume efficiency. For the same transmission power of hydraulic devices, to reduce the system's working pressure can improve volume efficiency, therefore, to choose the model of 10 Mpa rated pressure to use is reasonable. And the practical working pressure should choose smaller. When the transmission power is smaller and the speed is slower, the working pressure is the lower the better. Instead, for the big transmission power and high speed working conditions, to influence the total transmission efficiency's major factor is mechanical efficiency. Therefore, to choose the model of 16 or 20 Mpa rated pressure to use is reasonable. Secondly, for the working condition of low speed stability requirements, please pay attention to the motor's displacement in selection model, the displacement the bigger, the stability at low speed the better. It is also relevant to the working pressure, the working pressure the smaller, the stability at low speed the better.

2. The hydraulic motor of the same displacement and the different basic type. How to choose a reasonable model? It is relevant to the using working conditions and service life. For the short period clearance running and the shorter cumulative working hours of machinery in the overhaul period, can choose the model whose basic type number is smaller. However, for the machinery of long time cumulative running and the long life requirement, should choose the basic type number as bigger as possible. When necessary, should choose high pressure model. But use under the low pressure conditions, it can remarkably improve the service life. Because QJM series hydraulic motor's service life is 3.3 power inversely proportional to the using pressure. That is to say to reduce a half of using pressure, the life can enhance ten times.

3. several calculation formulas used in the design:
(1) hydraulic motor actual output torque:

M=159（P_1-P_2）· q · η_m（N · m）

in the formula: P1---- hydraulic motor's inlet pressure (Mpa)
P2---- hydraulic motor's exit pressure (Mpa)
η---- rotate speed of hydraulic motor（r/min）
Q ---- the flow of the hydraulic motors（L/rev）
η_m---- hydraulic motor's mechanical efficiency
η_v----hydraulic motor volume efficiency

(2) Out put power of hydraulic motor:
in the formula: P1---- hydraulic motor's inlet pressure (Mpa)
P2---- hydraulic motor's exit pressure (Mpa)
Q----displacement of hydraulic motor (L/rev)
η_m----hydraulic motor's mechanical efficiency

(3) Rotate speed of hydraulic motor

$N=\frac{Q}{q}\eta V$（r/min）

型号说明 Description of model

QJM —

无字母表示标准型
Z*表示带支承，注脚数字表示种类
Ze表示转动轴轴承外置式
T*表示通孔，注脚数字表示通孔直径
B表示带通油板
S表示带自控式制动器
Se表示带外控式制动器矩形花键孔输出
SeZ表示带外控式制动器，平键轴输出
SeZH表示带外控式制动器矩形花键轴输出
F表示带阀组
A表示花键尺寸与本系列马达的花键尺寸不同

No code ----standard model
Z*----motor with bearing; *----mode
Ze----external bearing of axis of rotation
T*----motor with through-hole; *----diameter
B----motor with oil passing flange
S----motor with brake
Se----out control brake Rectangular spline hole output
SeZ----out control brake, flat key shaft output
SeZH---- out control brake rectangular spline shaft output
F----with valve block
A----the spline size is different from this series

排量（L/rev）
Displacement

基型编号，相同基型主要外形尺寸和主要零件相同
Basic type number, all the coupling dimensions with the same base number are the same.

径向钢球液压马达
Sphere piston hydraulic motor

变量控制方式：FS表示滑阀手动，LS表示螺杆手动，无符号表示液控
Variable control mode: FS----manual control with spool valve
LS---- manual control with screw
No code----hydraulic control

1表示定量，2表示2级变量
1----fixed displacement; 2----variable displacement dual speeds

型号说明举例 Example of model selection

2FS QJM21-0.63SZ 表示双速手动滑阀控制变量的径向轴转球塞液压马达，基型为21系列，排量0.63L/rev，带自控式制动器，带支承型，平键轴输出。

2FS QJM21-0.63SZ---- double speed manual valve control with variables sphere piston hydraulic motor, basic type is 21 series, displacement is 0.63L/rev, with brake, bearing, flat key shaft output.

1QJM**——**型安装联接要求

1、各型液压马达均允许在任何方向上安装使用。
2、因QJM液压马达转子呈浮动状态，故安装时花键连接必须留轴向空隙 2-3 毫米，以保证转子体可以在轴向自由窜动（见下图），并且液压马达花键孔与工作机构花键轴必须对中，并保证两者松动配合。对花键处和安装定位机座的技术要求见图。
3、液压马达在机器中安装并连接好管路后，应用手或扳手盘动液压马达，此时转子应灵活，不得有卡住或重轻现象。
4、因配油与定子刚性连接，故该型马达进出油管允许用钢管连接。
5、泄漏油管：
（1）泄漏油管的最高位置或油箱的油液高度应高于马达壳体的最高水平位置，以防马达壳体内的油液排空。
（2）泄漏油管路及接头的孔径一般应大于Φ12，并必须直接与油箱接通，不允许与主回油路连通（若需过滤应单独用粗滤油器），使壳体内压力不超过0.5Mpa，若有特殊要求应与我公司联系，协商解决。
6、严格保证联接油口的清洁度，防止任何固体异物进入。

1QJM**-----**Installation Requirement

1. All kinds of hydraulic motor can be installed and used in any direction.

2. As the rotor of QJM motor is in floating status, 2-3 mm distance should be left before connecting the spline to ensure the unrestricted movement of rotor in the shaft direction.(as shown in drawing). The splined hole of motor and the splined shaft of operating mechanism should be aligned and kept in loose coordination. For technical requirements on the spline and locating seat, see the following drawing.

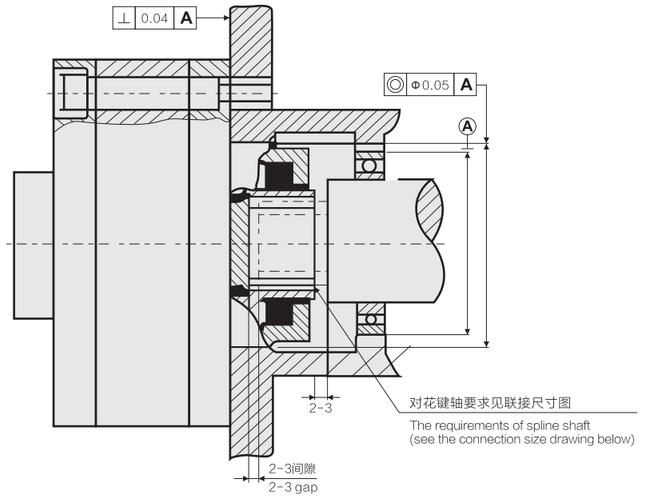
3. After mounting the hydraulic motor in the machine and connecting the pipeline, turn the motor by hand or a spanner. The rotor should be flexible and free from block or unbalance.

4. As the oil feed shaft and stator are in rigid connection, the oil pipeline of this model can be connected with steelpipe.

5. leakage oil pipe
（1）The top line of the drain pipe should be higher than that of the motor body, in case empting oil storage.

（2）The bore diameter of the leakage oil pipe and the joint should be generally bigger than Φ12. The pipe can be directly connected to the oil tank. If filtrated, please use separate strained oil filter. The pressure of inner shell should not exceed 0.5 Mpa. If you have special requirements, please contact with us.

6. Strictly maintain the cleanness of the oil port, and keep away any solid particles away.



1QJM**--**型液压马达技术参数
1QJM**--** series technical data

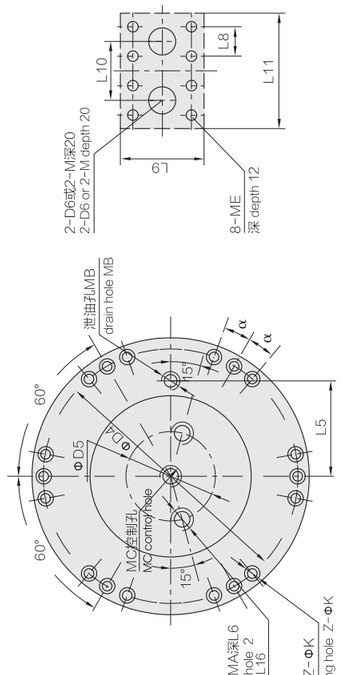
型 号 Model	排量 Displacement (L/r)	额定压力 Rated Pressure (Mpa)	尖峰压力 Peak Pressure (Mpa)	转速范围 Rotational Speed Range (r/min)	额定输出扭矩 Rated Output Torque (N.m)	最大功率 Max. power (Kw)
1QJM001-0.08	0.083	10	16	8-500	123	5
1QJM001-0.10	0.104	10	16	8-400	154	5
1QJM002-0.2	0.2	10	16	8-320	295	8
1QJM01-0.1	0.10	10	16	8-800	148	10
1QJM01-0.16	0.163	10	16	8-630	241	12.5
1QJM01-0.2	0.203	10	16	8-500	300	12.5
1QJM02-0.32	0.326	10	16	5-400	483	13
1QJM02-0.4	0.406	10	16	5-320	600	13
1QJM11-0.32	0.339	10	16	5-400	468	20
1QJM11-0.4	0.404	10	16	5-400	598	20
1QJM11-0.5	0.496	10	16	5-320	734	20
1QJM11-0.63	0.664	10	16	4-250	983	20
1QJM12-0.8	0.8	10	16	4-250	1170	25
1QJM12-1.0	1.0	10	16	4-200	1480	25
1QJM12-1.25	1.33	10	16	2-160	1968	25
1QJM21-0.4	0.404	16	25	2-400	957	32
1QJM21-0.5	0.496	16	31.5	2-320	1175	32
1QJM21-0.63	0.664	16	31.5	2-250	1572	32
1QJM21-0.8	0.808	16	25	2-200	1913	32
1QJM21-1.0	1.01	10	16	2-160	1495	25
1QJM21-1.25	1.354	10	16	2-125	2004	25
1QJM21-1.6	1.65	10	16	2-100	2442	25
1QJM32-0.63	0.635	20	31.5	3-500	1880	80
1QJM32-0.8	0.808	20	31.5	3-500	2368	80
1QJM32-1.0	1.06	20	31.5	2-400	3138	80
1QJM32-1.25	1.295	20	31.5	2-320	3833	80
1QJM32-1.6	1.649	20	31.5	2-250	4881	80
1QJM32-2.0	2.03	16	25	2-200	4807	80
1QJM32-2.5	2.71	10	16	1-160	4011	62
1QJM32-3.2	3.2	10	16	1-125	4884	62
1QJM32-4.0	4.0	10	16	1-100	5920	62
1QJM42-2.0	2.11	20	31.5	1-320	6246	105
1QJM42-2.5	2.56	20	31.5	1-250	7578	105
1QJM42-3.2	3.24	10	16	1-200	4850	90
1QJM42-4.0	4.0	10	16	1-160	5920	90
1QJM42-4.5	4.6	10	16	1-125	6808	90
1QJM52-2.5	2.67	20	31.5	1-320	7903	130
1QJM52-3.2	3.24	20	31.5	1-250	9590	130
1QJM52-4.0	4.0	16	25	1-200	9472	130
1QJM52-5.0	5.23	10	16	1-160	7740	120
1QJM52-6.3	6.36	10	16	1-125	9413	120
1QJM62-4.0	4.0	20	31.5	0.5-150	11840	150
1QJM62-5.0	5.18	20	31.5	0.5-125	15333	150
1QJM62-6.3	6.27	16	25	0.5-125	14847	150
1QJM62-8.0	7.85	10	16	0.5-100	11618	121
1QJM62-10	10.15	10	16	0.5-80	15022	121

注：各型带支承和带阀组液压马达其技术参数与上表中对应的标准型液压马达技术参数相同。
Note: The technical data of the QJM series hydraulic motor with bearing or valve group is the same as the standard type hydraulic motor's in the table above.

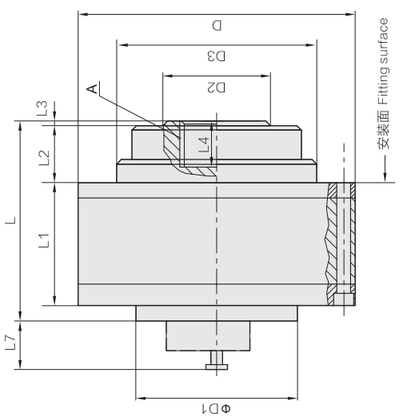
2QJM**--**型液压马达技术参数
2QJM**--** series technical data

型 号 Model	排量 Displacement (L/r)	额定压力 Rated Pressure (Mpa)	尖峰压力 Peak Pressure (Mpa)	转速范围 Rotational Speed Range (r/min)	额定输出扭矩 Rated Output Torque (N.m)	最大功率 Max. power (Kw)
2QJM02-0.32	0.322 / 0.16	10	16	5-400	484 / 242	13
2QJM02-0.4	0.406 / 0.203	10	16	5-320	600 / 300	13
2QJM11-0.4	0.404 / 0.202	10	16	5-400	598 / 299	20
2QJM11-0.5	0.496 / 0.248	10	16	5-320	734 / 367	20
2QJM11-0.63	0.664 / 0.332	10	16	4-250	938 / 492	20
2QJM12-0.8	0.80 / 0.40	10	16	4-250	1170 / 585	25
2QJM12-1.0	1.0 / 0.5	10	16	4-200	1478 / 739	25
2QJM12-1.25	1.25 / 0.63	10	16	4-160	1870 / 935	25
2QJM21-0.32	0.317 / 0.1585	16	25	2-250	751 / 376	32
2QJM21-0.5	0.496 / 0.248	16	25	2-320	1175 / 588	32
2QJM21-0.63	0.664 / 0.332	16	25	2-250	1572 / 786	32
2QJM21-1.0	1.01 / 0.505	10	16	2-160	1495 / 748	25
2QJM21-1.25	1.354 / 0.677	10	16	2-125	2004 / 1002	25
2QJM21-1.6	1.65 / 0.825	10	16	2-100	2442 / 1221	25
2QJM32-0.63	0.635 / 0.318	20	31.5	3-500	1880 / 940	80
2QJM32-1.0	1.06 / 0.53	20	31.5	2-400	3138 / 1519	80
2QJM32-1.25	1.295 / 0.648	20	31.5	2-320	3833 / 1917	80
2QJM32-1.6	1.649 / 0.825	20	31.5	2-250	4881 / 2441	80
2QJM32-2.0	2.03 / 1.015	16	25	2-250	4807 / 2404	80
2QJM32-2.5	2.71 / 1.355	10	16	1-160	4011 / 2006	62
2QJM32-3.2	3.3 / 1.65	10	16	1-125	4844 / 2442	62
2QJM32-4.0	4.0 / 2.0	10	16	1-100	5920 / 2960	62
2QJM42-2.0	2.11 / 1.055	20	31.5	1-320	6246 / 3123	105
2QJM42-2.5	2.56 / 1.28	20	31.5	1-250	7578 / 3789	105
2QJM42-3.2	3.24 / 1.62	10	16	1-200	4850 / 2425	90
2QJM42-4.0	4.0 / 2.0	10	16	1-160	5920 / 2960	90
2QJM42-4.5	4.6 / 2.3	10	16	1-125	6808 / 3404	90
2QJM52-2.5	2.67 / 1.335	20	31.5	1-320	7903 / 3952	130
2QJM52-3.2	3.24 / 1.62	20	31.5	1-250	9590 / 4795	130
2QJM52-4.0	4.0 / 2.0	16	25	1-200	9472 / 4736	130
2QJM52-5.0	5.23 / 2.615	10	16	1-160	7740 / 3870	120
2QJM52-6.3	6.36 / 3.18	10	16	1-125	9413 / 4707	120
2QJM62-4.0	4.0 / 2.0	20	31.5	0.5-200	11840 / 5920	150
2QJM62-5.0	5.18 / 2.59	20	31.5	0.5-160	15333 / 7667	150
2QJM62-6.3	6.27 / 3.135	16	25	0.5-125	14847 / 7424	121
2QJM62-8.0	7.85 / 3.925	10	16	0.5-100	11618 / 5809	121
2QJM62-10	10.15 / 5.075	10	16	0.5-80	15022 / 7511	121
3QJM32-1.25	1.295 / 0.648 / 0.324	20	31.5	2-320	3833 / 1917 / 959	80
3QJM32-1.6	1.649 / 0.825 / 0.413	20	31.5	2-250	4881 / 2441 / 1221	80

注：各型带支承和带阀组变量液压马达其技术参数与上表中对应的液压马达技术参数相同。
Note: The technical data of the QJM variable hydraulic motors with bearing and valve group is the same as the hydraulic motor's in the table above.



外形安装图 Installation

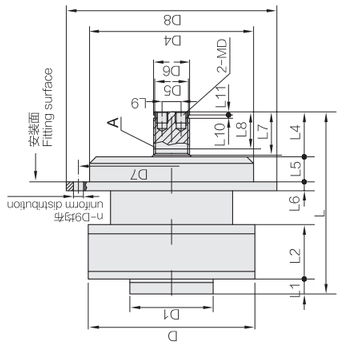


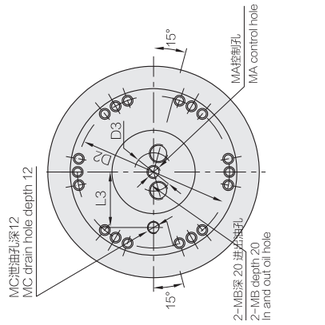
型号 Model	L	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11	D	D1	D2	D3	D4	Z-ΦK	D5	D6	MA	MB	MC	ME	α	A	重量 Weight (kg)
1QJM001-**	101	58	38	5	20	43	20	37	–	37	35	63	Φ140	–	Φ60	Φ110g6	Φ128	12-Φ6.5	–	M18×1.5	-	M12×1.5	-	-	10°	6-48H11×42H11×12D9	7
1QJM01-**	130	80	37	3	30	62	20	–	–	–	–	–	Φ180	Φ105	Φ70	Φ130g7	Φ165	12-Φ9	Φ58	-	M27×2	M14×1.5	-	-	10°	6-48H11×42H11×12D9	15
1QJM02-**	162	99	38	3	34	62	20	–	–	–	–	–	Φ180	Φ105	Φ70	Φ130g7	Φ165	12-Φ9	Φ58	-	M27×2	M14×1.5	-	-	10°	6-48H11×42H11×12D9	24
1/2QJM11-**	132	82	33	3	32	87	18	–	–	–	–	–	Φ240	Φ150	Φ110	Φ160g7	Φ220	12-Φ11	Φ69	-	M33×2	M16×1.5	M12×1.5	-	10°	6-70H11×62H11×16D9	28
1QJM11-**A	134	82	25	11	38	87	18	–	–	–	–	–	Φ240	Φ150	Φ60	Φ200g7	Φ220	12-Φ11	Φ69	-	M33×2	M16×1.5	-	-	10°	8-42H11×36H11×7D9	28
1/2QJM12-**	165	123	33	2	39	84	20	–	–	–	–	–	Φ240	Φ150	Φ110	Φ160g7	Φ220	12-Φ11	Φ69	-	M33×2	M16×1.5	M12×1.5	-	10°	6-90H11×80H11×20D9	39
1/2QJM21-** 2LSQJM21-**	168	99	29	14	38	100	20	110	–	48	58	150	Φ304	Φ150	Φ110	Φ160g7	Φ283	12-Φ11	Φ69	M33×2	M33×2	M22×1.5	-	M12×1.5	10°	6-90H11×80H11×20D9	50
1/2QJM32-** 2LSQJM32-**	215	138	43	10	55	115	22	95	–	52	71	165	Φ320	Φ165	Φ120	Φ170g7	Φ299	12-Φ13	Φ79	M33×2	M33×2	M22×1.5	-	M12×1.5	10°	10-98H11×92H11×14D9	70 78
1/2QJM42-** 2LSQJM42-**	209	160	16	12	35	124	22	151	–	105	104	204	Φ350	Φ190	Φ140	Φ200g7	Φ320	12-Φ13	Φ100	Φ40	M42×2	M22×1.5	-	M16×1.5	10°	10-112H11×102H11×16D9	90 100
1QJM42-**A	207	158	23	5	35	124	22	–	–	–	–	–	Φ340	Φ190	Φ120	Φ170g7	Φ320	12-Φ13	Φ100	-	M42×2	M22×1.5	-	-	10°	10-98H11×92H11×14D9	90
1/2QJM52-** 2LSQJM52-**	238	175	30	6	45	135	24	144	–	101	105	220	Φ420	Φ220	Φ160	Φ315g7	Φ360	6-Φ22	Φ110	Φ40	M48×2	M22×1.5	M16×1.5	M16	6°	10-120H11×112H11×18D9	150 160
1/2QJM62-** 2LSQJM62-**	264	182	29	11	45	165	24	144	–	101	123	255	Φ485	Φ255	Φ170	Φ395g7	Φ435	6-Φ22	Φ128	Φ48	M48×2	M22×1.5	-	M16×1.5	6°	10-120H11×112H11×18D9	200 212

1/2QJM**--**Z (Z2/Z3/Ze3)型液压马达技术参数
1/2QJM**--**Z (Z2/Z3/Ze3) type of hydraulic motor technical data

型 号 Model	排量 Displacement (L/r)	额定压力 Rated Pressure (Mpa)	尖峰压力 Peak Pressure (Mpa)	转速范围 Rotational Speed Range (r/min)	额定输出扭矩 Rated Output Torque (N.m)	最大功率 Max. power (Kw)
1QJM001-0.063Z	0.064	10	16	8-600	95	5
1QJM001-0.08Z	0.083	10	16	8-500	123	5
1QJM001-0.10Z(ZC)	0.104	10	16	8-400	154	5
1QJM002-0.2Z	0.2	10	16	5-320	295	8
1QJM02-0.315Z	0.326	10	16	5-320	483	13
1QJM02-0.4Z	0.406	10	16	5-320	600	13
1QJM02-0.38Z2	0.38	10	16	5-320	560	13
1QJM02-0.47Z2	0.47	10	16	5-320	692	13
1QJM11-0.315Z	0.339	10	16	5-500	468	20
1QJM11-0.4Z	0.404	10	16	5-400	598	20
1QJM11-0.5Z	0.496	10	16	5-320	734	20
1QJM11-0.63Z	0.664	10	16	4-425	983	20
1QJM12-0.8Z(ZC)	0.8	10	16	4-250	1170	25
1QJM12-1.0Z(ZC)	1.0	10	16	4-200	1480	25
1QJM12-1.25Z(ZC)	1.33	10	16	4-160	1968	25
1/2QJM21-0.32Z3	0.32 / 0.16	16	25	2-600	770 / 384	32
1/2QJM21-0.4Z3(Ze3)	0.4 / 0.2	16	25	2-400	957 / 479	32
1/2QJM21-0.5Z3(Ze3)	0.496 / 0.258	16	25	2-320	1175 / 588	32
1/2QJM21-0.63Z3(Ze3)	0.664 / 0.332	16	25	2-250	1572 / 786	32
1/2QJM21-0.8Z3(Ze3)	0.808 / 0.404	16	25	2-200	1913 / 957	32
1/2QJM21-1.0Z3(Ze3)	1.01 / 0.505	10	16	2-160	1495 / 748	25
1/2QJM21-1.25Z3(Ze3)	1.354 / 0.667	10	16	2-125	2004 / 1002	25
1/2QJM21-1.6Z3(Ze3)	1.65 / 0.825	10	16	2-100	2442 / 1221	25
1/2QJM32-0.63Z(Z3,Ze3)	0.635 / 0.318	20	31.5	3-500	1880 / 940	80
1/2QJM32-1.0Z(Z3,Ze3)	1.06 / 0.503	20	31.5	2-400	3138 / 1519	80
1/2QJM32-1.25Z(Z3,Ze3)	1.295 / 0.648	20	31.5	2-320	3833 / 1917	80
1/2QJM32-1.6Z(Z3,Ze3)	1.649 / 0.825	20	31.5	2-250	4881 / 2441	80
1/2QJM32-2.0Z(Z3,Ze3)	2.03 / 1.015	16	25	2-200	4807 / 2404	80
1/2QJM32-2.5Z(Z3,Ze3)	2.71 / 1.355	10	16	1-160	4011 / 2006	62
1/2QJM32-3.2Z(Z3,Ze3)	3.3 / 1.65	10	16	1-125	4884 / 2442	62
1/2QJM52-2.5Z	2.67 / 1.355	20	31.5	1-200	7903 / 3952	130
1/2QJM52-3.2Z	3.24 / 1.62	20	31.5	1-200	9590 / 4795	130
1/2QJM52-4.0Z	4.0 / 2.0	16	25	1-200	9472 / 4736	130
1/2QJM52-5.0Z	5.23 / 2.165	10	16	1-160	7740 / 3870	120
1/2QJM52-6.3Z	6.36 / 3.18	10	16	1-125	9413 / 4707	120
1/2QJM62-4.0Z	4.0 / 2.0	20	31.5	0.5-150	11840 / 5920	150
1/2QJM62-5.0Z	5.18 / 2.59	20	31.5	0.5-125	15333 / 7667	150
1/2QJM62-6.3Z	6.27 / 3.135	16	25	0.5-125	14847 / 7424	150
1/2QJM62-8.0Z	7.85 / 3.925	10	16	0.5-100	11618 / 5809	121
1/2QJM62-10Z	10.15 / 5.075	10	16	0.5-80	15022 / 7511	121

图2外形安装图 Installation





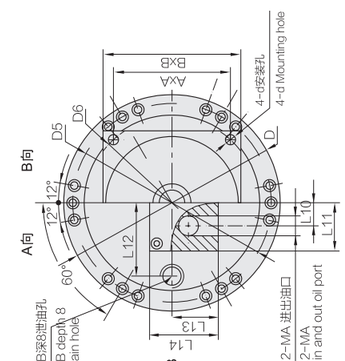


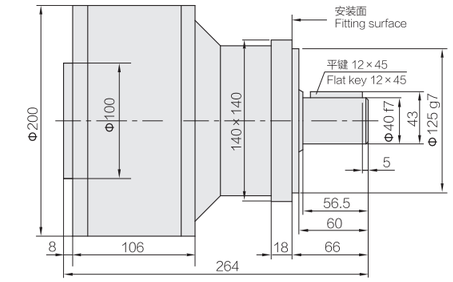
图1外形安装图 Installation

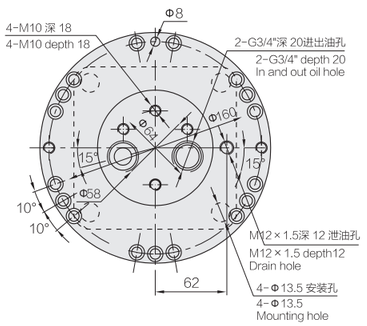
型号 Model	L	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11	L12	L13	L14	L15	D	D1	D2	D3	D4	D5	联接止口 D2	轴径 D3	D4	平键 b×L	重量 Weight (kg)
1QJM001-**Z	237	68	17	6	16	70	48	12	3	40	19	31.5	43	32	49	27.5	Φ141	Φ110	Φ75g7	Φ25h8	Φ35 H7/k6	Φ128	-	Φ11	M18×1.5	M12×1.5	70×70	90×90	8×36	10
1QJM002-**Z	257	88	17	6	16	70	48	12	3	40	19	31.5	43	32	49	27.5	Φ141	Φ110	Φ75g7	Φ25h8	Φ35 H7/k6	Φ128	-	Φ11	M18×1.5	M12×1.5	70×70	90×90	8×36	12
1QJM02-**Z	290	102	22	-	52	32	5	18	3	56.5	28	50	60	41	82	43	Φ180	-	Φ125g7	Φ40k6	Φ55	Φ165	Φ160	Φ13.5	M14×1.5	G3/4"	113×113	140×140	12×45	24
1QJM11-**Z	270	87	-	-	-	-	8	20	3	56.5	-	-	87	-	-	-	Φ240	-	Φ125g7	Φ40f7	Φ55	Φ220	Φ160	Φ13.5	M16×1.5	M33×2	113×113	142×142	12×45	40
1QJM12-**Z	485	123	46	-	-	-	10	20	30	82	35	75	87	40	70	54	Φ240	-	Φ160h7	Φ50h7	Φ60	Φ200	Φ200	Φ18	M16×1.5	G1"	141.5×141.5	178×178	14×72	70

图2

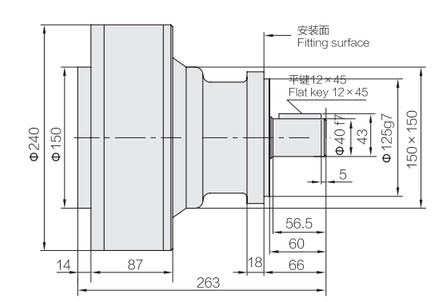
型号 Model	L	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11	D	D1	D2	D3	D4	D5	D6	D7	D8	n-D9	MA	MB	MC	MD	平键 Flat Key	花键A Spline A	重量 Weight (kg)
1 QJM21-**Z3	328	26	99	100	81	55	16	78	66	38	-	-	Φ304	Φ150	Φ283	Φ69	Φ195f9	-	Φ65f7	Φ335	Φ379	6-Φ18	M12x1.5	M33x2	M22x2	2-M12深20	C18x75	-	75
2 QJM21-**Ze3	378	26	113	100	81	38	16	78	66	38	-	-	Φ304	Φ150	Φ283	Φ69	Φ220f9	-	Φ65f7	Φ260	Φ300	6-Φ18	M12x1.5	M33x2	M22x2	2-M12深20	C18x75	-	80
1 QJM32-**Z	395	24.5	144	115	101	30	25	100	70	40	2.65	3	Φ320	Φ165	Φ299	Φ79	Φ250f7	Φ79	Φ82b11	Φ300	Φ335	6-Φ18	M12x1.5	M33x2	M22x2	2-M12深25	-	10-82b11x72b11x12f9	106
2 QJM32-**Z2	395	22	139	115	140	22	21	86	65	-	-	-	Φ320	Φ165	Φ299	Φ79	Φ340d9	Φ79	Φ92b11	Φ390	Φ430	6-Φ17	M12x1.5	M33x2	M22x2	2-M20深20	-	10-92b11x72b11x12f9	106
1 QJM32-**Ze3	446	24.5	138	115	81	55	16	78	66	-	-	-	Φ320	Φ165	Φ299	Φ79	Φ295f9	-	Φ65f7	Φ335	Φ379	6-Φ18	M12x1.5	M33x2	M22x2	中央孔M16 深25	C18x75	-	140
2 QJM32-**Z3	363.5	24.5	138	115	81	55	16	78	66	-	-	-	Φ320	Φ165	Φ299	Φ79	Φ295f9	-	Φ65f7	Φ335	Φ379	6-Φ18	M12x1.5	M33x2	M22x2	2-M12深25	C18x75	-	108
1 QJM52-**Z	516	27	176	135	131	10	30	131	131	-	-	-	Φ420	Φ220	Φ360	Φ110	Φ295f7	-	Φ78h7	Φ340	Φ370	8-Φ20	M16x1.5	M48x2	M22x2	中央孔M16 深40	C22x132	-	190
2 QJM62-**Z	487	42	162	165	157	5	20	155	152	-	-	-	Φ485	Φ255	Φ435	Φ128	Φ400f8	-	Φ160h7	Φ490	Φ530	8-Φ22	M16x1.5	M48x2	M22x2	-	A25.4x120	-	240

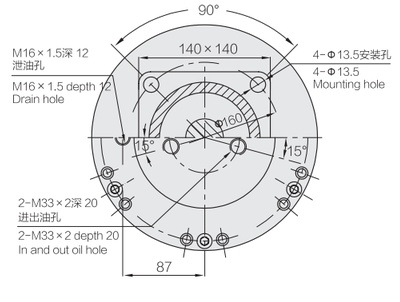
1QJM02-**Z2 外形安装图 Installation



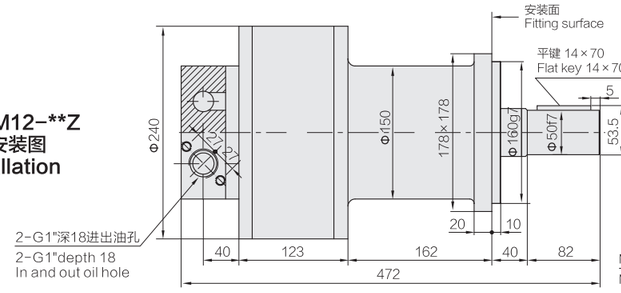


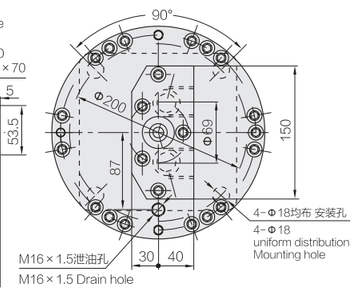
QJM11-Z 外形安装图 Installation



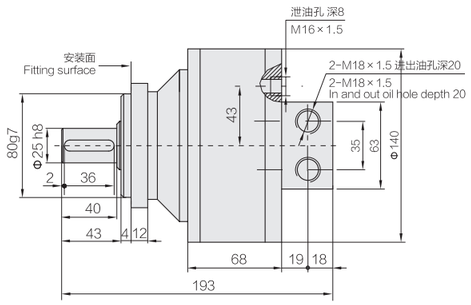


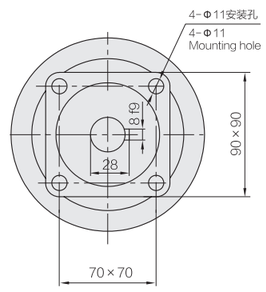
1QJM12-**Z 外形安装图 Installation





1QJM001-0.1Z 外形安装图 Installation





1/2 QJM**-**S型自控式带制动器液压马达技术参数

Technical data of 1/2QJM**-**S series hydraulic motor with brake

型 号 Model	排量 Displacement (L/r)	额定压力 Rated Pressure (Mpa)	尖峰压力 Peak Pressure (Mpa)	转速范围 Rotational Speed Range (r/min)	额定输出扭矩 Rated Output Torque (N.m)	制动器开启压力 Open brake Pressure (MPa)	制动器 制动扭矩 Brake torque (N.m)
1QJM11-0.32S	0.317	10	16	5-400	468	4~6	400~600
1QJM11-0.40S	0.404	10	16	5-400	598	3~5	400~600
1QJM11-0.50S	0.496	10	16	5-320	734	3~5	400~600
1QJM11-0.63S	0.664	10	16	4-250	983	3~5	400~600
2QJM11-0.40S	0.404 / 0.202	10	16	5-400	598 / 299	3~5	400~600
2QJM11-0.50S	0.496 / 0.248	10	16	5-320	734 / 367	3~5	400~600
2QJM11-0.63S	0.664 / 0.332	10	16	4-250	983 / 492	3~5	400~600
1QJM21-0.32S	0.317	16	25	2-500	751	4~6	1000~1400
1QJM21-0.40S	0.404	16	25	2-400	957	4~6	1000~1400
1QJM21-0.50S	0.496	16	25	2-320	1175	4~6	1000~1400
1QJM21-0.63S	0.664	16	25	2-250	1572	4~6	1000~1400
1QJM21-0.8S	0.808	16	25	2-200	1913	4~6	1000~1400
1QJM21-1.0S	1.01	10	16	2-160	1495	3~5	1000~1400
1QJM21-1.25S	1.354	10	16	2-125	2004	3~5	1000~1400
1QJM21-1.6S	1.65	10	16	2-100	2442	3~5	1000~1400
2QJM21-0.32S	0.317 / 0.1585	16	25	2-500	751 / 376	4~7	1000~1400
2QJM21-0.40S	0.404 / 0.202	16	25	2-400	957 / 479	4~7	1000~1400
2QJM21-0.50S	0.496 / 0.248	16	25	2-320	1175 / 588	4~7	1000~1400
2QJM21-0.63S	0.664 / 0.332	16	25	2-250	1572 / 786	4~7	1000~1400
2QJM21-0.8S	0.808 / 0.404	16	25	2-200	1913 / 957	4~7	1000~1400
2QJM21-1.0S	1.01 / 0.505	10	16	2-160	1495 / 748	3~5	1000~1400
2QJM21-1.25S	1.354 / 0.667	10	16	2-125	2004 / 1002	3~5	1000~1400
2QJM21-1.6S	1.65 / 0.825	10	16	2-100	2442 / 1221	3~5	1000~1400

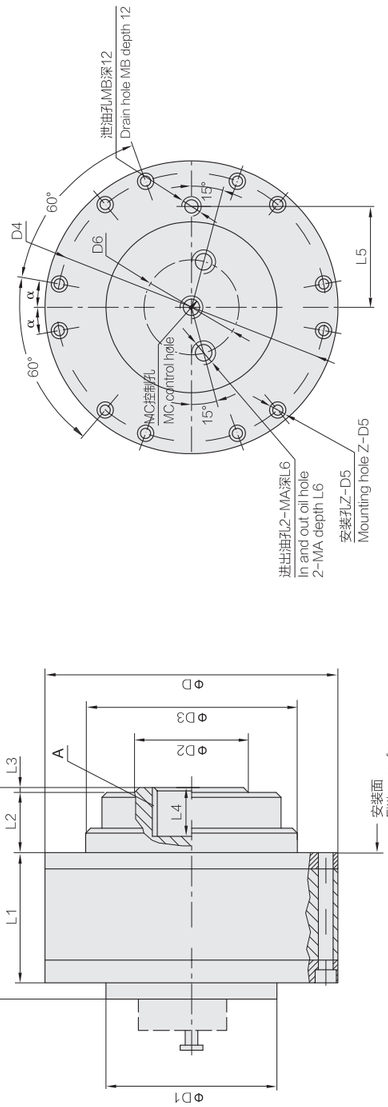
QJM

1/2 QJM**-**S型自控式带制动器液压马达技术参数

Technical data of 1/2QJM**-**S series hydraulic motor with brake

型 号 Model	排量 Displacement (L/r)	额定压力 Rated Pressure (Mpa)	尖峰压力 Peak Pressure (Mpa)	转速范围 Rotational Speed Range (r/min)	额定输出扭矩 Rated Output Torque (N.m)	制动器开启压力 Open brake Pressure (MPa)	制动器 制动扭矩 Brake torque (N.m)
1/2 QJM32-0.63S	0.635 / 0.318	20	31.5	3-300	1880	4~7	≥2500
1/2 QJM32-0.8S	0.808 / 0.404	20	31.5	3-250	2368	4~7	≥2500
1/2 QJM32-1.0S	1.06 / 0.53	20	31.5	2-250	3138	4~7	≥2500
1/2 QJM32-1.25S	1.295 / 0.648	20	31.5	2-200	3833	3~5	≥2500
1/2 QJM32-1.6S	1.649 / 0.825	20	31.5	2-200	4881	3~5	≥2500
1/2 QJM32-2.0S	2.03 / 1.015	16	25	2-200	4807	3~5	≥2500
1/2 QJM32-2.5S	2.71 / 1.355	10	16	1-160	4011	3~5	≥2500
1/2 QJM32-3.2S	3.3 / 1.65	10	16	1-125	4884	3~5	≥2500
1/2 QJM32-4.0S	4.0 / 2.00	10	16	1-100	5920	3~5	≥2500
1/2 QJM32-0.63S2	0.635 / 0.318	20	31.5	3-500	1880	4~7	≥4000
1/2 QJM32-0.8S2	0.808 / 0.404	20	31.5	3-400	2368	4~7	≥4000
1/2 QJM32-1.0S2	0.993 / 0.497	20	31.5	2-400	3138	4~7	≥4000
1/2 QJM32-1.25S2	1.295 / 0.648	20	31.5	2-320	3833	3~5	≥4000
1/2 QJM32-1.6S2	1.649 / 0.825	20	31.5	2-250	4881	3~5	≥4000
1/2 QJM32-2.0S2	2.03 / 1.015	16	25	2-200	4807	3~5	≥4000
1/2 QJM32-2.5S2	2.71 / 1.355	10	16	1-160	4011	3~5	≥4000
1/2 QJM32-3.2S2	3.3 / 1.65	10	16	1-125	4884	3~5	≥4000
1/2 QJM32-4.0S2	4.0 / 2.0	10	16	1-100	5920	3~5	≥4000
1/2 QJM42-2.0S	2.11 / 1.055	20	31.5	1-250	6246	4~7	≥5000
1/2 QJM42-2.5S	2.56 / 1.28	20	31.5	1-250	7578	4~7	≥5000
1/2 QJM42-3.2S	3.28 / 1.64	10	16	1-200	4850	4~6	≥5000
1/2 QJM42-4.0S	4.0 / 2.0	10	16	1-160	5920	3~5	≥5000
1/2 QJM42-4.5S	4.56 / 2.28	10	16	1-125	6808	3~5	≥5000
1/2 QJM52-2.5S	2.67 / 1.335	20	31.5	1-200	7903	4~7	≥6000
1/2 QJM52-3.2S	3.24 / 1.62	20	31.5	1-200	9590	4~7	≥6000
1/2 QJM52-4.0S	4.0 / 2.0	16	25	1-200	9472	4~6	≥6000
1/2 QJM52-5.0S	5.23 / 2.615	16	25	1-160	7740	3~5	≥6000
1/2 QJM52-6.3S	6.36 / 3.18	16	25	1-125	9413	3~5	≥6000

GM NHM 配流盘 QJM



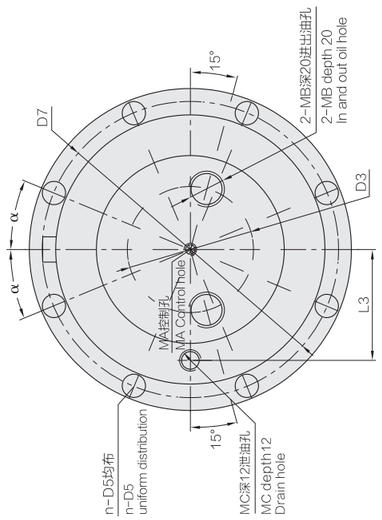
外形安装图 Installation

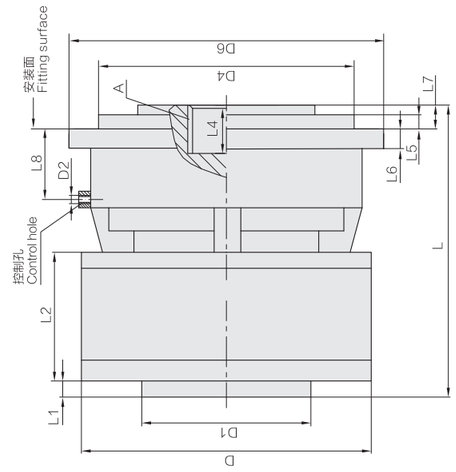
型号 Model	L	L1	L2	L3	L4	L5	L6	D	D1	D2	D3	D4	Z-D5	D6	MA	MB	MC	α	A	重量 Weight (kg)
1/2 QJM11-**S	146.5	97	20	11.5	28	87	20	Φ240	Φ150	Φ100	Φ160g7	Φ220	12-Φ11	Φ69	M33x2	M16x1.5	M12x1.5	10°	6-70H11x62H11x16D9	35
1/2 QJM21-**S	170	117	17	7	31	100	20	Φ304	Φ150	Φ100	Φ160g7	Φ220	12-Φ11	Φ69	M33x2	M22x1.5	M12x1.5	10°	6-90H11x80H11x20D9	53
1/2 QJM32-**S	231	140	58	3	55	115	20	Φ320	Φ165	Φ170	Φ280g7	Φ299	12-Φ13	Φ79	M33x2	M22x1.5	M12x1.5	10°	10-98H11x92H11x14D9	86
1/2 QJM32-**S2	252	167.5	58	3	55	115	20	Φ320	Φ165	Φ170	Φ280g7	Φ299	12-Φ13	Φ79	M33x2	M22x1.5	M12x1.5	10°	10-98H11x92H11x14D9	86
1/2 QJM42-**S	229	187	16	3	35	124	22	Φ350	Φ190	Φ140	Φ200g7	Φ320	12-Φ13	Φ100	M42x2	M22x1.5	M12x1.5	10°	10-112H11x102H11x16D9	108
1/2 QJM52-**S	266	187	56	3	55	135	24	Φ420	Φ220	Φ160	Φ315g7	Φ360	10-Φ22	Φ110	M48x2	M22x1.5	M12x1.5	6°	10-120H11x112H11x18D9	167

1/2 QJM**--**Se型外控式带制动器液压马达技术参数
Technical data of out control 1/2 QJM**--**Se series hydraulic motor with brake

型 号 Model	排量 Displacement (L/r)	额定压力 Rated Pressure (Mpa)	尖峰压力 Peak Pressure (Mpa)	转速范围 Rotational Speed Range (r/min)	额定输出扭矩 Rated Output Torque (N.m)	制动器开启压力 Open brake Pressure (MPa)	制动器 制动扭矩 Brake torque (N.m)
1QJM12-0.8Se	0.808	10	16	4-250	1076	1.3≤P≤6.3	≥1800
1QJM12-1.0Se	0.993	10	16	4-200	1332	1.3≤P≤6.3	≥1800
1QJM12-1.25Se	1.328	10	16	4-160	1771	1.3≤P≤6.3	≥1800
1/2 QJM21-0.32Se	0.317 / 0.158	16	25	2-500	751 / 376	2.5≤P≤6.3	≥2500
1/2 QJM21-0.40Se	0.404 / 0.202	16	25	2-400	957 / 479	2.5≤P≤6.3	≥2500
1/2 QJM21-0.50Se	0.496 / 0.248	16	25	2-320	1175 / 588	2.5≤P≤6.3	≥2500
1/2 QJM21-0.63Se	0.664 / 0.332	16	25	2-250	1572 / 786	2.5≤P≤6.3	≥2500
1/2 QJM21-0.80Se	0.808 / 0.404	16	25	2-200	1913 / 957	2.5≤P≤6.3	≥2500
1/2 QJM21-1.0Se	1.01 / 0.505	10	16	2-160	1495 / 748	2.5≤P≤6.3	≥2500
1/2 QJM21-1.25Se	1.354 / 0.677	10	16	2-125	2004 / 1002	2.5≤P≤6.3	≥2500
1/2 QJM21-1.6Se	1.65 / 0.825	10	16	2-100	2442 / 1221	2.5≤P≤6.3	≥2500
1/2 QJM32-0.63Se	0.635 / 0.318	20	31.5	1-500	1880 / 940	2.5≤P≤6.3	≥6000
1/2 QJM32-0.8Se	0.808 / 0.404	20	31.5	1-500	2368 / 1184	2.5≤P≤6.3	≥6000
1/2 QJM32-1.0Se	0.993 / 0.497	20	31.5	2-400	3138 / 1569	2.5≤P≤6.3	≥6000
1/2 QJM32-1.25Se	1.328 / 0.664	20	31.5	2-320	3833 / 1942	2.5≤P≤6.3	≥6000
1/2 QJM32-1.6Se	1.616 / 0.808	20	31.5	2-250	4881 / 2441	2.5≤P≤6.3	≥6000
1/2 QJM32-2.0Se	2.03 / 1.015	16	25	2-200	4807 / 2404	2.5≤P≤6.3	≥6000
1/2 QJM32-2.5Se	2.71 / 1.355	10	16	1-160	4011 / 2006	2.5≤P≤6.3	≥6000
1/2 QJM32-3.2Se	3.3 / 1.65	10	16	1-125	4884 / 2442	2.5≤P≤6.3	≥6000
1/2 QJM32-4.0Se	4.0 / 2.0	10	16	1-100	5920 / 2960	2.5≤P≤6.3	≥6000
1/2 QJM42-2.0Se	2.11 / 1.055	20	31.5	1-250	6246 / 3123	2.1≤P≤6.3	≥9000
1/2 QJM42-2.5Se	2.56 / 1.28	20	31.5	1-250	7578 / 3789	2.1≤P≤6.3	≥9000
1/2 QJM42-3.2Se	3.3 / 1.65	10	16	1-200	4884 / 2442	2.1≤P≤6.3	≥9000
1/2 QJM42-4.0Se	4.0 / 2.0	10	16	1-160	5920 / 2960	2.1≤P≤6.3	≥9000
1/2 QJM42-4.5Se	4.56 / 2.28	10	16	1-125	6808 / 3404	2.1≤P≤6.3	≥9000
1/2 QJM52-2.5Se	2.67 / 1.355	20	31.5	1-200	7903 / 3952	2.2≤P≤6.3	≥10000
1/2 QJM52-3.2Se	3.24 / 1.62	20	31.5	1-200	9590 / 4795	2.2≤P≤6.3	≥10000
1/2 QJM52-4.0Se	4.0 / 2.0	16	25	1-200	9472 / 4736	2.2≤P≤6.3	≥10000
1/2 QJM52-5.0Se	5.23 / 2.615	10	16	1-160	7740 / 3870	2.2≤P≤6.3	≥10000
1/2 QJM52-6.3Se	6.36 / 3.18	10	16	1-125	9413 / 4707	2.2≤P≤6.3	≥10000

外形安装图 Installation





型号 Model	L	L1	L2	L3	L4	L5	L6	L7	L8	D	D1	D2	D3	D4	Z-D5	D6	D7	MA	MB	MC	α	A	重量 Weight (kg)
1QJM12-**Se	288	17	121	87	60	12	13	25	33	Φ240	Φ150	M16x1.5	Φ69	Φ290g7	8-Φ11	Φ327	Φ307	-	2-M33x2	M16x1.5	22.5°	6-90H11x80H11x20D9	50
½QJM21-**Se	245	27	102	100	60	18.5	16	24	36	Φ304	Φ150	M18x1.5	Φ69	Φ310g7	8-Φ13	Φ360	Φ330	M12x1.5	2-M33x2	M22x1.5	22.5°	6-90H11x80H11x20D9	95
½QJM32-**Se	271	24	140	115	55	13	16	19	35	Φ320	Φ165	M16x1.5	Φ79	Φ335g7	8-Φ13	Φ380	Φ354	M12x1.5	2-M33x2	M22x1.5	15°	10-98H11x92H11x14D9	120
½QJM42-**Se	278	21	160	124	35	15	18	22	45	Φ350	Φ190	M16x1.5	Φ100	Φ395f6	12-Φ17	Φ445	Φ418	M16x1.5	2-M42x2	M22x1.5	15°	10-112H11x102H11x16D9	150
½QJM52-**Se	318	27	175	135	45	17	18	22	45	Φ420	Φ220	M16x1.5	Φ110	Φ395f6	12-Φ17	Φ445	Φ418	M16x1.5	2-M48x2	M22x1.5	15°	10-120H11x112H11x18D9	200

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½QJM**--**SeZ(SeZH)型外控式带制动器液压马达技术参数

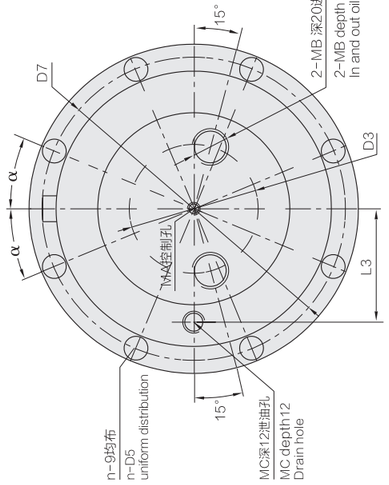
Technical data of out control ½QJM**--**SeZ(SeZH) series hydraulic motor with brake

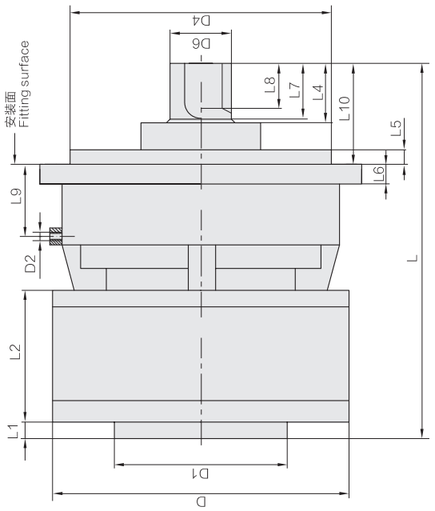
型 号 Model	排量 Displacement (L/r)	额定压力 Rated Pressure (Mpa)	尖峰压力 Peak Pressure (Mpa)	转速范围 Rotational Speed Range (r/min)	额定输出扭矩 Rated Output Torque (N.m)	制动器开启压力 Open brake Pressure (MPa)	制动器制动扭矩 Brake torque (N.m)
1QJM12-0.8SeZ	0.808	10	16	4-250	1076	1.3≤P≤6.3	≥1800
1QJM12-1.0SeZ	0.993	10	16	4-200	1332	1.3≤P≤6.3	≥1800
1QJM12-1.25SeZ	1.328	10	16	4-160	1771	1.3≤P≤6.3	≥1800
½QJM21-0.32SeZ	0.317 / 0.158	16	25	2-500	751 / 376	2.5≤P≤6.3	≥2500
½QJM21-0.40SeZ	0.404 / 0.202	16	25	2-400	957 / 478	2.5≤P≤6.3	≥2500
½QJM21-0.50SeZ	0.496 / 0.248	16	25	2-320	1175 / 588	2.5≤P≤6.3	≥2500
½QJM21-0.63SeZ	0.664 / 0.332	16	25	2-250	1572 / 786	2.5≤P≤6.3	≥2500
½QJM21-0.80SeZ	0.808 / 0.404	16	25	2-200	1913 / 956	2.5≤P≤6.3	≥2500
½QJM21-1.0SeZ	1.01 / 0.505	10	16	2-160	1495 / 748	2.5≤P≤6.3	≥2500
½QJM21-1.25SeZ	1.354 / 0.677	10	16	2-125	2004 / 1002	2.5≤P≤6.3	≥2500
½QJM21-1.6SeZ	1.65 / 0.825	10	16	2-100	2442 / 1221	2.5≤P≤6.3	≥2500
½QJM32-0.63SeZ	0.635 / 0.318	20	31.5	3-500	1880 / 940	2.5≤P≤6.3	≥6000
½QJM32-0.8SeZ	0.808 / 0.404	20	31.5	3-500	2368 / 1184	2.5≤P≤6.3	≥6000
½QJM32-1.0SeZ	0.993 / 0.497	20	31.5	2-400	3138 / 1519	2.5≤P≤6.3	≥6000
½QJM32-1.25SeZ	1.328 / 0.664	20	31.5	2-320	3833 / 1917	2.5≤P≤6.3	≥6000
½QJM32-1.6SeZ	1.616 / 0.808	20	31.5	2-250	4881 / 2441	2.5≤P≤6.3	≥6000
½QJM32-2.0SeZ	2.03 / 1.015	16	25	2-200	4807 / 2404	2.5≤P≤6.3	≥6000
½QJM32-2.5SeZ	2.71 / 1.355	10	16	4-160	4011 / 2006	2.5≤P≤6.3	≥6000
½QJM32-3.2SeZ	3.3 / 1.65	10	16	1-125	4884 / 2442	2.5≤P≤6.3	≥6000
½QJM32-4.0SeZ	4.0 / 2.0	10	16	1-100	5920 / 2960	2.5≤P≤6.3	≥6000
½QJM42-2.0SeZ	2.11 / 1.055	20	31.5	1-320	6246 / 3123	2.1≤P≤6.3	≥9000
½QJM42-2.5SeZ	2.56 / 1.28	20	31.5	1-125	7578 / 3789	2.1≤P≤6.3	≥9000
½QJM42-3.2SeZ	3.3 / 1.65	10	16	1-200	4884 / 2442	2.1≤P≤6.3	≥9000
½QJM42-4.0SeZ	4.0 / 2.0	10	16	1-160	5920 / 2960	2.1≤P≤6.3	≥9000
½QJM42-4.5SeZ	4.56 / 2.28	10	16	1-125	6808 / 3404	2.1≤P≤6.3	≥9000
½QJM52-2.5SeZ	2.67 / 1.355	20	31.5	1-320	7903 / 3952	-	-
½QJM52-3.2SeZ	3.24 / 1.62	20	31.5	1-250	9590 / 4795	-	-
½QJM52-4.0SeZ	4.0 / 2.0	16	25	1-200	9472 / 4736	-	-
½QJM52-5.0SeZ	5.23 / 2.615	10	16	1-160	7740 / 3870	-	-
½QJM52-6.3SeZ	6.36 / 3.18	10	16	1-125	9413 / 4707	-	-

注：½QJM**-SeZH的技术参数与上表中相应排量的液压马达技术参数相同

Note: Technical data of ½QJM**-**SeZH hydraulic motor have the same data as ½QJM**-**SeZ hydraulic motors.

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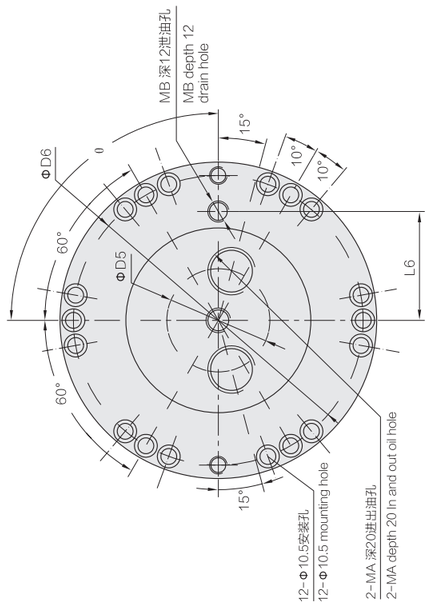


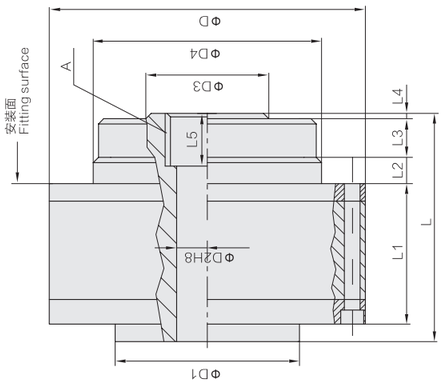
外形安装图 Installation

型号 Model	L	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	D	D1	D2	D3	D4	D6	D7	D8	n-D9	MA	MB	MC	α	平键 Flat key	花键 Spline A	重量 Weight (kg)
1QJM12-**SeZ	350	17	121	87	60	10	13	62	-	24	96	Φ240	Φ150	M16x1.5	Φ69	Φ250g7	Φ60h7	Φ265	Φ285	8-Φ11	-	2-M33x2	M16x1.5	22.5°	C18x60	-	60
1QJM12-**SeZH	370	17	121	87	62	12	16	58	39	24	100	Φ240	Φ150	M16x1.5	Φ69	Φ290g7	-	Φ307	Φ327	8-Φ11	-	2-M33x2	M16x1.5	22.5°	-	6-90b12x80b12x20d9	60
1QJM21-**SeZ	410	27	102	100	69.5	14	16	65	-	36	113	Φ304	Φ150	M18x1.5	Φ69	Φ310g7	Φ70h7	Φ330	Φ360	8-Φ13	M12x1.5	2-M33x2	M22x1.5	22.5°	C20x60	-	8
1/2QJM32-**SeZ	446	24	140	115	81	13	16	78	-	35	136	Φ320	Φ165	M16x1.5	Φ79	Φ335g7	Φ70h7	Φ354	Φ380	12-Φ13	M12x1.5	2-M33x2	M22x1.5	15°	C20x70	-	95
1/2QJM32-**SeZH	440	24	140	115	75	13	16	72	55	35	114	Φ320	Φ165	M16x1.5	Φ79	Φ335g7	-	Φ354	Φ380	12-Φ13	M12x1.5	2-M33x2	M22x1.5	15°	-	10-98b12-92b12x14d9	95
1/2QJM42-**SeZ	466	21	160	124	75	12	18	71	50	44	135	Φ350	Φ190	M16x1.5	Φ100	Φ365g7	-	Φ398	Φ430	12-Φ17	M16x1.5	2-M42x2	M22x1.5	15°	-	10-112b12x102b12x16d9	120
1/2QJM42-**SeZH	456	21	160	124	75	15	18	71	50	37	120	Φ350	Φ190	M16x1.5	Φ100	Φ365g7	-	Φ398	Φ430	12-Φ17	M16x1.5	2-M42x2	M22x1.5	15°	-	10-112b12x102b12x16d9	120
1/2QJM52-**SeZ	532	27	175	135	141	17	18	136	-	45	184	Φ420	Φ220	M16x1.5	Φ110	Φ395f6	Φ78h7	Φ418	Φ445	12-Φ17	M16x1.5	2-M48x2	M22x1.5	15°	C22x132	-	120
1/2QJM52-**SeZ	471	27	175	135	71	17	18	-	45	45	114	Φ420	Φ220	M16x1.5	Φ110	Φ395f6	-	Φ418	Φ445	12-Φ17	M16x1.5	2-M48x2	M22x1.5	15°	-	12-120b12x112b12x20d9	150

1/2QJM**--**T**型通孔液压马达技术参数
1/2QJM**--**T** series technical data

型 号 Model	排量 Displacement (L/r)	额定压力 Rated Pressure (Mpa)	尖峰压力 Peak Pressure (Mpa)	转速范围 Rotational Speed Range (r/min)	额定输出扭矩 Rated Output Torque (N.m)	通孔直径 Through hole dia (mm)
1QJM01-0.1T40	0.1	10	16	8-800	148	40
1QJM01-0.16T40	0.163	10	16	8-630	241	40
1QJM01-0.2T40	0.203	10	16	8-500	300	40
1QJM11-0.32T50	0.317	10	16	5-400	468	50
1QJM11-0.4T50	0.404	10	16	5-400	598	50
1QJM11-0.5T50	0.5	10	16	5-320	734	50
1/2QJM21-0.32T65	0.317 / 0.159	16	25	2-500	751 / 376	65
1/2QJM21-0.5T65	0.496 / 0.248	16	25	2-320	1175 / 588	65
1/2QJM21-0.63T65	0.664 / 0.332	16	25	2-250	1572 / 786	65
1/2QJM21-1.0T65	1.01 / 0.505	10	16	2-160	1495 / 748	65
1/2QJM21-1.25T65	1.354 / 0.677	10	16	2-125	2004 / 1002	65
1/2QJM32-0.63T75	0.635 / 0.318	20	25	1-500	1880 / 940	75
1/2QJM32-1.0T75	1.06 / 0.53	20	25	1-400	3138 / 1569	75
1/2QJM32-1.25T75	1.30 / 0.65	20	25	2-320	3833 / 1917	75
1/2QJM32-2.0T75	2.03 / 1.02	16	25	2-200	4807 / 2404	75
1/2QJM32-2.5T75	2.71 / 136	10	16	1-160	4011 / 2006	75
1/2QJM42-2.5T80	2.56 / 1.26	20	31.5	1-250	7578 / 3789	80
1/2QJM52-3.2T80	3.24 / 1.62	20	31.5	1-250	9690 / 4795	80
1/2QJM52-4.0T80	4.0 / 2.0	16	25	1-200	9472 / 4736	80
1/2QJM52-5.0T80	5.23 / 2.615	10	16	1-160	7740 / 3870	80
1/2QJM52-6.3T80	6.36 / 3.18	10	16	1-125	9413 / 4707	80
1/2QJM62-4.0T125	4.0 / 2.0	20	31.5	0.5-150	11840 / 5920	125
1/2QJM62-5.0T125	5.18 / 2.59	20	31.5	0.5-125	15333 / 7667	125
1/2QJM62-6.3T125	6.27 / 3.135	16	25	0.5-125	14847 / 7424	125
1/2QJM62-8.0T125	7.85 / 3.925	10	16	0.5-100	11618 / 5809	125
1/2QJM62-10T125	10.15 / 5.057	10	16	0.5-80	15022 / 7501	125

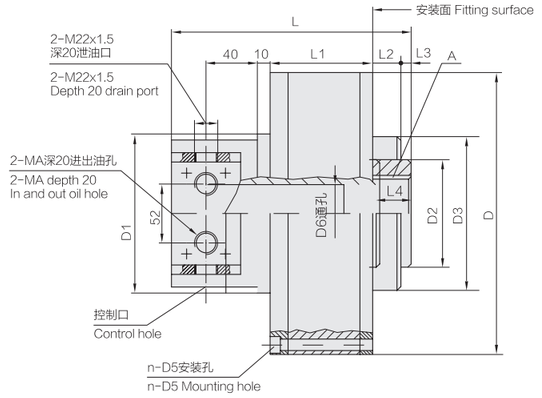


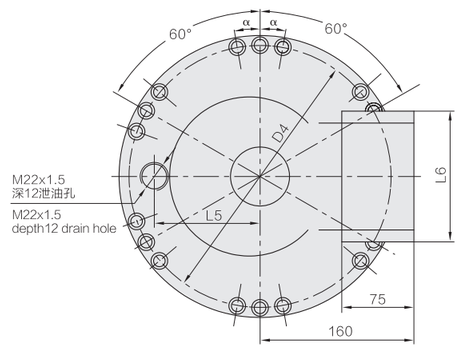


型号 Model	L	L1	L2	L3	L4	L5	L6	θ	D	D1	D2	D3	D4	D5	D6	MA	MB	A	重量 Weight (kg)
1QJM01-**T40	130	79	15	23	3	30	53	180°	Φ180	Φ130	Φ40	Φ110	Φ130g6	Φ70	Φ65	M22×1.5	M12×1.5	6-48H11×42H11×12D9	15
1QJM11-**T50	139	87	16	17	3	28	87	90°	Φ240	Φ150	Φ50	Φ100	Φ160g6	Φ80	Φ220	M22×1.5	M16×1.5	6-70H11×62H11×16D9	26

外形安装图 Installation

外形安装图 Installation

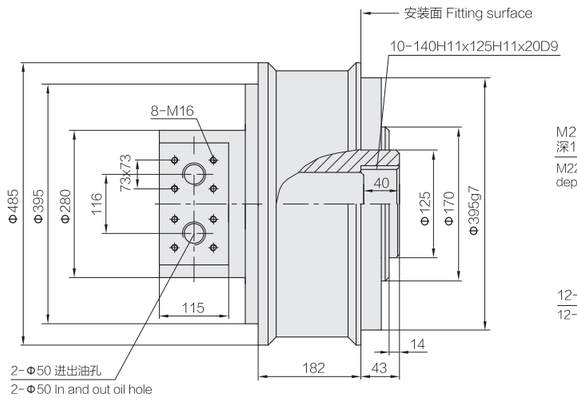


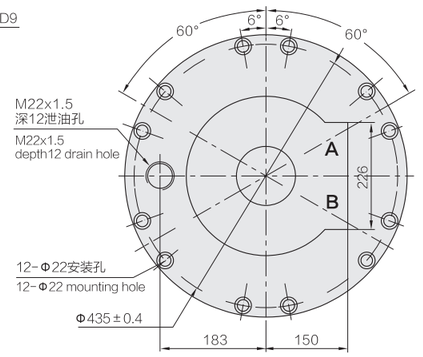


型号 Model	L	L1	L2	L3	L4	L5	L6	D	D1	D2	D3	D4	n-D5	D6	MA	α	A	重量 Weight (kg)
1/2 QJM21-**T50	229	99	29	14	36	100	156	Φ300	Φ178	Φ110	Φ160g6	Φ283	10-Φ11	Φ50	M27x2	10°	10-98H11x92H11x14D9	60
1/2 QJM21-**T65	230	98	29	14	37	110	146	Φ304	Φ186	Φ110	Φ160g6	Φ283	10-Φ11	Φ65	M33x2	10°	10-98H11x92H11x14D9	64
1/2 QJM32-**T75	273	138	43	10	41	115	146	Φ320	Φ186	Φ120	Φ170g6	Φ299	10-Φ13	Φ75	M33x2	10°	10-98H11x92H11x14D9	88
1/2 QJM42-**2.5T80	292	160	16	30	40	124	146	Φ350	Φ190	Φ140	Φ200h8	Φ320	10-Φ13	Φ80	M33x2	10°	10-112H11x102H11x16D9	120
1/2 QJM52-**2.5T80	367	175	30	24	45	135	190	Φ420	Φ220	Φ160	Φ315g7	Φ360	6-Φ22	Φ80	M48x2	6°	10-120H11x112H11x18D9	162

注：2QJM52-2.5T80 马达控制口泄油口与上图所示对调
Note: in the pictured above, the 2QJM52-2.5T80 motor's control port and drainage port should exchange with each other.

1QJM62-**T125 型马达外形安装图 Installation
































OUSHIJIE 欧士杰

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