

Product Manual

液压转向器/马达 Hydraulic steering gear/motor

101 / 060 / BMR / BMP / BMM / BMH / BMS / BMT / BMER

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www.shangjiayeya.com

上甲智控液压

领先的技术 一站式服务

上海上甲智控液压有限公司，是由KYDAC控股的企业。作为KYDAC旗下的重要组成部分，我公司成立于2007年，占地4万多平方米，建设面积达2万平方米。我们汇聚了一支由多位高级液压工程师组成的专业团队，专注于液压传动、液压冷却和液压动力领域，秉承着卓越的专业能力。

Leading technology one-stop service

Shanghai Shangjia Zhikong Hydraulic Co., Ltd. is an enterprise controlled by KYDAC. As an important part of KYDAC, our company was established in 2007, covering an area of more than 40,000 square meters, with a construction area of 20,000 square meters. We have a professional team of senior hydraulic engineers, focusing on the fields of hydraulic transmission, hydraulic cooling and hydraulic power, adhering to the outstanding professional capabilities.



创新引领未来

上甲智控液压专注于为全球工程机械、农业机械等领域的行业用户提供优质液压元件及成套液压系统解决方案。不断为客户提供新的产品和技术，为客户创造价值。

Innovation leads the future

Shangjia Hydraulic focuses on providing high-quality hydraulic components and complete hydraulic system solutions to industry users in the fields of engineering machinery, agricultural machinery, and other fields worldwide. Continuously providing customers with new products and technologies to create value for them.



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HYDRAULIC STEERING GEAR

< 液压转向器



101S-1、2、3、4系列全液压转向器

101S-1, 2, 3, 4 Series Hydraulic Steering Control Units (SCU)

10 series full hydraulic steering body is integrated structure, the product can be integrated cartridge valve, such as: integrated system pressure control valve.

10 series products are widely used in a variety of industrial and agricultural self-propelled machinery and ship steering system, to achieve less input force, control the greater resistance of the steering cylinder action; Easy to operate, flexible, safe and reliable; The integrated check valve prevents the reverse flow of the system pressure oil and prevents the operation "beater" phenomenon; The integrated pressure control valve enables the control of the working pressure buffer pressure of the steering system.

The connection dimensions of the 10 series products meet international standards. 10 series products can be divided into two series of 6/7 tooth structure and 4/5 tooth structure according to the structure of the rotor meshing pair.

6/7 tooth structure series: divided into 101, 102, 103 series according to the connection size.

10 series products are integrated with inlet check valves; Each series can be divided into two series according to whether the pressure valve is integrated, that is, default and with S; By default, it means no integrated pressure valve, and S means integrated pressure valve. For open-core non-reactive products, integrated safety valve and buffer valve are represented by code 1, and only integrated safety valve is represented by code 4.



主要技术参数 Main Specification

Parameters	Type 101S — * — *** — ** — *										
Function Code	1, 2, 3, 4							1, 4			
Displacement(mL/r)	50	63	80	100	125	160	200	250	280	315	400
Rated flow(L/min)	5	6	8	10	12.5	16	20	20	28	32	40
Max.input pressure(MPa)	17.5										
Relief Valve Pressure Settings(MPa)	06,07,08,10,12,14,15,16,17.5										
Shock Valve Pressure Settings(MPa)	12,13,14,16,18,20,21,22,23.5										
Max.cont.back pressure(MPa)	2.5										
Weight(kg)	5.75	5.81	5.89	5.96	6.1	6.3	6.5	6.73	6.91	7.1	7.5
Dimension L(mm)	130	132	133	136	139	144	149	155	160	165	175

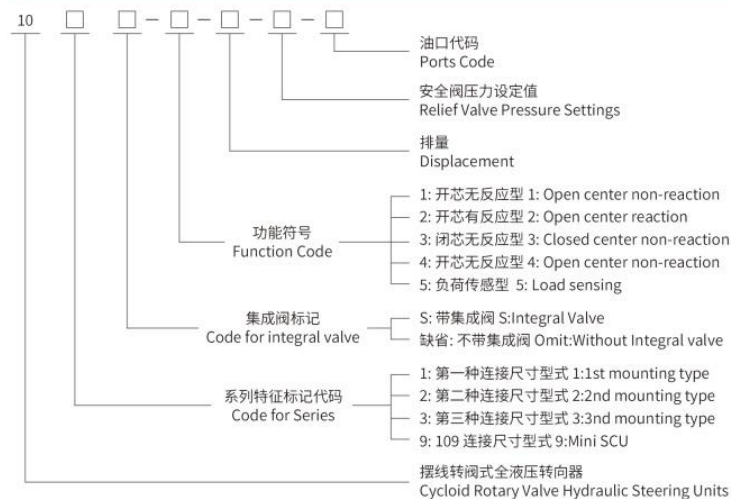
Note: L is the maximum length dimension of product. This dimension on some products may 2mm or 4mm shorter.

油口螺纹 Ports Threads

代码 Code	P、T、L、R 油口 Oil ports P,T,L,R	连接螺纹 C Connection thread C	连接螺纹 V Connection thread V
A	M20x1.5	M10	M12
B	M20x1.5 O-ring		
C	M18x1.5		
D	M18x1.5 O-ring		M10x1
E	G1/2		
U	G1/2 O-ring		M12
M	3/4-16 UNC O-ring	3/8-16 UNC	3/8-24 UNF
F		M10	M10
I		M10x1.25	
N			

注1: 油口P、T、L、R的深度15mm, 连接螺纹C、V的深度16mm. Note 1: Ports P,T,L,R Depth:15mm; Connection thread C&V Depth:16mm.
注2: 其他油口连接方式协议确定代号. Note 2: Protocol determination code for other oil port connection methods.

产品订单编号 Order Code



应用举例:

101S系列转向器, 开芯无反应, 排量125mL/r, 入口有单向阀, 安全阀压力10MPa, 缓冲阀压力16MPa, 四油口螺纹为 G1/2, 平面密封, 转向柱法兰连接螺纹 M10。
转向器订货编号为: 101S-1-125-10-E

For example:

Order code
101S-1-125-10-E

Ports: P,T,L,R G1/2;
Column Mounting Thread C M10
Relief Valve Pressure Settings: 10MPa;
Shock Valves Pressure Settings: 16MPa
Displacement: 125 mL/r
Open Center Non-Reaction

101(S)-5(T)(TE)(L)(E)(TX)系列全液压转向器

101(S)-5(T)(TE)(L)(E)(TX) Series Hydraulic Steering Control Units (SCU)

The 101(S)-5(T)(TE)(L)(E)(TX) series fully hydraulic steering gear is used in load-sensing steering systems.

101S-5, 101S-5L, 101S-5E series of full hydraulic steering gear are plate connection mode, and PVF* type priority valve is used after plate connection.

The 101S-5L series full hydraulic steering gear draws out the LS pressure signal at the LL interface, and transmits the signal to the electrical control system;

The fully hydraulic steering gear of the 101S-5E series draws the pressure signal of the L or R oil port at the EL interface and transmits the signal to the electrical control system.

The fully hydraulic steering gear of 101S-5T and 101S-5TE series is tube type connection, and it is used after tube connection with PVL* or DYXL and YXL type priority valves.

The fully hydraulic steering gear of the 101S-5TE series elicits a pressure signal of L or R oil at the EL interface and transmits the signal to the electrical control system.

The 101-5T series full hydraulic steering gear is a tubular connection mode, which must be used after tube connection with DYXL and YXL priority valves, and the system safety valve is located on the priority valve.

When the 101-5TX series full hydraulic steering gear is in the middle position, its left and right cavities are connected with the oil return. This steering gear is used with LFA and LFB flow amplification valves.



主要技术参数 Main Specification

Parameters	Type 101-5T(TX) – *** – *,101-5(T)(TE)(L)(E) – *** – ** – *										
Displacement(mL/r)	50	63	80	100	125	160	200	250	280	315	400
Max.input speed (rpm)	100								75		
Max.input pressure(MPa)	17.5										
Relief Valve Pressure Settings(MPa)	06,07,08,10,12,14,15,16,17.5										
Shock Valve Pressure Settings(MPa)	12,13,14,16,18,20,21,22,23.5										
Max.cont.back pressure(MPa)	2.5										
Weight(kg)	5.75	5.81	5.89	5.96	6.1	6.3	6.5	6.73	6.91	7.1	7.5
Dimension L(mm)	130	132	133	136	139	144	149	155	160	165	175

Note:L is the maximum length dimension of product.This dimension on some products may 2mm or 4mm shorter.

油口螺纹 Ports Threads

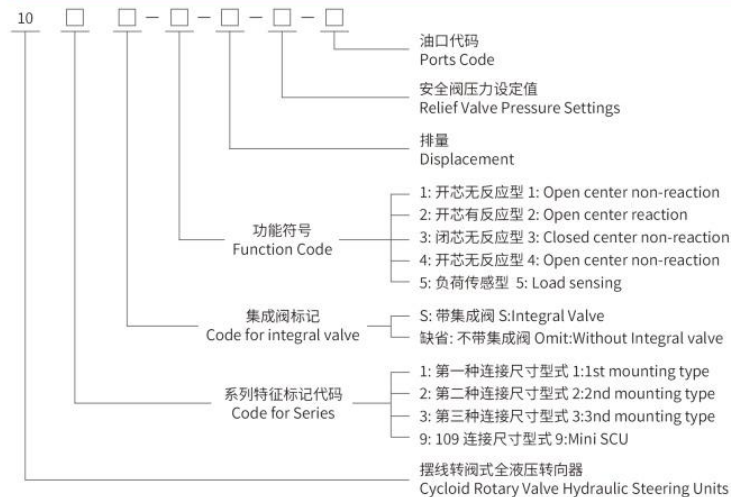
代码 Code	P、T、L、R 油口 Oil ports P,T,L,R	连接螺纹 C Connection thread C	连接螺纹 V Connection thread V	LS油口 Post LS	LL、EL油口 Ports LL,EL	
A	M20x1.5	M10	M12	M12x1.5		
B	M20x1.5 O-ring			M12x1.5 O-ring		
C	M18x1.5			M12x1.5		
D	M18x1.5 O-ring			M12x1.5 O-ring		
E	G1/2		M10x1	G1/4	M10x1	
U	G1/2 O-ring			G1/4 O-ring	M10x1 O-ring	
M	3/4-16 UNC O-ring	3/8-16 UNC	M12	7/16-20UNF O-ring		
F			3/8-24 UNF			
I		M10	M10			
N		M10x1.25				
H	φ18.5	M10	M10	M12x1.5		

注1:油口P、T、L、R的深度15mm,连接螺纹C、V的深度16mm,LS、LL、EL的深度12mm。

Note 1: Ports P,T,L,R Depth:15 mm;Connection thread C&V Depth:16mm,LS,LL,EL Depth:12mm.

注2:其他油口连接方式协议确定代号。Note 2: Protocol determination code for other oil port connection methods.

产品订单编号 Order Code



应用举例:

101S系列转向器, 负荷传感型, 配管式连接的优先阀, 电液控制信号从L或R油口引出排量125mL/r, 入口有单向阀, 安全阀压力10MPa, 缓冲阀压力16MPa, 四油口螺纹为G1/2, 转向柱法兰连接螺纹M10, LS信号口G1/4, EL信号口M10x1。

转向器订货编号为: 101S-5TE-125-10-E

For example:

Order code

101S-5TE-125-10-E

Ports:P,T,L,R G1/2;
Column Mounting Thread C M10
Port:LS G1/4;Port:EL M10x1
Relief Valve Pressure Settings:10Mpa;
Shock Valves Pressure Settings:16MPa
Displacement:125 mL/r
Pipe Mounting,with an Electrohydraulic Signal

060系列全液压转向器

060 Series Hydraulic Steering Control Units (SCU)

S60 series SCU incorporated the inlet check valve, safety valve, internal check valve, cylinder port shock valve and anti-cavitation valve. The design is more compact and convenient.

Incorporated five Valves into the SCU, so it is more compact and convenient. Low hydraulic noise. Special casting design for low pressure drop. 3 basic systems open center, closed center and load sensing.

Displacement: 50~500ml/r.



主要技术参数 Main Specification

Parameters	Type 060 --*--***--**--*										
Function Code	1, 2, 3, 4							1, 4			
Displacement(mL/r)	50	63	80	100	125	160	200	250	280	315	400
Rated flow(L/min)	5	6	8	10	12.5	16	20	20	28	32	40
Max.input pressure(MPa)	17.5										
Relief Valve Pressure Settings(MPa)	06,07,08,10,12,14,15,16,17.5										
Shock Valve Pressure Settings(MPa)	12,13,14,16,18,20,21,22,23.5										
Max.cont.back pressure(MPa)	2.5										
Weight(kg)	5.75	5.81	5.89	5.96	6.1	6.3	6.5	6.73	6.91	7.1	7.5
Dimension L(mm)	130	132	133	136	139	144	149	155	160	165	175

Note: L is the maximum length dimension of product. This dimension on some products may 2mm or 4mm shorter.

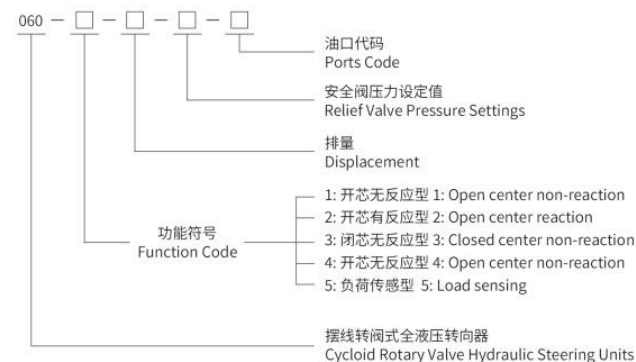
油口螺纹 Ports Threads

代码 Code	P、T、L、R 油口 Oil ports P,T,L,R	连接螺纹 C Connection thread C	连接螺纹 V Connection thread V
A	M20x1.5	M10	M12
B	M20x1.5 O-ring		
C	M18x1.5		
D	M18x1.5 O-ring		M10x1
E	G1/2		
U	G1/2 O-ring		
M	3/4-16 UNC O-ring	3/8-16 UNC	M12
F			3/8-24 UNF
I		M10	
N		M10x1.25	

注1: 油口P、T、L、R的深度15mm, 连接螺纹C、V的深度16mm. Note 1: Ports P,T,L,R Depth:15mm; Connection thread C&V Depth:16mm.

注2: 其他油口连接方式协议确定代号. Note 2: Protocol determination code for other oil port connection methods.

产品订单编号 Order Code



应用举例:

060系列转向器, 开芯无反应, 排量125mL/r, 入口有单向阀, 安全阀压力10MPa, 缓冲阀压力16MPa, 四油口螺纹为G1/2, 平面密封, 转向柱法兰连接螺纹 M10.
转向器订货编号为: 060-1-125-10-E

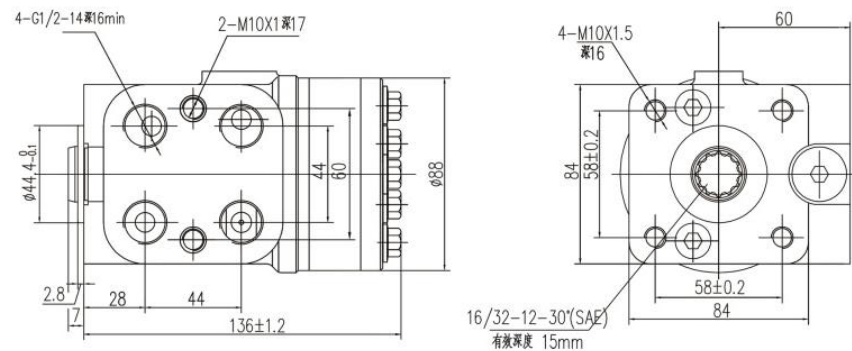
For example:

Order code

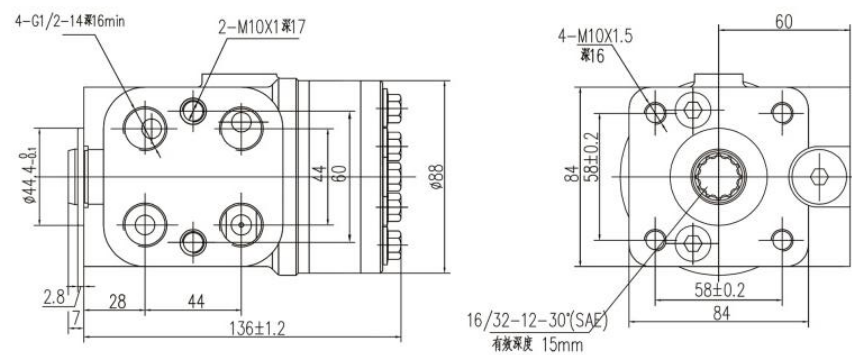
060-1-125-10-E

Ports: P,T,L,R G1/2;
Column Mounting Thread C M10
Relief Valve Pressure Settings: 10MPa;
Shock Valves Pressure Settings: 16MPa
Displacement: 125 mL/r
Open Center Non-Reaction

101S · 安装链接尺寸 Mounting Link Size



060 · 安装链接尺寸 Mounting Link Size



KYDAC

HYDRAULIC MOTOR

< 液压马达



BMM系列摆线液压马达

BMM series cycloidal hydraulic motor

BMM series motor are small volume, economical type ,which is designed with shaft distribution flow, which adapt the Gerotor gear set design and provide compact volume, high power and low weight.

Characteristic features:

*Advanced manufacturing devices for the Gerotor gear set, which provides small volume, high efficiency and long life.

*Shaft seal can bear high pressure of motor of which can be used in parallel or in series.

*Advanced construction design, high power and low weight.



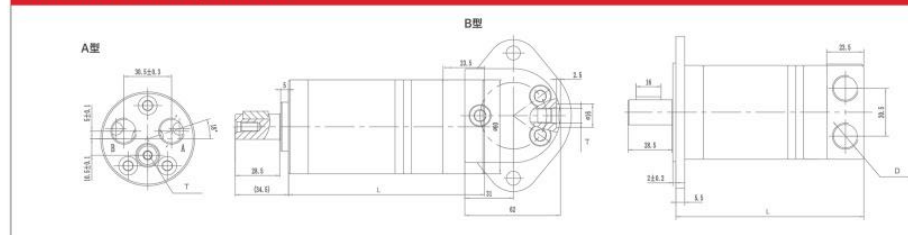
主要技术参数 Main Specification

类型 Type	BMM8	BMM12.5	BMM20	BMM32	BMM40	BMM50
排量 Geometric displacement (cm ³ /rev.)	8.2	12.9	19.9	31.6	39.8	50.3
转速 Max. speed (rpm)	额定 rated	1537	1256	814	513	358
	连续 cont.	1950	1550	1000	630	500
	断续 int.	2450	1940	1250	800	630
扭矩 Max. torque (N·m)	额定 rated	8	13	19	31	37
	连续 cont.	11	16	25	40	45
	断续 int.	15	23	35	57	70
	峰值 peak	21	33	51	64	82
输出功率 Max. output (Kw)	额定 rated	1.3	1.7	1.7	1.7	1.7
	连续 cont.	1.8	2.4	2.4	2.4	2.2
	断续 int.	2.6	3.2	3.2	3.2	3.2
工作压差 Max. pressure drop (Mpa)	额定 rated	9	9	9	9	8.5
	连续 cont.	10	10	10	10	9
	断续 int.	14	14	14	14	14
流量 Max. flow (L/min)	额定 rated	14	18	18	18	20
	连续 cont.	16	20	20	20	20
	断续 int.	20	25	25	25	25
重量 Weight (kg)	1.9	2	2.1	2.2	2.3	2.4

类型 Type	最大进油压力 Max. inlet pressure
BMM8-50(Mpa)	14
连续 cont.	17.5
断续 int.	22.5

* Rated speed and torque refer to the output value under rated flow and pressure.
 * Continuous value refers to the maximum value at which the displacement motor can operate continuously.
 * Intermittent value refers to the maximum value of the displacement motor working for 6 seconds in 1 minute.
 * Peak value refers to the maximum value of the displacement motor working for 0.6 seconds in 1 minute.

安装链接尺寸 Mounting Link Size



产品订单编号 Order Code

Pos.1	2	3	4	5	6	7	8
BMM							
Pos.1	2	3	4	5	6	7	8
结构代码	排量	法兰、止口	轴伸	油口、外泄口	旋向工况	油漆选项	特殊功能
BMM	8	M 3-M6圆法兰, 止口 31.5x5	A 16轴, 平键 5x5x16	E G3/8, G1/8	无 R 标准 反向	00 不油漆 B 蓝漆 S 黑漆 S 银灰漆	无 0 常规 无外泄
	12.5						
	20						
	32						
	40						
	50						

注:用户在使用订货信息时, 将马达结构、排量、安装法兰、轴伸、进出油口等信息, 选择左面作色部位的代号按上面格式写给我们即可。若所选规格不在上述表中或特殊要求, 请与我们联系。

Pos.1	2	3	4	5	6	7	8
BMM							
Pos.1	2	3	4	5	6	7	8
Code	Displacement	Flange	Output shaft	Ports and drain port	Rotation direction	Paint	Unusually function
BMM	8	M 3-M6 Circle-flange, pilot 31.5x5	A Shaft 16, parallel key 5x5x16	E G3/8, G1/8	Omit R Standard Opposite	00 No paint B Blue S Black S Silver grey	Omit 0 Standard No case drain
	12.5						
	20						
	32						
	40						
	50						

Note: When the table is used, please fill the code of left rows in the table and give us. which the code information is consists of construction, displacement mounting flange, output shaft and ports. If the specification is not in the table or you have specific requirements, please contact us.

BMP系列摆线液压马达

BMP series cycloidal hydraulic motor

BMP motor is a small volume ,spool valve type motor.

Characteristic features:

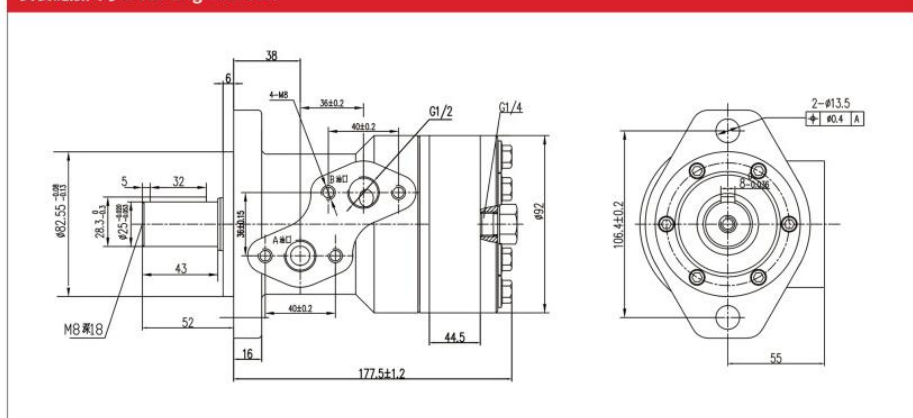
- *Compact design,which provide small volume,high power and low weight.
- *Credible design for shaft seal,which can bear high pressure and be used in parallel or in series.
- *Direction of shaft rotation and speed can be controlled easily and smoothly.
- *Best combination of efficiency and economy in medium load applications.



主要技术参数 Main Specification

类型 Type		BMP50	BMP63	BMP80	BMP100	BMP125	BMP160	BMP200	BMP250	BMP315	BMP400	BMP500
排量 (ml/r)		50	63	80	100	125	160	200	250	315	400	500
流量 (LPM)	连续 Continuous	40	40	60	60	60	60	60	60	60	60	60
	间断 Be interrupted	50	50	75	75	75	75	75	75	75	75	75
转速 (PRM)	连续 Continuous	755	630	750	600	475	375	300	240	190	160	110
	间断 Be interrupted	970	790	940	750	600	470	375	300	240	200	128
压力 (MPa)	连续 Continuous	14	14	17.5	17.5	17.5	16.5	13	11	8.5	8.5	8
	间断 Be interrupted	17.5	17.5	20	20	20	20	17.5	14	11.5	11.5	9
扭矩 (N·M)	连续 Continuous	100	124	190	240	292	363	358	352	360	420	464
	间断 Be interrupted	126	156	220	280	340	430	448	470	470	548	580

安装链接尺寸 Mounting Link Size



产品订单编号 Order Code

Pos.1 2 3 4 5 6 7 8
BMP — — — — — — —

Pos.1	2	3	4	5	6	7	8
结构代码	排量	法兰、止口	轴伸	油口、外泄口	旋向况	油漆选项	特殊功能
BMP	50	A2	S1	G1	无 R	00	无
	63		S2				
	80		R1				
	100	A4	S3	M1	标准	B	LS
	125		S4				
	160		R2				
	200	H4	R3	U1	反向	S	VS
	250		S5				
	315		T1				
	400	H5	T2	G2			
	500						

注:用户在使用订货信息时,将马达结构、排量、安装法兰、轴伸、进出油口等信息,选择左面作色部位的代号按上面格式写给我们即可。若所选规格不在上述表中或特殊要求,请与我们联系。

Pos.1 2 3 4 5 6 7 8
BMP — — — — — — —

Pos.1	2	3	4	5	6	7	8
Code	Displacement	Flange	Output shaft	Ports and drain port	Rotation direction	Paint	Unusually function
BMP	50	A2	S1	G1	Omit R	00	Omit
	63		S2				
	80		R1				
	100	A4	S3	M1	Standard Opposite	B	F
	125		S4				
	160		R2				
	200	H4	R3	U1	Silvergrey	S	LS
	250		S5				
	315		T1				
	400	H5	T2	G2			
	500						

Note:When the table is used, please fill the code of left rows in the table and give us. which the code information is consists of construction, displacement mounting flange, output shaft and ports. If the specification is not in the table or you have specific requirements, please contact us.

BMH系列摆线液压马达

BMH series cycloidal hydraulic motor

BMH series cycloidal hydraulic motor is a kind of axial valve hydraulic motor, the series of motors using a pillar type rotor, with a structure that works under high pressure and can automatically compensate, So that the whole machine has high efficiency and good retention, long working life. Its characteristics:

* Advanced stator parameter design, low starting pressure, high efficiency, and good retention, smooth operation.

* High pressure shaft seal, can carry high back pressure, allow string, parallel use.

* Special design of linkage shaft structure, can meet the requirements of low noise.

* The parameter optimization design of the distribution system can meet the requirements of low noise.

* Compact motor structure, easy to install.



主要技术参数 Main Specification

类型 Type	BMH200	BMH250	BMH315	BMH400	BMH500
排量 Geometric displacement (cm³/rev.)	203.2	255.9	316.1	406.4	489.2
最高转速 Max. speed (rpm)	额定 rated	290	230	180	145
	连续 cont.	366	290	236	183
	断续 int.	439	348	282	220
最大扭矩 Max. torque (N·m)	额定 rated	400	500	600	705
	连续 cont.	510	621	740	850
	断续 int.	579	702	827	990
	峰值 peak	651	790	980	1092
最大输出功率 Max.output (Kw)	连续 cont.	16	16	14	12.5
	断续 int.	18.5	18.5	15.5	15
最高工作压力 Max.pressure drop (Mpa)	额定 rated	14	14	14	12.5
	连续 cont.	17.5	17.5	17.5	15.5
	断续 int.	20	20	20	19
流量 Max.flow (L/min)	峰值 peak	22.5	22.5	22.5	21
	额定 rated	60	60	60	60
	连续 cont.	75	75	75	75
重量 Weight (kg)	断续 int.	90	90	90	90
	峰值 peak	10.5	11	11.5	12.3

类型 Type	最大进油压力 Max.inlet pressure	最大背压(接外泄油口) Max.return pressure with drain line
BMH200-500 (Mpa)	连续 cont.	200
	断续 int.	225
	峰值 peak	250

* Rated speed and torque refer to the output value under rated flow and pressure.

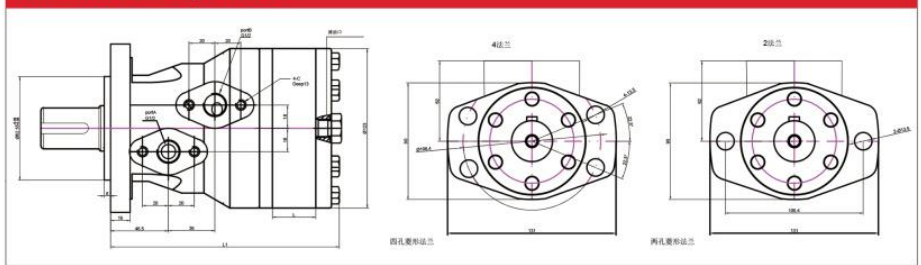
* Continuous value refers to the maximum value at which the displacement motor can operate continuously.

* Intermittent value refers to the maximum value of the displacement motor working for 6 seconds in 1 minute.

* Peak value refers to the maximum value of the displacement motor working for 0.6 seconds in 1 minute.

* The above table technical parameters are for BMH series motor axle diameter 35, spline shaft 31.75 and the cone axis 35.

安装链接尺寸 Mounting Link Size



产品订单编号 Order Code

Pos.1	2	3	4	5	6	7	8
	BMH						
Pos.1	2	3	4	5	6	7	8
结构代码	排量	法兰、止口	轴伸	油口、外泄口	旋向工况	油漆选项	特殊功能
BMH	160	2	B	D	无 R	00	无 0
	200		M	M			
	250		F	S			
	315		FD	P			
	400		T1	R			
	500		S				

注:用户在使用订货信息时,将马达结构、排量、安装法兰、轴伸、进出油口等信息,选择左面作色部位的代号按上面格式写给我们即可。若所选规格不在上述表中或特殊要求,请与我们联系。

Pos.1	2	3	4	5	6	7	8
	BMH						
Pos.1	2	3	4	5	6	7	8
Code	Displacement	Flange	Output shaft	Ports and drain port	Rotation direction	Paint	Unusually function
BMH	160	2	B	D	Omit R	00	Omit 0
	200		M	M			
	250		F	S			
	315		FD	P			
	400		G	R			
	500		T1				

Note:When the table is used, please fill the code of left rows in the table and give us, which the code information is consists of construction, displacement mounting flange, output shaft and ports. If the specification is not in the table or you have specific requirements, please contact us.

BMS系列摆线液压马达

BMS series cycloidal hydraulic motor

BMS series cycloidal hydraulic motor is a kind of advanced planar flow structure hydraulic motor, this series of motor uses column type rotor, has the characteristics of high working pressure, high working efficiency, good machine efficiency and long working life. Can be based on the standard structure according to the needs of users multi-functional variant design. Its characteristics:

- * Advanced stator parameter design, low starting pressure, high efficiency and good retention.
- * High working pressure, large output torque. Tapered roller bearing structure, bearing shaft and radial load capacity is strong, so that the motor can directly drive the working structure, the scope of use is expanded. Advanced end-face flow distribution structure makes the motor flow distribution accuracy is high, the automatic compensation ability after wear is strong, to ensure high volumetric efficiency, long life of the motor, to ensure that the motor speed is stable, the load speed characteristics are stable.
- * Capable of driving larger loads and higher working pressure levels.

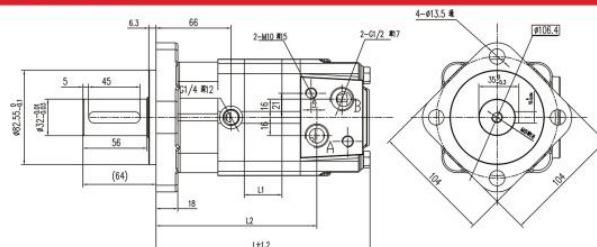


主要技术参数 Main Specification

类型 Type		BMS80	BMS100	BMS125	BMS160	BMS200	BMS250	BMS315	BMS400	BMS475
排量 Geometric displacement (cm³/rev.)		80.6	100.8	125	154	194	243	311	394	475
最高转速 Max.speed (rpm)	额定 rated	675	540	432	337	270	216	171	135	110
	连续 cont.	800	748	600	470	375	300	240	185	155
	断续 int.	988	900	720	560	450	360	280	225	185
最大扭矩 Max.torque (N*m)	额定 rated	175	220	273	445	505	620	700	765	780
	连续 cont.	225	290	365	485	586	708	880	880	910
	断续 int.	305	390	480	590	705	860	1000	980	990
最大输出功率 Max.output (Kw)	额定 rated	12	12.4	12.4	12.4	12.4	12.4	11.2	9.6	8.6
	连续 cont.	16	18	18	18.1	18.1	18	17	11	9
	断续 int.	20	22	23	25	24	23.8	20.2	12	11
最高工作压差 Max.pressure drop (Mpa)	额定 rated	16	16	16	19	19	18	16	14	12
	连续 cont.	20.5	20.5	20.5	21	21	20	20	16	14
	断续 int.	27.5	27.5	27.5	26	25	25	24	19	15
	峰值 peak	29.5	29.5	29.5	28	27	27	26	21	17.5
最大流量 Max.flow(L/min)	连续 cont.	65	75	75	75	75	75	75	75	75
	断续 int.	80	90	90	90	90	90	90	90	90
最高进油压力 Max.inlet pressure (L/min)	额定 rated	21	21	21	21	21	21	21	21	21
	连续 cont.	25	25	25	25	25	25	25	25	25
	断续 int.	30	30	30	30	30	30	30	30	30
重量 Weight (kg)		9.8	10	10.3	10.7	11.1	11.6	12.3	13.2	14.3

* Rated speed and torque refer to the output value under rated flow and pressure.
* Continuous value refers to the maximum value at which the displacement motor can operate continuously.
* Intermittent value refers to the maximum value of the displacement motor working for 6 seconds in 1 minute.
* Peak value refers to the maximum value of the displacement motor working for 0.6 seconds in 1 minute.

安装链接尺寸 Mounting Link Size



产品订单编号 Order Code

Pos.1		2		3		4		5		6		7		8						
BMS																				
Pos.1	2	3				4				5				6		7		8		
结构代码	排量	法兰、止口				轴伸				油口、外泄口				旋向工况		油漆选项		特殊功能		
BMS	80	E2	2-Φ13.5 霍法兰 Φ106.4, 止口Φ82.5x6.3				A	Φ25轴,平键8×7×32				D	G1/2 板式2-M10, G1/4		无	标准 反向	无	不油漆	无	常规
	100	E4	2-Φ13.5 霍法兰 Φ106.4, 止口Φ82.5x6.3				B	Φ32轴,平键10×8×8.45												
	125	F6	2-Φ13.5 霍法兰 Φ106.4, 止口Φ82.5x6.3				D	Φ25.4轴, 平键6.35×6.35×25.4												
	160	F6	2-Φ13.5 霍法兰 Φ106.4, 止口Φ82.5x6.3				G	Φ31.75轴, 平键7.96×7.96×31.75												
	200	W	4-Φ13.5 霍法兰 Φ160 止口Φ125.8				F	Φ31.75轴,花键14-DP12/24												
	250	E2B	2-Φ14.3 霍法兰 Φ146.05, 止口Φ101.6x9.4				FD	Φ31.75长轴,花键14-DP12/24												
	315		4-Φ11.5 正法兰 Φ106.4 止口Φ82.5x6.3				SL	Φ34.85轴, 花键6×6×20												
	400	SP	6-Φ13.5 霍法兰 Φ106.4, 止口Φ82.5x6.3				T1	Φ35轴,平键B6×6×20												
	475	E6	6-Φ13.5 霍法兰 Φ106.4, 止口Φ82.5x6.3				T3	Φ31.75轴, 平键7.96×7.96×31.75												
								S1	Φ25.4轴,花轴SAE 6B											
							I	Φ22轴,花轴13-DP16/32												

注:用户在使用订货信息时,将马达结构、排量、安装法兰、轴伸、进出油口等信息,选择左面作色部位的代号按上面格式写给我们即可。若所选规格不在上述表中或特殊要求,请与我们联系。

		Pos.1 2 3 4 5 6 7 8											
		BMS — — — — — — — —											
Pos.1	2	3		4		5		6		7		8	
Code	Displacement	Flange		Output shaft		Ports and drain port		Rotation direction		Paint		Unusually function	
BMS	80	E2	2-Ø13.5 Rhomb-flange Ø106.4, pilot Ø82.5x6.3	A	Shaft Ø25, parallel key 8x7x32	D	G1/2 Manifold Mount 2-M10, G1/4	Omit	Standard Opposite	Omit	Blue	F	Free Running Low Speed
	100	E4	4-Ø13.5 Rhomb-flange Ø106.4, pilot Ø82.5x6.3	B	Shaft Ø32, parallel key 10x8x45								
	125	F6	6-Ø13.5 Rhomb-flange Ø106.4, pilot Ø82.5x6.3	D	Shaft Ø25.4, parallel key 6.35x6.35x25.4								
	160	F6	6-Ø13.5 Rhomb-flange Ø106.4, pilot Ø82.5x6.3	G	Shaft Ø31.75, parallel key 7.96x7.96x31.75								
	200	W	4-Ø13.5 Wheel-flange Ø160 pilot 125*8	F	Shaft Ø31.75, splined key 14-DP12/24								
	250	E2B	2-Ø14.3 Rhomb-flange Ø146.05, pilot Ø101.6x9.4	FD	Long Shaft Ø31.75, splined key 14-DP 12/24								
	315	SP	4-Ø11.5 Square-flange Ø106.4, pilot Ø82.5x6.3	SL	Shaft Ø34.85, splined key 6-34.85x28.14x8.64								
	400	SP	4-Ø11.5 Square-flange Ø106.4, pilot Ø82.5x6.3	T1	Cone-shaft Ø35, parallel key B6x6x20								
	475	E6	6-Ø13.5 Rhomb-flange Ø106.4, pilot Ø82.5x6.3	T3	Cone-shaft Ø31.75, parallel key 7.96x7.96x31.75								
					S1								
				I	Sub-shaft Ø22, splined key 13-DP16/32								

Note: When the table is used, please fill the code of left rows in the table and give us, which the code information is consists of construction, displacement mounting flange, output shaft and ports. If the specification is not in the table or you have specific requirements, please contact us.

BMT系列摆线液压马达

BMT series cycloidal hydraulic motor

BMT series cycloidal hydraulic motor is a kind of advanced planar flow structure hydraulic motor, the series of motors using column type rotor, with high working pressure, high working efficiency, high efficiency and long working life characteristics. Can be based on the standard structure according to the needs of users multi-functional variant design. Its characteristics:

* Advanced stator parameter design, low starting pressure, high efficiency and good retention.

* High working pressure, large output torque. Tapered roller bearing structure, bearing shaft, radial load capacity is strong, so that the motor can directly drive the working mechanism, the scope of use is expanded.

* Advanced planar flow distribution structure makes the motor flow distribution accuracy is high, and the automatic compensation function after wear is strong, ensuring high volumetric efficiency, long motor life, and stable motor speed and load speed characteristics.



主要技术参数 Main Specification

类型 Type	BMT160	BMT200	BMT230	BMT250	BMT315	BMT400	BMT500	BMT630	BMT800
排量 Geometric displacement (cm³/rev.)	161.1	201.4	232.5	251.8	326.3	410.9	523.6	629.1	801.8
最高转速 Max.speed (rpm)	额定 rated	470	475	412	381	294	228	183	150
	连续 cont.	625	625	536	500	380	305	240	196
	断续 int.	780	750	643	600	460	365	285	233
最大扭矩 Max.torque (N*m)	额定 rated	379	471	530	582	758	896	1063	1156
	连续 cont.	470	590	670	730	950	1080	1318	1464
	断续 int.	560	710	821	880	1140	1260	1498	1520
峰值 peak	峰值 peak	669	838	958	1036	1346	1450	1619	1665
	额定 rated	18.7	23.4	23.2	23.2	23.3	21.4	20.4	18.2
	连续 cont.	27.7	34.9	34.7	34.5	34.9	31.2	28.8	22.2
最大输出功率 Max.output (Kw)	断续 int.	32	40	40	40	40	35	35	27.5
	峰值 peak	28	28	28	28	28	24	21	19
最高工作压力差 Max.pressure drop (Mpa)	额定 rated	16	16	16	16	16	15	14	12
	连续 cont.	20	20	20	20	20	18	16	14
	断续 int.	24	24	24	24	24	21	18	16
最大流量 Max.flow(L/min)	峰值 peak	80	100	100	100	100	100	100	100
	连续 cont.	100	125	125	125	125	125	125	125
	断续 int.	125	150	150	150	150	150	150	150
最高进油压力 Max.inlet pressure (L/min)	额定 rated	21	21	21	21	21	21	21	21
	连续 cont.	21	21	21	21	21	21	21	21
	断续 int.	25	25	25	25	25	25	25	25
重量 Weight (kg)	峰值 peak	30	30	30	30	30	30	30	30
	连续 cont.	19.5	20	20.4	20.5	21	22	23	24
	断续 int.	20.5	21	21.4	21.5	22	23	24	25

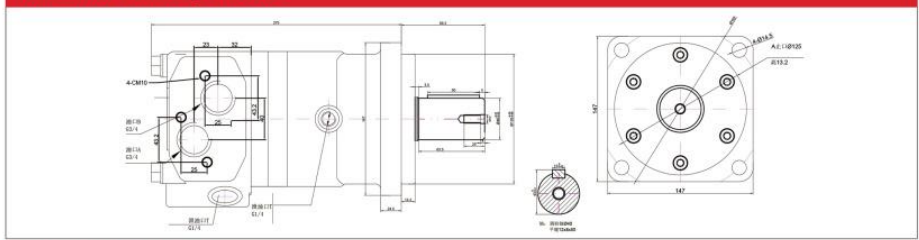
* Rated speed and torque refer to the output value under rated flow and pressure.

* Continuous value refers to the maximum value at which the displacement motor can operate continuously.

* Intermittent value refers to the maximum value of the displacement motor working for 6 seconds in 1 minute.

* Peak value refers to the maximum value of the displacement motor working for 0.6 seconds in 1 minute.

安装链接尺寸 Mounting Link Size



产品订单编号 Order Code

Pos.1	2	3	4	5	6	7	8
	BMT						
Pos.1	2	3	4	5	6	7	8
结构代码	排量	法兰、止口	轴伸	油口、外泄口	旋向况	油漆选项	特殊功能
BMT	160	4-φ14方法兰 φ160, 止口 φ125x9	M φ40轴, 平键 12x8x70 G φ38.1轴, 平键 9.52x9.52x57.15 F φ38.1轴, 花键 17-DP12/24 FD φ38.1轴, 花键 17-DP12/24 T 1:10锥轴, φ45轴, 平键 B12x8x28 T1 1:8锥轴, φ45轴, 平键 11.13x11.13*31.75 φ34.85	D G3/4 板式, 4-M10, G1/4 M M27x2 板式, 4-M10, M14x1.5		00 蓝漆	无 常规
	200	4-φ14.5方法兰 φ162, 止口 φ127x9	SL 轴, 花键 6-34.85x28.14x8.64 G1 φ31.75轴, 平键 7.96x7.96x40 F1 φ31.75轴, 花键 14-DP12/24	S 1-1/16-12UN, 9/16-18UNF SI 1-1/16-12UN, 7/16-20UNF	无 R 标准 反向	无 不油漆	LL 低泄漏
	250	4-φ18车轮法兰 φ200, 止口 φ160x7				B 黑漆	F 自由转动
	315	4-φ11圆法兰 φ125, 止口 φ100*6		G G3/4, G1/4		S 银灰漆	LS 低转速
	400	4-φ13.5方法兰 φ127, 止口 φ101.6*6.3		M3 M27x2, M14x1.5			
	500		无 16-DP12/24短轴				
BMTS	630						
	800						

注:用户在使用订货信息时,将马达结构、排量、安装法兰、轴伸、进出油口等信息,选择左面作色部位的代号按上面格式写给我们即可。若所选规格不在上述表中或特殊要求,请与我们联系。

Pos.1	2	3	4	5	6	7	8
	BMT						
Pos.1	2	3	4	5	6	7	8
Code	Displacement	Flange	Output shaft	Ports and drain port	Rotation direction	Paint	Unusually function
BMT	160	4-φ14 Square-flange φ160, pilot φ125x9	M Shaft φ40, parallel key 12x8x70 G Shaft φ38.1, parallel key 9.52x9.52x57.15 F Shaft φ38.1, splined tooth 17-DP12/24 FD Shaft φ38.1, splined tooth 17-DP12/24 T Cone shaft 1:10 φ45, parallel key B12x8x28 T1 Cone shaft 1:8 φ45, parallel key 11.13x11.13x31.75 SL shaft φ34.85, splined key G1 Splined key 6-34.85x28.14x8.64 F1 shaft φ31.75, parallel key 7.96x7.96x40 F1 Shaft φ31.75, splined tooth 14-DP12/24	D G3/4 Manifold Mount, 4-M10, G1/4 M M27x2 Manifold Mount, 4-M10, M14x1.5		00 No paint	Omit Standard
	200	4-φ14.5 Square-flange φ162, pilot φ127x9		S 1-1/16-12UN O-ring, 9/16-18UNF SI 1-1/16-12UN O-ring, 7/16-20UNF	Standard Opposite	Blue Black	Free Running
	250	4-φ18 Wheel-flange φ200, pilot φ160x7				S Silver grey	Low Speed
	315	4-φ11 Circle-flange φ125, pilot φ100x6		G G3/4, G1/4			
	400	4-φ13.5 Square-flange φ127, pilot φ101.6x6.3		M3 M27x2, M14x1.5			
	500		Omit Short shaft 16-DP12/24				
BMTS	630						
	800						

Note: When the table is used, please fill the code of left rows in the table and give us. which the code information is consists of construction, displacement mounting flange, output shaft and ports. If the specification is not in the table or you have specific requirements, please contact us.

BMER系列摆线液压马达

BMER series cycloidal hydraulic motor

Optional functions, rotor flow distribution, needle toothed rotor stator pair, flange connection, motor with needle roller bearings, side aligned oil ports, shaft extension: flat key, spline, cone key, high-pressure oil seal, metric, American, and BSPP oil ports.

Applied to high-altitude work platforms, material handling and lifting machinery, agricultural machinery, marine machinery, road machinery, landscaping machinery, lawn and turf machinery.

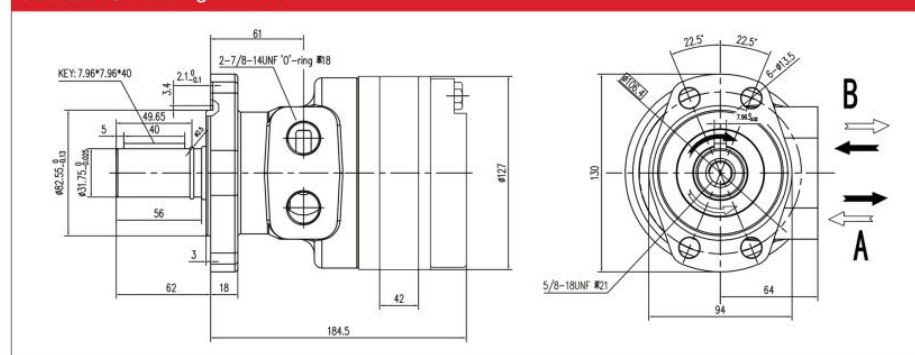


主要技术参数 Main Specification

类型 Type	BMER120	BMER160	BMER200	BMER230	BMER260	BMER350	BMER375	BMER470	BMER540	BMER620	BMER750
排量 Geometric displacement (cm³/rev.)	121	162	204	232	261	348	363	465	536	631	748
最高转速 Max.speed (rpm)	连续 cont.	360	370	300	260	220	200	160	140	120	100
	断续 int.	490	470	370	320	350	270	250	200	170	130
最大流量 Max.flow(L/min)	连续 cont.	45	61	68	68	76	76	76	76	76	76
	断续 int.	61	76	83	83	91	95	91	91	91	91
最大扭矩 Max.torque (N·m)	连续 cont.	327	475	542	611	712	921	1006	1096	1014	1062
	断续 int.	383	542	633	712	791	1045	1158	1184	1291	1237
最大压力降 Max.pressure drop (bar)	连续 cont.	207	207	207	207	207	207	172	138	121	103
	断续 int.	241	241	241	241	241	241	189	173	155	121
	峰值 peak	276	276	276	276	276	276	207	207	173	138
最大空载压力 Max.empty pressure(bar)		8	10	10	10	10	10	10	12	12	12
最小启动扭矩 Min.starting torque (N·m)	最大压力降 连续	235	342	390	440	513	663	724	822	737	797
	最大压力降 断续	280	396	462	520	577	763	845	900	981	940
重量 Weight (kg)	GWD	13.3	13.3	13.7	13.8	14.1	15.5	15	15.5	16.8	17.5

* Continuous value refers to the maximum value at which the displacement motor can operate continuously.
 * Intermittent value refers to the maximum value of the displacement motor working for 6 seconds in 1 minute.
 * Peak value refers to the maximum value of the displacement motor working for 0.6 seconds in 1 minute.

安装链接尺寸 Mounting Link Size



产品订单编号 Order Code

Pos.1 2 3 4 5 6 7 8
 BMER - - - - - - -

Pos.1	2	3	4	5	6	7	8
结构代码	排量	法兰、止口	轴伸	油口、外泄口	旋向工况	油漆选项	特殊功能
BMER	120	W4	SH Ø35轴 平键10×8×45	UD 9/16-18 UNF	无 R 标准 反向	00 蓝漆	无 常规
	160		SL Ø38轴 平键9.5×9.5×38.1				
	200						
	230						
	260	W5	TB Ø35锥轴1:10 平键7.96×7×31.5 螺母拧紧力矩:325Nm	UF 7/8-14 UNF		00 蓝漆	无 自由转动
	300						
	350	A9	TA Ø38.1轴1:8 平键7.96×7×36.5 螺母拧紧力矩:415-540Nm	GC G1/2		B 黑漆	V 高温
	375						
	470	W6	T2 Ø31.75锥轴1:8 平键7.96×7.96×25.4 螺母拧紧力矩: 200±10Nm	MC M22x1.5		S 银灰漆	S 低温
	540						
	620						
	750		RQ Ø25.3轴 花键6-25.3×21×6.2				

注:用户在使用订货信息时,将马达结构、排量、安装法兰、轴伸、进出口等信息,选择左面作色部位的代号按上面格式写给我们即可。若所选规格不在上述表中或特殊要求,请与我们联系。

Pos.1 2 3 4 5 6 7 8
 BMER - - - - - - -

Pos.1	2	3	4	5	6	7	8	
Code	Displacement	Flange	Output shaft	Ports and drain port	Rotation direction	Paint	Unusually function	
BMER	120	W4	SH Shaft Ø35 parallel key10 x 8 x 45	UD 9/16-18 UNF	Omit R Standard Opposite	00 No paint	Omit F Free Running	
	160		SL ShaftØ38 parallel key 9.5 x 9.5 x 38.1					
	200		Ø147.6 Wheel-flange Front end 4 x Ø13.1 pullbackØ128.5 x 7					UF 7/8-14 UNF
	230		Cone-shaft 1:10 Ø35 parallel key 7.96 x 7 x 31.5 Nut tightening torque :325Nm					
	260	W5 Ø147.6 Wheel-flange Front end 4 x Ø13.1 pullbackØ127 x 7	GC G1/2					
	300	Cone-shaft 1:8 Ø38.1 parallel key 7.96 x 7 x 36.5 Nut tightening torque :415-540Nm						
	350	A9 6-Ø13.5 Rhomb-flange Ø106.4 pilot Ø82.5 x 2.8		MC M22x1.5				
	375	Ø106.4 Wheel-flange 4 x Ø13.5						
	470	W6 4 x Ø13.5 pilot Ø82.5 x 2.8						
	540	T2 Cone-shaft 1:8 Ø31.75 parallel key 7.96 x 7.96 x 25.4 Nut tightening torque: 200 ± 10Nm						
	620							
	750		RQ Shaft Ø25.3 splined key 6-25.3 x 21 x 6.2					

Note: When the table is used, please fill the code of left rows in the table and give us. which the code information is consists of construction, displacement mounting flange, output shaft and ports. If the specification is not in the table or you have specific requirements, please contact us.