



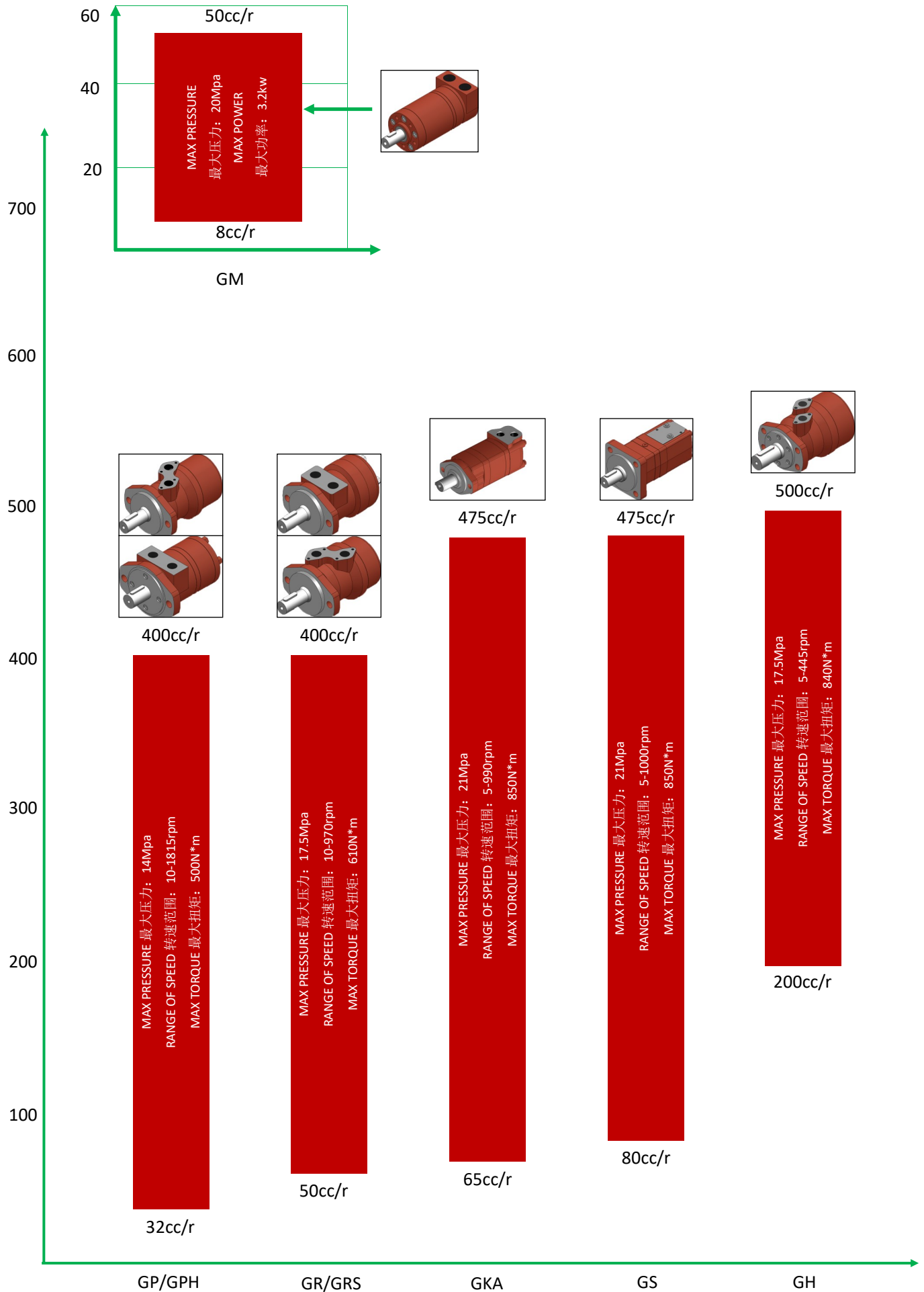
Hydraulic Orbit Motors Guide

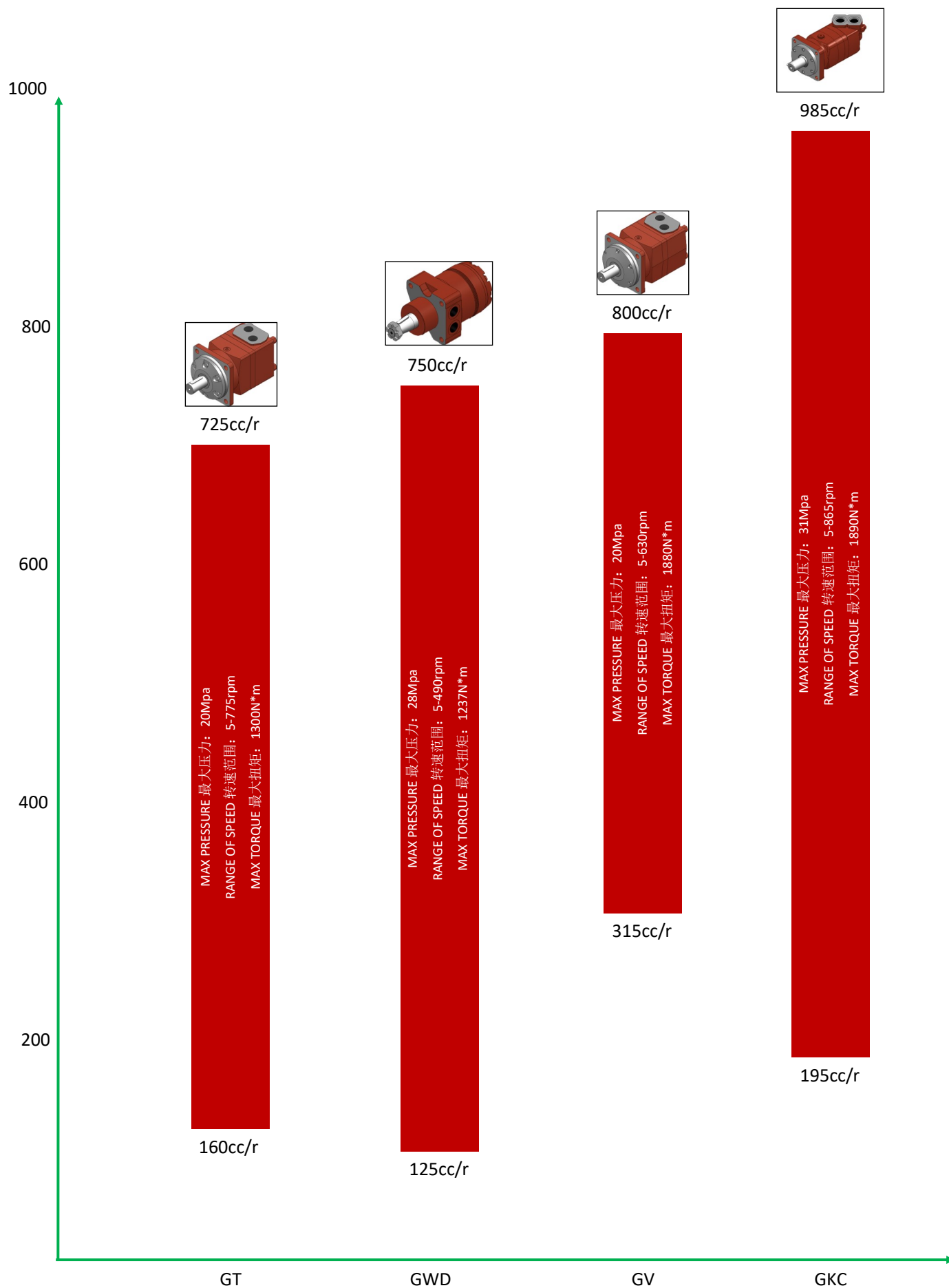


GRH Hydraulic Motor Series - GRH 摆线马达系列

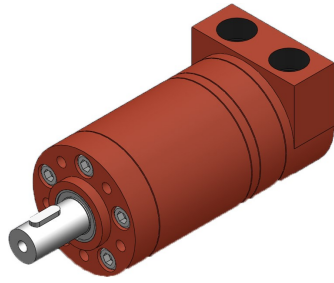
Guide for orbit motors 摆线马达选型指南	
1: GM Series Dimensions, Data, Function Diagrams and Order Information 1: GM系列外形尺寸, 参数, 性能图和选型代码	4-10
2: GP Series Dimensions, Data, Function Diagrams and Order Information 2: GP系列外形尺寸, 参数, 性能图和选型代码	11-22
3: GPH Series Dimensions, Data, Function Diagrams and Order Information 3: GPH系列外形尺寸, 参数, 性能图和选型代码	23-34
4: GR Series Dimensions, Data, Function Diagrams and Order Information 4: GR系列外形尺寸, 参数, 性能图和选型代码	35-45
5: GRS Series Dimensions, Data, Function Diagrams and Order Information 5: GRS系列外形尺寸, 参数, 性能图和选型代码	46-57
6: GKA Series Dimensions, Data, Function Diagrams and Order Information 6: GKA系列外形尺寸, 参数, 性能图和选型代码	58-70
7: GH Series Dimensions, Data, Function Diagrams and Order Information 7: GH系列外形尺寸, 参数, 性能图和选型代码	71-79
8: GS Series Dimensions, Data, Function Diagrams and Order Information 7: GS系列外形尺寸, 参数, 性能图和选型代码	80-89
9: GT Series Dimensions, Data, Function Diagrams and Order Information 8: GT系列外形尺寸, 参数, 性能图和选型代码	90-99
10: GWD Series Dimensions, Data, Function Diagrams and Order Information 9: GWD系列外形尺寸, 参数, 性能图和选型代码	100-112
11: GV Series Dimensions, Data, Function Diagrams and Order Information 10: GV系列外形尺寸, 参数, 性能图和选型代码	113-121
12: GKC Series Dimensions, Data, Function Diagrams and Order Information 10: GKC系列外形尺寸, 参数, 性能图和选型代码	122-130







General 概述

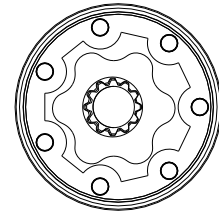


APPLICATION 应用

- ◇ Conveyors 输送机
- ◇ Feeding machinery of robots and manipulators 机器人和操纵器的给料机械
- ◇ Metal working machines 金属加工器械
- ◇ Textile machines 纺织机
- ◇ Agricultural machines 农用机械
- ◇ Food industries 食品工业
- ◇ Lawn mower 割草机

OPTIONS 可选功能

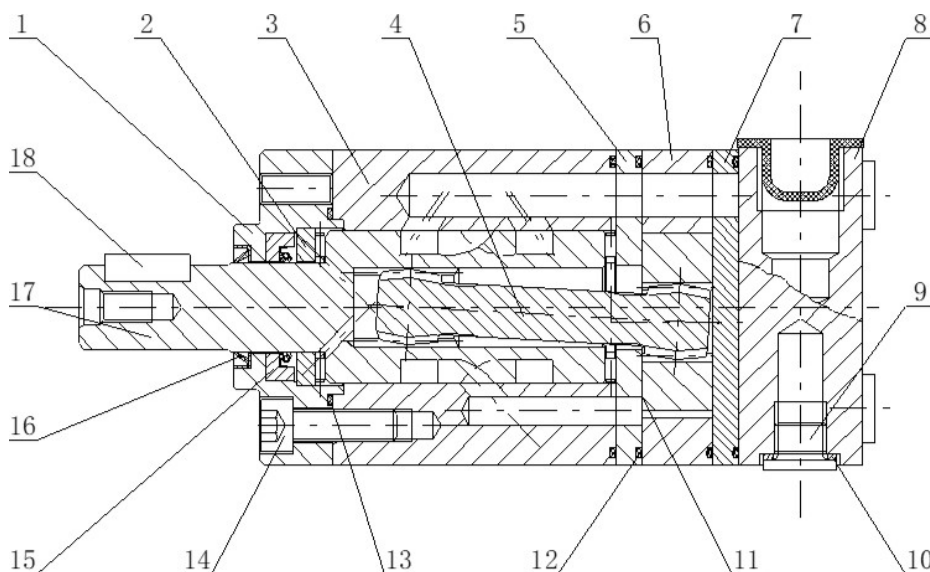
- ◇ Flange connection 法兰连接
- ◇ Motor with needle bearing 马达带滚针轴承
- ◇ Side and rear ports 侧边和底部油口
- ◇ Shafts-straight, splined and tapered 轴伸-平键, 花键, 锥键
- ◇ Shaft seal for high and low pressure 轴油封可适用于高压和低压
- ◇ Metric and BSPP ports 公制和BSPP油口
- ◇ Speed sensing 速度感应
- ◇ Other special features 其他功能



- ◇ Shaft distribution flow 轴配流

技术指标

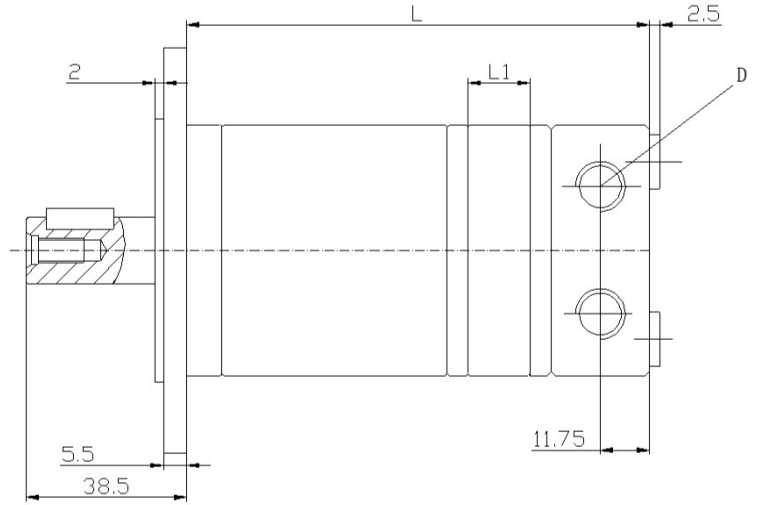
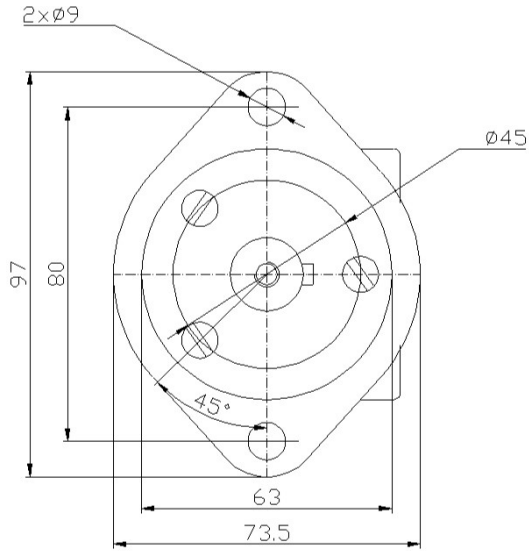
型号 Model		GM8	GM12.5	GM20	GM32	GM40	GM50
排量 Disp.	in ³ /rev	0.5	0.76	1.21	1.93	2.43	3.07
	cm ³ /rev	8.2	12.9	19.9	31.6	39.8	50.3
最高转速 Max Speed rpm	连续 cont.	1950	1550	1000	630	500	400
	断续 int.	2450	1940	1250	800	630	500
最大扭矩 Max Torque N m [lb-in]	连续 cont.	11 [97]	16 [141]	25 [221]	40 [354]	45 [398]	46 [407]
	断续 int.	15 [132]	23 [203]	35 [310]	57 [504]	70 [620]	88 [779]
最大压力差 Max Dif. bar [psi]	连续 cont.	102 [1450]	102 [1450]	102 [1450]	102 [1450]	86 [1233]	71 [1015]
	断续 int.	142 [2030]	142 [2030]	142 [2030]	142 [2030]	122 [1740]	102 [1450]
最大流量 Max Flow l/min [gpm]	连续 cont.	15 [3.96]	20 [5.28]	20 [5.28]	20 [5.28]	20 [5.28]	20 [5.28]
	断续 int.	20 [5.28]	25 [6.6]	25 [6.6]	25 [6.6]	25 [6.6]	25 [6.6]
重量 Weight kg [lbs]		1.94 [4.3]	2.03 [4.5]	2.12 [4.72]	2.23 [4.95]	2.25 [5]	2.30 [5.1]



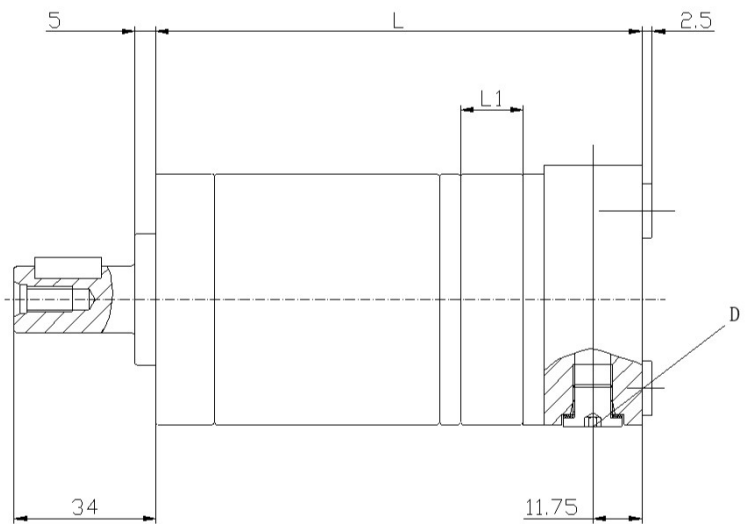
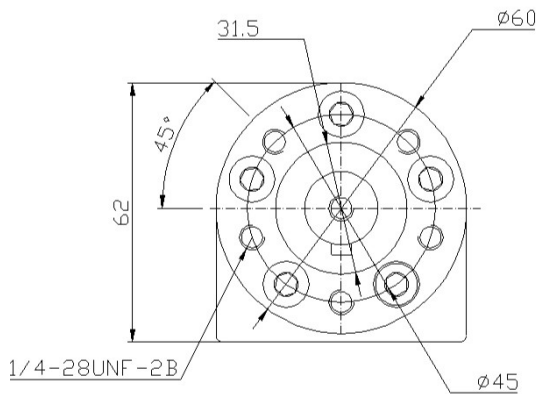
1. Front Cover 前盖
2. Thrust Washer 止推垫圈
3. Housing 外壳
4. Cardan Joint 万向节
5. Front Plate 前面板
6. Gear Set 齿轮组
7. End Plate 端板
8. End Cover 端盖
9. Drain Plug 排油塞
10. Washer 垫圈
11. Axial Needle Bearing 推力滚针轴承
12. O-ring O型圈
13. O-ring O型圈
14. Screw 螺丝钉
15. Shaft Seal 轴封
16. Dust Seal 防尘密封
17. Shaft 轴
18. Key 键

Dimensions and Mounting Data 尺寸和安装参数

法兰 Flange AD



法兰 Flange B5

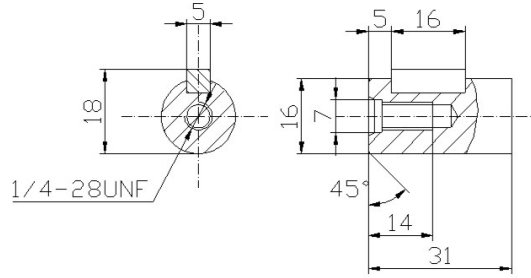


Model 型号	A型		B型	
	L	L1	L	L1
GM8	109	3	105	3
GM12.5	111	5	107	5
GM20	114	8	110	8
GM32	119	13.5	115	13.5
GM40	122	17	118	17
GM50	127	21	123	21

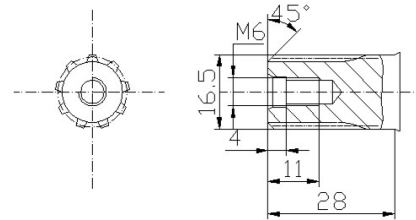
Ports 油口	A型	B型
D	9/16-18SAE	9/16-18SAE
T	3/8-24SAE	3/8-24SAE

GM Shaft Extension Dimensions Data GM系列轴伸尺寸参数

Shaft SS : Cylindrical shaft $\varnothing 16$
 Parallel key 5x5x16
 SS: $\varnothing 16$ 轴, 平键5x5x16



Shaft RK : Splined B17x14 DIN5482
 RK: $\varnothing 16.5$ 轴, 花键B17x14 DIN5482



Ordering Example:						
Model	Displacement	Flange	Drive shaft	Ports	Other functions	
GM	8	B4	SS	GA	ACA	
Model	Disp.	Flange	Drive shaft	Ports		
GM	8	B4=3-M6 circle flange $\varnothing 45$, pilot $\varnothing 31.5 \times 5$	SS=Shaft $\varnothing 16$, parallel key 5x5x16	GA=G3/8, G1/8 U8=9/16-18 UNF, 3/8-24 UNF		
	12.5					
	20	B5=3-1/4-28 UNF circle flange $\varnothing 45$, pilot $\varnothing 31.5 \times 5$	ST=Shaft $\varnothing 15.875$, parallel key 4.8x4.8x19.05			
	32					
	40	AD=2- $\varnothing 9$ rhomb flange $\varnothing 80$, pilot $\varnothing 63 \times 2$	RK=Shaft $\varnothing 16.5$, splined B17x14 DIN5482			
50						

Rotation direction	Paint	Unusually function
A=Standard R=Opposite	A=No paint B=Blue C=Black S=Silver grey	A=Standard N=Big radial force D=No case drain F=Free running L=Low speed V=High temperature S=Low temperature



GM Shaft Extension Dimensions Data GM系列轴伸尺寸参数

订购示例:						
型号	排量	法兰	传动轴	油口	其他功能	
GM	8	B4	SS	GA	ACA	
型号	排量	法兰	传动轴	油口		
GM	8 12.5 20 32 40 50	B4=3-M6圆法兰 \varnothing 45, 止口 \varnothing 31.5x5 B5=3-1/4-28 UNF圆法兰 \varnothing 45, 止口 \varnothing 31.5x5 AD=2- \varnothing 9菱法兰 \varnothing 80, 止口 \varnothing 63x2	SS= \varnothing 16轴, 平键5x5x16 ST= \varnothing 15.875轴, 平键4.8x4.8x19.05 RK= \varnothing 16.5轴, 花键B17x14 DIN5482	GA=G3/8, G1/8 U8=9/16-18 UNF, 3/8-24 UNF		

旋转方向	喷漆	不常用的功能
A=标准 R=反向	A=无喷漆 B=蓝色 C=黑色 S=银灰色	A=标准 N=大径向力 D=无泄油口 F=自由转 L=低速 V=高温 S=低温



Flow Data 流量参数

GM8		8.2cm ³ /rev(0.50in ³ /rev)			最高连续 Max Cont.	最高断续 Max Int.	
压力 Pressure bar [psi→]		35.7 [510]	50.8 [725]	71.1 [1015]	101.5 [1450]	122.5 [1750]	142.1 [2030]
Flow 流量	l/min [gpm↓]	扭矩 N m [lb-in] 转速 Torque N m [lb-in] Speed Specification					
	2 [0.52]	3 [27]	5 [44]	8 [71]	10 [89]	12 [106]	14 [124]
		228rpm	218rpm	206rpm	156rpm	111rpm	58rpm
	4 [1.05]	3 [27]	5 [44]	7 [62]	11 [97]	13 [115]	15 [133]
		474rpm	471rpm	463rpm	426rpm	391rpm	331rpm
	8 [2.1]	3 [27]	5 [44]	7 [62]	11 [97]	13 [115]	15 [133]
		953rpm	946rpm	926rpm	884rpm	855rpm	816rpm
	12 [3.15]	2 [18]	5 [44]	7 [62]	10 [89]	13 [115]	15 [133]
		1444rpm	1426rpm	1402rpm	1360rpm	1324rpm	1288rpm
	15 [3.95]		4 [35]	7 [62]	10 [89]	12 [106]	14 [124]
Max Cont.		1912rpm	1900rpm	1861rpm	1833rpm	1780rpm	
20 [5.25]			6 [53]	10 [89]	11 [97]	14 [124]	
Max Int.			2395rpm	2350rpm	2328rpm	2281rpm	
GM12.5		12.9cm ³ /rev(0.76in ³ /rev)			最高连续 Max Cont.	最高断续 Max Int.	
压力 Pressure bar [psi→]		35.7 [510]	50.8 [725]	71.1 [1015]	101.5 [1450]	122.5 [1750]	142.1 [2030]
Flow 流量	l/min [gpm↓]	扭矩 N m [lb-in] 转速 Torque N m [lb-in] Speed Specification					
	2 [0.52]	6 [53]	8 [71]	11 [97]	16 [142]	19 [168]	
		140rpm	136rpm	119rpm	68rpm	35rpm	
	4 [1.05]	6 [53]	8 [71]	12 [106]	17 [150]	19 [168]	23 [204]
		296rpm	289rpm	274rpm	229rpm	200rpm	145rpm
	8 [2.1]	5 [44]	8 [71]	12 [106]	17 [150]	20 [177]	24 [212]
		605rpm	596rpm	583rpm	543rpm	514rpm	469rpm
	12 [3.15]	5 [44]	8 [71]	11 [97]	16 [142]	20 [177]	24 [212]
		912rpm	905rpm	895rpm	859rpm	834rpm	784rpm
	15 [3.95]	5 [44]	7 [62]	11 [97]	16 [142]	19 [168]	23 [204]
1152rpm		1144rpm	1136rpm	1102rpm	1078rpm	1036rpm	
20 [5.25]	3 [27]	7 [62]	10 [89]	15 [133]	19 [168]	22 [195]	
Max Cont.	1542rpm	1532rpm	1521rpm	1500rpm	1482rpm	1437rpm	
25 [6.57]	2 [18]	6 [53]	9 [80]	14 [124]	18 [159]	22 [195]	
Max Int.	1910rpm	1891rpm	1878rpm	1848rpm	1828rpm	1788rpm	
GM20		19.9cm ³ /rev(1.21in ³ /rev)			最高连续 Max Cont.	最高断续 Max Int.	
压力 Pressure bar [psi→]		17.2 [246]	35.7 [510]	50.8 [725]	71.1 [1015]	101.5 [1450]	122.5 [1750]
Flow 流量	l/min [gpm↓]	扭矩 N m [lb-in] 转速 Torque N m [lb-in] Speed Specification					
	2 [0.52]	3 [27]	9 [80]	14 [124]	19 [168]	26 [230]	30 [266]
		99rpm	96rpm	89rpm	74rpm	42rpm	21rpm
	4 [1.05]	4 [35]	9 [80]	14 [124]	19 [168]	26 [230]	31 [274]
		197rpm	191rpm	182rpm	178rpm	134rpm	112rpm
	8 [2.1]	4 [35]	9 [80]	13 [115]	19 [168]	27 [239]	31 [274]
		398rpm	395rpm	391rpm	377rpm	340rpm	319rpm
	12 [3.15]	3 [27]	8 [71]	13 [115]	18 [159]	26 [230]	31 [274]
		596rpm	594rpm	588rpm	579rpm	545rpm	523rpm
	15 [3.95]	3 [27]	8 [71]	12 [106]	17 [150]	25 [221]	30 [266]
745rpm		741rpm	738rpm	728rpm	695rpm	684rpm	
20 [5.25]	1 [9]	6 [53]	11 [97]	19 [168]	24 [212]	29 [257]	
Max Cont.	998rpm	995rpm	991rpm	985rpm	962rpm	916rpm	
25 [6.57]		4 [35]	9 [80]	14 [124]	23 [204]	28 [248]	
Max Int.		1247rpm	1245rpm	1242rpm	1189rpm	1180rpm	



Flow Data 流量参数

GM32		31.6cm ³ /rev (1.90in ³ /rev)				最高连续 Max Cont.	最高断续 Max Int.	
压力 Pressure bar [psi→]		20.3 [290]	35.7 [510]	50.8 [725]	71.1 [1015]	101.5 [1450]	122.5 [1750]	142.1 [2030]
Flow 流量	l/min [gpm↓]	扭矩 N m [lb-in] 转速 Torque N m [lb-in] Speed Specification						
	2 [0.52]	7 [62]	15 [133]	21 [186]	28 [248]	40 [354]		
		61rpm	57rpm	52rpm	47rpm	16rpm		
	4 [1.05]	7 [62]	15 [133]	21 [186]	29 [257]	41 [363]	48 [425]	57 [504]
		126rpm	121rpm	114rpm	106rpm	82rpm	67rpm	49rpm
	8 [2.1]	7 [62]	15 [133]	21 [186]	29 [257]	41 [363]	49 [434]	58 [513]
		250rpm	244rpm	239rpm	231rpm	207rpm	194rpm	167rpm
	12 [3.15]	6 [53]	13 [115]	20 [177]	28 [248]	40 [354]	48 [425]	58 [513]
		378rpm	374rpm	369rpm	362rpm	338rpm	322rpm	297rpm
	15 [3.95]	4 [35]	12 [106]	18 [159]	27 [238]	39 [345]	47 [416]	57 [504]
476rpm		472rpm	468rpm	462rpm	441rpm	429rpm	406rpm	
20 [5.25]	3 [27]	10 [89]	17 [150]	25 [221]	37 [327]	46 [407]	55 [487]	
Max Cont.		633rpm	630rpm	627rpm	619rpm	601rpm	585rpm	566rpm
25 [6.57]	1 [9]	8 [71]	15 [133]	23 [204]	35 [310]	43 [381]	52 [460]	
Max Int.		791rpm	789rpm	787rpm	783rpm	766rpm	753rpm	732rpm
GM40		39.8cm ³ /rev (2.39in ³ /rev)				最高连续 Max Cont.	最高断续 Max Int.	
压力 Pressure bar [psi→]		35.7 [510]	50.8 [725]	71.1 [1015]	86.3 [1233]	101.5 [1450]	122.5 [1750]	
Flow 流量	l/min [gpm↓]	扭矩 N m [lb-in] 转速 Torque N m [lb-in] Speed Specification						
	2 [0.52]	16 [142]	27 [239]	36 [319]	44 [389]	51 [451]		
		45rpm	40rpm	34rpm	28rpm	17rpm		
	4 [1.05]	16 [142]	27 [239]	37 [327]	44 [389]	52 [460]	62 [549]	
		96rpm	93rpm	85rpm	79rpm	65rpm	52rpm	
	8 [2.1]	15 [133]	26 [230]	36 [319]	44 [389]	52 [460]	63 [558]	
		197rpm	195rpm	182rpm	176rpm	166rpm	154rpm	
	12 [3.15]	14 [124]	25 [221]	35 [310]	43 [381]	51 [451]	62 [549]	
		293rpm	287rpm	282rpm	277rpm	268rpm	257rpm	
	15 [3.95]	13 [115]	24 [212]	34 [301]	42 [372]	50 [443]	62 [549]	
371rpm		365rpm	360rpm	355rpm	347rpm	338rpm		
20 [5.25]	10 [89]	21 [186]	31 [274]	39 [345]	48 [425]	59 [522]		
Max Cont.		497rpm	492rpm	487rpm	480rpm	472rpm	463rpm	
25 [6.57]	7 [62]	19 [168]	29 [257]	37 [327]	44 [389]	56 [496]		
Max Int.		622rpm	617rpm	612rpm	607rpm	600rpm	591rpm	
GM50		50.3cm ³ /rev (3.02in ³ /rev)				最高连续 Max Cont.	最高断续 Max Int.	
压力 Pressure bar [psi→]		15.3 [218]	35.7 [510]	50.8 [725]	71.1 [1015]	101.5 [1450]		
Flow 流量	l/min [gpm↓]	扭矩 N m [lb-in] 转速 Torque N m [lb-in] Speed Specification						
	2 [0.52]	11 [97]	23 [204]	36 [319]	50 [443]			
		37rpm	33rpm	27rpm	22rpm			
	4 [1.05]	11 [97]	22 [195]	36 [319]	50 [443]	70 [620]		
		76rpm	73rpm	68rpm	63rpm	55rpm		
	8 [2.1]	11 [97]	21 [186]	35 [310]	50 [443]	71 [628]		
		157rpm	154rpm	149rpm	145rpm	137rpm		
	12 [3.15]	11 [97]	20 [177]	33 [292]	49 [434]	71 [628]		
		237rpm	234rpm	231rpm	226rpm	218rpm		
	15 [3.95]	10 [89]	18 [159]	32 [283]	47 [415]	69 [611]		
296rpm		295rpm	294rpm	288rpm	282rpm			
20 [5.25]	8 [71]	14 [124]	29 [257]	44 [389]	64 [566]			
Max Cont.		395rpm	395rpm	393rpm	390rpm	381rpm		
25 [6.57]	4 [35]	10 [89]	25 [221]	40 [354]	59 [522]			
Max Int.		498rpm	496rpm	494rpm	490rpm	484rpm		

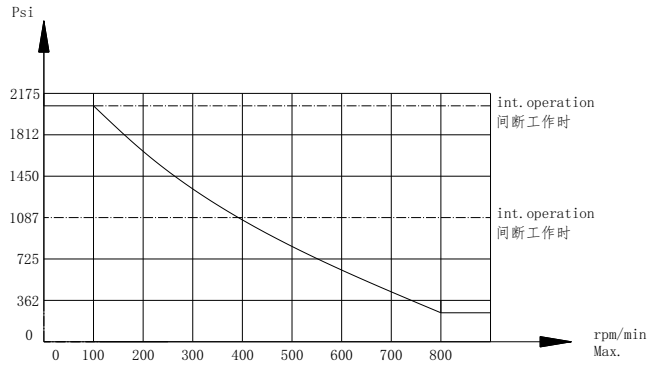
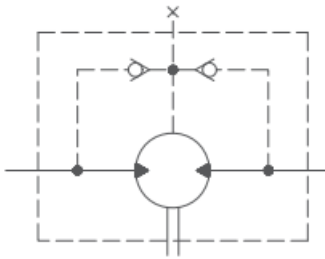
Technical Data 技术数据

Hydraulic orbit Motors GPH

Permissible shaft seal pressure

GPH系列摆线液压马达

输出轴密封圈允许承受的压力



In applications without drain line, output shaft seal exceeds a bit of the pressure in the return line. When applications use the drain line, the pressure of output shaft seal equals the pressure in drain line.

在外卸油管的使用中，输出轴密封圈上的压力微高于回油管中的压力。当使用外卸油管时，输出轴密封圈上的压力则与外泄油管中的压力相同。

Case Drain

泄油口：

In applications without a motor drain line, the pressure exerted on the shaft seal is marginally in excess of the return line pressure. When the Drain line is used, the pressure exerted on the shaft seal is equal to the return line pressure.

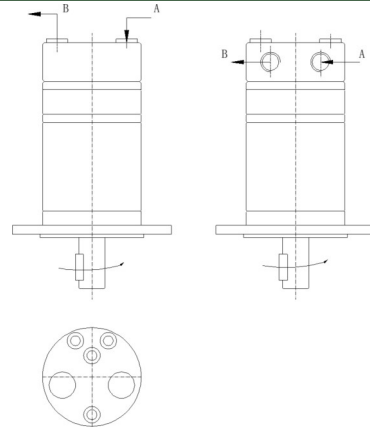
在没有使用排油管的应用中，施加在轴封上的压力略高于回油管压力。使用排油管时，施加在轴封上的压力等于回油管压力。

Standard direction of shaft rotation: Standard

轴旋转的标准方向：标准

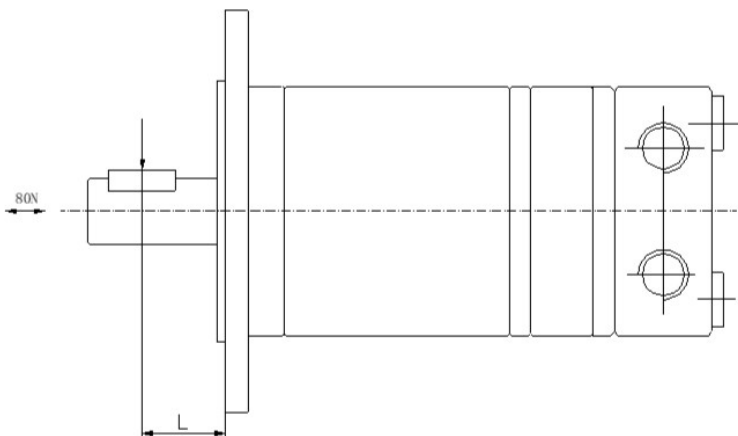
When facing shaft end of motor, shaft to rotate: Clock-wise when port "A" is pressurized. Counter-clockwise port "B" is pressurized.

当面对电动机的轴端时，轴旋转：当端口“A”增压时，顺时针方向旋转。当端口“B”增压时，逆时针方向旋转。



Axial and Radial forces

轴向力和径向力



$$Fr = \frac{130400}{61.5 + L} n$$

Fr =Radial Force (daN)

Fr =径向力 (daN)

L =Distance (mm)

L =距离 (mm)

n =Speed (rpm)

n =转速 (rpm)

Rhomb-flange L=15mm

菱形法兰 L=15mm

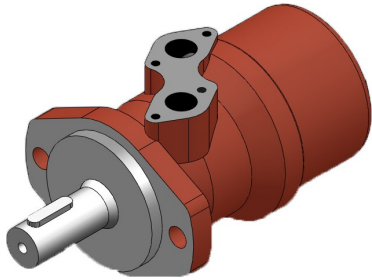
Square-flange L=20mm

方形法兰 L=20mm

General 概述

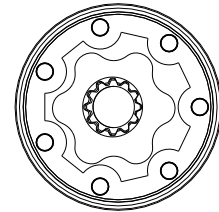
APPLICATION 应用

- ◇ Conveyors 输送机械
- ◇ Feeding machinery of robots and manipulators 机器人和操纵器的给料机械
- ◇ Metal working machines 金属加工器械
- ◇ Textile machines 纺织机
- ◇ Agricultural machines 农用机械
- ◇ Food industries 食品工业
- ◇ Lawn mower 割草机



OPTIONS 可选功能

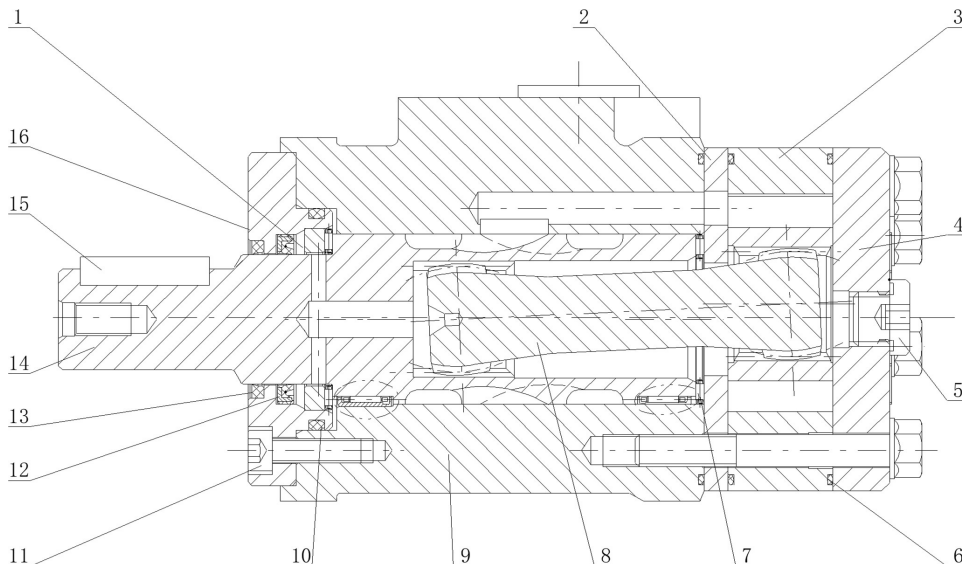
- ◇ Flange mount 法兰安装
- ◇ Motor with needle roller bearing 马达带滚针轴承
- ◇ Speed sensing 速度传感
- ◇ Side and bottom ports 侧面和底部油口
- ◇ Shaft seal for high and low pressure 轴油封可适用于高压和低压
- ◇ Shafts-straight, splined and tapered 轴伸-平键, 花键, 锥键
- ◇ Metric and BSPP ports 公制和BSPP油口
- ◇ Other special features 其他功能



- ◇ Shaft distribution flow 轴配流

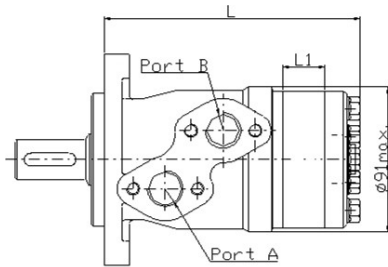
技术指标

型号 Model		GP40	GP50	GP80	GP100	GP125	GP160	GP200	GP250	GP315	GP400
排量 Disp.	in ³ /rev	2.44	3.02	4.83	6.04	7.55	9.66	12.1	15.1	19.3	24.16
	cm ³ /rev	40	49.5	79.2	99	123.8	158.4	198	247.5	316.8	396
最高转速 Max Speed rpm	连续 cont.	1500	1210	755	605	486	378	303	242	190	150
	断续 int.	1750	1515	945	755	605	472	378	303	236	189
最大扭矩 Max Torque N m [lb-in]	连续 cont.	62 [550]	94 [835]	151 [1340]	193 [1710]	237 [2100]	313 [2770]	366 [3240]	380 [3360]	380 [3360]	360 [3190]
	断续 int.	82 [730]	119 [1050]	195 [1725]	237 [2100]	298 [2640]	378 [3345]	456 [4035]	583 [5160]	560 [4960]	590 [5240]
最大压力差 Max Dif. bar [psi]	连续 cont.	120 [1750]	140 [2030]	140 [2030]	140 [2030]	140 [2030]	140 [2030]	140 [2030]	110 [1600]	90 [1300]	70 [1015]
	断续 int.	155 [2550]	175 [2540]	175 [2540]	175 [2540]	175 [2540]	175 [2540]	175 [2540]	175 [2540]	140 [2030]	115 [1655]
最大流量 Max Flow l/min [gpm]	连续 cont.	60 [15.9]	60 [15.9]	60 [15.9]	60 [15.9]	60 [15.9]	60 [15.9]	60 [15.9]	60 [15.9]	60 [15.9]	60 [15.9]
	断续 int.	70 [18.5]	75 [19.8]	75 [19.8]	75 [19.8]	75 [19.8]	75 [19.8]	75 [19.8]	75 [19.8]	75 [19.8]	75 [19.8]
重量 Weight kg [lbs]		5.7 [12.6]	5.8 [12.8]	5.9 [13.2]	6.1 [13.5]	6.2 [13.7]	6.4 [14.1]	6.6 [14.6]	6.8 [15]	7.1 [15.6]	7.6 [16.8]

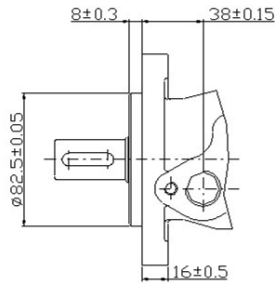
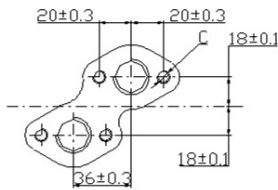


1. Thrust Washer 止推垫圈
2. Wear Plate 耐磨板
3. Gear Set 齿轮组
4. End Cover 端盖
5. Case Drain Plug 外壳排水塞
6. O-ring O型圈
7. Axial Needle Bearing 推力滚针轴承
8. Cardan Joint 万向节
9. Housing 外壳
10. O-ring O型圈
11. Bolt 螺栓
12. Shaft Seal 轴封
13. Dust Seal 防尘密封
14. Output Shaft 输出轴
15. Key 键
16. Front Cover 前盖

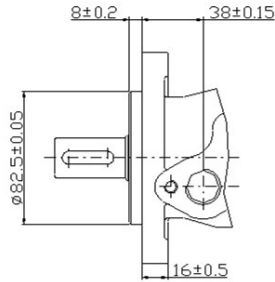
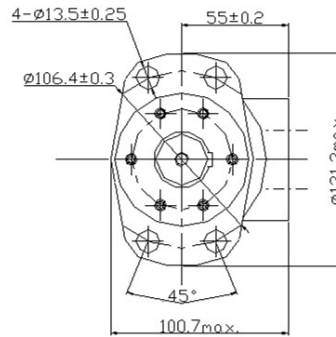
Dimensions and Mounting Data 尺寸和安装参数



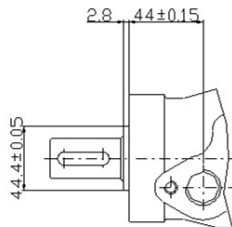
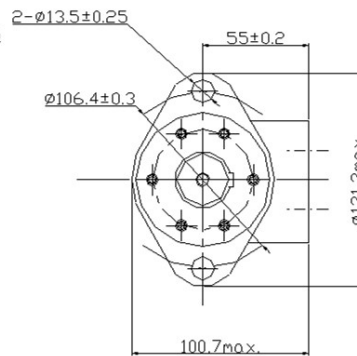
Port 油口



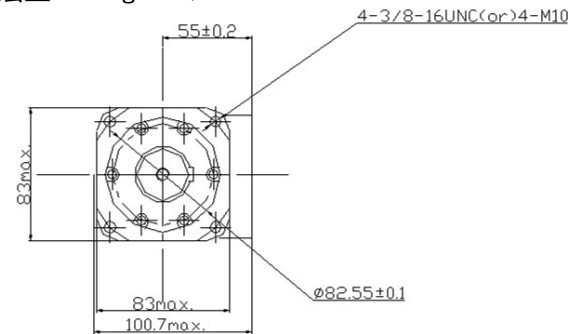
法兰 Flange A4



法兰 Flange A2



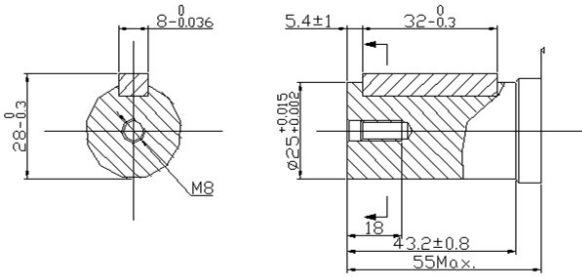
法兰 Flange H4/H5



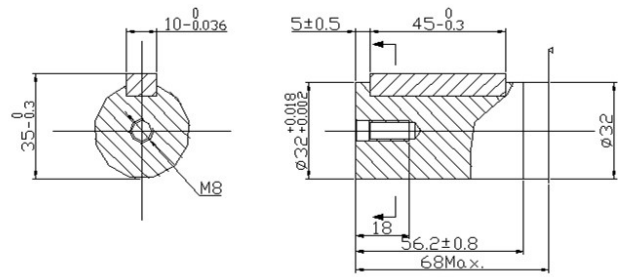
Model 型号	L	L1
GP36	141	7
GP50	141	7
GP80	144.5	10.5
GP100	147	13
GP125	150	16
GP160	155	21
GP200	160	26
GP250	166	32
GP315	176	42
GP400	186	52

Port 油口	G1 (Depth)	M1 (Depth)	U2 (Depth)	U1 (Depth)	G2 (Depth)
	深度	深度	深度	深度	深度
P(A,B)	G1/2 (15)	M22x1.5 (15)	7/8-14 O-ring (17)	1/2-14NPTF (15)	PT (RC) 1/2 (15)
T	G1/4 (12)	M14x1.5 (12)	7/16-20UNF (12)	7/16-20UNF (12)	PT (RC) 1/4 (9.7)
C	4-M8 (13)	4-M8 (13)	4-5/16-18UNC (13)	4-5/16-18UNC (13)	4-M8 (13)

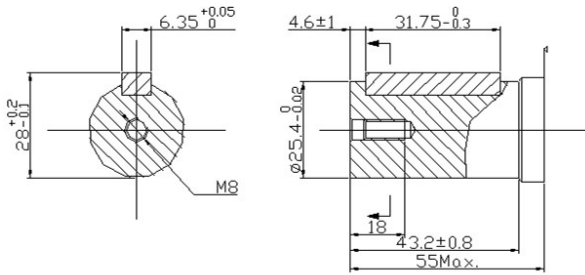
GP Shaft Extension Dimensions Data GP系列轴伸尺寸参数



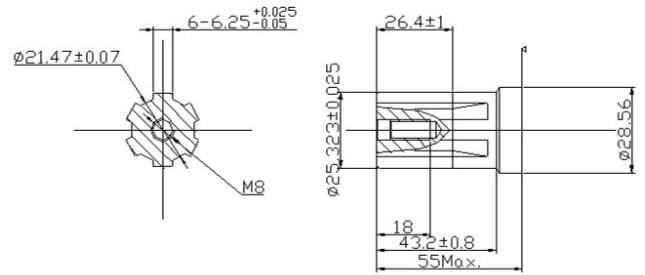
Shaft S1: Cylindrical shaft $\varnothing 25$
 Parallel key 8x7x32
 S1轴: 圆柱轴 $\varnothing 25$
 平键 8x7x32



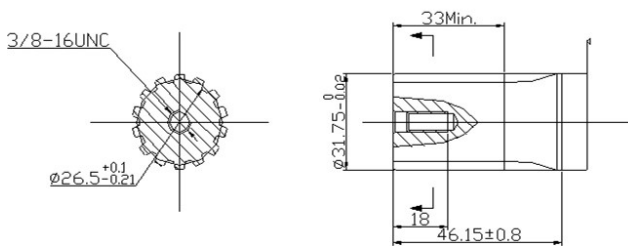
Shaft S4: Cylindrical shaft $\varnothing 32$
 Parallel key 10x8x45
 S4轴: 圆柱轴 $\varnothing 32$
 平键 10x8x45



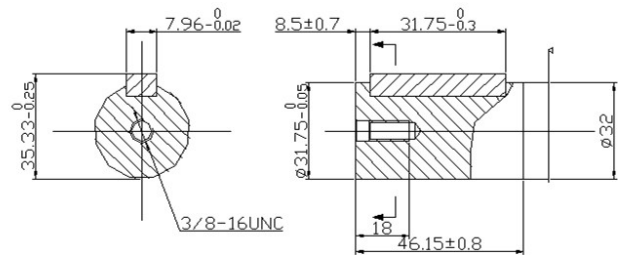
Shaft S2: Cylindrical shaft $\varnothing 25.4$
 Parallel key 6.35x6.35x31.75
 S2轴: 圆柱轴 $\varnothing 25.4$
 平键 6.35x6.35x31.75



Shaft R1: Splined SAE 6B
 R1轴: 花键轴 SAE6B

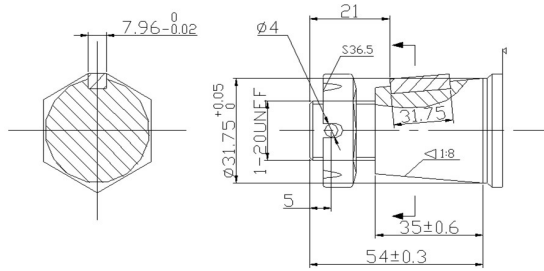


Shaft R2: Splined 14-DP12/24
 R2轴: 花键齿 14-DP16/32

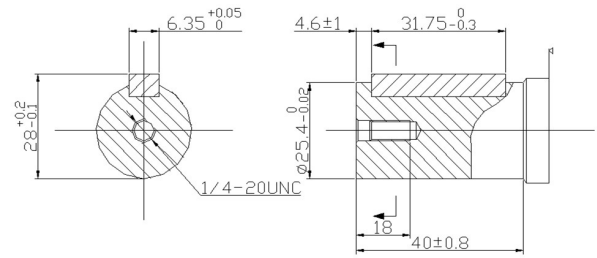


Shaft S5: Cylindrical shaft $\varnothing 31.75$
 Parallel key 7.96x7.96x31.75
 S5轴: 圆柱轴 $\varnothing 31.75$
 平键 7.96x7.96x31.75

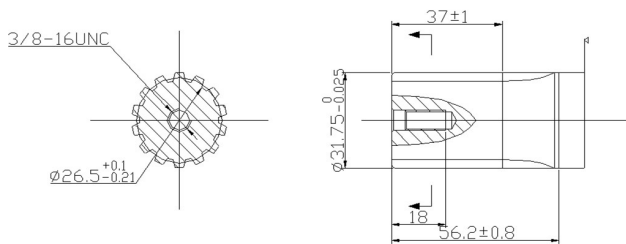
GP Shaft Extension Dimensions Data GP系列轴伸尺寸参数



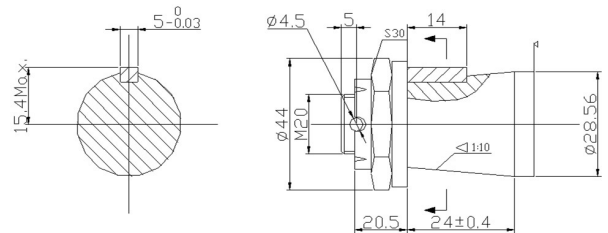
Shaft T2: Tapered shaft $\varnothing 31.75$
 Parallel key 7.96x7.96x31.75
 Tightening torque: 200±10Nm
 T2轴: 锥轴 $\varnothing 31.75$
 平键 7.96x7.96x31.75
 螺母拧紧力矩: 200±10Nm



Shaft S3: Cylindrical shaft $\varnothing 25.4$
 Parallel key 6.35x6.35x31.75
 S3轴: 圆柱轴 $\varnothing 25.4$
 平键 6.35x6.35x31.75



Shaft R3: Splined 14-DP12/24
 R3轴: 花键齿 14-DP16/32



Shaft T1: Tapered shaft $\varnothing 28.56$
 Parallel key B5x5x14
 Tightening torque: 100±10Nm
 T1轴: 锥轴 $\varnothing 28.56$
 平键 B5x5x14
 螺母拧紧力矩: 100±10Nm



GP Shaft Extension Dimensions Data GP系列轴伸尺寸参数

Ordering Example:		Model	Displacement	Flange	Drive shaft	Ports	Other functions
		GP	40	A2	S1	G1	ACA
Model	Disp.	Flange		Drive shaft		Ports	
GP	40			S1=Shaft \varnothing 25, parallel key 8x7x32			
	50	A2=2-Hole SAE A Flange, Pilot \varnothing 82.5x8		S2=Shaft \varnothing 25.4, parallel key 6.35x6.35x31.75		G1=G1/2 manifold mount 4xM8, G1/4	
	80			R1=Shaft \varnothing 25.4, splined tooth SAE 6B		M1=M22x1.5 manifold mount 4xM8, M14x1.5	
	100	A4=4-Hole SAE A Flange, Pilot \varnothing 82.5x8		S3=Short shaft \varnothing 25.4, parallel key 6.35x6.35x31.75		U2=7/8-14UNF 0-ring manifold 4x5/16-18UNC, 7/16-20UNF	
	125			S4=Shaft \varnothing 32, parallel key 10x8x45		U1=1/2-14NPTF manifold 4x5/16-18UNC, 7/16-20UNF	
	160	H4=4-3/8-16 Hole Square Flange, Pilot \varnothing 44.4x2.8		R2=Shaft \varnothing 31.75, Splined tooth 14-DP12/24		G2=PT (Rc) 1/2 manifold 4xM8, PT (Rc) 1/4	
	200			R3=Long shaft \varnothing 31.75, Splined tooth 14-DP12/24			
	250	H5=4-M10 Hole Square Flange, Pilot \varnothing 44.4x2.8		S5=Shaft \varnothing 31.75, parallel key 7.96x7.96x31.75			
	315			T1=Tapered shaft \varnothing 28.56, parallel key B5x5x14			
400			T2=Tapered shaft \varnothing 31.75, parallel key 7.96x7.96x25.4				

Rotation direction	Paint	Unusually function
A=Standard R=Opposite	A=No paint B=Blue C=Black S=Silver grey	A=Standard N=Big radial force D=No case drain F=Free running L=Low speed V=High temperature S=Low temperature



GP Shaft Extension Dimensions Data GP系列轴伸尺寸参数

订购示例:		型号	排量	法兰	传动轴	油口	其他功能		
		GP	40	A2	S1	G1	ACA		
型号	排量	法兰		传动轴		油口			
GP	40	A2=2孔 SAE A法兰, 止口 $\varnothing 82.5 \times 8$ A4=4孔 SAE A法兰, 止口 $\varnothing 82.5 \times 8$ H4=4-3/8-16 孔方形法兰, 止口 $\varnothing 44.4 \times 2.8$ H5=4-M10 孔方形法兰, 止口 $\varnothing 44.4 \times 2.8$		S1=轴 $\varnothing 25$, 平键 8x7x32 S2=轴 $\varnothing 25.4$, 平键 6.35x6.35x31.75 R1=轴 $\varnothing 25.4$, 花键 SAE 6B S3=短轴 $\varnothing 25.4$, 平键 6.35x6.35x31.75 S4=轴 $\varnothing 32$, 平键 10x8x45 R2=轴 $\varnothing 31.75$, 花键 14-DP12/24 R3=长轴 $\varnothing 31.75$, 花键 14-DP12/24 S5=轴 $\varnothing 31.75$, 平键 7.96x7.96x31.75 T1=锥轴 $\varnothing 28.56$, 平键 B5x5x14 T2=锥轴 $\varnothing 31.75$, 平键 7.96x7.96x25.4		G1=G1/2 集成块安装 4xM8, G1/4 M1=M22x1.5 集成块安装 4xM8, M14x1.5 U2=7/8-14UNF O型圈 集成块安装 4x5/16-18UNC, 7/16-20UNF U1=1/2-14NPTF 集成块安装 4x5/16-18UNC, 7/16-20UNF G2=PT (Rc) 1/2 集成块安装 4xM8, PT (Rc) 1/4			
	50								
	80								
	100								
	125								
	160								
	200								
	250								
	315								
	400								

旋转方向	喷漆	不常用的功能
A=标准 R=反向	A=无喷漆 B=蓝色 C=黑色 S=银灰色	A=标准 N=大径向力 D=无泄油口 F=自由转 L=低速 V=高温 S=低温



Flow Data 流量参数

GP40		40cm ³ /rev (2.44in ³ /rev)						最高连续 Max Cont.	最高断续 Max Int.
压力 Pressure bar [psi→]		30.5 [435]	60.9 [870]	71.1 [1015]	81.2 [1160]	101.5 [1450]	111.7 [1595]	126.9 [1813]	167.5 [2393]
Flow 流量	l/min[gpm↓]	扭矩 N m [lb-in] 转速 Torque N m [lb-in] Speed Specification							
	8 [2.11]	13 [115]	25 [221]	29 [257]	34 [301]	43 [381]	48 [425]		
		214rpm	205rpm	200rpm	194rpm	187rpm	179rpm		
	15 [3.96]	13 [115]	25 [221]	29 [257]	34 [301]	43 [381]	48 [425]	56 [496]	75 [664]
		406rpm	398rpm	391rpm	383rpm	374rpm	366rpm	353rpm	324rpm
	20 [5.28]	13 [115]	24 [212]	29 [257]	34 [301]	43 [381]	48 [425]	56 [496]	76 [673]
		541rpm	534rpm	528rpm	521rpm	513rpm	500rpm	486rpm	458rpm
	30 [7.93]	12 [106]	24 [212]	29 [257]	34 [301]	43 [381]	48 [425]	56 [496]	76 [673]
		814rpm	804rpm	792rpm	778rpm	763rpm	749rpm	726rpm	701rpm
	35 [9.25]	12 [106]	23 [204]	28 [248]	34 [301]	43 [381]	48 [425]	56 [496]	76 [673]
		952rpm	944rpm	930rpm	913rpm	897rpm	879rpm	858rpm	833rpm
	40 [10.57]	12 [106]	23 [204]	28 [248]	32 [283]	41 [363]	47 [416]	55 [487]	75 [664]
		1090rpm	1078rpm	1064rpm	1048rpm	1024rpm	998rpm	977rpm	943rpm
	45 [11.89]	11 [97]	22 [195]	26 [230]	32 [283]	41 [363]	46 [407]	54 [478]	74 [655]
1232rpm		1218rpm	1196rpm	1175rpm	1149rpm	1118rpm	1080rpm	1044rpm	
55 [14.53]	6 [53]	15 [133]	22 [195]	28 [248]	37 [327]	44 [389]	52 [460]	71 [628]	
	1505rpm	1494rpm	1480rpm	1466rpm	1438rpm	1406rpm	1367rpm	1309rpm	
60 [15.85]	3 [27]	11 [97]	18 [159]	20 [177]	30 [266]	38 [336]	49 [434]	67 [593]	
	1650rpm	1640rpm	1626rpm	1603rpm	1571rpm	1536rpm	1502rpm	1446rpm	

GP50		49.5cm ³ /rev (3.02in ³ /rev)						最高连续 Max Cont.	最高断续 Max Int.
压力 Pressure bar [psi→]		30.5 [435]	60.9 [870]	81.2 [1160]	101.5 [1450]	126.9 [1813]	142.2 [2031]	162.5 [2321]	177.7 [2538]
Flow 流量	l/min[gpm↓]	扭矩 N m [lb-in] 转速 Torque N m [lb-in] Speed Specification							
	8 [2.11]	20 [177]	41 [363]	56 [496]	69 [611]	89 [788]	95 [841]		
		151rpm	134rpm	115rpm	90rpm	56rpm	42rpm		
	15 [3.96]	19 [168]	40 [354]	56 [496]	71 [628]	91 [805]	100 [885]	112 [991]	120 [1062]
		286rpm	274rpm	261rpm	243rpm	204rpm	182rpm	139rpm	102rpm
	20 [5.28]	18 [159]	39 [345]	55 [487]	71 [628]	92 [814]	101 [894]	117 [1036]	128 [1133]
		382rpm	373rpm	361rpm	348rpm	318rpm	309rpm	287rpm	251rpm
	30 [7.93]	17 [150]	38 [336]	55 [487]	71 [628]	91 [805]	98 [867]	116 [1027]	124 [1097]
		573rpm	568rpm	558rpm	535rpm	503rpm	488rpm	462rpm	440rpm
	35 [9.25]	17 [150]	38 [336]	54 [478]	69 [611]	89 [788]	98 [867]	117 [1036]	124 [1097]
		670rpm	661rpm	652rpm	640rpm	606rpm	589rpm	562rpm	548rpm
	45 [11.89]	14 [124]	36 [319]	53 [469]	67 [593]	88 [779]	98 [867]	114 [1009]	123 [1089]
		863rpm	858rpm	849rpm	837rpm	807rpm	788rpm	764rpm	746rpm
	55 [14.53]	12 [106]	33 [292]	50 [443]	65 [575]	85 [752]	96 [850]	111 [982]	121 [1071]
1055rpm		1042rpm	1028rpm	1010rpm	979rpm	963rpm	947rpm	920rpm	
60 [15.85]	10 [89]	32 [283]	47 [416]	64 [566]	83 [735]	94 [832]	108 [956]	119 [1053]	
	1150rpm	1143rpm	1126rpm	1111rpm	1079rpm	1065rpm	1043rpm	1015rpm	
75 [19.82]	6 [53]	25 [221]	42 [372]	56 [496]	76 [673]	87 [770]	101 [894]	112 [991]	
	1430rpm	1416rpm	1395rpm	1367rpm	1351rpm	1335rpm	1312rpm		



Flow Data 流量参数

GP80		79.2cm ³ /rev (4.83in ³ /rev)						最高连续 Max Cont.	最高断续 Max Int.	
压力 Pressure bar [psi→]		30.5 [435]	60.9 [870]	81.2 [1160]	101.5 [1450]	126.9 [1813]	142.2 [2031]	162.5 [2321]	177.7 [2538]	
Flow 流量	l/min [gpm↓]	扭矩 N m [lb-in] 转速 Torque N m [lb-in] Speed Specification								
	8 [2.11]	32 [283]	62 [549]	85 [752]	104 [920]	129 [1142]	144 [1275]			
		97rpm	87rpm	74rpm	55rpm	33rpm	22rpm			
	15 [3.96]	32 [283]	63 [558]	84 [743]	107 [947]	126 [1115]	144 [1275]	165 [1460]		
		186rpm	181rpm	170rpm	154rpm	132rpm	118rpm	86rpm		
	20 [5.28]	31 [274]	63 [558]	84 [743]	107 [947]	132 [1168]	146 [1292]	168 [1487]	185 [1637]	
		251rpm	243rpm	236rpm	225rpm	207rpm	196rpm	178rpm	155rpm	
	30 [7.93]	31 [274]	62 [549]	83 [735]	106 [938]	131 [1159]	146 [1292]	168 [1487]	186 [1646]	
		381rpm	379rpm	368rpm	355rpm	332rpm	316rpm	285rpm	263rpm	
	35 [9.25]	30 [266]	59 [522]	81 [717]	102 [903]	130 [1151]	144 [1275]	167 [1478]	185 [1637]	
		443rpm	435rpm	426rpm	415rpm	397rpm	383rpm	361rpm	342rpm	
	45 [11.89]	25 [221]	58 [513]	79 [699]	100 [885]	126 [1115]	142 [1257]	165 [1460]	182 [1611]	
		570rpm	564rpm	554rpm	543rpm	526rpm	509rpm	483rpm	458rpm	
	55 [14.53]	23 [204]	57 [504]	78 [690]	97 [859]	124 [1097]	140 [1239]	161 [1425]	179 [1584]	
696rpm		685rpm	672rpm	656rpm	643rpm	630rpm	602rpm	579rpm		
60 [15.85]	20 [177]	53 [469]	75 [664]	94 [832]	120 [1062]	137 [1213]	160 [1416]	177 [1567]		
	Max Cont.	761rpm	753rpm	744rpm	736rpm	720rpm	706rpm	681rpm	660rpm	
75 [19.82]	14 [124]	44 [389]	67 [593]	87 [770]	112 [991]	151 [1336]	169 [1496]	169 [1496]		
	Max Int.	948rpm	940rpm	931rpm	920rpm	906rpm	890rpm	871rpm	854rpm	

GP100		99cm ³ /rev (6.04in ³ /rev)						最高连续 Max Cont.	最高断续 Max Int.	
压力 Pressure bar [psi→]		30.5 [435]	60.9 [870]	81.2 [1160]	101.5 [1450]	126.9 [1813]	142.2 [2031]	162.5 [2321]	177.7 [2538]	
Flow 流量	l/min [gpm↓]	扭矩 N m [lb-in] 转速 Torque N m [lb-in] Speed Specification								
	8 [2.11]	40 [354]	77 [682]	105 [929]	130 [1151]	161 [1425]	180 [1593]			
		81rpm	75rpm	69rpm	57rpm	36rpm	24rpm			
	15 [3.96]	39 [345]	77 [682]	106 [938]	130 [1151]	160 [1416]	180 [1593]	208 [1841]		
		152rpm	149rpm	145rpm	140rpm	122rpm	103rpm	81rpm		
	20 [5.28]	36 [319]	74 [655]	104 [920]	128 [1133]	161 [1425]	179 [1584]	208 [1814]	227 [2009]	
		204rpm	200rpm	195rpm	190rpm	177rpm	166rpm	148rpm	133rpm	
	30 [7.93]	33 [292]	72 [637]	103 [912]	125 [1106]	160 [1416]	177 [1567]	203 [1797]	225 [1991]	
		308rpm	304rpm	298rpm	290rpm	280rpm	268rpm	255rpm	231rpm	
	35 [9.25]	30 [266]	70 [620]	98 [867]	122 [1080]	159 [1407]	176 [1558]	202 [1788]	224 [1983]	
		360rpm	352rpm	343rpm	331rpm	320rpm	306rpm	294rpm	275rpm	
	45 [11.89]	29 [257]	67 [593]	95 [841]	118 [1044]	155 [1372]	174 [1540]	200 [1770]	220 [1947]	
		462rpm	458rpm	451rpm	443rpm	433rpm	419rpm	402rpm	383rpm	
	55 [14.53]	25 [221]	64 [566]	93 [823]	116 [1027]	152 [1345]	170 [1505]	198 [1752]	217 [1921]	
566rpm		558rpm	549rpm	540rpm	529rpm	515rpm	498rpm	478rpm		
60 [15.85]	22 [195]	60 [531]	91 [805]	114 [1009]	149 [1319]	167 [1478]	194 [1717]	213 [1885]		
	Max Cont.	618rpm	611rpm	601rpm	589rpm	580rpm	570rpm	558rpm	540rpm	
75 [19.82]	15 [133]	54 [478]	83 [735]	106 [938]	141 [1248]	160 [1416]	186 [1646]	205 [1814]		
	Max Int.	771rpm	763rpm	755rpm	744rpm	735rpm	724rpm	708rpm	693rpm	



Flow Data 流量参数

GP125		123.8cm ³ /rev(7.55in ³ /rev)						最高连续 Max Cont.	最高断续 Max Int.
压力 Pressure bar [psi→]		30.5 [435]	60.9 [870]	81.2 [1160]	101.5 [1450]	126.9 [1813]	142.2 [2031]	162.5 [2321]	177.7 [2538]
Flow 流量	l/min(gpm↓)	扭矩 N m [lb-in] 转速 Torque N m [lb-in] Speed Specification							
	8 [2.11]	51 [451]	98 [867]	137 [1213]	168 [1487]	208 [1841]	236 [2089]		
		63rpm	60rpm	55rpm	47rpm	28rpm	15rpm		
	15 [3.96]	51 [451]	101 [894]	138 [1221]	168 [1487]	209 [1850]	236 [2089]	267 [2363]	
		121rpm	116rpm	110rpm	102rpm	89rpm	73rpm	48rpm	
	20 [5.28]	48 [425]	98 [867]	135 [1195]	167 [1478]	211 [1867]	237 [2098]	269 [2381]	290 [2567]
		162rpm	158rpm	153rpm	148rpm	137rpm	128rpm	109rpm	94rpm
	30 [7.93]	46 [407]	96 [850]	132 [1168]	164 [1452]	209 [1850]	232 [2053]	264 [2337]	287 [2540]
		243rpm	239rpm	234rpm	227rpm	216rpm	202rpm	189rpm	176rpm
	35 [9.25]	42 [372]	92 [814]	130 [1151]	160 [1416]	206 [1823]	229 [2027]	260 [2301]	284 [2514]
		284rpm	279rpm	274rpm	269rpm	259rpm	247rpm	231rpm	222rpm
	45 [11.89]	37 [327]	89 [788]	125 [1106]	157 [1390]	201 [1779]	224 [1983]	261 [2310]	281 [2487]
		370rpm	362rpm	355rpm	348rpm	340rpm	327rpm	310rpm	296rpm
	55 [14.53]	33 [292]	84 [743]	122 [1080]	152 [1345]	196 [1735]	218 [1929]	252 [2230]	275 [2434]
452rpm		446rpm	438rpm	431rpm	420rpm	412rpm	402rpm	384rpm	
60 [15.85]	29 [257]	78 [690]	117 [1036]	146 [1292]	191 [1690]	215 [1903]	248 [2195]	272 [2407]	
	Max Cont.	490rpm	482rpm	475rpm	468rpm	459rpm	448rpm	439rpm	427rpm
75 [19.82]	18 [159]	66 [584]	107 [947]	133 [1177]	179 [1584]	202 [1788]	236 [2089]	260 [2301]	
	Max Int.	615rpm	606rpm	598rpm	586rpm	575rpm	563rpm	549rpm	528rpm

GP160		158.4cm ³ /rev(9.66in ³ /rev)						最高连续 Max Cont.	最高断续 Max Int.
压力 Pressure bar [psi→]		30.5 [435]	60.9 [870]	81.2 [1160]	101.5 [1450]	126.9 [1813]	142.2 [2031]	162.5 [2321]	177.7 [2538]
Flow 流量	l/min(gpm↓)	扭矩 N m [lb-in] 转速 Torque N m [lb-in] Speed Specification							
	8 [2.11]	62 [549]	120 [1062]	170 [1505]	212 [1876]	263 [2328]	290 [2567]		
		49rpm	48rpm	46rpm	42rpm	26rpm	14rpm		
	15 [3.96]	60 [531]	122 [1080]	172 [1522]	215 [1903]	264 [2337]	294 [2602]	340 [3009]	
		93rpm	91rpm	88rpm	85rpm	76rpm	68rpm	48rpm	
	20 [5.28]	57 [504]	120 [1062]	170 [1505]	214 [1894]	262 [2319]	290 [2567]	340 [3009]	371 [3284]
		125rpm	123rpm	120rpm	117rpm	110rpm	106rpm	92rpm	81rpm
	30 [7.93]	53 [469]	115 [1018]	164 [1452]	206 [1823]	259 [2292]	288 [2549]	335 [2965]	368 [3257]
		187rpm	184rpm	181rpm	178rpm	175rpm	168rpm	155rpm	139rpm
	35 [9.25]	49 [434]	110 [974]	160 [1416]	202 [1788]	255 [2257]	284 [2514]	328 [2903]	362 [3204]
		220rpm	216rpm	213rpm	209rpm	205rpm	202rpm	192rpm	176rpm
	45 [11.89]	44 [389]	102 [903]	154 [1363]	196 [1735]	248 [2195]	278 [2460]	321 [2841]	358 [3169]
		283rpm	280rpm	276rpm	272rpm	267rpm	260rpm	250rpm	238rpm
	55 [14.53]	40 [354]	99 [876]	148 [1310]	191 [1690]	243 [2151]	272 [2407]	316 [2797]	351 [3107]
345rpm		342rpm	340rpm	336rpm	331rpm	328rpm	320rpm	303rpm	
60 [15.85]	33 [292]	94 [832]	144 [1275]	188 [1664]	236 [2089]	267 [2363]	308 [2726]	345 [3053]	
	Max Cont.	377rpm	374rpm	371rpm	367rpm	363rpm	359rpm	353rpm	342rpm
75 [19.82]	19 [168]	80 [708]	124 [1097]	170 [1505]	216 [1912]	252 [2230]	296 [2620]	325 [2876]	
	Max Int.	473rpm	469rpm	465rpm	459rpm	453rpm	447rpm	440rpm	424rpm



Flow Data 流量参数

GP200		198cm ³ /rev(12.1in ³ /rev)						最高连续 Max Cont.	最高断续 Max Int.
压力 Pressure bar [psi→]		30.5 [435]	60.9 [870]	81.2 [1160]	101.5 [1450]	126.9 [1813]	142.2 [2031]	162.5 [2321]	177.7 [2538]
Flow 流量	l/min(gpm↓)	扭矩 N m [lb-in] 转速 Torque N m [lb-in] Speed Specification							
	8 [2.11]	79 [699]	164 [1452]	207 [1832]	250 [2213]	320 [2832]	360 [3186]		
		40rpm	39rpm	38rpm	35rpm	28rpm	22rpm		
	15 [3.96]	78 [690]	162 [1434]	205 [1814]	250 [2213]	322 [2850]	361 [3195]	410 [3629]	
		76rpm	75rpm	74rpm	71rpm	66rpm	61rpm	51rpm	
	20 [5.28]	76 [673]	158 [1398]	203 [1797]	247 [2186]	320 [2832]	358 [3169]	403 [3567]	422 [3735]
		100rpm	98rpm	97rpm	95rpm	92rpm	89rpm	73rpm	57rpm
	30 [7.93]	70 [620]	153 [1354]	200 [1770]	245 [2168]	315 [2788]	350 [3098]	398 [3523]	417 [3691]
		151rpm	149rpm	147rpm	145rpm	142rpm	139rpm	131rpm	120rpm
	35 [9.25]	66 [584]	149 [1319]	194 [1717]	232 [2053]	297 [2629]	343 [3036]	386 [3416]	415 [3673]
		177rpm	175rpm	173rpm	171rpm	168rpm	166rpm	160rpm	149rpm
	45 [11.89]	63 [558]	146 [1292]	190 [1682]	230 [2036]	294 [2602]	340 [3009]	383 [3390]	410 [3629]
		228rpm	226rpm	224rpm	221rpm	218rpm	215rpm	210rpm	198rpm
55 [14.53]	54 [478]	140 [1239]	181 [1602]	224 [1983]	286 [2531]	334 [2956]	371 [3284]	400 [3540]	
	280rpm	278rpm	276rpm	274rpm	271rpm	269rpm	263rpm	250rpm	
60 [15.85]	38 [336]	127 [1124]	164 [1452]	212 [1876]	270 [2390]	325 [2876]	356 [3151]	395 [3496]	
	Max Cont.	304rpm	302rpm	300rpm	297rpm	294rpm	291rpm	286rpm	272rpm
75 [19.82]	22 [195]	96 [850]	145 [1283]	192 [1699]	235 [2080]	293 [2593]	321 [2841]	367 [3248]	
	Max Int.	382rpm	378rpm	374rpm	371rpm	368rpm	364rpm	360rpm	350rpm

GP250		247.5cm ³ /rev(15.1in ³ /rev)						最高连续 Max Cont.	最高断续 Max Int.
压力 Pressure bar [psi→]		30.5 [435]	60.9 [870]	81.2 [1160]	101.5 [1450]	126.9 [1813]	142.2 [2031]	162.5 [2321]	177.7 [2538]
Flow 流量	l/min(gpm↓)	扭矩 N m [lb-in] 转速 Torque N m [lb-in] Speed Specification							
	8 [2.11]	96 [850]	190 [1682]	268 [2372]	326 [2885]	403 [3567]			
		30rpm	28rpm	24rpm	21rpm	11rpm			
	15 [3.96]	98 [867]	194 [1717]	270 [2390]	327 [2894]	405 [3585]	450 [3983]	510 [4514]	
		60rpm	58rpm	54rpm	50rpm	40rpm	30rpm	12rpm	
	20 [5.28]	92 [814]	188 [1664]	267 [2363]	325 [2876]	405 [3585]	456 [4036]	514 [4549]	565 [5001]
		82rpm	80rpm	77rpm	76rpm	69rpm	64rpm	52rpm	38rpm
	30 [7.93]	85 [752]	180 [1593]	259 [2292]	320 [2832]	400 [3540]	448 [3965]	513 [4540]	561 [4965]
		123rpm	120rpm	118rpm	114rpm	106rpm	98rpm	87rpm	76rpm
	35 [9.25]	77 [682]	176 [1558]	252 [2230]	309 [2753]	389 [3443]	436 [3859]	504 [4461]	557 [4930]
		143rpm	141rpm	139rpm	135rpm	128rpm	122rpm	112rpm	101rpm
	45 [11.89]	70 [620]	168 [1487]	243 [2151]	300 [2655]	377 [3337]	428 [3788]	495 [4381]	543 [4806]
		185rpm	182rpm	178rpm	174rpm	168rpm	161rpm	152rpm	139rpm
55 [14.53]	63 [558]	159 [1407]	237 [2098]	290 [2567]	369 [3266]	417 [3691]	483 [4275]	531 [4700]	
	226rpm	223rpm	218rpm	213rpm	209rpm	202rpm	193rpm	185rpm	
60 [15.85]	60 [531]	150 [1328]	228 [2018]	280 [2478]	358 [3169]	407 [3602]	473 [4186]	520 [4602]	
	Max Cont.	248rpm	246rpm	243rpm	239rpm	233rpm	226rpm	215rpm	207rpm
75 [19.82]	34 [301]	128 [1133]	202 [1788]	264 [2337]	342 [3027]	387 [3425]	448 [3965]	488 [4319]	
	Max Int.	309rpm	306rpm	302rpm	297rpm	292rpm	286rpm	278rpm	264rpm



Flow Data 流量参数

GP315		316.8cm ³ /rev (19.3in ³ /rev)					最高连续 Max Cont.	最高断续 Max Int.	
压力 Pressure bar [psi→]		30.5 [435]	50.8 [725]	71.1 [1015]	91.4 [1305]	101.5 [1450]	126.9 [1813]	142.2 [2031]	
Flow 流量	l/min[gpm↓]	扭矩 N m [lb-in] 转速 Torque N m [lb-in] Speed Specification							
	8 [2.11]	123 [1089]	215 [1903]	292 [2584]	368 [3257]	405 [3585]			
		25rpm	23rpm	21rpm	17rpm	11rpm			
	15 [3.96]	118 [1044]	211 [1867]	287 [2540]	367 [3248]	404 [3576]	495 [4381]	568 [5027]	
		47rpm	46rpm	44rpm	40rpm	28rpm	21rpm	10rpm	
	20 [5.28]	110 [974]	205 [1814]	278 [2460]	360 [3186]	395 [3496]	494 [4372]	566 [5009]	
		62rpm	61rpm	60rpm	57rpm	46rpm	40rpm	36rpm	
	30 [7.93]	101 [894]	196 [1735]	271 [2399]	349 [3089]	388 [3434]	490 [4337]	565 [5001]	
		94rpm	93rpm	91rpm	88rpm	76rpm	68rpm	65rpm	
	35 [9.25]	96 [850]	188 [1664]	264 [2337]	341 [3018]	382 [3381]	478 [4231]	557 [4930]	
		109rpm	107rpm	106rpm	104rpm	96rpm	89rpm	84rpm	
	45 [11.89]	89 [788]	180 [1593]	254 [2248]	337 [2983]	372 [3292]	468 [4142]	553 [4894]	
		141rpm	140rpm	138rpm	135rpm	127rpm	120rpm	115rpm	
	55 [14.53]	76 [673]	166 [1469]	239 [2115]	325 [2876]	362 [3204]	457 [4045]	548 [4850]	
173rpm		172rpm	170rpm	167rpm	160rpm	152rpm	143rpm		
60 [15.85]	65 [575]	154 [1363]	227 [2009]	308 [2726]	348 [3080]	443 [3921]	529 [4682]		
	Max Cont.	188rpm	186rpm	184rpm	182rpm	178rpm	172rpm	163rpm	
75 [19.82]	40 [354]	120 [1062]	201 [1779]	279 [2469]	323 [2859]	418 [3700]	497 [4399]		
	Max Int.	236rpm	234rpm	232rpm	228rpm	226rpm	223rpm	214rpm	

GP400		396cm ³ /rev (24.16in ³ /rev)					最高连续 Max Cont.	最高断续 Max Int.	
压力 Pressure bar [psi→]		30.5 [435]	45.7 [653]	55.9 [798]	66.0 [943]	81.2 [1160]	101.5 [1450]	126.9 [1813]	
Flow 流量	l/min[gpm↓]	扭矩 N m [lb-in] 转速 Torque N m [lb-in] Speed Specification							
	8 [2.11]	166 [1469]	232 [2053]	287 [2540]	340 [3009]	418 [3700]			
		20rpm	19rpm	18rpm	16rpm	12rpm			
	15 [3.96]	165 [1460]	228 [2018]	277 [2452]	337 [2983]	417 [3691]	496 [4390]	612 [5417]	
		38rpm	36rpm	35rpm	33rpm	31rpm	27rpm	21rpm	
	20 [5.28]	162 [1434]	223 [1974]	273 [2416]	331 [2930]	413 [3655]	495 [4381]	608 [5381]	
		50rpm	49rpm	49rpm	48rpm	45rpm	41rpm	35rpm	
	30 [7.93]	154 [1363]	216 [1912]	266 [2354]	318 [2815]	405 [3585]	486 [4301]	600 [5310]	
		76rpm	75rpm	74rpm	73rpm	71rpm	67rpm	60rpm	
	35 [9.25]	146 [1292]	210 [1859]	256 [2266]	312 [2761]	395 [3496]	480 [4248]	588 [5204]	
		88rpm	87rpm	87rpm	86rpm	83rpm	80rpm	75rpm	
	45 [11.89]	132 [1168]	197 [1744]	240 [2151]	300 [2655]	383 [3390]	464 [4107]	576 [5098]	
		114rpm	113rpm	112rpm	110rpm	108rpm	106rpm	99rpm	
	55 [14.53]	117 [1036]	184 [1629]	227 [2009]	283 [2505]	363 [3213]	450 [3983]	552 [4886]	
139rpm		137rpm	136rpm	135rpm	135rpm	132rpm	123rpm		
60 [15.85]	102 [903]	163 [1443]	215 [1903]	272 [2407]	347 [3071]	436 [3859]	532 [4709]		
	Max Cont.	153rpm	152rpm	150rpm	148rpm	146rpm	143rpm	138rpm	
75 [19.82]	53 [469]	128 [1133]	182 [1611]	234 [2071]	318 [2815]	391 [3461]	484 [4284]		
	Max Int.	191rpm	189rpm	187rpm	185rpm	183rpm	180rpm	176rpm	

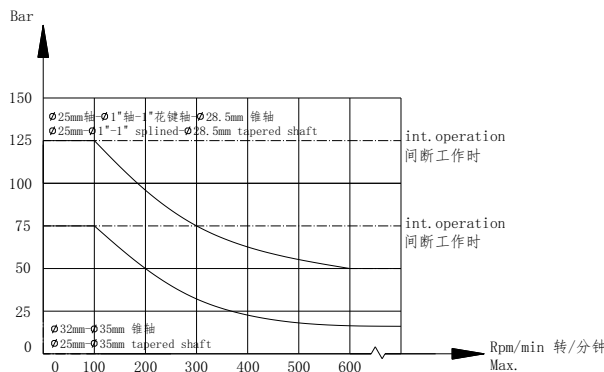
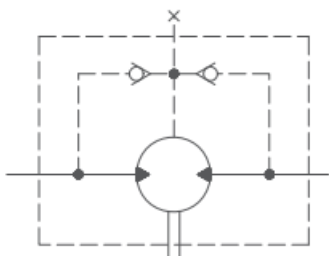
Technical Data 技术数据

Hydraulic orbit Motors GP

Permissible shaft seal pressure

GP系列摆线液压马达

输出轴密封圈允许承受的压力



In applications without drain line, output shaft seal exceeds a bit of the pressure in the return line. When applications use the drain line, the pressure of output shaft seal equals the pressure in drain line.

在外卸油管的使用中，输出轴密封圈上的压力微高于回油管路中的压力。当使用外卸油管时，输出轴密封圈上的压力则与外泄油管路中的压力相同。

Case Drain

泄油口:

In applications without a motor drain line, the pressure exerted on the shaft seal is marginally in excess of the return line pressure. When the Drain line is used, the pressure exerted on the shaft seal is equal to the return line pressure.

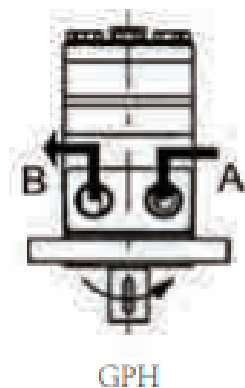
在没有使用排油管的应用中，施加在轴封上的压力略高于回油管压力。使用排油管时，施加在轴封上的压力等于回油管压力。

Standard direction of shaft rotation: Standard

轴旋转的标准方向: 标准

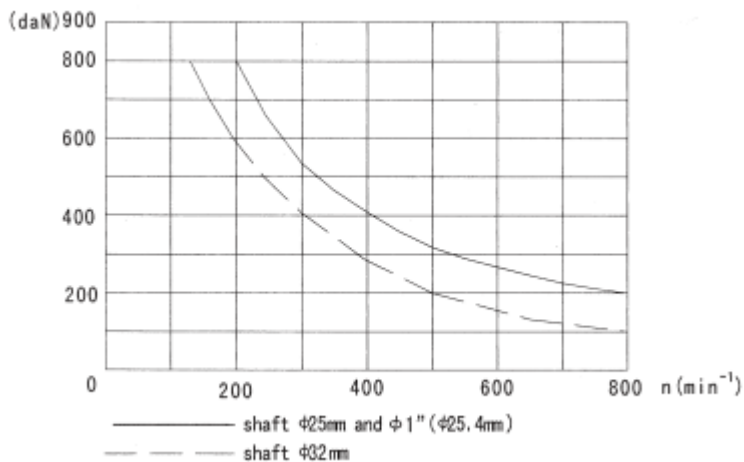
When facing shaft end of motor, shaft to rotate: Clockwise when port "A" is pressurized. Counter-clockwise port "B" is pressurized.

当面对电动机的轴端时，轴旋转：当端口“A”增压时，顺时针方向旋转。当端口“B”增压时，逆时针方向旋转。

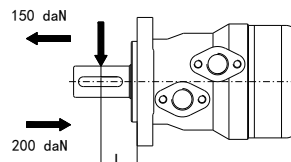


Axial and Radial forces

轴向力和径向力

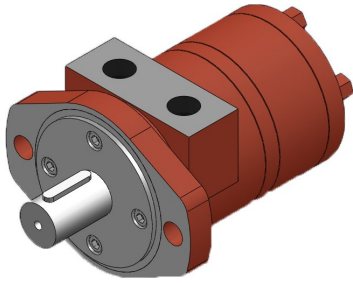


$$Fr = \frac{800}{n} * \frac{2500}{95 + L}$$



Fr =Radial Force (daN) Fr =径向力 (daN)
 L =Distance (mm) L =距离 (mm)
 n =Speed (rpm) n =转速 (rpm)
 Rhomb-flange L=30mm 菱形法兰 L=30mm
 Square-flange L=24mm 方形法兰 L=24mm

General 概述

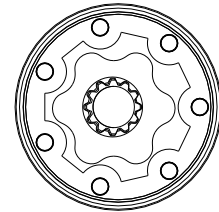


APPLICATION 应用

- ◇ Conveyors 输送机械
- ◇ Feeding machinery of robots and manipulators 机器人和操纵器的给料机械
- ◇ Metal working machines 金属加工器械
- ◇ Textile machines 纺织机
- ◇ Agricultural machines 农用机械
- ◇ Food industries 食品工业
- ◇ Lawn mower 割草机

OPTIONS 可选功能

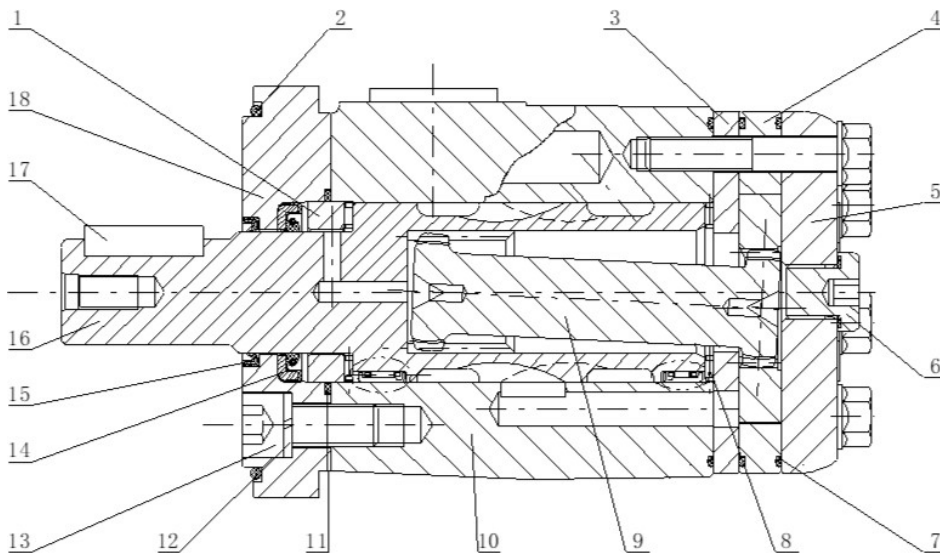
- ◇ Flange mount 法兰安装
- ◇ Motor with needle roller bearing 马达带滚针轴承
- ◇ Speed sensing 速度传感
- ◇ Side and bottom ports 侧面和底部油口
- ◇ Shaft seal for high and low pressure 轴油封可适用于高压和低压
- ◇ Shafts-straight, splined and tapered 轴伸-平键, 花键, 锥键
- ◇ Metric and BSPP ports 公制和BSPP油口
- ◇ Other special features 其他功能



- ◇ Shaft distribution flow 轴配流

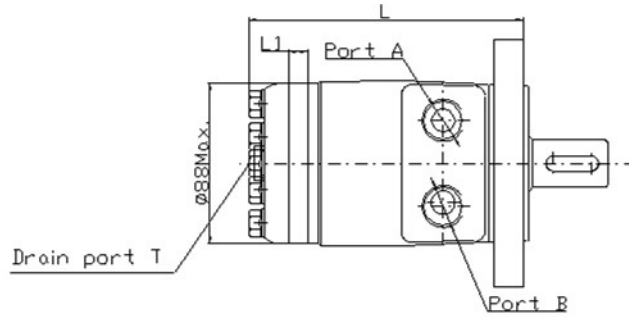
技术指标

型号 Model		GPH40	GPH50	GPH80	GPH100	GPH125	GPH160	GPH200	GPH250	GPH315	GPH400
排量 Disp.	in ³ /rev	2.44	3.02	4.83	6.04	7.55	9.66	12.1	15.1	19.3	24.16
	cm ³ /rev	40	49.5	79.2	99	123.8	158.4	198	247.5	316.8	396
最高转速 Max Speed rpm	连续 cont.	1500	1210	755	605	486	378	303	242	190	150
	断续 int.	1750	1515	945	755	605	472	378	303	236	189
最大扭矩 Max Torque N m [lb-in]	连续 cont.	62 [550]	94 [835]	151 [1340]	193 [1710]	237 [2100]	313 [2770]	366 [3240]	380 [3360]	380 [3360]	360 [3190]
	断续 int.	82 [730]	119 [1050]	195 [1725]	237 [2100]	298 [2640]	378 [3345]	456 [4035]	583 [5160]	560 [4960]	590 [5240]
最大压力差 Max Dif. bar [psi]	连续 cont.	120 [1750]	140 [2030]	140 [2030]	140 [2030]	140 [2030]	140 [2030]	140 [2030]	110 [1600]	90 [1300]	70 [1015]
	断续 int.	155 [2550]	175 [2540]	175 [2540]	175 [2540]	175 [2540]	175 [2540]	175 [2540]	175 [2540]	140 [2030]	115 [1655]
最大流量 Max Flow l/min [gpm]	连续 cont.	60 [15.9]	60 [15.9]	60 [15.9]	60 [15.9]	60 [15.9]	60 [15.9]	60 [15.9]	60 [15.9]	60 [15.9]	60 [15.9]
	断续 int.	70 [18.5]	75 [19.8]	75 [19.8]	75 [19.8]	75 [19.8]	75 [19.8]	75 [19.8]	75 [19.8]	75 [19.8]	75 [19.8]
重量 Weight kg [lbs]		5.7 [12.6]	5.8 [12.8]	5.9 [13.2]	6.1 [13.5]	6.2 [13.7]	6.4 [14.1]	6.6 [14.6]	6.8 [15]	7.1 [15.6]	7.6 [16.8]



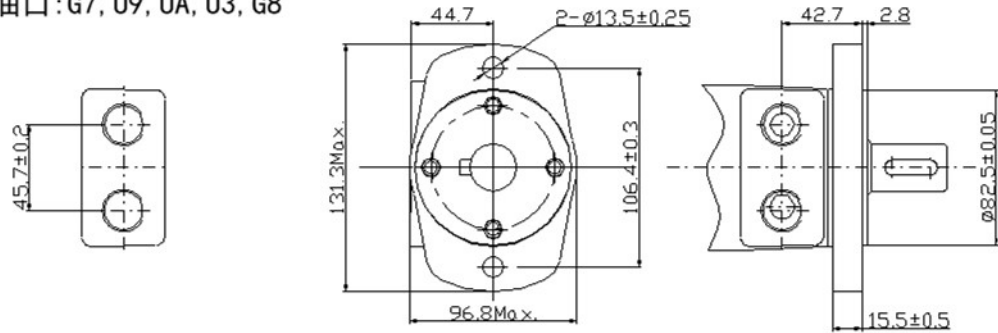
1. Thrust Washer 止推垫圈
2. O-ring O型圈
3. Wear Plate 耐磨板
4. Gear Set 齿轮组
5. End Cover 端盖
6. Case Drain Plug 外壳排水塞
7. O-ring O型圈
8. Axial Needle Bearing 推力滚针轴承
9. Cardan Joint 万向节
10. Housing 外壳
11. O-ring O型圈
12. Lock Washer 自锁垫圈
13. Bolt 螺栓
14. Shaft Seal 轴封
15. Dust Seal 防尘密封
16. Output Shaft 输出轴
17. Key 键
18. Front Cover 前盖

Dimensions and Mounting Data 尺寸和安装参数



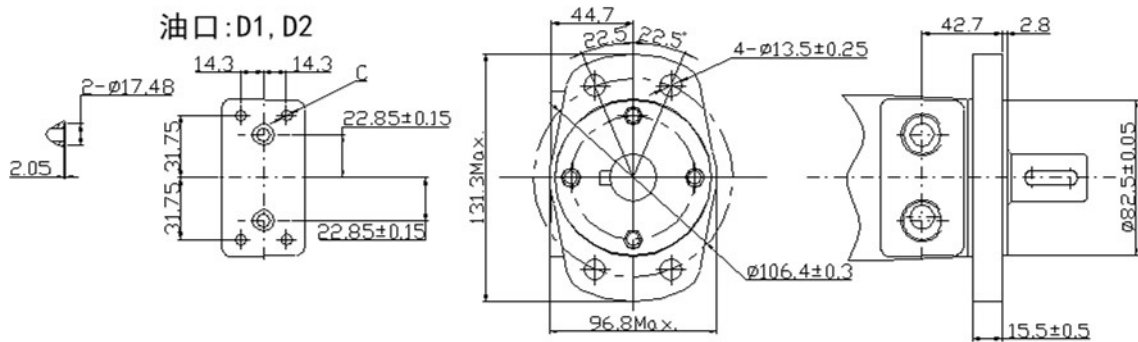
法兰 Flange A1

油口: G7, U9, UA, U3, G8



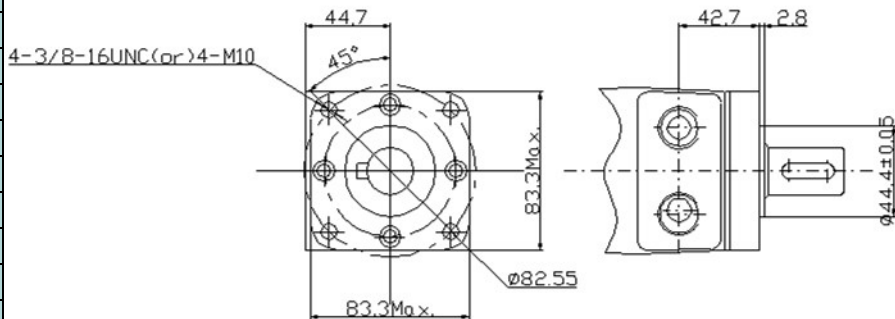
法兰 Flange A3

油口: D1, D2



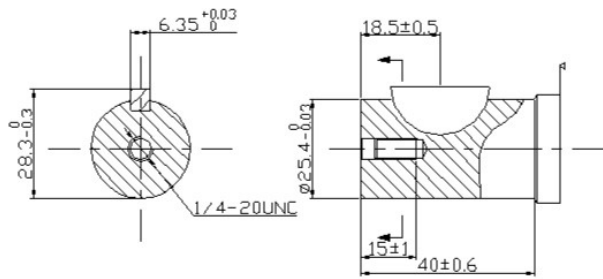
法兰 Flange H4/H5

Model 型号	L	L1
GPH36	141	7
GPH50	141	7
GPH80	144.5	10.5
GPH100	147	13
GPH125	150	16
GPH160	155	21
GPH200	160	26
GPH250	166	32
GPH315	176	42
GPH400	186	52

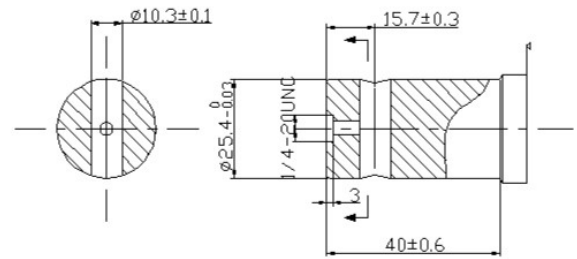


Port 油口	G7 (Depth)	U9 (Depth)	UA (Depth)	U3 (Depth)	G8 (Depth)	D1 (Depth)	D2 (Depth)
	深度	深度	深度	深度	深度	深度	深度
P (A, B)	G1/2 (15)	7/8-14 0-ring (17)	1/2-14NPTF (15)	3/4-16 0-ring (15)	PT (RC) 1/2 (15)	∅ 10	∅ 10
T	G1/4 (12)	7/16-20UNF (12)	7/16-20UNF (12)	7/16-20UNF (12)	PT (RC) 1/4 (9.7)	7/16-20UNF (12)	G1/4 (12)
C	-	-	-	-	-	4-5/16-18UNC (13)	4-M8 (13)

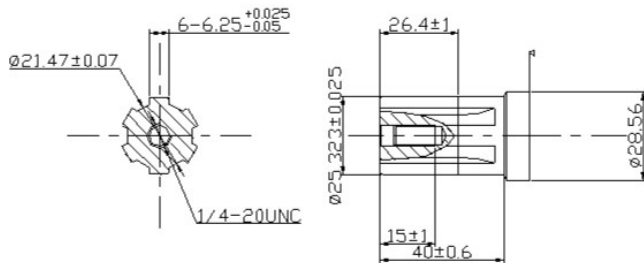
GPH Shaft Extension Dimensions Data GPH系列轴伸尺寸参数



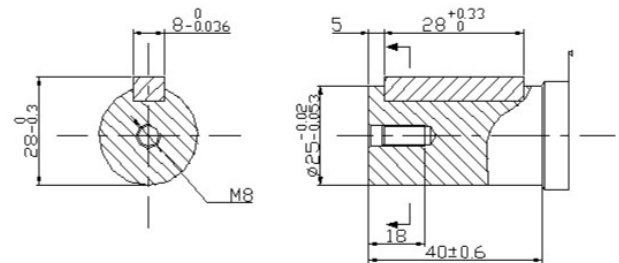
Shaft S6: Cylindrical shaft \varnothing 25.4
Woodruff key \varnothing 25.4x6.35
S9轴: 圆柱轴 \varnothing 25.4
半圆键 \varnothing 25.4x6.35



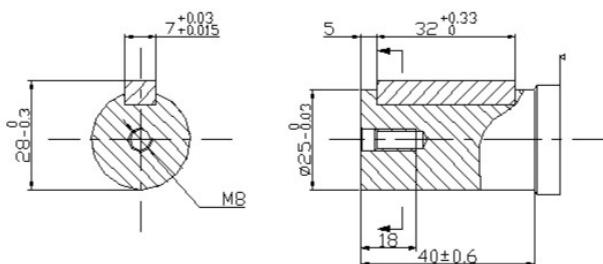
Shaft S9: Cylindrical shaft \varnothing 25.4
Pin hole \varnothing 10.3
S9轴: 圆柱轴 \varnothing 25.4
通孔 \varnothing 10.3



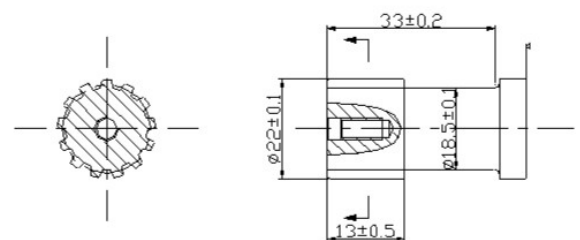
Shaft R4: Splined SAE 6B
R4轴: 花键轴 SAE6B



Shaft SC: Cylindrical shaft \varnothing 25
Parallel key 8x7x28
SC轴: 圆柱轴 \varnothing 25
平键 8x7x28

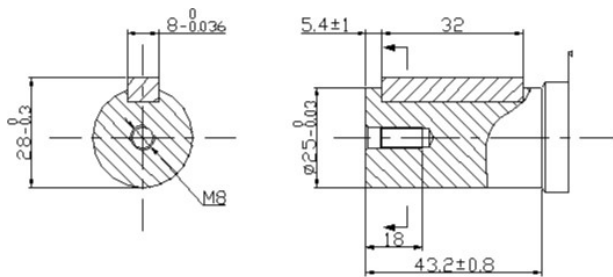


Shaft SD: Cylindrical shaft \varnothing 25
Parallel key 7x7x32
SD轴: 圆柱轴 \varnothing 25
平键 7x7x32

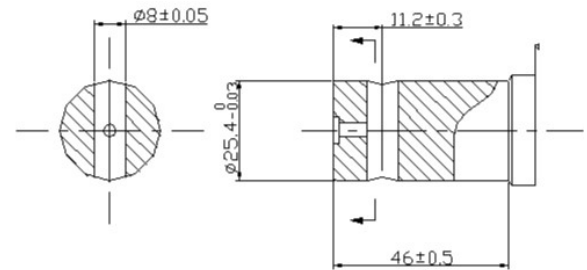


Shaft R5: Splined 13-DP16/32
R5轴: 花键齿 13-DP16/32

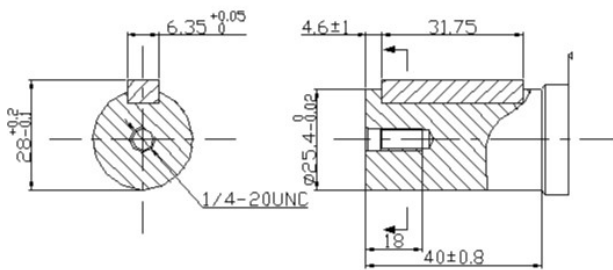
GPH Shaft Extension Dimensions Data GPH系列轴伸尺寸参数



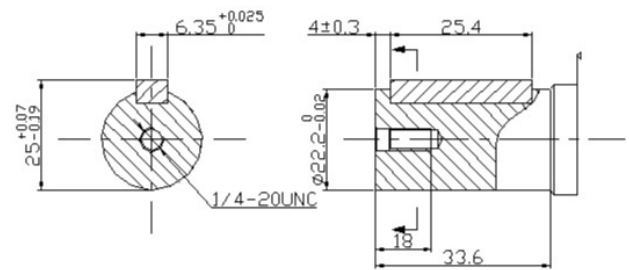
Shaft S7: Cylindrical shaft $\varnothing 25$
 Parallel key 8x7x32
 S7轴: 圆柱轴 $\varnothing 25$
 平键 8x7x32



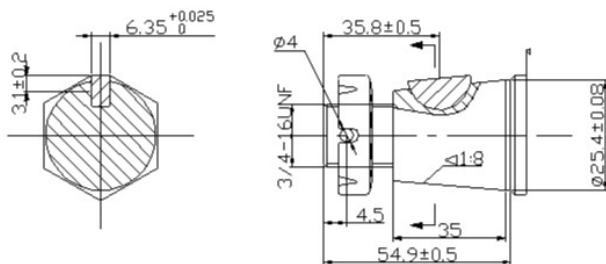
Shaft SA: Cylindrical shaft $\varnothing 25.4$
 Pin hole $\varnothing 8$
 SA轴: 圆柱轴 $\varnothing 25.4$
 通孔 $\varnothing 8$



Shaft S8: Cylindrical shaft $\varnothing 25.4$
 Parallel key 6.35x6.35x31.75
 S8轴: 圆柱轴 $\varnothing 25.4$
 平键 6.35x6.35x31.75



Shaft SB: Cylindrical shaft $\varnothing 22.22$
 Parallel key 6.35x6.35x25.4
 SB轴: 圆柱轴 $\varnothing 22.22$
 平键 6.35x6.35x25.4



Shaft T3: Tapered shaft $\varnothing 25.4$
 Parallel key $\varnothing 25.4 \times 6.35$
 Tightening torque: $200 \pm 10 \text{ Nm}$
 T3轴: 锥形轴 $\varnothing 25.4$
 半圆键 $\varnothing 25.4 \times 6.35$
 螺母拧紧力矩: $200 \pm 10 \text{ Nm}$



GPH Shaft Extension Dimensions Data GPH系列轴伸尺寸参数

Ordering Example:		Model	Displacement	Flange	Drive shaft	Ports	Other functions
		GPH	40	A2	S6	G7	ACA
Model	Disp.	Flange		Drive shaft		Ports	
GPH	40	H4=4-3/8-16 Hole Square Flange, Pilot $\varnothing 44.4 \times 2.8$ H5=4-M10 Hole Square Flange, Pilot $\varnothing 44.4 \times 2.8$ A1=2-Hole SAE A Flange, Pilot $\varnothing 82.5 \times 2.8$ A3=4-Hole SAE A Flange, Pilot $\varnothing 82.5 \times 2.8$		S6=Shaft $\varnothing 25.4$, woodruff key $\varnothing 25.4 \times 6.35$		G7=G1/2, G1/4 G8=PT(Rc)1/2, PT(Rc)1/4 D1= $\varnothing 10$ O-ring manifold 4x5/16-18UNC, 7/16-20UNF D2= $\varnothing 10$ O-ring manifold 4xM8, G1/4 U3=3/4-16 O-ring, 7/16-20UNF U9=7/8-14UNF O-ring, 7/16-20UNF UA=1/2-14NPTF, 7/16-20UNF	
	50			S7=Shaft $\varnothing 25.4$, parallel key 8x7x32			
	80			S8=Shaft $\varnothing 25.4$, parallel key 6.35x6.35x31.75			
	100			S9=Shaft $\varnothing 25.4$, pin hole $\varnothing 10.3$			
	125			SA=Shaft $\varnothing 25.4$, pin hole $\varnothing 8$			
	160			SB=Shaft $\varnothing 22.22$, parallel key 6.35x6.35x25.4			
	200			SC=Shaft $\varnothing 25$, parallel key 8x7x28			
	250			SD=Shaft $\varnothing 25$, parallel key 8x7x32			
	315			R4=Shaft $\varnothing 25.4$, splined tooth SAE 6B			
	400			R5=Shaft $\varnothing 22.22$, splined tooth 13-DP16/32			
				T3=Tapered shaft $\varnothing 25.4$, wood- ruff key $\varnothing 25.4 \times 6.35$			

Rotation direction	Paint	Unusually function
A=Standard R=Opposite	A=No paint B=Blue C=Black S=Silver grey	A=Standard N=Big radial force D=No case drain F=Free running L=Low speed V=High temperature S=Low temperature



GPH Shaft Extension Dimensions Data GPH系列轴伸尺寸参数

订购示例:		型号	排量	法兰	传动轴	油口	其他功能
		GPH	40	A2	S6	G7	ACA
型号	排量	法兰		传动轴		油口	
GPH	40 50 80 100 125 160 200 250 315 400	H4=4-3/8-16 孔方形法兰, 止口 ∅44.4x2.8 H5=4-M10 孔方形法兰, 止口 ∅44.4x2.8 A1=2孔 SAE A法兰, 止口 ∅82.5x2.8 A3=4孔 SAE A法兰, 止口 ∅82.5x2.8		S6=轴∅25.4, 半圆键 ∅25.4x6.35 S7=轴∅25.4, 平键 8x7x32 S8=轴∅25.4, 平键 6.35x6.35x31.75 S9=轴∅25.4, 通孔 ∅10.3 SA=轴∅25.4, 通孔 ∅8 SB=轴∅22.22, 平键 6.35x6.35x25.4 SC=轴∅25, 平键 8x7x28 SD=轴∅25, 平键 8x7x32 R4=轴∅25.4, 花键齿 SAE 6B R5=轴∅22.22, 花键齿 13- DP16/32 T3=锥形轴∅25.4, 半圆键 ∅25.4x6.35		G7=G1/2, G1/4 G8=PT (Rc) 1/2, PT (Rc) 1/4 D1=∅10 O型圈 集成块安装 4x5/16-18UNC, 7/16-20UNF D2=∅10 O型圈 集成块安装 4xM8, G1/4 U3=3/4-16 O型圈, 7/16-20UNF U9=7/8-14UNF O型圈, 7/16-20UNF UA=1/2-14NPTF, 7/16-20UNF	

旋转方向	喷漆	不常用的功能
A=标准 R=反向	A=无喷漆 B=蓝色 C=黑色 S=银灰色	A=标准 N=大径向力 D=无泄油口 F=自由转 L=低速 V=高温 S=低温



Flow Data 流量参数

GPH40		40cm ³ /rev (2.44in ³ /rev)						最高连续 Max Cont.	最高断续 Max Int.
压力 Pressure bar [psi→]		30.5 [435]	60.9 [870]	71.1 [1015]	81.2 [1160]	101.5 [1450]	111.7 [1595]	126.9 [1813]	167.5 [2393]
Flow 流量	l/min[gpm↓]	扭矩 N m [lb-in] 转速 Torque N m [lb-in] Speed Specification							
	8 [2.11]	13 [115]	25 [221]	29 [257]	34 [301]	43 [381]	48 [425]		
		214rpm	205rpm	200rpm	194rpm	187rpm	179rpm		
	15 [3.96]	13 [115]	25 [221]	29 [257]	34 [301]	43 [381]	48 [425]	56 [496]	75 [664]
		406rpm	398rpm	391rpm	383rpm	374rpm	366rpm	353rpm	324rpm
	20 [5.28]	13 [115]	24 [212]	29 [257]	34 [301]	43 [381]	48 [425]	56 [496]	76 [673]
		541rpm	534rpm	528rpm	521rpm	513rpm	500rpm	486rpm	458rpm
	30 [7.93]	12 [106]	24 [212]	29 [257]	34 [301]	43 [381]	48 [425]	56 [496]	76 [673]
		814rpm	804rpm	792rpm	778rpm	763rpm	749rpm	726rpm	701rpm
	35 [9.25]	12 [106]	23 [204]	28 [248]	34 [301]	43 [381]	48 [425]	56 [496]	76 [673]
		952rpm	944rpm	930rpm	913rpm	897rpm	879rpm	858rpm	833rpm
	40 [10.57]	12 [106]	23 [204]	28 [248]	32 [283]	41 [363]	47 [416]	55 [487]	75 [664]
		1090rpm	1078rpm	1064rpm	1048rpm	1024rpm	998rpm	977rpm	943rpm
	45 [11.89]	11 [97]	22 [195]	26 [230]	32 [283]	41 [363]	46 [407]	54 [478]	74 [655]
1232rpm		1218rpm	1196rpm	1175rpm	1149rpm	1118rpm	1080rpm	1044rpm	
55 [14.53]	6 [53]	15 [133]	22 [195]	28 [248]	37 [327]	44 [389]	52 [460]	71 [628]	
	1505rpm	1494rpm	1480rpm	1466rpm	1438rpm	1406rpm	1367rpm	1309rpm	
60 [15.85]	3 [27]	11 [97]	18 [159]	20 [177]	30 [266]	38 [336]	49 [434]	67 [593]	
	1650rpm	1640rpm	1626rpm	1603rpm	1571rpm	1536rpm	1502rpm	1446rpm	
	Max Cont.								
	Max Int.								

GPH50		49.5cm ³ /rev (3.02in ³ /rev)						最高连续 Max Cont.	最高断续 Max Int.
压力 Pressure bar [psi→]		30.5 [435]	60.9 [870]	81.2 [1160]	101.5 [1450]	126.9 [1813]	142.2 [2031]	162.5 [2321]	177.7 [2538]
Flow 流量	l/min[gpm↓]	扭矩 N m [lb-in] 转速 Torque N m [lb-in] Speed Specification							
	8 [2.11]	20 [177]	41 [363]	56 [496]	69 [611]	89 [788]	95 [841]		
		151rpm	134rpm	115rpm	90rpm	56rpm	42rpm		
	15 [3.96]	19 [168]	40 [354]	56 [496]	71 [628]	91 [805]	100 [885]	112 [991]	120 [1062]
		286rpm	274rpm	261rpm	243rpm	204rpm	182rpm	139rpm	102rpm
	20 [5.28]	18 [159]	39 [345]	55 [487]	71 [628]	92 [814]	101 [894]	117 [1036]	128 [1133]
		382rpm	373rpm	361rpm	348rpm	318rpm	309rpm	287rpm	251rpm
	30 [7.93]	17 [150]	38 [336]	55 [487]	71 [628]	91 [805]	98 [867]	116 [1027]	124 [1097]
		573rpm	568rpm	558rpm	535rpm	503rpm	488rpm	462rpm	440rpm
	35 [9.25]	17 [150]	38 [336]	54 [478]	69 [611]	89 [788]	98 [867]	117 [1036]	124 [1097]
		670rpm	661rpm	652rpm	640rpm	606rpm	589rpm	562rpm	548rpm
	45 [11.89]	14 [124]	36 [319]	53 [469]	67 [593]	88 [779]	98 [867]	114 [1009]	123 [1089]
		863rpm	858rpm	849rpm	837rpm	807rpm	788rpm	764rpm	746rpm
	55 [14.53]	12 [106]	33 [292]	50 [443]	65 [575]	85 [752]	96 [850]	111 [982]	121 [1071]
1055rpm		1042rpm	1028rpm	1010rpm	979rpm	963rpm	947rpm	920rpm	
60 [15.85]	10 [89]	32 [283]	47 [416]	64 [566]	83 [735]	94 [832]	108 [956]	119 [1053]	
	1150rpm	1143rpm	1126rpm	1111rpm	1079rpm	1065rpm	1043rpm	1015rpm	
75 [19.82]	6 [53]	25 [221]	42 [372]	56 [496]	76 [673]	87 [770]	101 [894]	112 [991]	
	1430rpm	1416rpm	1395rpm	1367rpm	1351rpm	1335rpm	1312rpm		
	Max Cont.								
	Max Int.								



Flow Data 流量参数

GPH80		79.2cm ³ /rev (4.83in ³ /rev)						最高连续 Max Cont.	最高断续 Max Int.	
压力 Pressure bar [psi→]		30.5 [435]	60.9 [870]	81.2 [1160]	101.5 [1450]	126.9 [1813]	142.2 [2031]	162.5 [2321]	177.7 [2538]	
Flow 流量	l/min [gpm↓]	扭矩 N m [lb-in] 转速 Torque N m [lb-in] Speed Specification								
	8 [2.11]	32 [283]	62 [549]	85 [752]	104 [920]	129 [1142]	144 [1275]			
		97rpm	87rpm	74rpm	55rpm	33rpm	22rpm			
	15 [3.96]	32 [283]	63 [558]	84 [743]	107 [947]	126 [1115]	144 [1275]	165 [1460]		
		186rpm	181rpm	170rpm	154rpm	132rpm	118rpm	86rpm		
	20 [5.28]	31 [274]	63 [558]	84 [743]	107 [947]	132 [1168]	146 [1292]	168 [1487]	185 [1637]	
		251rpm	243rpm	236rpm	225rpm	207rpm	196rpm	178rpm	155rpm	
	30 [7.93]	31 [274]	62 [549]	83 [735]	106 [938]	131 [1159]	146 [1292]	168 [1487]	186 [1646]	
		381rpm	379rpm	368rpm	355rpm	332rpm	316rpm	285rpm	263rpm	
	35 [9.25]	30 [266]	59 [522]	81 [717]	102 [903]	130 [1151]	144 [1275]	167 [1478]	185 [1637]	
		443rpm	435rpm	426rpm	415rpm	397rpm	383rpm	361rpm	342rpm	
	45 [11.89]	25 [221]	58 [513]	79 [699]	100 [885]	126 [1115]	142 [1257]	165 [1460]	182 [1611]	
		570rpm	564rpm	554rpm	543rpm	526rpm	509rpm	483rpm	458rpm	
	55 [14.53]	23 [204]	57 [504]	78 [690]	97 [859]	124 [1097]	140 [1239]	161 [1425]	179 [1584]	
696rpm		685rpm	672rpm	656rpm	643rpm	630rpm	602rpm	579rpm		
60 [15.85]	20 [177]	53 [469]	75 [664]	94 [832]	120 [1062]	137 [1213]	160 [1416]	177 [1567]		
	Max Cont.	761rpm	753rpm	744rpm	736rpm	720rpm	706rpm	681rpm	660rpm	
75 [19.82]	14 [124]	44 [389]	67 [593]	87 [770]	112 [991]	151 [1336]	169 [1496]	169 [1496]		
	Max Int.	948rpm	940rpm	931rpm	920rpm	906rpm	890rpm	871rpm	854rpm	

GPH100		99cm ³ /rev (6.04in ³ /rev)						最高连续 Max Cont.	最高断续 Max Int.	
压力 Pressure bar [psi→]		30.5 [435]	60.9 [870]	81.2 [1160]	101.5 [1450]	126.9 [1813]	142.2 [2031]	162.5 [2321]	177.7 [2538]	
Flow 流量	l/min [gpm↓]	扭矩 N m [lb-in] 转速 Torque N m [lb-in] Speed Specification								
	8 [2.11]	40 [354]	77 [682]	105 [929]	130 [1151]	161 [1425]	180 [1593]			
		81rpm	75rpm	69rpm	57rpm	36rpm	24rpm			
	15 [3.96]	39 [345]	77 [682]	106 [938]	130 [1151]	160 [1416]	180 [1593]	208 [1841]		
		152rpm	149rpm	145rpm	140rpm	122rpm	103rpm	81rpm		
	20 [5.28]	36 [319]	74 [655]	104 [920]	128 [1133]	161 [1425]	179 [1584]	208 [1814]	227 [2009]	
		204rpm	200rpm	195rpm	190rpm	177rpm	166rpm	148rpm	133rpm	
	30 [7.93]	33 [292]	72 [637]	103 [912]	125 [1106]	160 [1416]	177 [1567]	203 [1797]	225 [1991]	
		308rpm	304rpm	298rpm	290rpm	280rpm	268rpm	255rpm	231rpm	
	35 [9.25]	30 [266]	70 [620]	98 [867]	122 [1080]	159 [1407]	176 [1558]	202 [1788]	224 [1983]	
		360rpm	352rpm	343rpm	331rpm	320rpm	306rpm	294rpm	275rpm	
	45 [11.89]	29 [257]	67 [593]	95 [841]	118 [1044]	155 [1372]	174 [1540]	200 [1770]	220 [1947]	
		462rpm	458rpm	451rpm	443rpm	433rpm	419rpm	402rpm	383rpm	
	55 [14.53]	25 [221]	64 [566]	93 [823]	116 [1027]	152 [1345]	170 [1505]	198 [1752]	217 [1921]	
566rpm		558rpm	549rpm	540rpm	529rpm	515rpm	498rpm	478rpm		
60 [15.85]	22 [195]	60 [531]	91 [805]	114 [1009]	149 [1319]	167 [1478]	194 [1717]	213 [1885]		
	Max Cont.	618rpm	611rpm	601rpm	589rpm	580rpm	570rpm	558rpm	540rpm	
75 [19.82]	15 [133]	54 [478]	83 [735]	106 [938]	141 [1248]	160 [1416]	186 [1646]	205 [1814]		
	Max Int.	771rpm	763rpm	755rpm	744rpm	735rpm	724rpm	708rpm	693rpm	



Flow Data 流量参数

GPH125		123.8cm ³ /rev(7.55in ³ /rev)						最高连续 Max Cont.	最高断续 Max Int.
压力 Pressure bar [psi→]		30.5 [435]	60.9 [870]	81.2 [1160]	101.5 [1450]	126.9 [1813]	142.2 [2031]	162.5 [2321]	177.7 [2538]
Flow 流量	l/min(gpm↓)	扭矩 N m [lb-in] 转速 Torque N m [lb-in] Speed Specification							
	8 [2.11]	51 [451]	98 [867]	137 [1213]	168 [1487]	208 [1841]	236 [2089]		
		63rpm	60rpm	55rpm	47rpm	28rpm	15rpm		
	15 [3.96]	51 [451]	101 [894]	138 [1221]	168 [1487]	209 [1850]	236 [2089]	267 [2363]	
		121rpm	116rpm	110rpm	102rpm	89rpm	73rpm	48rpm	
	20 [5.28]	48 [425]	98 [867]	135 [1195]	167 [1478]	211 [1867]	237 [2098]	269 [2381]	290 [2567]
		162rpm	158rpm	153rpm	148rpm	137rpm	128rpm	109rpm	94rpm
	30 [7.93]	46 [407]	96 [850]	132 [1168]	164 [1452]	209 [1850]	232 [2053]	264 [2337]	287 [2540]
		243rpm	239rpm	234rpm	227rpm	216rpm	202rpm	189rpm	176rpm
	35 [9.25]	42 [372]	92 [814]	130 [1151]	160 [1416]	206 [1823]	229 [2027]	260 [2301]	284 [2514]
		284rpm	279rpm	274rpm	269rpm	259rpm	247rpm	231rpm	222rpm
	45 [11.89]	37 [327]	89 [788]	125 [1106]	157 [1390]	201 [1779]	224 [1983]	261 [2310]	281 [2487]
		370rpm	362rpm	355rpm	348rpm	340rpm	327rpm	310rpm	296rpm
	55 [14.53]	33 [292]	84 [743]	122 [1080]	152 [1345]	196 [1735]	218 [1929]	252 [2230]	275 [2434]
452rpm		446rpm	438rpm	431rpm	420rpm	412rpm	402rpm	384rpm	
60 [15.85]	29 [257]	78 [690]	117 [1036]	146 [1292]	191 [1690]	215 [1903]	248 [2195]	272 [2407]	
	Max Cont.	490rpm	482rpm	475rpm	468rpm	459rpm	448rpm	439rpm	427rpm
75 [19.82]	18 [159]	66 [584]	107 [947]	133 [1177]	179 [1584]	202 [1788]	236 [2089]	260 [2301]	
	Max Int.	615rpm	606rpm	598rpm	586rpm	575rpm	563rpm	549rpm	528rpm

GPH160		158.4cm ³ /rev(9.66in ³ /rev)						最高连续 Max Cont.	最高断续 Max Int.
压力 Pressure bar [psi→]		30.5 [435]	60.9 [870]	81.2 [1160]	101.5 [1450]	126.9 [1813]	142.2 [2031]	162.5 [2321]	177.7 [2538]
Flow 流量	l/min(gpm↓)	扭矩 N m [lb-in] 转速 Torque N m [lb-in] Speed Specification							
	8 [2.11]	62 [549]	120 [1062]	170 [1505]	212 [1876]	263 [2328]	290 [2567]		
		49rpm	48rpm	46rpm	42rpm	26rpm	14rpm		
	15 [3.96]	60 [531]	122 [1080]	172 [1522]	215 [1903]	264 [2337]	294 [2602]	340 [3009]	
		93rpm	91rpm	88rpm	85rpm	76rpm	68rpm	48rpm	
	20 [5.28]	57 [504]	120 [1062]	170 [1505]	214 [1894]	262 [2319]	290 [2567]	340 [3009]	371 [3284]
		125rpm	123rpm	120rpm	117rpm	110rpm	106rpm	92rpm	81rpm
	30 [7.93]	53 [469]	115 [1018]	164 [1452]	206 [1823]	259 [2292]	288 [2549]	335 [2965]	368 [3257]
		187rpm	184rpm	181rpm	178rpm	175rpm	168rpm	155rpm	139rpm
	35 [9.25]	49 [434]	110 [974]	160 [1416]	202 [1788]	255 [2257]	284 [2514]	328 [2903]	362 [3204]
		220rpm	216rpm	213rpm	209rpm	205rpm	202rpm	192rpm	176rpm
	45 [11.89]	44 [389]	102 [903]	154 [1363]	196 [1735]	248 [2195]	278 [2460]	321 [2841]	358 [3169]
		283rpm	280rpm	276rpm	272rpm	267rpm	260rpm	250rpm	238rpm
	55 [14.53]	40 [354]	99 [876]	148 [1310]	191 [1690]	243 [2151]	272 [2407]	316 [2797]	351 [3107]
345rpm		342rpm	340rpm	336rpm	331rpm	328rpm	320rpm	303rpm	
60 [15.85]	33 [292]	94 [832]	144 [1275]	188 [1664]	236 [2089]	267 [2363]	308 [2726]	345 [3053]	
	Max Cont.	377rpm	374rpm	371rpm	367rpm	363rpm	359rpm	353rpm	342rpm
75 [19.82]	19 [168]	80 [708]	124 [1097]	170 [1505]	216 [1912]	252 [2230]	296 [2620]	325 [2876]	
	Max Int.	473rpm	469rpm	465rpm	459rpm	453rpm	447rpm	440rpm	424rpm



Flow Data 流量参数

GPH200		198cm ³ /rev(12.1in ³ /rev)						最高连续 Max Cont.	最高断续 Max Int.
压力 Pressure bar [psi→]		30.5 [435]	60.9 [870]	81.2 [1160]	101.5 [1450]	126.9 [1813]	142.2 [2031]	162.5 [2321]	177.7 [2538]
Flow 流量	l/min(gpm↓)	扭矩 N m [lb-in] 转速 Torque N m [lb-in] Speed Specification							
	8 [2.11]	79 [699]	164 [1452]	207 [1832]	250 [2213]	320 [2832]	360 [3186]		
		40rpm	39rpm	38rpm	35rpm	28rpm	22rpm		
	15 [3.96]	78 [690]	162 [1434]	205 [1814]	250 [2213]	322 [2850]	361 [3195]	410 [3629]	
		76rpm	75rpm	74rpm	71rpm	66rpm	61rpm	51rpm	
	20 [5.28]	76 [673]	158 [1398]	203 [1797]	247 [2186]	320 [2832]	358 [3169]	403 [3567]	422 [3735]
		100rpm	98rpm	97rpm	95rpm	92rpm	89rpm	73rpm	57rpm
	30 [7.93]	70 [620]	153 [1354]	200 [1770]	245 [2168]	315 [2788]	350 [3098]	398 [3523]	417 [3691]
		151rpm	149rpm	147rpm	145rpm	142rpm	139rpm	131rpm	120rpm
	35 [9.25]	66 [584]	149 [1319]	194 [1717]	232 [2053]	297 [2629]	343 [3036]	386 [3416]	415 [3673]
		177rpm	175rpm	173rpm	171rpm	168rpm	166rpm	160rpm	149rpm
	45 [11.89]	63 [558]	146 [1292]	190 [1682]	230 [2036]	294 [2602]	340 [3009]	383 [3390]	410 [3629]
		228rpm	226rpm	224rpm	221rpm	218rpm	215rpm	210rpm	198rpm
	55 [14.53]	54 [478]	140 [1239]	181 [1602]	224 [1983]	286 [2531]	334 [2956]	371 [3284]	400 [3540]
280rpm		278rpm	276rpm	274rpm	271rpm	269rpm	263rpm	250rpm	
60 [15.85]	38 [336]	127 [1124]	164 [1452]	212 [1876]	270 [2390]	325 [2876]	356 [3151]	395 [3496]	
	Max Cont.	304rpm	302rpm	300rpm	297rpm	294rpm	291rpm	286rpm	272rpm
75 [19.82]	22 [195]	96 [850]	145 [1283]	192 [1699]	235 [2080]	293 [2593]	321 [2841]	367 [3248]	
	Max Int.	382rpm	378rpm	374rpm	371rpm	368rpm	364rpm	360rpm	350rpm

GPH250		247.5cm ³ /rev(15.1in ³ /rev)						最高连续 Max Cont.	最高断续 Max Int.
压力 Pressure bar [psi→]		30.5 [435]	60.9 [870]	81.2 [1160]	101.5 [1450]	126.9 [1813]	142.2 [2031]	162.5 [2321]	177.7 [2538]
Flow 流量	l/min(gpm↓)	扭矩 N m [lb-in] 转速 Torque N m [lb-in] Speed Specification							
	8 [2.11]	96 [850]	190 [1682]	268 [2372]	326 [2885]	403 [3567]			
		30rpm	28rpm	24rpm	21rpm	11rpm			
	15 [3.96]	98 [867]	194 [1717]	270 [2390]	327 [2894]	405 [3585]	450 [3983]	510 [4514]	
		60rpm	58rpm	54rpm	50rpm	40rpm	30rpm	12rpm	
	20 [5.28]	92 [814]	188 [1664]	267 [2363]	325 [2876]	405 [3585]	456 [4036]	514 [4549]	565 [5001]
		82rpm	80rpm	77rpm	76rpm	69rpm	64rpm	52rpm	38rpm
	30 [7.93]	85 [752]	180 [1593]	259 [2292]	320 [2832]	400 [3540]	448 [3965]	513 [4540]	561 [4965]
		123rpm	120rpm	118rpm	114rpm	106rpm	98rpm	87rpm	76rpm
	35 [9.25]	77 [682]	176 [1558]	252 [2230]	309 [2753]	389 [3443]	436 [3859]	504 [4461]	557 [4930]
		143rpm	141rpm	139rpm	135rpm	128rpm	122rpm	112rpm	101rpm
	45 [11.89]	70 [620]	168 [1487]	243 [2151]	300 [2655]	377 [3337]	428 [3788]	495 [4381]	543 [4806]
		185rpm	182rpm	178rpm	174rpm	168rpm	161rpm	152rpm	139rpm
	55 [14.53]	63 [558]	159 [1407]	237 [2098]	290 [2567]	369 [3266]	417 [3691]	483 [4275]	531 [4700]
226rpm		223rpm	218rpm	213rpm	209rpm	202rpm	193rpm	185rpm	
60 [15.85]	60 [531]	150 [1328]	228 [2018]	280 [2478]	358 [3169]	407 [3602]	473 [4186]	520 [4602]	
	Max Cont.	248rpm	246rpm	243rpm	239rpm	233rpm	226rpm	215rpm	207rpm
75 [19.82]	34 [301]	128 [1133]	202 [1788]	264 [2337]	342 [3027]	387 [3425]	448 [3965]	488 [4319]	
	Max Int.	309rpm	306rpm	302rpm	297rpm	292rpm	286rpm	278rpm	264rpm



Flow Data 流量参数

GPH315		316.8cm ³ /rev (19.3in ³ /rev)					最高连续 Max Cont.	最高断续 Max Int.
压力 Pressure bar [psi→]		30.5 [435]	50.8 [725]	71.1 [1015]	91.4 [1305]	101.5 [1450]	126.9 [1813]	142.2 [2031]
Flow 流量	l/min [gpm↓]	扭矩 N m [lb-in] 转速 Torque N m [lb-in] Speed Specification						
	8 [2.11]	123 [1089]	215 [1903]	292 [2584]	368 [3257]	405 [3585]		
		25rpm	23rpm	21rpm	17rpm	11rpm		
	15 [3.96]	118 [1044]	211 [1867]	287 [2540]	367 [3248]	404 [3576]	495 [4381]	568 [5027]
		47rpm	46rpm	44rpm	40rpm	28rpm	21rpm	10rpm
	20 [5.28]	110 [974]	205 [1814]	278 [2460]	360 [3186]	395 [3496]	494 [4372]	566 [5009]
		62rpm	61rpm	60rpm	57rpm	46rpm	40rpm	36rpm
	30 [7.93]	101 [894]	196 [1735]	271 [2399]	349 [3089]	388 [3434]	490 [4337]	565 [5001]
		94rpm	93rpm	91rpm	88rpm	76rpm	68rpm	65rpm
	35 [9.25]	96 [850]	188 [1664]	264 [2337]	341 [3018]	382 [3381]	478 [4231]	557 [4930]
		109rpm	107rpm	106rpm	104rpm	96rpm	89rpm	84rpm
	45 [11.89]	89 [788]	180 [1593]	254 [2248]	337 [2983]	372 [3292]	468 [4142]	553 [4894]
		141rpm	140rpm	138rpm	135rpm	127rpm	120rpm	115rpm
	55 [14.53]	76 [673]	166 [1469]	239 [2115]	325 [2876]	362 [3204]	457 [4045]	548 [4850]
173rpm		172rpm	170rpm	167rpm	160rpm	152rpm	143rpm	
60 [15.85]	65 [575]	154 [1363]	227 [2009]	308 [2726]	348 [3080]	443 [3921]	529 [4682]	
	Max Cont.	188rpm	186rpm	184rpm	182rpm	178rpm	172rpm	163rpm
75 [19.82]	40 [354]	120 [1062]	201 [1779]	279 [2469]	323 [2859]	418 [3700]	497 [4399]	
	Max Int.	236rpm	234rpm	232rpm	228rpm	226rpm	223rpm	214rpm

GPH400		396cm ³ /rev (24.16in ³ /rev)					最高连续 Max Cont.	最高断续 Max Int.
压力 Pressure bar [psi→]		30.5 [435]	45.7 [653]	55.9 [798]	66.0 [943]	81.2 [1160]	101.5 [1450]	126.9 [1813]
Flow 流量	l/min [gpm↓]	扭矩 N m [lb-in] 转速 Torque N m [lb-in] Speed Specification						
	8 [2.11]	166 [1469]	232 [2053]	287 [2540]	340 [3009]	418 [3700]		
		20rpm	19rpm	18rpm	16rpm	12rpm		
	15 [3.96]	165 [1460]	228 [2018]	277 [2452]	337 [2983]	417 [3691]	496 [4390]	612 [5417]
		38rpm	36rpm	35rpm	33rpm	31rpm	27rpm	21rpm
	20 [5.28]	162 [1434]	223 [1974]	273 [2416]	331 [2930]	413 [3655]	495 [4381]	608 [5381]
		50rpm	49rpm	49rpm	48rpm	45rpm	41rpm	35rpm
	30 [7.93]	154 [1363]	216 [1912]	266 [2354]	318 [2815]	405 [3585]	486 [4301]	600 [5310]
		76rpm	75rpm	74rpm	73rpm	71rpm	67rpm	60rpm
	35 [9.25]	146 [1292]	210 [1859]	256 [2266]	312 [2761]	395 [3496]	480 [4248]	588 [5204]
		88rpm	87rpm	87rpm	86rpm	83rpm	80rpm	75rpm
	45 [11.89]	132 [1168]	197 [1744]	240 [2151]	300 [2655]	383 [3390]	464 [4107]	576 [5098]
		114rpm	113rpm	112rpm	110rpm	108rpm	106rpm	99rpm
	55 [14.53]	117 [1036]	184 [1629]	227 [2009]	283 [2505]	363 [3213]	450 [3983]	552 [4886]
139rpm		137rpm	136rpm	135rpm	135rpm	132rpm	123rpm	
60 [15.85]	102 [903]	163 [1443]	215 [1903]	272 [2407]	347 [3071]	436 [3859]	532 [4709]	
	Max Cont.	153rpm	152rpm	150rpm	148rpm	146rpm	143rpm	138rpm
75 [19.82]	53 [469]	128 [1133]	182 [1611]	234 [2071]	318 [2815]	391 [3461]	484 [4284]	
	Max Int.	191rpm	189rpm	187rpm	185rpm	183rpm	180rpm	176rpm

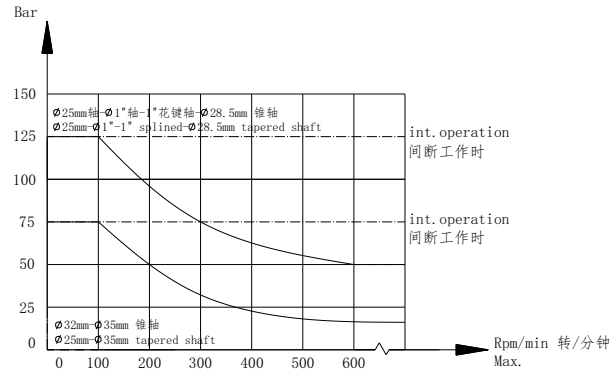
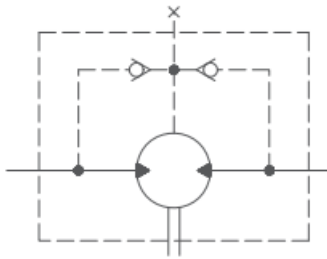
Technical Data 技术数据

Hydraulic orbit Motors GPH

Permissible shaft seal pressure

GPH系列摆线液压马达

输出轴密封圈允许承受的压力



In applications without drain line, output shaft seal exceeds a bit of the pressure in the return line. When applications use the drain line, the pressure of output shaft seal equals the pressure in drain line.

在外卸油管的使用中，输出轴密封圈上的压力微高于回油管路中的压力。当使用外卸油管时，输出轴密封圈上的压力则与外泄油管路中的压力相同。

Case Drain

泄油口:

In applications without a motor drain line, the pressure exerted on the shaft seal is marginally in excess of the return line pressure. When the Drain line is used, the pressure exerted on the shaft seal is equal to the return line pressure.

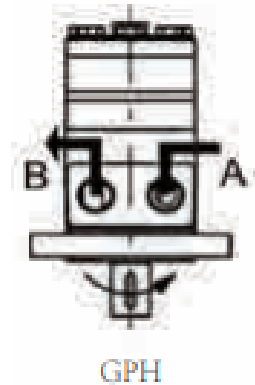
在没有使用排油管的应用中，施加在轴封上的压力略高于回油管压力。使用排油管时，施加在轴封上的压力等于回油管压力。

Standard direction of shaft rotation: Standard

轴旋转的标准方向: 标准

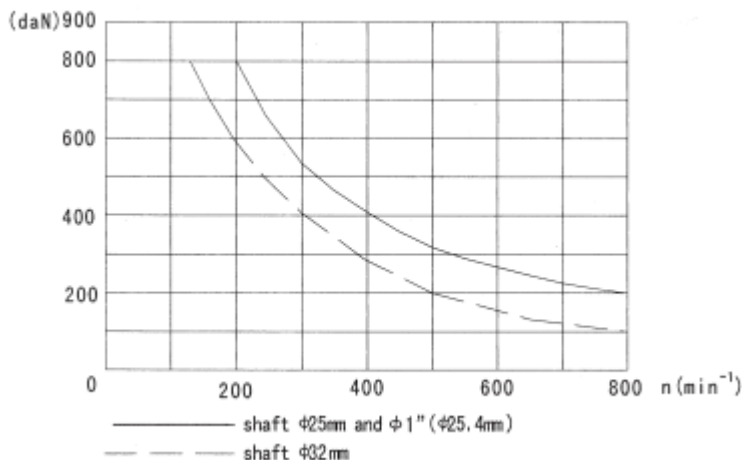
When facing shaft end of motor, shaft to rotate: Clock-wise when port "A" is pressurized. Counter-clockwise port "B" is pressurized.

当面对电动机的轴端时，轴旋转：当端口“A”增压时，顺时针方向旋转。当端口“B”增压时，逆时针方向旋转。

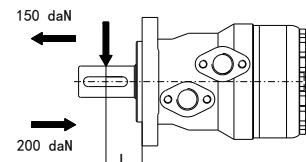


Axial and Radial forces

轴向力和径向力

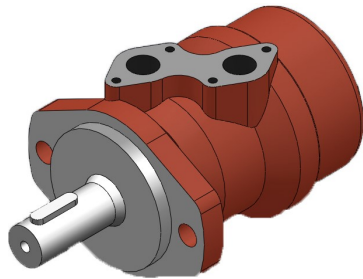


$$Fr = \frac{800}{n} * \frac{2500}{95 + L}$$



Fr =Radial Force (daN) Fr =径向力 (daN)
 L =Distance (mm) L =距离 (mm)
 n =Speed (rpm) n =转速 (rpm)
 Rhomb-flange L=30mm 菱形法兰 L=30mm
 Square-flange L=24mm 方形法兰 L=24mm

General 概述

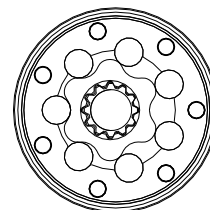


APPLICATION 应用

- ◇ Conveyors 输送机
- ◇ Feeding machinery of robots and manipulators 机器人和操纵器的给料机械
- ◇ Metal working machines 金属加工器械
- ◇ Textile machines 纺织机
- ◇ Agricultural machines 农用机械
- ◇ Food industries 食品工业
- ◇ Lawn mower 割草机

OPTIONS 可选功能

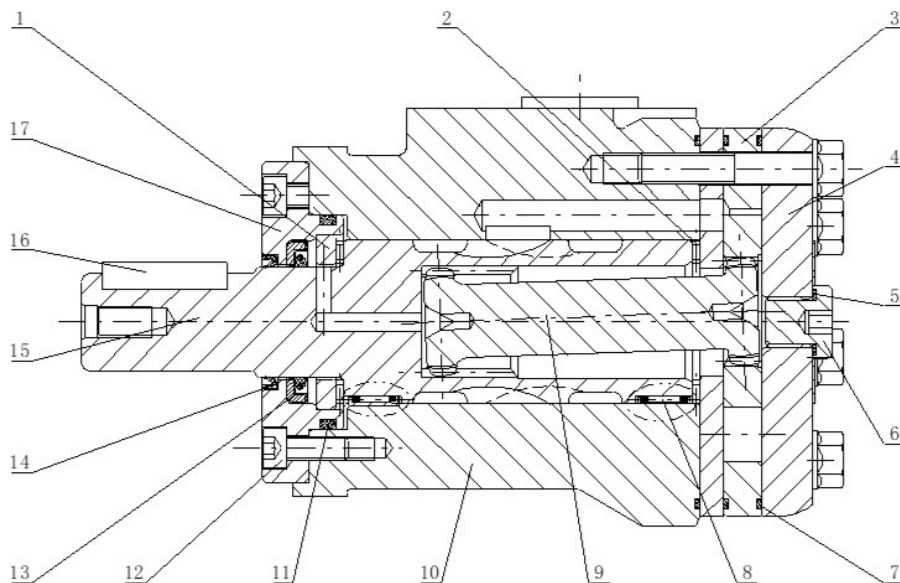
- ◇ Flange connection 法兰连接
- ◇ Motor with needle bearing 马达带滚针轴承
- ◇ Side and rear ports 侧边和底部油口
- ◇ Shafts—straight, splined and tapered 轴伸—平键，花键，锥键
- ◇ Shaft seal for high and low pressure 轴油封可适用于高压和低压
- ◇ Metric and BSPP ports 公制和BSPP油口
- ◇ Speed sensing 速度感应
- ◇ Other special features 其他功能



- ◇ Shaft distribution flow 轴配流

技术指标

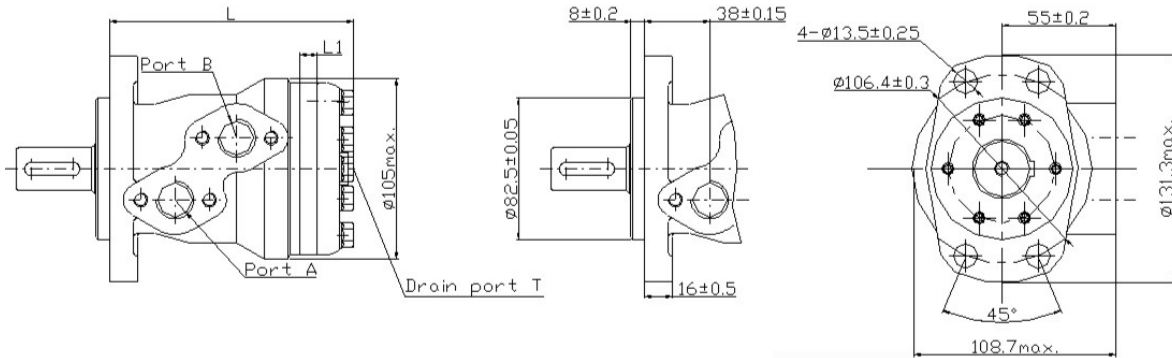
型号 Model		GR50	GR80	GR100	GR125	GR160	GR200	GR250	GR315	GR400
排量 Disp.	in ³ /rev	3.14	4.90	6.09	7.67	9.74	12.19	15.26	19.26	24.4
	cm ³ /rev	51.5	80.3	99.8	125.7	159.6	199.8	250.1	315.7	397
最高转速 Max Speed rpm	连续 cont.	775	750	600	475	375	300	240	190	150
	断续 int.	970	940	750	600	470	375	300	240	190
最大扭矩 Max Torque N m [lb-in]	连续 cont.	100 [900]	200 [1770]	240 [2125]	300 [2665]	390 [3450]	385 [3410]	390 [3450]	360 [3185]	380 [3360]
	断续 int.	130 [1150]	220 [1947]	280 [2480]	340 [3010]	430 [3805]	460 [4070]	470 [4160]	470 [4160]	470 [4160]
最大压力差 Max Dif. bar [psi]	连续 cont.	140 [2030]	175 [2540]	175 [2540]	175 [2540]	175 [2540]	140 [2030]	110 [1600]	85 [1230]	65 [940]
	断续 int.	175 [2540]	200 [2900]	200 [2900]	200 [2900]	200 [2900]	175 [2540]	140 [2030]	115 [1670]	90 [1300]
最大流量 Max Flow l/min [gpm]	连续 cont.	40 [10.5]	60 [15.8]	60 [15.8]	60 [15.8]	60 [15.8]	60 [15.8]	60 [15.8]	60 [15.8]	60 [15.8]
	断续 int.	50 [13.2]	75 [19.8]	75 [19.8]	75 [19.8]	75 [19.8]	75 [19.8]	75 [19.8]	75 [19.8]	75 [19.8]
重量 Weight kg [lbs]		6.9[15.2]	7[15.4]	7.3[16.1]	7.4[16.3]	7.6[15.4]	8.1[17.6]	8.5[18.5]	9.2[20.3]	9.9[21.8]



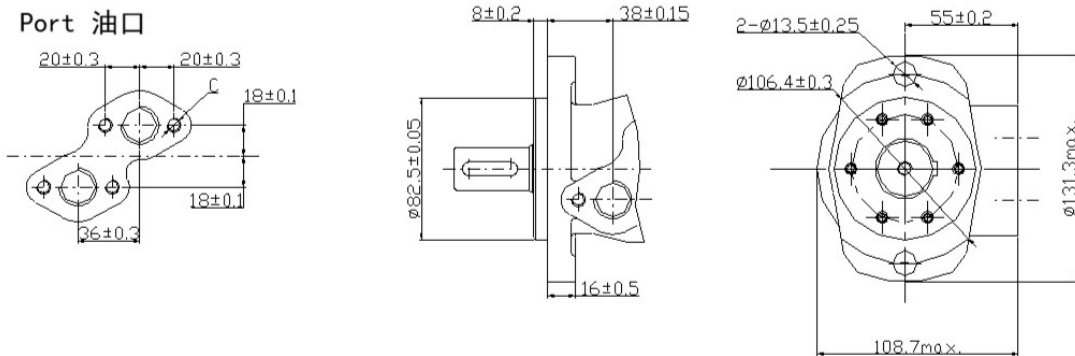
1. Thrust Washer 止推垫圈
2. Axial Needle Bearing 推力滚针轴承
3. Gear Set 齿轮组
4. End Cover 端盖
5. Seal 密封
6. Case Drain Plug 外壳排水塞
7. O-ring O型圈
8. Radial Needle Bearing 向心滚针轴承
9. Cardan Joint 万向节
10. Housing 外壳
11. O-ring O型圈
12. Bolt 螺栓
13. Shaft Seal 轴封
14. Dust Seal 防尘密封
15. Output Shaft 输出轴
16. Key 键
17. Front Cover 前盖

Dimensions and Mounting Data 尺寸和安装参数

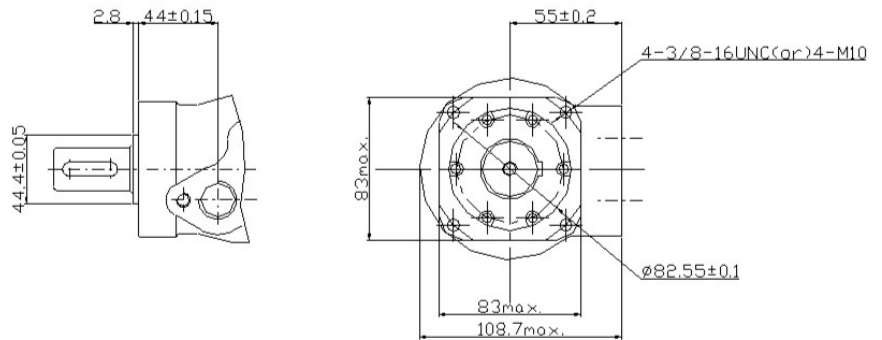
法兰 Flange A4



法兰 Flange A2



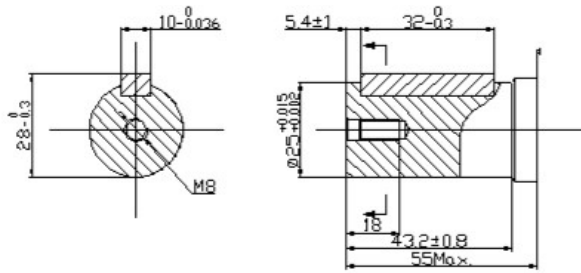
法兰 Flange H4/H5



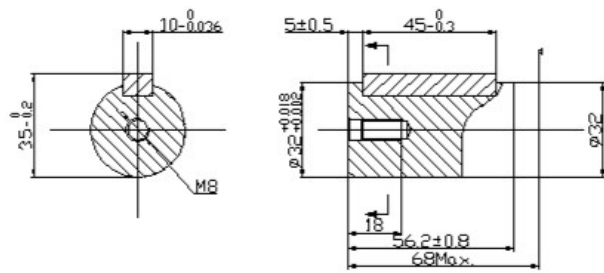
Model 型号	L	L1
GR50	140	10
GR80	146	16
GR100	150	20
GR125	155	25
GR160	161.5	30.5
GR200	170	38.1
GR250	180	50
GR315	192	62
GR400	207	76

Port 油口	G1 (Depth)	M1 (Depth)	U2 (Depth)	U1 (Depth)	G2 (Depth)
	深度	深度	深度	深度	深度
P(A,B)	G1/2 (15)	M22x1.5 (15)	7/8-14 O-ring (17)	1/2-14NPTF (15)	PT (RC) 1/2 (15)
T	G1/4 (12)	M14x1.5 (12)	7/16-20UNF (12)	7/16-20UNF (12)	PT (RC) 1/4 (9.7)
C	4-M8 (13)	4-M8 (13)	4-5/16-18UNC (13)	4-5/16-18UNC (13)	4-M8 (13)

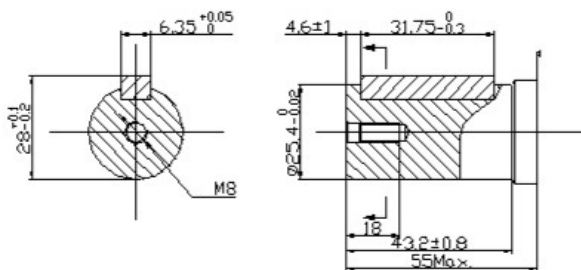
GR Shaft Extension Dimensions Data GR系列轴伸尺寸参数



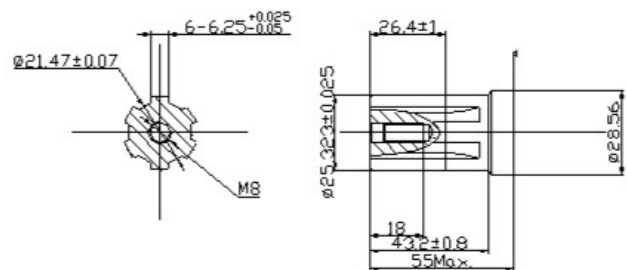
Shaft S1: Cylindrical shaft $\varnothing 25$
Parallel key 8x7x32
S1轴: 圆柱轴 $\varnothing 25$
平键 8x7x32



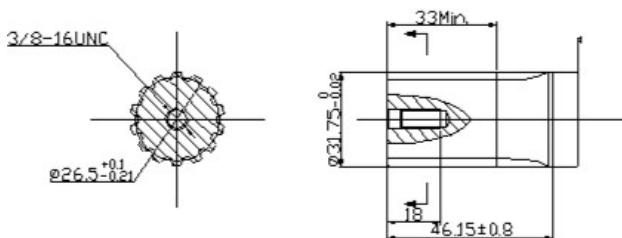
Shaft S4: Cylindrical shaft $\varnothing 32$
Parallel key 10x8x45
S4轴: 圆柱轴 $\varnothing 32$
平键 10x8x45



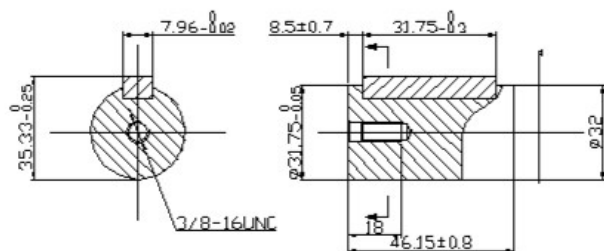
Shaft S2: Cylindrical shaft $\varnothing 25.4$
Parallel key 6.35x6.35x31.75
S2轴: 圆柱轴 $\varnothing 25.4$
平键 6.35x6.35x31.75



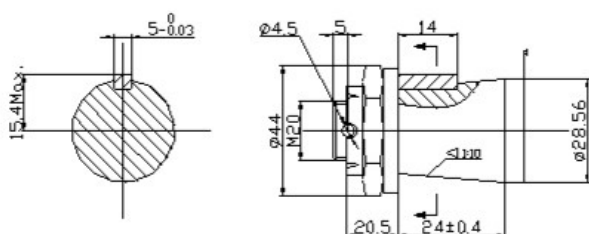
Shaft R1: Splined SAE 6B
R1轴: 花键SAE 6B



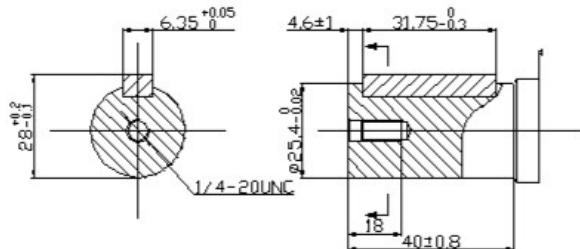
Shaft R2: Splined 14-DP12/24
R2轴: 花键14-DP12/24



Shaft S5: Cylindrical shaft $\varnothing 31.75$
Parallel key 7.96x7.96x31.75
S5轴: 圆柱轴 $\varnothing 31.75$
平键 7.96x7.96x31.75



Shaft T1: Tapered shaft $\varnothing 28.56$
Parallel key B5x5x14
Tightening torque: 100±10Nm
T1轴: 锥轴 $\varnothing 28.56$
平键 B5x5x14
螺母拧紧力矩: 100±10Nm



Shaft S3: Cylindrical shaft $\varnothing 25.4$
Parallel key 6.35x6.35x31.75
S3轴: 圆柱轴 $\varnothing 25.4$
平键 6.35x6.35x31.75



GR Shaft Extension Dimensions Data GR系列轴伸尺寸参数

Ordering Example:		Model	Displacement	Flange	Drive shaft	Ports	Other functions
		GR	50	A2	S1	G1	ACA
Model	Disp.	Flange	Drive shaft		Ports		
GR	50	A2=2-Hole SAE A Flange, Pilot \varnothing 82.5x8	S1=Shaft \varnothing 25, parallel key 8x7x32		G1=G1/2 manifold mount 4xM8, G1/4 G2=PT(Rc)1/2 manifold 4xM8, PT(Rc)1/4 U1=1/2-14NPTF manifold 4x5/16-18UNC, 7/16-20UNF U2=7/8-14UNF O-ring manifold 4x5/16- 18UNC, 7/16-20UNF M1=M22x1.5 manifold mount 4xM8, M14X1.5		
	80		S2=Shaft \varnothing 25.4, parallel key 6.35x6.35x31.75				
	100	A4=4-Hole SAE A Flange, Pilot \varnothing 82.5x8	S3=Short Shaft \varnothing 25.4, parallel key 6.35x6.35x31.75				
	125		S4=Shaft \varnothing 32, parallel key 10x8x45				
	160	H4=4-3/8-16 Hole Square Flange, Pilot \varnothing 44.4x2.8	S5=Shaft \varnothing 31.75, parallel key 7.96x7.96x31.75				
	200		R1=Shaft \varnothing 25.4, splined tooth SAE 6B				
	250		R2=Shaft \varnothing 25.4, splined tooth 14- DP12/24				
315	H5=4-M10 Hole Square Flange, Pilot \varnothing 44.4x2.8	T1=Tapered shaft \varnothing 28.56, parallel key B5x5x14					
400							

Rotation direction	Paint	Unusually function
A=Standard R=Opposite	A=No paint B=Blue C=Black S=Silver grey	A=Standard N=Big radial force D=No case drain F=Free running L=Low speed V=High temperature S=Low temperature



GR Shaft Extension Dimensions Data GR系列轴伸尺寸参数

订购示例:		型号	排量	法兰	传动轴	油口	其他功能
		GR	50	A2	S1	G1	ACA
型号	排量	法兰	传动轴		油口		
GR	50	A2=2孔 SAE A法兰, 止口 ∅82.5x8	S1=轴 ∅25, 平键 8x7x32		G1=G1/2 集成块安装 4xM8, G1/4		
	80		S2=轴 ∅25.4, 平键 6.35x6.35x31.75		G2=PT (Rc) 1/2 集成块安装 4xM8, PT (Rc) 1/4		
	100	A4=4孔 SAE A法兰, 止口 ∅82.5x8	S3=短轴 ∅25.4, 平键 6.35x6.35x31.75		U1=1/2-14NPTF 集成块安装 4x5/16-18UNC,		
	125		S4=轴 ∅32, 平键 10x8x45		7/16-20UNF		
	160	H4=4-3/8-16 孔方形法兰, 止口 ∅44.4x2.8	S5=轴 ∅31.75, 平键 7.96x7.96x31.75		U2=7/8-14UNF O型圈 集成块安装 4x5/16-		
	200		R1=轴 ∅25.4, 花键齿 SAE 6B		18UNC, 7/16-20UNF		
	250	H5=4-M10 孔方形法兰, 止口 ∅44.4x2.8	R2=轴 ∅25.4, 花键齿 14-DP12/24		M1=M22x1.5 集成块安装 4xM8, M14X1.5		
315		T1=锥形轴 ∅28.56, 平键 B5x5x14					
400							

旋转方向	喷漆	不常用的功能
A=标准 R=反向	A=无喷漆 B=蓝色 C=黑色 S=银灰色	A=标准 N=大径向力 D=无泄油口 F=自由转 L=低速 V=高温 S=低温



Flow Data 流量参数

GR50		51.5cm ³ /rev (3.14in ³ /rev)					最高连续 Max Cont.	最高断续 Max Int.	
压力 Pressure bar [psi→]		50.8[725]	71.1[1015]	91.4[1305]	101.5[1450]	121.8[1740]	142.2[2031]	162.5[2321]	177.7[2538]
Flow 流量	l/min[gpm↓]	扭矩 N m [lb-in] 转速 Torque N m [lb-in] Speed Specification							
	5 [1.32]	35 [310]	45 [398]	61 [540]	67 [593]	77 [682]	88 [779]		
		93rpm	84rpm	76rpm	73rpm	69rpm	46rpm		
	10 [2.64]	36 [319]	46 [407]	62 [549]	69 [611]	80 [708]	95 [841]	108 [956]	120 [1062]
		186rpm	178rpm	166rpm	162rpm	153rpm	136rpm	118rpm	97rpm
	15 [3.96]	35 [310]	49 [434]	63 [558]	73 [646]	88 [779]	100 [885]	109 [965]	123 [1089]
		283rpm	277rpm	269rpm	261rpm	250rpm	230rpm	211rpm	185rpm
	20 [5.28]	34 [305]	47 [416]	61 [540]	69 [611]	83 [735]	96 [850]	109 [965]	126 [1115]
		377rpm	375rpm	365rpm	361rpm	346rpm	330rpm	302rpm	270rpm
	30 [7.93]	33 [292]	44 [389]	60 [531]	67 [593]	80 [708]	95 [841]	108 [956]	126 [1115]
		576rpm	569rpm	561rpm	554rpm	542rpm	531rpm	500rpm	465rpm
	40 [10.57]	30 [266]	41 [363]	58 [513]	66 [584]	79 [699]	92 [814]	106 [938]	122 [1080]
		760rpm	758rpm	753rpm	750rpm	738rpm	724rpm	700rpm	670rpm
	45 [11.89]	29 [261]	40 [354]	57 [504]	65 [575]	78 [690]	90 [797]	105 [929]	121 [1071]
856rpm		853rpm	849rpm	845rpm	835rpm	815rpm	796rpm	770rpm	
50 [13.21]	26 [230]	37 [327]	53 [469]	60 [531]	73 [646]	85 [752]	99 [876]	114 [1009]	
Max Cont.	950rpm	940rpm	925rpm	906rpm	880rpm	852rpm	832rpm	801rpm	
60 [15.85]	20 [177]	33 [292]	48 [425]	56 [496]	69 [611]	81 [717]	95 [841]	109 [965]	
Max Int.	1138rpm	1124rpm	1100rpm	1075rpm	1056rpm	1028rpm	1006rpm	970rpm	

GR80		80.3cm ³ /rev (4.90in ³ /rev)					最高连续 Max Cont.	最高断续 Max Int.		
压力 Pressure bar [psi→]		50.8[725]	71.1[1015]	91.4[1305]	101.5[1450]	121.8[1740]	142.2[2031]	162.5[2321]	177.7[2538]	203.1[2901]
Flow 流量	l/min[gpm↓]	扭矩 (lb-in) 转速 Torque (lb-in) Speed Specification								
	5 [1.32]	50 [443]	64 [566]	88 [779]	108 [956]	133 [1177]				
		59rpm	56rpm	50rpm	44rpm	38rpm				
	10 [2.64]	54 [478]	77 [682]	99 [876]	108 [956]	129 [1142]	150 [1328]	173 [1531]		
		118rpm	113rpm	106rpm	97rpm	86rpm	79rpm	56rpm		
	20 [5.28]	57 [504]	78 [690]	102 [903]	111 [982]	134 [1186]	155 [1372]	177 [1567]	196 [1735]	225 [1991]
		238rpm	234rpm	227rpm	216rpm	203rpm	190rpm	178rpm	154rpm	135rpm
	30 [7.93]	54 [478]	75 [664]	100 [885]	108 [956]	131 [1159]	152 [1345]	176 [1558]	195 [1726]	223 [1974]
		360rpm	352rpm	340rpm	332rpm	316rpm	302rpm	290rpm	274rpm	250rpm
	40 [10.57]	48 [425]	73 [646]	96 [850]	105 [929]	127 [1124]	148 [1310]	172 [1522]	190 [1682]	220 [1947]
		480rpm	470rpm	458rpm	445rpm	430rpm	418rpm	403rpm	388rpm	359rpm
	50 [13.21]	42 [372]	70 [620]	93 [823]	102 [903]	124 [1097]	147 [1301]	170 [1505]	188 [1664]	218 [1929]
		604rpm	595rpm	582rpm	570rpm	556rpm	540rpm	521rpm	504rpm	487rpm
	60 [15.85]	37 [327]	66 [584]	89 [788]	99 [876]	121 [1071]	144 [1275]	166 [1469]	184 [1629]	213 [1885]
726rpm		715rpm	704rpm	692rpm	678rpm	663rpm	647rpm	622rpm	594rpm	
70 [18.49]	32 [283]	60 [531]	83 [735]	95 [841]	116 [1027]	140 [1239]	160 [1416]	177 [1567]	208 [1841]	
	845rpm	834rpm	820rpm	802rpm	789rpm	767rpm	754rpm	730rpm	705rpm	
75 [19.82]	21 [186]	50 [443]	78 [690]	90 [797]	111 [982]	135 [1195]	154 [1363]	171 [1513]	200 [1770]	
	910rpm	895rpm	881rpm	867rpm	852rpm	830rpm	806rpm	787rpm	756rpm	



Flow Data 流量参数

GR100		99.8cm ³ /rev (6.09in ³ /rev)						最高连续 Max Cont.		最高断续 Max Int.
压力 Pressure bar [psi→]		50.8 [725]	71.1 [1015]	91.4 [1305]	101.5 [1450]	121.8 [1740]	142.2 [2031]	162.5 [2321]	177.7 [2538]	203.1 [2901]
Flow 流量	l/min [gpm↓]	扭矩 N m [lb-in] 转速 Torque N m [lb-in] Speed Specification								
	5 [1.32]	66 [584]	92 [814]	120 [1062]	135 [1195]	156 [1381]				
		45rpm	42rpm	38rpm	34rpm	27rpm				
	10 [2.64]	68 [602]	96 [850]	125 [1106]	138 [1221]	159 [1407]	188 [1664]	212 [1876]		
		93rpm	90rpm	86rpm	81rpm	74rpm	57rpm	42rpm		
	20 [5.28]	65 [575]	94 [832]	123 [1089]	137 [1213]	155 [1372]	186 [1646]	210 [1859]	238 [2106]	274 [2425]
		189rpm	185rpm	180rpm	173rpm	165rpm	158rpm	150rpm	139rpm	118rpm
	30 [7.93]	63 [558]	92 [814]	120 [1062]	133 [1177]	153 [1354]	185 [1637]	209 [1850]	235 [2080]	270 [2390]
		286rpm	281rpm	275rpm	266rpm	257rpm	246rpm	237rpm	225rpm	207rpm
	40 [10.57]	57 [504]	88 [779]	117 [1036]	130 [1151]	152 [1345]	185 [1637]	208 [1841]	233 [2062]	267 [2363]
385rpm		378rpm	365rpm	355rpm	345rpm	332rpm	320rpm	314rpm	297rpm	
50 [13.21]	48 [425]	79 [699]	110 [974]	123 [1089]	150 [1328]	183 [1620]	204 [1806]	228 [2018]	260 [2301]	
	482rpm	477rpm	470rpm	460rpm	448rpm	435rpm	420rpm	405rpm	389rpm	
60 [15.85] Max Cont.	38 [336]	70 [620]	105 [929]	120 [1062]	144 [1275]	178 [1575]	200 [1770]	220 [1947]	252 [2230]	
	580rpm	572rpm	560rpm	548rpm	535rpm	523rpm	510rpm	500rpm	478rpm	
70 [18.49]	32 [283]	65 [575]	100 [885]	118 [1044]	141 [1248]	176 [1558]	197 [1744]	215 [1903]	246 [2177]	
	678rpm	670rpm	660rpm	648rpm	638rpm	626rpm	615rpm	606rpm	580rpm	
75 [19.82] Max Int.	23 [204]	59 [522]	93 [823]	111 [982]	136 [1204]	170 [1505]	192 [1699]	210 [1859]	240 [2124]	
	728rpm	720rpm	710rpm	695rpm	681rpm	667rpm	650rpm	634rpm	618rpm	

GR125		125.7cm ³ /rev (7.67in ³ /rev)						最高连续 Max Cont.		最高断续 Max Int.
压力 Pressure bar [psi→]		50.8 [725]	71.1 [1015]	91.4 [1305]	101.5 [1450]	121.8 [1740]	142.2 [2031]	162.5 [2321]	177.7 [2538]	203.1 [2901]
Flow 流量	l/min [gpm↓]	扭矩 N m [lb-in] 转速 Torque N m [lb-in] Speed Specification								
	5 [1.32]	76 [673]	110 [974]	145 [1283]	167 [1478]	189 [1673]				
		36rpm	31rpm	25rpm	19rpm	13rpm				
	10 [2.64]	84 [743]	118 [1044]	155 [1372]	176 [1558]	202 [1788]	228 [2018]	253 [2239]		
		73rpm	70rpm	60rpm	48rpm	36rpm	25rpm	19rpm		
	20 [5.28]	82 [726]	117 [1036]	153 [1354]	174 [1540]	200 [1770]	230 [2036]	259 [2292]	294 [2602]	332 [2938]
		153rpm	151rpm	148rpm	144rpm	138rpm	128rpm	117rpm	104rpm	73rpm
	30 [7.93]	79 [699]	116 [1027]	151 [1336]	171 [1513]	198 [1752]	228 [2018]	257 [2275]	292 [2584]	329 [2912]
		231rpm	228rpm	224rpm	218rpm	210rpm	201rpm	183rpm	168rpm	137rpm
	40 [10.57]	72 [637]	114 [1009]	148 [1310]	168 [1487]	196 [1735]	226 [2000]	256 [2266]	290 [2567]	327 [2894]
309rpm		307rpm	303rpm	298rpm	292rpm	280rpm	270rpm	252rpm	218rpm	
50 [13.21]	62 [549]	105 [929]	143 [1266]	165 [1460]	195 [1726]	223 [1974]	254 [2248]	287 [2540]	323 [2859]	
	389rpm	386rpm	382rpm	378rpm	370rpm	360rpm	344rpm	328rpm	292rpm	
60 [15.85] Max Cont.	52 [460]	98 [867]	136 [1204]	160 [1416]	191 [1690]	220 [1947]	250 [2213]	282 [2496]	319 [2823]	
	467rpm	463rpm	459rpm	456rpm	448rpm	427rpm	410rpm	399rpm	352rpm	
70 [18.49]	41 [363]	90 [797]	130 [1151]	156 [1381]	187 [1655]	215 [1903]	242 [2142]	278 [2460]	313 [2770]	
	545rpm	542rpm	538rpm	534rpm	529rpm	520rpm	508rpm	486rpm	430rpm	
75 [19.82] Max Int.	32 [283]	79 [699]	126 [1115]	148 [1310]	180 [1593]	208 [1841]	234 [2071]	262 [2319]	300 [2655]	
	586rpm	583rpm	578rpm	570rpm	560rpm	546rpm	532rpm	520rpm	480rpm	



Flow Data 流量参数

GR160		159.6cm ³ /rev(9.74in ³ /rev)						最高连续 Max Cont.		最高断续 Max Int.	
压力 Pressure bar [psi→]		50.8[725]	71.1[1015]	91.4[1305]	101.5[1450]	121.8[1740]	142.2[2031]	162.5[2321]	177.7[2538]	203.1[2901]	
Flow 流量	l/min(gpm↓)	扭矩 N m [lb-in] 转速 Torque N m [lb-in] Speed Specification									
	5 [1.32]	104 [920]	146 [1292]	190 [1682]	210 [1859]	245 [2168]					
		26rpm	23rpm	20rpm	16rpm	10rpm					
	10 [2.64]	107 [947]	150 [1328]	195 [1726]	216 [1912]	250 [2213]	290 [2567]	335 [2965]			
		59rpm	56rpm	50rpm	45rpm	37rpm	30rpm	22rpm			
	20 [5.28]	102 [903]	151 [1336]	198 [1752]	220 [1947]	257 [2275]	298 [2638]	342 [3027]	370 [3275]	420 [3717]	
		121rpm	118rpm	115rpm	113rpm	108rpm	102rpm	97rpm	90rpm	78rpm	
	30 [7.93]	97 [859]	146 [1292]	190 [1682]	217 [1921]	256 [2266]	295 [2611]	340 [3009]	368 [3257]	416 [3682]	
		184rpm	178rpm	173rpm	170rpm	164rpm	155rpm	143rpm	128rpm	103rpm	
	40 [10.57]	89 [788]	140 [1239]	185 [1637]	210 [1859]	252 [2230]	290 [2567]	335 [2965]	363 [3213]	412 [3646]	
		246rpm	241rpm	235rpm	228rpm	220rpm	210rpm	194rpm	177rpm	150rpm	
	50 [13.21]	72 [637]	128 [1133]	179 [1584]	202 [1788]	244 [2160]	284 [2514]	327 [2894]	358 [3169]	409 [3620]	
		310rpm	307rpm	300rpm	295rpm	287rpm	278rpm	262rpm	247rpm	210rpm	
	60 [15.85]	60 [531]	116 [1027]	170 [1505]	198 [1752]	240 [2124]	279 [2469]	321 [2841]	352 [3115]	400 [3540]	
Max Cont.		374rpm	367rpm	359rpm	354rpm	346rpm	338rpm	323rpm	306rpm	265rpm	
70 [18.49]	49 [434]	107 [947]	164 [1452]	193 [1708]	233 [2062]	271 [2399]	309 [2735]	344 [3045]	390 [3452]		
	437rpm	430rpm	421rpm	415rpm	403rpm	393rpm	381rpm	365rpm	318rpm		
75 [19.82]	36 [319]	109 [867]	152 [1345]	185 [1637]	226 [2000]	265 [2345]	300 [2655]	334 [2956]	379 [3354]		
	Max Int.	472rpm	463rpm	450rpm	441rpm	431rpm	420rpm	405rpm	389rpm	365rpm	

GR200		199.8cm ³ /rev(12.19in ³ /rev)						最高连续 Max Cont.		最高断续 Max Int.	
压力 Pressure bar [psi→]		50.8[725]	71.1[1015]	91.4[1305]	101.5[1450]	121.8[1740]	142.2[2031]	162.5[2321]	177.7[2538]	203.1[2901]	
Flow 流量	l/min(gpm↓)	扭矩 N m [lb-in] 转速 Torque N m [lb-in] Speed Specification									
	5 [1.32]	132 [1168]	181 [1602]	238 [2106]	262 [2319]	310 [2744]					
		24rpm	22rpm	18rpm	13rpm	10rpm					
	10 [2.64]	135 [1195]	186 [1646]	240 [2124]	264 [2337]	315 [2788]	356 [3151]	403 [3567]			
		49rpm	47rpm	45rpm	43rpm	38rpm	33rpm	24rpm			
	20 [5.28]	131 [1159]	183 [1620]	238 [2106]	260 [2301]	314 [2779]	358 [3169]	404 [3576]	438 [3877]	498 [4408]	
		99rpm	97rpm	94rpm	92rpm	88rpm	83rpm	74rpm	64rpm	56rpm	
	30 [7.93]	126 [1115]	178 [1575]	233 [2062]	254 [2248]	311 [2753]	355 [3142]	402 [3558]	431 [3815]	486 [4301]	
		149rpm	147rpm	144rpm	141rpm	135rpm	126rpm	113rpm	105rpm	91rpm	
	40 [10.57]	112 [991]	169 [1496]	228 [2018]	250 [2213]	307 [2717]	352 [3115]	400 [3540]	426 [3770]	477 [4222]	
		200rpm	197rpm	194rpm	191rpm	185rpm	174rpm	160rpm	151rpm	127rpm	
	50 [13.21]	95 [841]	156 [1381]	221 [1956]	246 [2177]	300 [2655]	350 [3098]	398 [3523]	421 [3726]	470 [4160]	
		252rpm	249rpm	246rpm	243rpm	238rpm	228rpm	212rpm	194rpm	161rpm	
	60 [15.85]	78 [690]	145 [1283]	213 [1885]	238 [2106]	289 [2558]	342 [3027]	386 [3416]	412 [3646]	459 [4062]	
Max Cont.		304rpm	301rpm	298rpm	294rpm	286rpm	276rpm	262rpm	243rpm	218rpm	
70 [18.49]	67 [593]	135 [1195]	206 [1823]	228 [2018]	277 [2452]	336 [2974]	375 [3319]	408 [3611]	453 [4009]		
	355rpm	353rpm	349rpm	340rpm	329rpm	316rpm	300rpm	288rpm	257rpm		
75 [19.82]	58 [513]	125 [1106]	197 [1744]	220 [1947]	270 [2390]	321 [2841]	360 [3186]	398 [3523]	442 [3912]		
	Max Int.	382rpm	379rpm	373rpm	362rpm	350rpm	337rpm	322rpm	312rpm	278rpm	



Flow Data 流量参数

GR250		15.26in ³ /rev (250.1cm ³ /rev)						最高连续 Max Cont.	最高断续 Max Int.	
压力 Pressure bar [psi→]		50.8[725]	71.1[1015]	91.4[1305]	101.5[1450]	121.8[1740]	142.2[2031]	162.5[2321]	177.7[2538]	203.1[2901]
Flow 流量	(gpm↓)	扭矩 N m [lb-in] 转速 Torque N m [lb-in] Speed Specification								
	5 [1.32]	175 [1549]	240 [2125]	304 [2691]	342 [3027]	407 [3602]				
		17rpm	16rpm	14rpm	12rpm	10rpm				
	10 [2.64]	178 [1575]	246 [2177]	310 [2744]	344 [3045]	409 [3620]	465 [4116]	525 [4647]		
		37rpm	35rpm	31rpm	28rpm	23rpm	18rpm	11rpm		
	20 [5.28]	175 [1549]	244 [2160]	308 [2726]	340 [3009]	408 [3611]	463 [4098]	520 [4602]	558 [4939]	686 [5629]
		75rpm	73rpm	72rpm	70rpm	66rpm	58rpm	53rpm	50rpm	42rpm
	30 [7.93]	162 [1434]	235 [2080]	304 [2691]	332 [2938]	400 [3540]	455 [4027]	516 [4567]	550 [4868]	621 [5496]
		114rpm	111rpm	108rpm	106rpm	100rpm	92rpm	83rpm	77rpm	65rpm
	40 [10.57]	143 [1266]	223 [1974]	300 [2655]	329 [2912]	396 [3505]	447 [3956]	512 [4532]	546 [4832]	617 [5461]
		154rpm	152rpm	150rpm	147rpm	143rpm	132rpm	120rpm	110rpm	90rpm
	50 [13.21]	124 [1097]	208 [1841]	289 [2558]	323 [2859]	384 [3399]	440 [3894]	503 [4452]	535 [4735]	600 [5310]
		193rpm	190rpm	187rpm	174rpm	168rpm	160rpm	149rpm	140rpm	116rpm
	60 [15.85] Max Cont.	103 [912]	192 [1699]	280 [2478]	314 [2779]	371 [3284]	381 [3370]	489 [4328]	514 [4549]	578 [5116]
233rpm		230rpm	227rpm	224rpm	218rpm	205rpm	190rpm	181rpm	155rpm	
70 [18.49]	88 [779]	178 [1575]	264 [2337]	301 [2664]	356 [3151]	418 [3700]	479 [4239]	498 [4408]	560 [4956]	
	273rpm	270rpm	267rpm	263rpm	252rpm	242rpm	226rpm	209rpm	173rpm	
75 [19.82] Max Int.	62 [549]	165 [1460]	256 [2266]	288 [2549]	347 [3071]	412 [3646]	474 [4195]	486 [4301]	542 [4797]	
	294rpm	291rpm	287rpm	283rpm	274rpm	263rpm	249rpm	236rpm	211rpm	

GR315		19.26in ³ /rev (315.7cm ³ /rev)						最高连续 Max Cont.	最高断续 Max Int.	
压力 Pressure bar [psi→]		50.8[725]	71.1[1015]	91.4[1305]	101.5[1450]	121.8[1740]	142.2[2031]	162.5[2321]	177.7[2538]	
Flow 流量	l/min(gpm↓)	扭矩 N m [lb-in] 转速 Torque N m [lb-in] Speed Specification								
	5 [1.32]	215 [1903]	302 [2673]							
		13rpm	11rpm							
	10 [2.64]	218 [1929]	305 [2699]	383 [3390]	422 [3735]	488 [4319]	551 [4877]	622 [5505]		
		28rpm	27rpm	25rpm	24rpm	21rpm	18rpm	13rpm		
	20 [5.28]	215 [1903]	303 [2682]	380 [3363]	418 [3700]	485 [4293]	549 [4859]	620 [5487]	660 [5841]	
		60rpm	59rpm	57rpm	55rpm	52rpm	49rpm	45rpm	42rpm	
	30 [7.93]	204 [1806]	296 [2620]	375 [3319]	413 [3655]	480 [4248]	542 [4797]	613 [5425]	654 [5788]	
		91rpm	89rpm	86rpm	84rpm	81rpm	78rpm	72rpm	67rpm	
	40 [10.57]	196 [1735]	287 [2540]	368 [3257]	410 [3629]	477 [4222]	539 [4771]	609 [5390]	650 [5753]	
		122rpm	120rpm	117rpm	112rpm	106rpm	100rpm	94rpm	85rpm	
	50 [13.21]	176 [1558]	270 [2390]	356 [3151]	393 [3478]	461 [4080]	526 [4655]	597 [5284]	645 [5709]	
		154rpm	151rpm	147rpm	140rpm	131rpm	120rpm	109rpm	100rpm	
	60 [15.85] Max Cont.	162 [1434]	246 [2177]	339 [3000]	374 [3310]	446 [3947]	511 [4523]	586 [5187]	628 [5558]	
185rpm		182rpm	177rpm	172rpm	163rpm	152rpm	140rpm	134rpm		
70 [18.49]	143 [1266]	235 [2080]	324 [2868]	358 [3169]	430 [3806]	493 [4363]	562 [4974]	614 [5434]		
	217rpm	213rpm	208rpm	201rpm	190rpm	178rpm	166rpm	158rpm		
75 [19.82] Max Int.	145 [1106]	212 [1876]	303 [2682]	339 [3000]	417 [3691]	481 [4257]	543 [4806]	582 [5151]		
	232rpm	228rpm	222rpm	216rpm	208rpm	200rpm	183rpm	171rpm		



Flow Data 流量参数

GR400		397cm ³ /rev(24.4in ³ /rev)					最高连续 Max Cont.	最高断续 Max Int.	
压力 Pressure bar [psi→]		50.8[725]	71.1[1015]	91.4[1305]	101.5[1450]	121.8[1740]	142.2[2031]	162.5[2321]	177.7[2538]
Flow 流量	l/min(gpm↓)	扭矩 N m [lb-in] 转速 Torque N m [lb-in] Speed Specification							
	5 [1.32]	153 [1354]	232 [2053]						
		12rpm	10rpm						
	10 [2.64]	157 [1390]	236 [2089]	284 [2514]	337 [2983]	406 [3593]	497 [4399]	612 [5417]	668 [5912]
		24rpm	23rpm	22rpm	21rpm	19rpm	17rpm	15rpm	12rpm
	20 [5.28]	150 [1328]	232 [2053]	280 [2478]	332 [2938]	401 [3549]	490 [4337]	606 [5364]	649 [5841]
		49rpm	48rpm	47rpm	46rpm	44rpm	41rpm	38rpm	32rpm
	30 [7.93]	142 [1257]	215 [1903]	274 [2425]	327 [2894]	398 [3523]	483 [4275]	603 [5337]	652 [5771]
		76rpm	75rpm	74rpm	73rpm	71rpm	67rpm	63rpm	50rpm
	40 [10.57]	126 [1115]	212 [1876]	268 [2372]	320 [2832]	393 [3478]	477 [4222]	593 [5248]	635 [5620]
		103rpm	101rpm	99rpm	97rpm	95rpm	92rpm	88rpm	70rpm
	50 [13.21]	105 [929]	187 [1655]	242 [2142]	302 [2673]	376 [3328]	455 [4027]	583 [5160]	608 [5381]
		128rpm	126rpm	124rpm	121rpm	118rpm	115rpm	111rpm	96rpm
	60 [15.85]	90 [797]	167 [1478]	229 [2027]	281 [2487]	362 [3204]	444 [3930]	566 [5009]	600 [5310]
Max Cont.		154rpm	152rpm	150rpm	148rpm	145rpm	138rpm	130rpm	121rpm
70 [18.49]	90 [797]	149 [1319]	200 [1770]	258 [2283]	341 [3018]	425 [3762]	546 [4832]	580 [5133]	
		180rpm	179rpm	178rpm	176rpm	173rpm	168rpm	160rpm	148rpm
75 [19.82]	56 [496]	125 [1106]	182 [1611]	241 [2133]	320 [2832]	408 [3611]	524 [4638]	565 [5001]	
	Max Int.	195rpm	194rpm	193rpm	191rpm	189rpm	185rpm	178rpm	170rpm

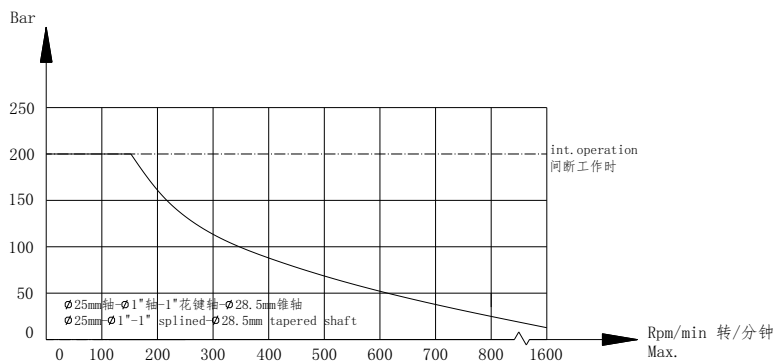
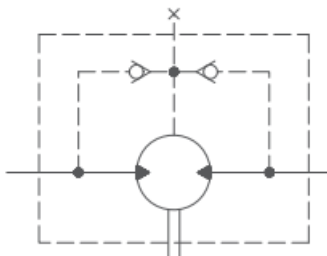
Technical Data 技术数据

Hydraulic orbit Motors GR

Permissible shaft seal pressure

GR系列摆线液压马达

输出轴密封圈允许承受的压力



In applications without drain line, output shaft seal exceeds a bit of the pressure in the return line. When applications use the drain line, the pressure of output shaft seal equals the pressure in drain line.

在无外卸油管的使用中，输出轴密封圈上的压力微高于回油管路中的压力。当使用外卸油管时，输出轴密封圈上的压力则与外泄油管路中的压力相同。

Case Drain

泄油口:

In applications without a motor drain line, the pressure exerted on the shaft seal is marginally in excess of the return line pressure. When the Drain line is used, the pressure exerted on the shaft seal is equal to the return line pressure.

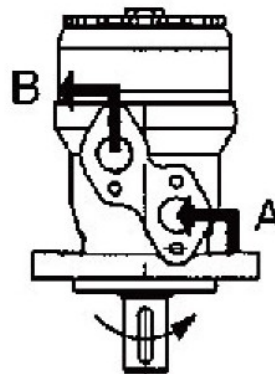
在没有使用排油管的应用中，施加在轴封上的压力略高于回油管压力。使用排油管时，施加在轴封上的压力等于回油管压力。

Standard direction of shaft rotation: Standard

轴旋转的标准方向: 标准

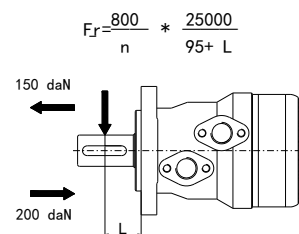
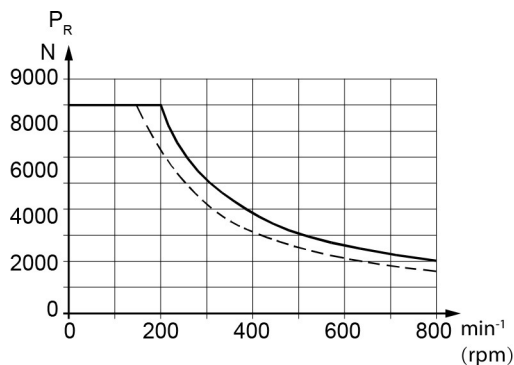
When facing shaft end of motor, shaft to rotate: Clock-wise when port "A" is pressurized. Counter-clockwise port "B" is pressurized.

当面对电动机的轴端时，轴旋转：当端口“A”增压时，顺时针方向旋转。当端口“B”增压时，逆时针方向旋转。



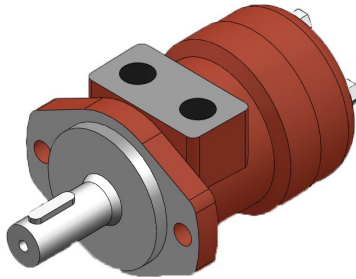
Axial and Radial forces

轴向力和径向力



Fr =Radial Force (daN) Fr =径向力 (daN)
 L =Distance (mm) L =距离 (mm)
 n =Speed (rpm) n =转速 (rpm)
 Rhomb-flange L=30mm 菱形法兰 L=30mm
 Square-flange L=24mm 方形法兰 L=24mm

General 概述

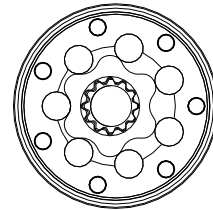


APPLICATION 应用

- ◇ Conveyors 输送机
- ◇ Feeding machinery of robots and manipulators 机器人和操纵器的给料机械
- ◇ Metal working machines 金属加工器械
- ◇ Textile machines 纺织机
- ◇ Agricultural machines 农用机械
- ◇ Food industries 食品工业
- ◇ Lawn mower 割草机

OPTIONS 可选功能

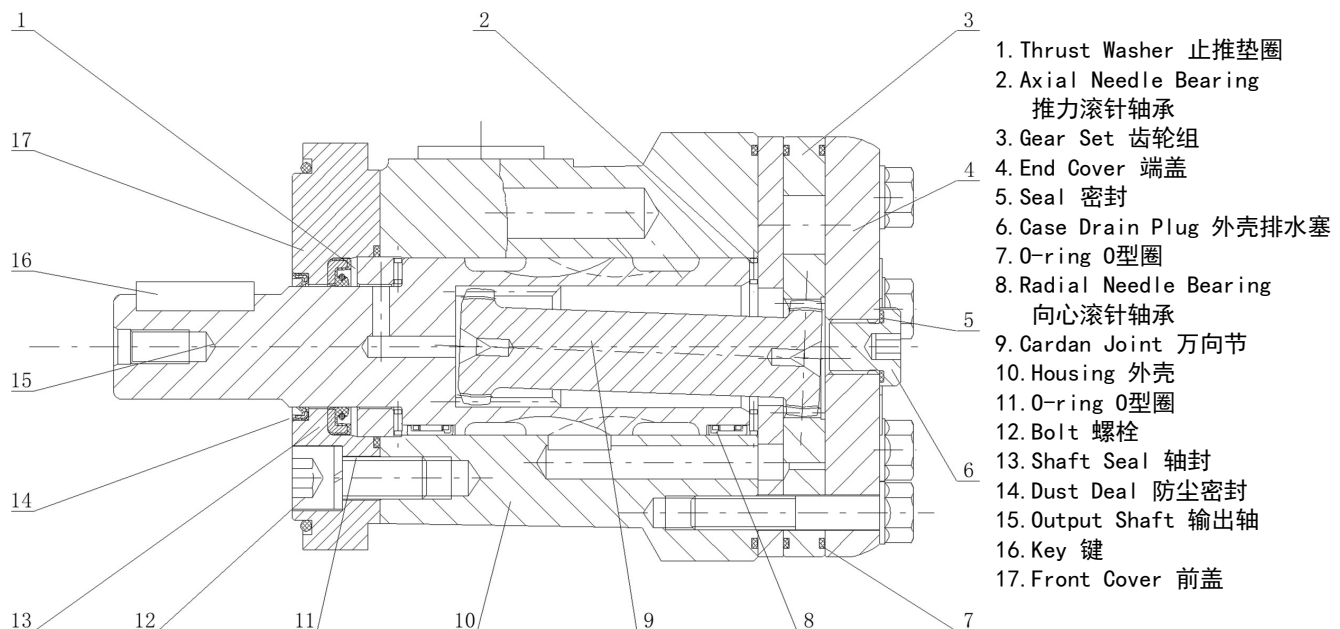
- ◇ Flange connection 法兰连接
- ◇ Motor with needle bearing 马达带滚针轴承
- ◇ Side and rear ports 侧边和底部油口
- ◇ Shafts—straight, splined and tapered 轴伸—平键，花键，锥键
- ◇ Shaft seal for high and low pressure 轴油封可适用于高压和低压
- ◇ Metric and BSPP ports 公制和BSPP油口
- ◇ Speed sensing 速度感应
- ◇ Other special features 其他功能



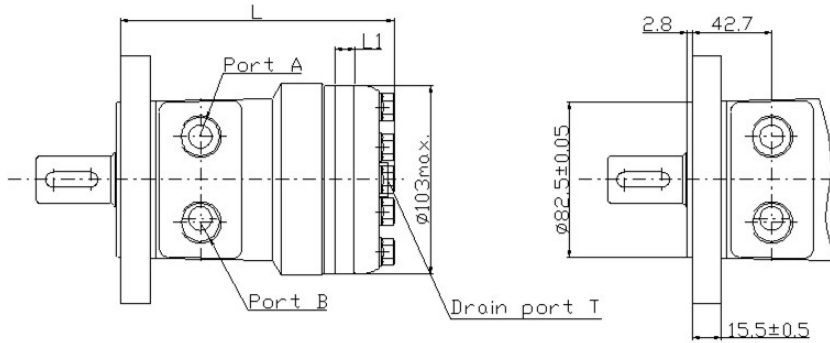
- ◇ Shaft distribution flow 轴配流

技术指标

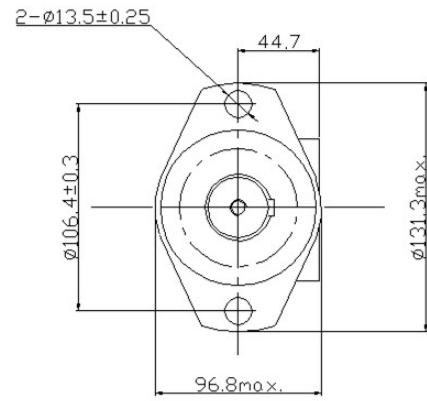
型号 Model		GRS50	GRS80	GRS100	GRS125	GRS160	GRS200	GRS250	GRS315	GRS400
排量 Disp.	in ³ /rev	3.14	4.90	6.09	7.67	9.74	12.19	15.26	19.26	24.4
	cm ³ /rev	51.5	80.3	99.8	125.7	159.6	199.8	250.1	315.7	397
最高转速 Max Speed rpm	连续 cont.	775	750	600	475	375	300	240	190	150
	断续 int.	970	940	750	600	470	375	300	240	190
最大扭矩 Max Torque N m [lb-in]	连续 cont.	100 [900]	200 [1770]	240 [2125]	300 [2665]	390 [3450]	385 [3410]	390 [3450]	360 [3185]	380 [3360]
	断续 int.	130 [1150]	220 [1947]	280 [2480]	340 [3010]	430 [3805]	460 [4070]	470 [4160]	470 [4160]	470 [4160]
最大压力差 Max Dif. bar [psi]	连续 cont.	140 [2030]	175 [2540]	175 [2540]	175 [2540]	175 [2540]	140 [2030]	110 [1600]	85 [1230]	65 [940]
	断续 int.	175 [2540]	200 [2900]	200 [2900]	200 [2900]	200 [2900]	175 [2540]	140 [2030]	115 [1670]	90 [1300]
最大流量 Max Flow l/min [gpm]	连续 cont.	40 [10.5]	60 [15.8]	60 [15.8]	60 [15.8]	60 [15.8]	60 [15.8]	60 [15.8]	60 [15.8]	60 [15.8]
	断续 int.	50 [13.2]	75 [19.8]	75 [19.8]	75 [19.8]	75 [19.8]	75 [19.8]	75 [19.8]	75 [19.8]	75 [19.8]
重量 Weight kg [lbs]		6.9[15.2]	7[15.4]	7.3[16.1]	7.4[16.3]	7.6[15.4]	8.1[17.6]	8.5[18.5]	9.2[20.3]	9.9[21.8]



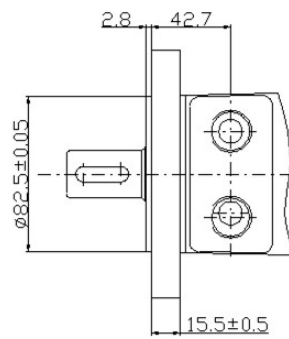
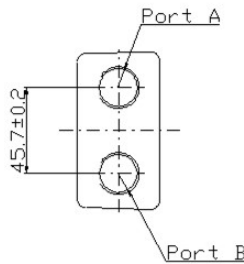
Dimensions and Mounting Data 尺寸和安装参数



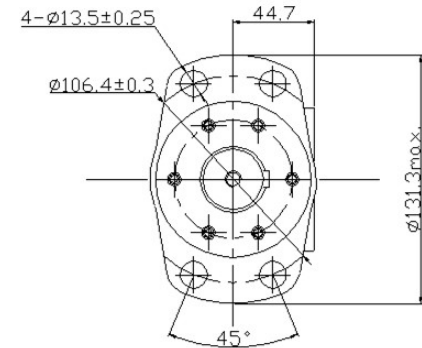
法兰A1



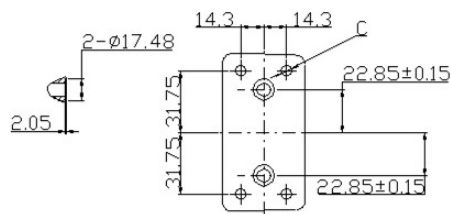
Port 油口: G, S, P, R, M1, M2, M3



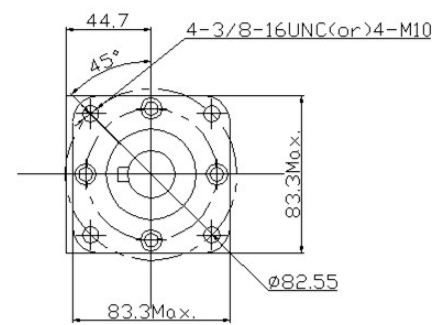
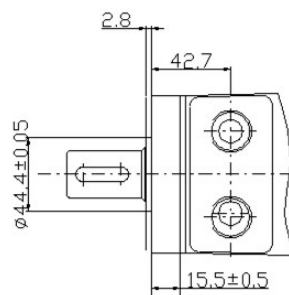
法兰A2



Port 油口: D1, D2



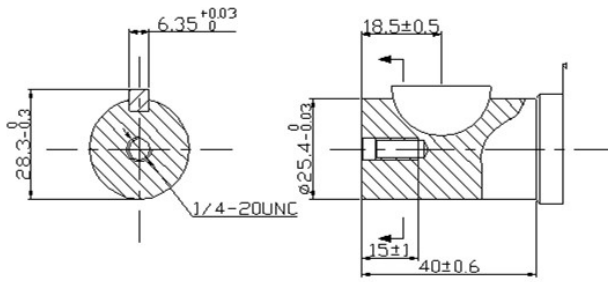
法兰H4/H5



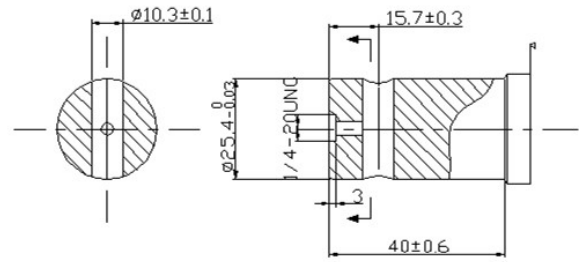
Model 型号	L	L1
GRS50	146	10
GRS80	152	16
GRS100	156	20
GRS125	161	25
GRS160	166.5	30.5
GRS200	174	38.1
GRS250	186	50
GRS315	198	62
GRS400	213	76

Port 油口	G7 (Depth)	U9 (Depth)	UA (Depth)	G8 (Depth)	M2 (Depth)	M3 (Depth)	M4 (Depth)	D1 (Depth)	D2 (Depth)
	深度	深度	深度	深度	深度	深度	深度	深度	深度
P(A,B)	G1/2 (15)	7/8-14 O-ring (17)	1/2-14NPTF (15)	PT (RC) 1/2 (15)	M18x1.5 (15)	M20x1.5 (15)	M22x1.5 (15)	10	10
T	G1/4 (12)	7/16-20UNF (12)	7/16-20UNF (12)	PT (RC) 1/4 (9.7)	M10x1 (12)	M10x1 (12)	M10x1 (12)	7/16-20UNF (12)	G1/4 (12)
C	-	-	-	-	-	-	-	4-5/16-18UNC (13)	4-M8 (13)

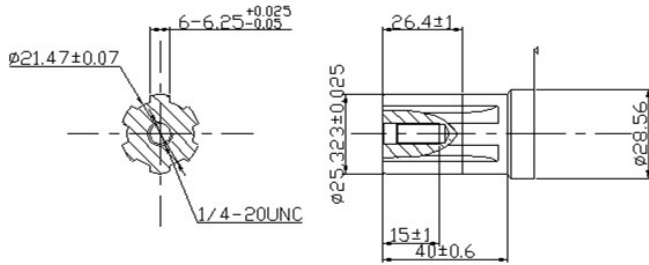
GRS Shaft Extension Dimensions Data GRS系列轴伸尺寸参数



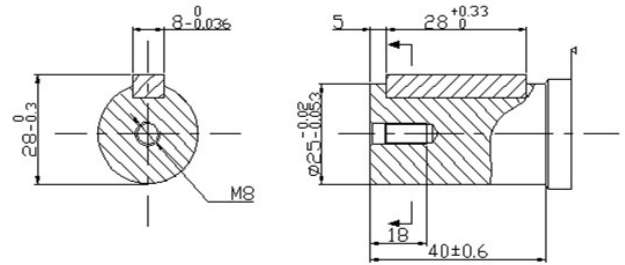
Shaft S6: Cylindrical shaft $\varnothing 25.4$
Woodruff key $\varnothing 25.4 \times 6.35$
S6轴: 圆柱轴 $\varnothing 25.4$
半圆键 $\varnothing 25.4 \times 6.35$



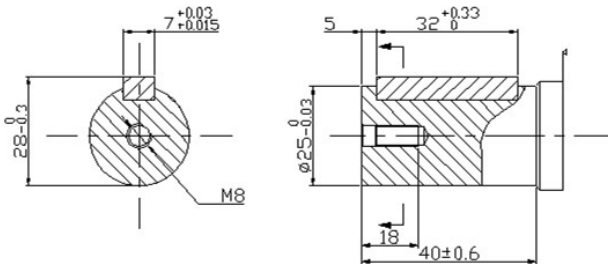
Shaft S9: Cylindrical shaft $\varnothing 25.4$
Pin hole $\varnothing 10.3$
S9轴: 圆柱轴 $\varnothing 25.4$
销孔 $\varnothing 10.3$



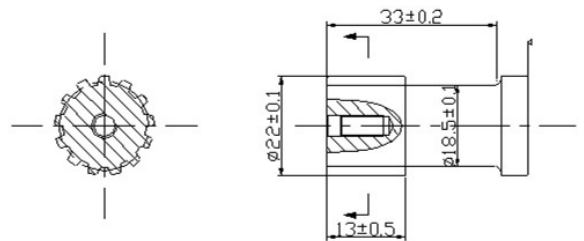
Shaft R4: Splined SAE 6B
R4轴: 花键SAE 6B



Shaft SC: Cylindrical shaft $\varnothing 25$
Parallel key $8 \times 7 \times 8$
SC轴: 圆柱轴 $\varnothing 25$
平键 $8 \times 7 \times 28$

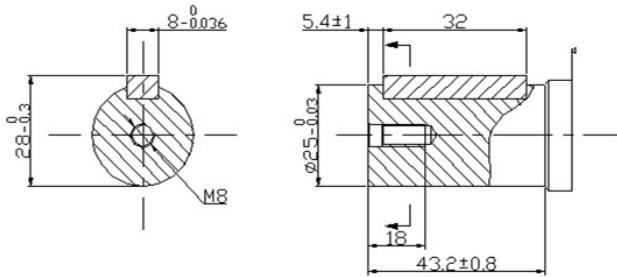


Shaft SD: Cylindrical shaft $\varnothing 25$
Parallel key $7 \times 7 \times 32$
SD轴: 圆柱轴 $\varnothing 25$
平键 $7 \times 7 \times 32$

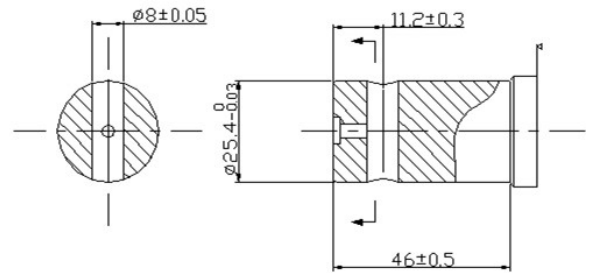


Shaft R5: Splined 13-DP16/32
R5轴: 花键13-DP16/32

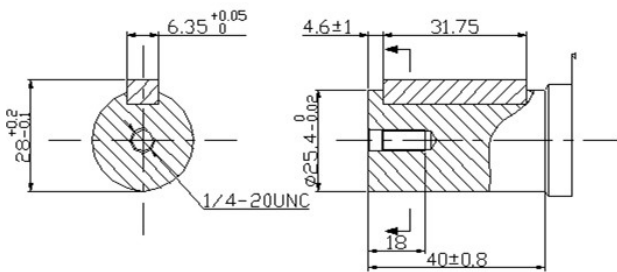
GRS Shaft Extension Dimensions Data GRS系列轴伸尺寸参数



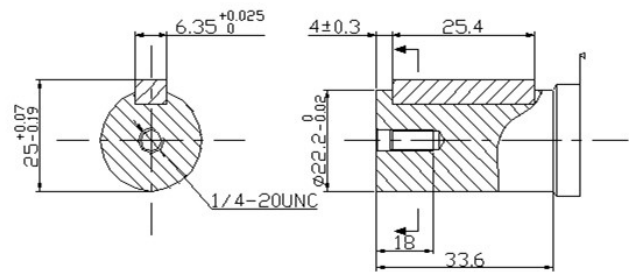
Shaft S7: Cylindrical shaft $\varnothing 25$
Parallel key 8x7x32
S7轴: 圆柱轴 $\varnothing 25$
平键 8x7x32



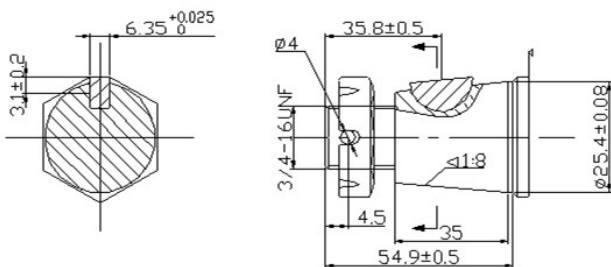
Shaft SA: Cylindrical shaft $\varnothing 25.4$
Pin hole $\varnothing 8$
SA轴: 圆柱轴 $\varnothing 25.4$
销孔 $\varnothing 8$



Shaft S8: Cylindrical shaft $\varnothing 25.4$
Parallel key 6.35x6.35x31.75
S8轴: 圆柱轴 $\varnothing 25.4$
平键 6.35x6.35x31.75



Shaft SB: Cylindrical shaft $\varnothing 22.22$
Parallel key 6.35x6.35x25.4
SB轴: 圆柱轴 $\varnothing 22.22$
平键 6.35x6.35x25.4



Shaft T3: Tapered shaft $\varnothing 25.4$
Woodruff key $\varnothing 25.4 \times 6.35$
Tightening torque: $200 \pm 10 \text{ Nm}$
T3轴: 锥轴 $\varnothing 25.4$
半圆键 $\varnothing 25.4 \times 6.35$
螺母拧紧力矩: $200 \pm 10 \text{ Nm}$



GRS Shaft Extension Dimensions Data GRS系列轴伸尺寸参数

Ordering Example:		Model	Displacement	Flange	Drive shaft	Ports	Other functions
		GRS	50	A1	S6	G7	ACA
Model	Disp.	Flange		Drive shaft		Ports	
GRS	50	A1=2-Hole SAE A Flange, Pilot ∅82.5x8		S6=Shaft ∅25.4, woodruff key ∅25.4x6.35		G7=G1/2, G1/4 U9=7/8-14 O-ring, 7/16-20UNF UA=1/2-14NPTF, 7/16-20UNF G8=PT (Rc) 1/2, PT (Rc) 1/4 D1=∅10 O-ring Plate 4x5/16-18UNC, 7/16-20UNF D2=∅10 O-ring Plate 4xM8, G1/4 M2=M18x1.5, M10x1 M3=M20x1.5, M10x1 M4=M22x1.5, M10x1	
	80			R4=Shaft ∅25.4, spline SAE 6B			
	100	A2=4-Hole SAE A Flange, Pilot ∅82.5x8		S7=Shaft ∅25.4, parallel key 8x7x32			
	125			S8=Shaft ∅25.4, parallel key 6.35x6.35x31.75			
	160	H4=4-3/8-16 Hole Square Flange, Pilot ∅44.4x2.8		S9=Shaft ∅25.4, Pin hole ∅10.3			
	200			SA=Shaft ∅25.4, Pin hole ∅8			
	250	H5=4-M10 Hole Square Flange, Pilot ∅44.4x2.8		SB=Shaft ∅22.22, parallel key 6.35x6.35x25.4			
	315			R5=Shaft ∅22.22, spline 13- DP16/32			
	400			T3=Tapered shaft ∅25.4, wood- ruff key ∅25.4x6.35			
				SD=Shaft ∅25, parallel key 7x7x32			
			SC=Shaft ∅25, parallel key 8x7x28				

Rotation direction	Paint	Unusually function
A=Standard R=Opposite	A=No paint B=Blue C=Black S=Silver grey	A=Standard N=Big radial force D=No case drain F=Free running L=Low speed V=High temperature S=Low temperature



GRS Shaft Extension Dimensions Data GRS系列轴伸尺寸参数

订购示例:		型号	排量	法兰	传动轴	油口	其他功能
		GRS	50	A1	S6	G7	ACA
型号	排量	法兰		传动轴		油口	
GRS	50			S6=轴 \varnothing 25.4, 半圆键 \varnothing 25.4x6.35		G7=G1/2, G1/4	
	80	A1=2孔 SAE A法兰, 止口 \varnothing 82.5x8		R4=轴 \varnothing 25.4, 花键 SAE 6B		U9=7/8-14 O型圈, 7/16-20UNF	
	100	A2=4孔 SAE A法兰, 止口 \varnothing 82.5x8		S7=轴 \varnothing 25.4, 平键 8x7x32		UA=1/2-14NPTF, 7/16-20UNF	
	125	H4=4-3/8-16 孔方形法兰, 止口 \varnothing 44.4x2.8		S8=轴 \varnothing 25.4, 平键 6.35x6.35x31.75		G8=PT (Rc) 1/2, PT (Rc) 1/4	
	160			S9=轴 \varnothing 25.4, 销孔 \varnothing 10.3		D1= \varnothing 10 O型圈 板式 4x5/16-18UNC, 7/16-20UNF	
	200	H5=4-M10 孔方形法兰, 止口 \varnothing 44.4x2.8		SA=轴 \varnothing 25.4, 销孔 \varnothing 8		D2= \varnothing 10 O型圈 板式 4xM8, G1/4	
	250			SB=轴 \varnothing 22.22, 平键 6.35x6.35x25.4		M2=M18x1.5, M10x1	
	315			R5=轴 \varnothing 22.22, 花键 13-DP16/32		M3=M20x1.5, M10x1	
	400			T3=锥轴 \varnothing 25.4, 半圆键 \varnothing 25.4x6.35		M4=M22x1.5, M10x1	
				SD=轴 \varnothing 25, 平键 7x7x32			
				SC=轴 \varnothing 25, 平键 8x7x28			

旋转方向	喷漆	不常用的功能
A=标准 R=反向	A=No Paint B=蓝色 C=Black S=银灰色	A=标准 N=大径向力 D=无泄油口 F=自由转 L=低速 V=高温 S=低温



Flow Data 流量参数

GRS50		51.5cm ³ /rev (3.14in ³ /rev)					最高连续 Max Cont.	最高断续 Max Int.	
压力 Pressure bar [psi→]		50.8[725]	71.1[1015]	91.4[1305]	101.5[1450]	121.8[1740]	142.2[2031]	162.5[2321]	177.7[2538]
Flow 流量	l/min[gpm↓]	扭矩 N m [lb-in] 转速 Torque N m [lb-in] Speed Specification							
	5 [1.32]	35 [310]	45 [398]	61 [540]	67 [593]	77 [682]	88 [779]		
		93rpm	84rpm	76rpm	73rpm	69rpm	46rpm		
	10 [2.64]	36 [319]	46 [407]	62 [549]	69 [611]	80 [708]	95 [841]	108 [956]	120 [1062]
		186rpm	178rpm	166rpm	162rpm	153rpm	136rpm	118rpm	97rpm
	15 [3.96]	35 [310]	49 [434]	63 [558]	73 [646]	88 [779]	100 [885]	109 [965]	123 [1089]
		283rpm	277rpm	269rpm	261rpm	250rpm	230rpm	211rpm	185rpm
	20 [5.28]	34 [305]	47 [416]	61 [540]	69 [611]	83 [735]	96 [850]	109 [965]	126 [1115]
		377rpm	375rpm	365rpm	361rpm	346rpm	330rpm	302rpm	270rpm
	30 [7.93]	33 [292]	44 [389]	60 [531]	67 [593]	80 [708]	95 [841]	108 [956]	126 [1115]
		576rpm	569rpm	561rpm	554rpm	542rpm	531rpm	500rpm	465rpm
	40 [10.57]	30 [266]	41 [363]	58 [513]	66 [584]	79 [699]	92 [814]	106 [938]	122 [1080]
		760rpm	758rpm	753rpm	750rpm	738rpm	724rpm	700rpm	670rpm
	45 [11.89]	29 [261]	40 [354]	57 [504]	65 [575]	78 [690]	90 [797]	105 [929]	121 [1071]
856rpm		853rpm	849rpm	845rpm	835rpm	815rpm	796rpm	770rpm	
50 [13.21]	26 [230]	37 [327]	53 [469]	60 [531]	73 [646]	85 [752]	99 [876]	114 [1009]	
Max Cont.		950rpm	940rpm	925rpm	906rpm	880rpm	852rpm	832rpm	801rpm
60 [15.85]	20 [177]	33 [292]	48 [425]	56 [496]	69 [611]	81 [717]	95 [841]	109 [965]	
Max Int.		1138rpm	1124rpm	1100rpm	1075rpm	1056rpm	1028rpm	1006rpm	970rpm

GRS80		80.3cm ³ /rev (4.90in ³ /rev)					最高连续 Max Cont.	最高断续 Max Int.		
压力 Pressure bar [psi→]		50.8[725]	71.1[1015]	91.4[1305]	101.5[1450]	121.8[1740]	142.2[2031]	162.5[2321]	177.7[2538]	203.1[2901]
Flow 流量	l/min[gpm↓]	扭矩 (lb-in) 转速 Torque (lb-in) Speed Specification								
	5 [1.32]	50 [443]	64 [566]	88 [779]	108 [956]	133 [1177]				
		59rpm	56rpm	50rpm	44rpm	38rpm				
	10 [2.64]	54 [478]	77 [682]	99 [876]	108 [956]	129 [1142]	150 [1328]	173 [1531]		
		118rpm	113rpm	106rpm	97rpm	86rpm	79rpm	56rpm		
	20 [5.28]	57 [504]	78 [690]	102 [903]	111 [982]	134 [1186]	155 [1372]	177 [1567]	196 [1735]	225 [1991]
		238rpm	234rpm	227rpm	216rpm	203rpm	190rpm	178rpm	154rpm	135rpm
	30 [7.93]	54 [478]	75 [664]	100 [885]	108 [956]	131 [1159]	152 [1345]	176 [1558]	195 [1726]	223 [1974]
		360rpm	352rpm	340rpm	332rpm	316rpm	302rpm	290rpm	274rpm	250rpm
	40 [10.57]	48 [425]	73 [646]	96 [850]	105 [929]	127 [1124]	148 [1310]	172 [1522]	190 [1682]	220 [1947]
		480rpm	470rpm	458rpm	445rpm	430rpm	418rpm	403rpm	388rpm	359rpm
	50 [13.21]	42 [372]	70 [620]	93 [823]	102 [903]	124 [1097]	147 [1301]	170 [1505]	188 [1664]	218 [1929]
		604rpm	595rpm	582rpm	570rpm	556rpm	540rpm	521rpm	504rpm	487rpm
	60 [15.85]	37 [327]	66 [584]	89 [788]	99 [876]	121 [1071]	144 [1275]	166 [1469]	184 [1629]	213 [1885]
726rpm		715rpm	704rpm	692rpm	678rpm	663rpm	647rpm	622rpm	594rpm	
70 [18.49]	32 [283]	60 [531]	83 [735]	95 [841]	116 [1027]	140 [1239]	160 [1416]	177 [1567]	208 [1841]	
	845rpm	834rpm	820rpm	802rpm	789rpm	767rpm	754rpm	730rpm	705rpm	
75 [19.82]	21 [186]	50 [443]	78 [690]	90 [797]	111 [982]	135 [1195]	154 [1363]	171 [1513]	200 [1770]	
	910rpm	895rpm	881rpm	867rpm	852rpm	830rpm	806rpm	787rpm	756rpm	



Flow Data 流量参数

GRS100		99.8cm ³ /rev (6.09in ³ /rev)						最高连续 Max Cont.		最高断续 Max Int.
压力 Pressure bar [psi→]		50.8 [725]	71.1 [1015]	91.4 [1305]	101.5 [1450]	121.8 [1740]	142.2 [2031]	162.5 [2321]	177.7 [2538]	203.1 [2901]
Flow 流量	l/min [gpm↓]	扭矩 N m [lb-in] 转速 Torque N m [lb-in] Speed Specification								
	5 [1.32]	66 [584]	92 [814]	120 [1062]	135 [1195]	156 [1381]				
		45rpm	42rpm	38rpm	34rpm	27rpm				
	10 [2.64]	68 [602]	96 [850]	125 [1106]	138 [1221]	159 [1407]	188 [1664]	212 [1876]		
		93rpm	90rpm	86rpm	81rpm	74rpm	57rpm	42rpm		
	20 [5.28]	65 [575]	94 [832]	123 [1089]	137 [1213]	155 [1372]	186 [1646]	210 [1859]	238 [2106]	274 [2425]
		189rpm	185rpm	180rpm	173rpm	165rpm	158rpm	150rpm	139rpm	118rpm
	30 [7.93]	63 [558]	92 [814]	120 [1062]	133 [1177]	153 [1354]	185 [1637]	209 [1850]	235 [2080]	270 [2390]
		286rpm	281rpm	275rpm	266rpm	257rpm	246rpm	237rpm	225rpm	207rpm
	40 [10.57]	57 [504]	88 [779]	117 [1036]	130 [1151]	152 [1345]	185 [1637]	208 [1841]	233 [2062]	267 [2363]
385rpm		378rpm	365rpm	355rpm	345rpm	332rpm	320rpm	314rpm	297rpm	
50 [13.21]	48 [425]	79 [699]	110 [974]	123 [1089]	150 [1328]	183 [1620]	204 [1806]	228 [2018]	260 [2301]	
	482rpm	477rpm	470rpm	460rpm	448rpm	435rpm	420rpm	405rpm	389rpm	
60 [15.85] Max Cont.	38 [336]	70 [620]	105 [929]	120 [1062]	144 [1275]	178 [1575]	200 [1770]	220 [1947]	252 [2230]	
	580rpm	572rpm	560rpm	548rpm	535rpm	523rpm	510rpm	500rpm	478rpm	
70 [18.49]	32 [283]	65 [575]	100 [885]	118 [1044]	141 [1248]	176 [1558]	197 [1744]	215 [1903]	246 [2177]	
	678rpm	670rpm	660rpm	648rpm	638rpm	626rpm	615rpm	606rpm	580rpm	
75 [19.82] Max Int.	23 [204]	59 [522]	93 [823]	111 [982]	136 [1204]	170 [1505]	192 [1699]	210 [1859]	240 [2124]	
	728rpm	720rpm	710rpm	695rpm	681rpm	667rpm	650rpm	634rpm	618rpm	

GRS125		125.7cm ³ /rev (7.67in ³ /rev)						最高连续 Max Cont.		最高断续 Max Int.
压力 Pressure bar [psi→]		50.8 [725]	71.1 [1015]	91.4 [1305]	101.5 [1450]	121.8 [1740]	142.2 [2031]	162.5 [2321]	177.7 [2538]	203.1 [2901]
Flow 流量	l/min [gpm↓]	扭矩 N m [lb-in] 转速 Torque N m [lb-in] Speed Specification								
	5 [1.32]	76 [673]	110 [974]	145 [1283]	167 [1478]	189 [1673]				
		36rpm	31rpm	25rpm	19rpm	13rpm				
	10 [2.64]	84 [743]	118 [1044]	155 [1372]	176 [1558]	202 [1788]	228 [2018]	253 [2239]		
		73rpm	70rpm	60rpm	48rpm	36rpm	25rpm	19rpm		
	20 [5.28]	82 [726]	117 [1036]	153 [1354]	174 [1540]	200 [1770]	230 [2036]	259 [2292]	294 [2602]	332 [2938]
		153rpm	151rpm	148rpm	144rpm	138rpm	128rpm	117rpm	104rpm	73rpm
	30 [7.93]	79 [699]	116 [1027]	151 [1336]	171 [1513]	198 [1752]	228 [2018]	257 [2275]	292 [2584]	329 [2912]
		231rpm	228rpm	224rpm	218rpm	210rpm	201rpm	183rpm	168rpm	137rpm
	40 [10.57]	72 [637]	114 [1009]	148 [1310]	168 [1487]	196 [1735]	226 [2000]	256 [2266]	290 [2567]	327 [2894]
309rpm		307rpm	303rpm	298rpm	292rpm	280rpm	270rpm	252rpm	218rpm	
50 [13.21]	62 [549]	105 [929]	143 [1266]	165 [1460]	195 [1726]	223 [1974]	254 [2248]	287 [2540]	323 [2859]	
	389rpm	386rpm	382rpm	378rpm	370rpm	360rpm	344rpm	328rpm	292rpm	
60 [15.85] Max Cont.	52 [460]	98 [867]	136 [1204]	160 [1416]	191 [1690]	220 [1947]	250 [2213]	282 [2496]	319 [2823]	
	467rpm	463rpm	459rpm	456rpm	448rpm	427rpm	410rpm	399rpm	352rpm	
70 [18.49]	41 [363]	90 [797]	130 [1151]	156 [1381]	187 [1655]	215 [1903]	242 [2142]	278 [2460]	313 [2770]	
	545rpm	542rpm	538rpm	534rpm	529rpm	520rpm	508rpm	486rpm	430rpm	
75 [19.82] Max Int.	32 [283]	79 [699]	126 [1115]	148 [1310]	180 [1593]	208 [1841]	234 [2071]	262 [2319]	300 [2655]	
	586rpm	583rpm	578rpm	570rpm	560rpm	546rpm	532rpm	520rpm	480rpm	



Flow Data 流量参数

GRS160		159.6cm ³ /rev(9.74in ³ /rev)						最高连续 Max Cont.		最高断续 Max Int.	
压力 Pressure bar [psi→]		50.8[725]	71.1[1015]	91.4[1305]	101.5[1450]	121.8[1740]	142.2[2031]	162.5[2321]	177.7[2538]	203.1[2901]	
Flow 流量	l/min[gpm↓]	扭矩 N m [lb-in] 转速 Torque N m [lb-in] Speed Specification									
	5 [1.32]	104 [920]	146 [1292]	190 [1682]	210 [1859]	245 [2168]					
		26rpm	23rpm	20rpm	16rpm	10rpm					
	10 [2.64]	107 [947]	150 [1328]	195 [1726]	216 [1912]	250 [2213]	290 [2567]	335 [2965]			
		59rpm	56rpm	50rpm	45rpm	37rpm	30rpm	22rpm			
	20 [5.28]	102 [903]	151 [1336]	198 [1752]	220 [1947]	257 [2275]	298 [2638]	342 [3027]	370 [3275]	420 [3717]	
		121rpm	118rpm	115rpm	113rpm	108rpm	102rpm	97rpm	90rpm	78rpm	
	30 [7.93]	97 [859]	146 [1292]	190 [1682]	217 [1921]	256 [2266]	295 [2611]	340 [3009]	368 [3257]	416 [3682]	
		184rpm	178rpm	173rpm	170rpm	164rpm	155rpm	143rpm	128rpm	103rpm	
	40 [10.57]	89 [788]	140 [1239]	185 [1637]	210 [1859]	252 [2230]	290 [2567]	335 [2965]	363 [3213]	412 [3646]	
		246rpm	241rpm	235rpm	228rpm	220rpm	210rpm	194rpm	177rpm	150rpm	
	50 [13.21]	72 [637]	128 [1133]	179 [1584]	202 [1788]	244 [2160]	284 [2514]	327 [2894]	358 [3169]	409 [3620]	
		310rpm	307rpm	300rpm	295rpm	287rpm	278rpm	262rpm	247rpm	210rpm	
	60 [15.85]	60 [531]	116 [1027]	170 [1505]	198 [1752]	240 [2124]	279 [2469]	321 [2841]	352 [3115]	400 [3540]	
Max Cont.		374rpm	367rpm	359rpm	354rpm	346rpm	338rpm	323rpm	306rpm	265rpm	
70 [18.49]	49 [434]	107 [947]	164 [1452]	193 [1708]	233 [2062]	271 [2399]	309 [2735]	344 [3045]	390 [3452]		
	437rpm	430rpm	421rpm	415rpm	403rpm	393rpm	381rpm	365rpm	318rpm		
75 [19.82]	36 [319]	109 [867]	152 [1345]	185 [1637]	226 [2000]	265 [2345]	300 [2655]	334 [2956]	379 [3354]		
	Max Int.	472rpm	463rpm	450rpm	441rpm	431rpm	420rpm	405rpm	389rpm	365rpm	

GRS200		199.8cm ³ /rev(12.19in ³ /rev)						最高连续 Max Cont.		最高断续 Max Int.	
压力 Pressure bar [psi→]		50.8[725]	71.1[1015]	91.4[1305]	101.5[1450]	121.8[1740]	142.2[2031]	162.5[2321]	177.7[2538]	203.1[2901]	
Flow 流量	l/min[gpm↓]	扭矩 N m [lb-in] 转速 Torque N m [lb-in] Speed Specification									
	5 [1.32]	132 [1168]	181 [1602]	238 [2106]	262 [2319]	310 [2744]					
		24rpm	22rpm	18rpm	13rpm	10rpm					
	10 [2.64]	135 [1195]	186 [1646]	240 [2124]	264 [2337]	315 [2788]	356 [3151]	403 [3567]			
		49rpm	47rpm	45rpm	43rpm	38rpm	33rpm	24rpm			
	20 [5.28]	131 [1159]	183 [1620]	238 [2106]	260 [2301]	314 [2779]	358 [3169]	404 [3576]	438 [3877]	498 [4408]	
		99rpm	97rpm	94rpm	92rpm	88rpm	83rpm	74rpm	64rpm	56rpm	
	30 [7.93]	126 [1115]	178 [1575]	233 [2062]	254 [2248]	311 [2753]	355 [3142]	402 [3558]	431 [3815]	486 [4301]	
		149rpm	147rpm	144rpm	141rpm	135rpm	126rpm	113rpm	105rpm	91rpm	
	40 [10.57]	112 [991]	169 [1496]	228 [2018]	250 [2213]	307 [2717]	352 [3115]	400 [3540]	426 [3770]	477 [4222]	
		200rpm	197rpm	194rpm	191rpm	185rpm	174rpm	160rpm	151rpm	127rpm	
	50 [13.21]	95 [841]	156 [1381]	221 [1956]	246 [2177]	300 [2655]	350 [3098]	398 [3523]	421 [3726]	470 [4160]	
		252rpm	249rpm	246rpm	243rpm	238rpm	228rpm	212rpm	194rpm	161rpm	
	60 [15.85]	78 [690]	145 [1283]	213 [1885]	238 [2106]	289 [2558]	342 [3027]	386 [3416]	412 [3646]	459 [4062]	
Max Cont.		304rpm	301rpm	298rpm	294rpm	286rpm	276rpm	262rpm	243rpm	218rpm	
70 [18.49]	67 [593]	135 [1195]	206 [1823]	228 [2018]	277 [2452]	336 [2974]	375 [3319]	408 [3611]	453 [4009]		
	355rpm	353rpm	349rpm	340rpm	329rpm	316rpm	300rpm	288rpm	257rpm		
75 [19.82]	58 [513]	125 [1106]	197 [1744]	220 [1947]	270 [2390]	321 [2841]	360 [3186]	398 [3523]	442 [3912]		
	Max Int.	382rpm	379rpm	373rpm	362rpm	350rpm	337rpm	322rpm	312rpm	278rpm	



Flow Data 流量参数

GRS250		250.1cm ³ /rev (15.26in ³ /rev)						最高连续 Max Cont.		最高断续 Max Int.
压力 Pressure bar [psi→]		50.8[725]	71.1[1015]	91.4[1305]	101.5[1450]	121.8[1740]	142.2[2031]	162.5[2321]	177.7[2538]	203.1[2901]
Flow 流量	l/min[gpm↓]	扭矩 N m [lb-in] 转速 Torque N m [lb-in] Speed Specification								
	5 [1.32]	175 [1549]	240 [2125]	304 [2691]	342 [3027]	407 [3602]				
		17rpm	16rpm	14rpm	12rpm	10rpm				
	10 [2.64]	178 [1575]	246 [2177]	310 [2744]	344 [3045]	409 [3620]	465 [4116]	525 [4647]		
		37rpm	35rpm	31rpm	28rpm	23rpm	18rpm	11rpm		
	20 [5.28]	175 [1549]	244 [2160]	308 [2726]	340 [3009]	408 [3611]	463 [4098]	520 [4602]	558 [4939]	686 [5629]
		75rpm	73rpm	72rpm	70rpm	66rpm	58rpm	53rpm	50rpm	42rpm
	30 [7.93]	162 [1434]	235 [2080]	304 [2691]	332 [2938]	400 [3540]	455 [4027]	516 [4567]	550 [4868]	621 [5496]
		114rpm	111rpm	108rpm	106rpm	100rpm	92rpm	83rpm	77rpm	65rpm
	40 [10.57]	143 [1266]	223 [1974]	300 [2655]	329 [2912]	396 [3505]	447 [3956]	512 [4532]	546 [4832]	617 [5461]
		154rpm	152rpm	150rpm	147rpm	143rpm	132rpm	120rpm	110rpm	90rpm
	50 [13.21]	124 [1097]	208 [1841]	289 [2558]	323 [2859]	384 [3399]	440 [3894]	503 [4452]	535 [4735]	600 [5310]
		193rpm	190rpm	187rpm	174rpm	168rpm	160rpm	149rpm	140rpm	116rpm
	60 [15.85] Max Cont.	103 [912]	192 [1699]	280 [2478]	314 [2779]	371 [3284]	381 [3370]	489 [4328]	514 [4549]	578 [5116]
233rpm		230rpm	227rpm	224rpm	218rpm	205rpm	190rpm	181rpm	155rpm	
70 [18.49]	88 [779]	178 [1575]	264 [2337]	301 [2664]	356 [3151]	418 [3700]	479 [4239]	498 [4408]	560 [4956]	
	273rpm	270rpm	267rpm	263rpm	252rpm	242rpm	226rpm	209rpm	173rpm	
75 [19.82] Max Int.	62 [549]	165 [1460]	256 [2266]	288 [2549]	347 [3071]	412 [3646]	474 [4195]	486 [4301]	542 [4797]	
	294rpm	291rpm	287rpm	283rpm	274rpm	263rpm	249rpm	236rpm	211rpm	

GRS315		315.7cm ³ /rev (19.26in ³ /rev)						最高连续 Max Cont.		最高断续 Max Int.
压力 Pressure bar [psi→]		50.8[725]	71.1[1015]	91.4[1305]	101.5[1450]	121.8[1740]	142.2[2031]	162.5[2321]	177.7[2538]	
Flow 流量	l/min[gpm↓]	扭矩 N m [lb-in] 转速 Torque N m [lb-in] Speed Specification								
	5 [1.32]	215 [1903]	302 [2673]							
		13rpm	11rpm							
	10 [2.64]	218 [1929]	305 [2699]	383 [3390]	422 [3735]	488 [4319]	551 [4877]	622 [5505]		
		28rpm	27rpm	25rpm	24rpm	21rpm	18rpm	13rpm		
	20 [5.28]	215 [1903]	303 [2682]	380 [3363]	418 [3700]	485 [4293]	549 [4859]	620 [5487]	660 [5841]	
		60rpm	59rpm	57rpm	55rpm	52rpm	49rpm	45rpm	42rpm	
	30 [7.93]	204 [1806]	296 [2620]	375 [3319]	413 [3655]	480 [4248]	542 [4797]	613 [5425]	654 [5788]	
		91rpm	89rpm	86rpm	84rpm	81rpm	78rpm	72rpm	67rpm	
	40 [10.57]	196 [1735]	287 [2540]	368 [3257]	410 [3629]	477 [4222]	539 [4771]	609 [5390]	650 [5753]	
		122rpm	120rpm	117rpm	112rpm	106rpm	100rpm	94rpm	85rpm	
	50 [13.21]	176 [1558]	270 [2390]	356 [3151]	393 [3478]	461 [4080]	526 [4655]	597 [5284]	645 [5709]	
		154rpm	151rpm	147rpm	140rpm	131rpm	120rpm	109rpm	100rpm	
	60 [15.85] Max Cont.	162 [1434]	246 [2177]	339 [3000]	374 [3310]	446 [3947]	511 [4523]	586 [5187]	628 [5558]	
185rpm		182rpm	177rpm	172rpm	163rpm	152rpm	140rpm	134rpm		
70 [18.49]	143 [1266]	235 [2080]	324 [2868]	358 [3169]	430 [3806]	493 [4363]	562 [4974]	614 [5434]		
	217rpm	213rpm	208rpm	201rpm	190rpm	178rpm	166rpm	158rpm		
75 [19.82] Max Int.	145 [1106]	212 [1876]	303 [2682]	339 [3000]	417 [3691]	481 [4257]	543 [4806]	582 [5151]		
	232rpm	228rpm	222rpm	216rpm	208rpm	200rpm	183rpm	171rpm		



Flow Data 流量参数

GRS400		397cm ³ /rev(24.4in ³ /rev)					最高连续 Max Cont.	最高断续 Max Int.	
压力 Pressure bar [psi→]		50.8[725]	71.1[1015]	91.4[1305]	101.5[1450]	121.8[1740]	142.2[2031]	162.5[2321]	177.7[2538]
Flow 流量	l/min[gpm↓]	扭矩 N m [lb-in] 转速 Torque N m [lb-in] Speed Specification							
	5 [1.32]	153 [1354]	232 [2053]						
		12rpm	10rpm						
	10 [2.64]	157 [1390]	236 [2089]	284 [2514]	337 [2983]	406 [3593]	497 [4399]	612 [5417]	668 [5912]
		24rpm	23rpm	22rpm	21rpm	19rpm	17rpm	15rpm	12rpm
	20 [5.28]	150 [1328]	232 [2053]	280 [2478]	332 [2938]	401 [3549]	490 [4337]	606 [5364]	649 [5841]
		49rpm	48rpm	47rpm	46rpm	44rpm	41rpm	38rpm	32rpm
	30 [7.93]	142 [1257]	215 [1903]	274 [2425]	327 [2894]	398 [3523]	483 [4275]	603 [5337]	652 [5771]
		76rpm	75rpm	74rpm	73rpm	71rpm	67rpm	63rpm	50rpm
	40 [10.57]	126 [1115]	212 [1876]	268 [2372]	320 [2832]	393 [3478]	477 [4222]	593 [5248]	635 [5620]
		103rpm	101rpm	99rpm	97rpm	95rpm	92rpm	88rpm	70rpm
	50 [13.21]	105 [929]	187 [1655]	242 [2142]	302 [2673]	376 [3328]	455 [4027]	583 [5160]	608 [5381]
		128rpm	126rpm	124rpm	121rpm	118rpm	115rpm	111rpm	96rpm
	60 [15.85]	90 [797]	167 [1478]	229 [2027]	281 [2487]	362 [3204]	444 [3930]	566 [5009]	600 [5310]
Max Cont.		154rpm	152rpm	150rpm	148rpm	145rpm	138rpm	130rpm	121rpm
70 [18.49]	90 [797]	149 [1319]	200 [1770]	258 [2283]	341 [3018]	425 [3762]	546 [4832]	580 [5133]	
		180rpm	179rpm	178rpm	176rpm	173rpm	168rpm	160rpm	148rpm
75 [19.82]	56 [496]	125 [1106]	182 [1611]	241 [2133]	320 [2832]	408 [3611]	524 [4638]	565 [5001]	
	Max Int.	195rpm	194rpm	193rpm	191rpm	189rpm	185rpm	178rpm	170rpm

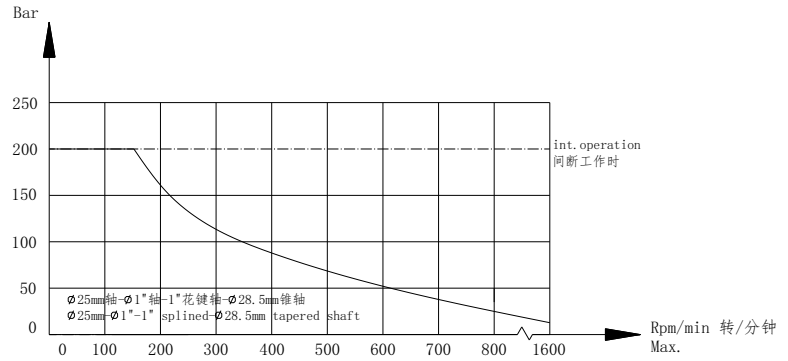
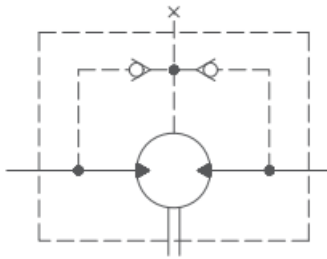
Technical Data 技术数据

Hydraulic orbit Motors GRS

Permissible shaft seal pressure

GRS系列摆线液压马达

输出轴密封圈允许承受的压力



In applications without drain line, output shaft seal exceeds a bit of the pressure in the return line. When applications use the drain line, the pressure of output shaft seal equals the pressure in drain line.

在无外卸油管的使用中，输出轴密封圈上的压力微高于回油管中的压力。当使用外卸油管时，输出轴密封圈上的压力则与外泄油管中的压力相同。

Case Drain

泄油口:

In applications without a motor drain line, the pressure exerted on the shaft seal is marginally in excess of the return line pressure. When the Drain line is used, the pressure exerted on the shaft seal is equal to the return line pressure.

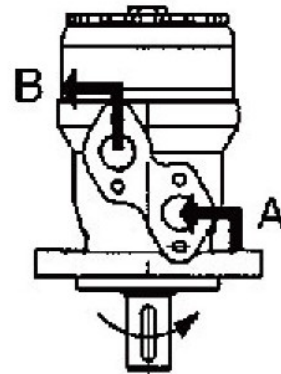
在没有使用排油管的应用中，施加在轴封上的压力略高于回油管压力。使用排油管时，施加在轴封上的压力等于回油管压力。

Standard direction of shaft rotation: Standard

轴旋转的标准方向: 标准

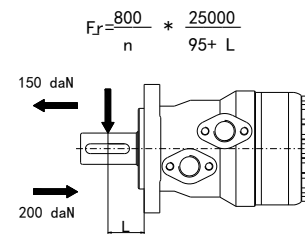
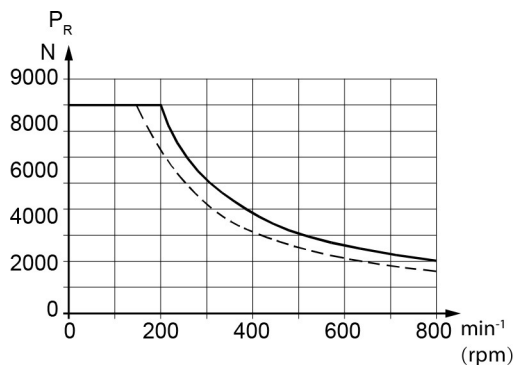
When facing shaft end of motor, shaft to rotate: Clock-wise when port "A" is pressurized. Counter-clockwise port "B" is pressurized.

当面对电动机的轴端时，轴旋转：当端口“A”增压时，顺时针方向旋转。当端口“B”增压时，逆时针方向旋转。



Axial and Radial forces

轴向力和径向力

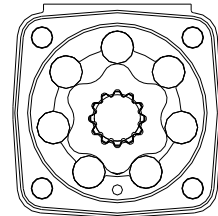
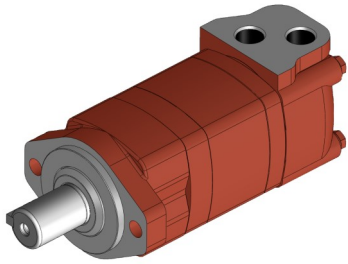


Fr =Radial Force (daN) Fr =径向力 (daN)
 L =Distance (mm) L =距离 (mm)
 n =Speed (rpm) n =转速 (rpm)
 Rhomb-flange L=30mm 菱形法兰 L=30mm
 Square-flange L=24mm 方形法兰 L=24mm

General 概述

APPLICATION 应用

- ◇ Conveyors 输送机械
- ◇ Road building machines 铺路机
- ◇ Metal working machines 金属加工机械
- ◇ Special vehicles etc. 特殊车辆
- ◇ Agricultural machines 农用机械
- ◇ Food industries 食品工业
- ◇ Mining machines 矿山机械



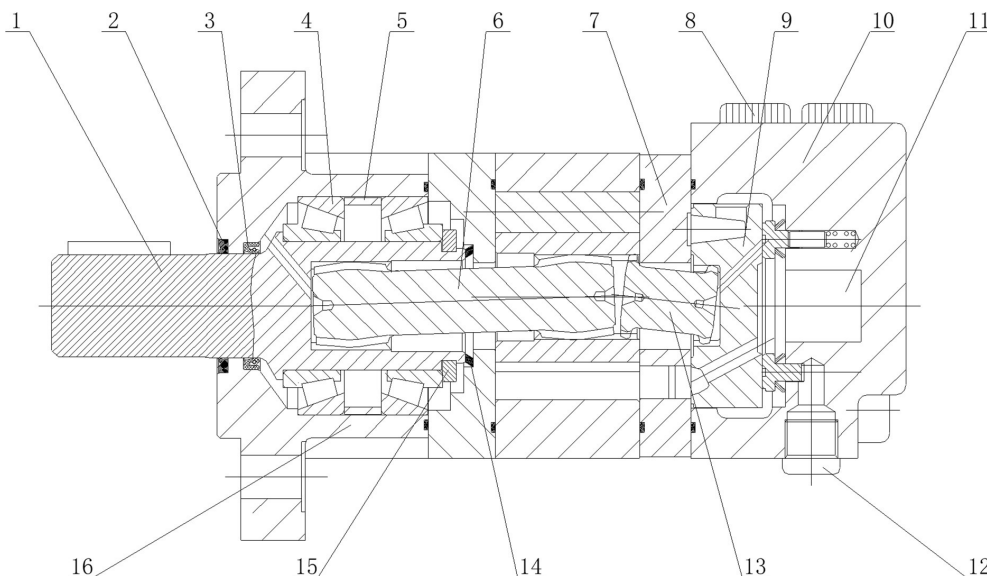
OPTIONS 可选功能

- ◇ Flange and wheel mount 法兰和圆形安装
- ◇ Short motor 短马达
- ◇ Motor with drum brake 马达带后制动鼓
- ◇ Tachometer connection 转速器接头
- ◇ Speed sensing 速度传感
- ◇ Side and rear ports 侧面和后面油口
- ◇ Shafts-straight, splined and tapered 轴伸-平键, 花键, 锥键
- ◇ Shaft seal for high and low pressure 轴油封可适用于高压和低压
- ◇ Metric and BSPP ports 公制和BSPP油口
- ◇ Other special features 其他功能

- ◇ Disc distribution flow 盘配流

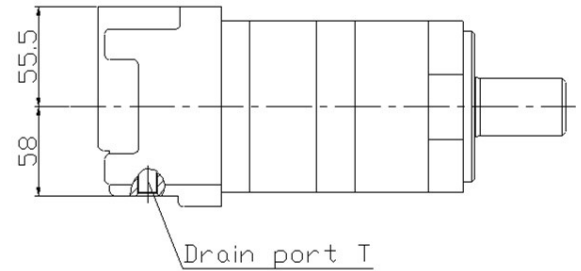
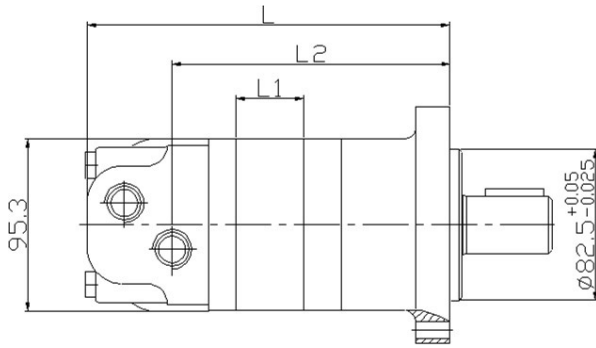
技术指标

型号 Model		GKA65	GKA80	GKA100	GKA125	GKA160	GKA200	GKA250	GKA315	GKA395	GKA475
排量 Disp.	in ³ /rev	3.97	4.88	6.15	7.92	9.56	11.80	14.79	18.56	23.84	29.59
	cm ³ /rev	65	80	100.9	129.8	156.8	193.4	242.5	304.4	390.8	485
最高转速 Max Speed rpm	连续 cont.	835	800	742	576	477	385	308	246	191	153
	断续 int.	990	980	924	720	713	577	462	365	287	230
最大扭矩 Max Torque N m [lb-in]	连续 cont.	185 [1637]	235 [2080]	295 [2611]	385 [3407]	445 [3938]	540 [4779]	660 [5841]	765 [6770]	775 [6859]	845 [7478]
	断续 int.	245 [2168]	345 [3053]	445 [3938]	560 [4956]	570 [5045]	665 [5885]	820 [7257]	885 [7832]	925 [8186]	930 [8231]
最大压力差 Max Dif. bar [psi]	连续 cont.	205 [2932]	210 [3003]	210 [3003]	210 [3003]	205 [2932]	205 [2932]	205 [2932]	205 [2932]	155 [2217]	120 [1716]
	断续 int.	275 [3933]	310 [4433]	310 [4433]	310 [4433]	260 [3718]	260 [3718]	260 [3718]	240 [3432]	170 [2431]	140 [2002]
最大流量 Max Flow l/min [gpm]	连续 cont.	55 [14.52]	65 [17.16]	75 [19.80]	75 [19.80]	75 [19.80]	75 [19.80]	75 [19.80]	75 [19.80]	75 [19.80]	75 [19.80]
	断续 int.	65 [17.16]	80 [21.12]	95 [25.08]	95 [25.08]	115 [30.36]	115 [30.36]	115 [30.36]	115 [30.36]	115 [30.36]	115 [30.36]
重量 Weight kg [lbs]		9.2 [20]	9.4 [21]	9.7 [21]	10 [22]	10.2 [22]	10.5 [23]	11 [24]	11.5 [25]	12 [26]	12.4 [27]



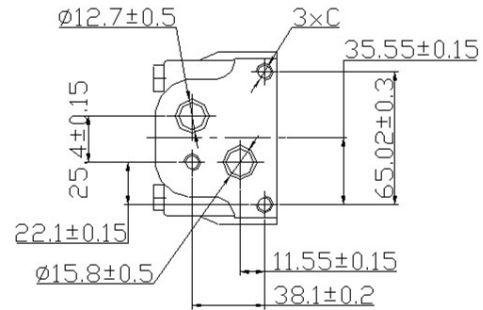
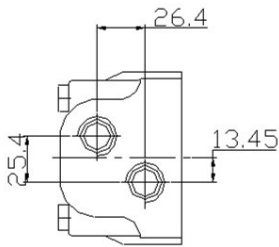
1. Output Shaft 输出轴
2. Dust Seal 防尘密封
3. Shaft Seal 轴封
4. Roller Bearing 滚子轴承
5. Bearing Spacer 轴承垫片
6. Cardan Joint 万向节
7. Timing Plate 时机板
8. Shipping Plug 运输堵头
9. Distributor Plate 配电板
10. Rear Housing 后盖
11. Spacer 垫片
12. Case Drain Plug 泄油口堵盖
13. Distributor Drive Link 配电驱动链接
14. Oil Control Ring 控油环
22. Drain Manifold 卸油管
15. Bearing Nut 轴承螺母
16. Front Housing 前盖

Dimensions and Mounting Data 尺寸和安装参数



油口 Port: G7, DU, U9, SB, M4

油口 Port: MU, MM

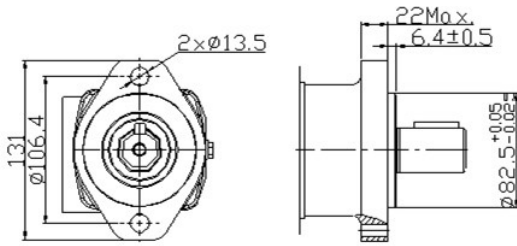


Model 型号	L	L1	L2
GKA65	182	14.5	133.5
GKA80	185	17.8	136.5
GKA100	189.5	22.5	141.5
GKA125	196	28.9	148
GKA160	196	28.9	148
GKA200	202.5	35.6	154.5
GKA250	211.5	44.6	163.5
GKA315	223	56	175
GKA400	235.3	72	188.3
GKA475	256.5	89.3	208.5

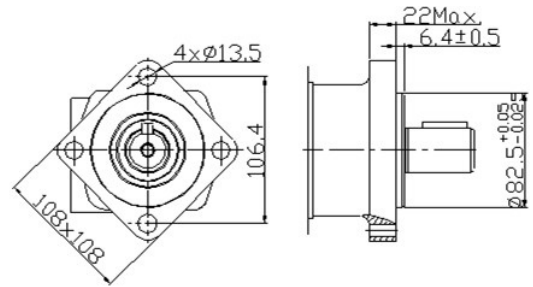
Port 油口	G7 (Depth)	DU (Depth)	U9 (Depth)	SB (Depth)	M4 (Depth)	MU (Depth)	MM (Depth)
	深度	深度	深度	深度	深度	深度	深度
P(A,B)	G1/2 (15)	G1/2 (15)	7/8-14 O-ring (17)	7/8-14 O-ring (17)	M22x1.5 (15)	φ12.7, φ15.8	φ12.7, φ15.8
T	G1/4 (12)	7/16-20UNF (12)	7/16-20UNF (12)	G1/4 (12)	M14x1.5 (12)	7/16-20UNF (12)	G1/4 (12)
C	-	-	-	-	-	3/8-16UNC (15)	M10x1 (15)

Dimensions and Mounting Data 尺寸和安装参数

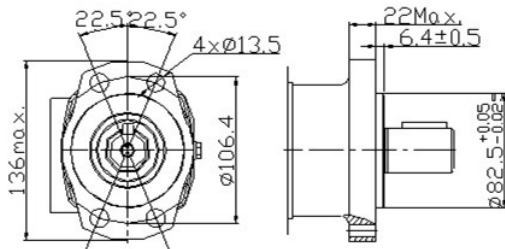
法兰 Flange A7



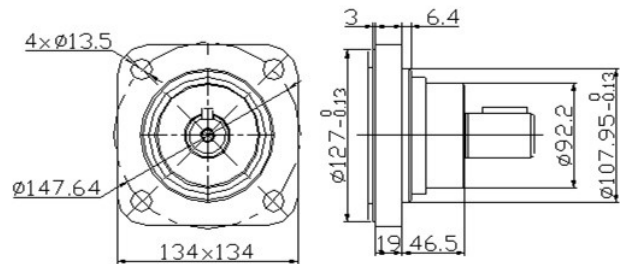
法兰 Flange H3



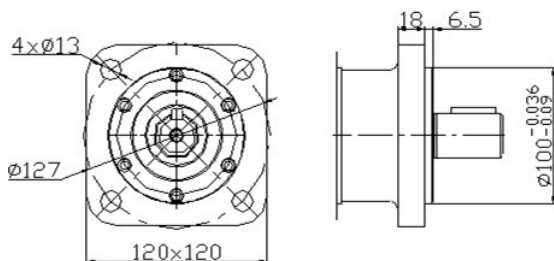
法兰 Flange A9



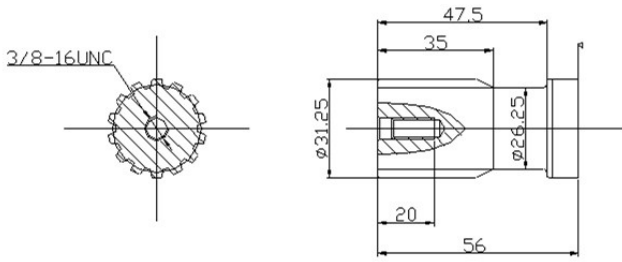
法兰 Flange W1



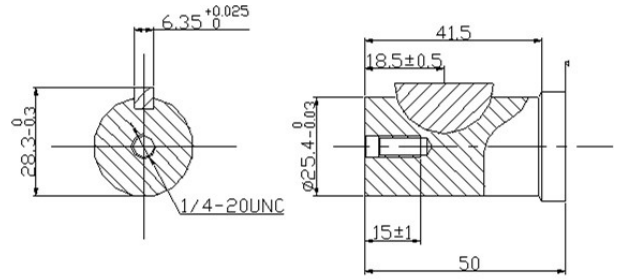
法兰 Flange W2



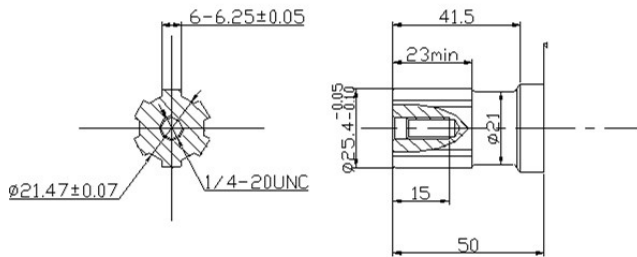
GKA Shaft Extension Dimensions Data GKA系列轴伸尺寸参数



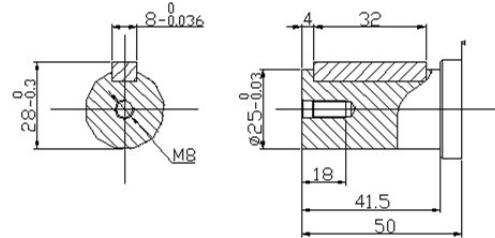
Shaft R6: Splined 14-DP12/24
R6轴: 花键14-DP12/24



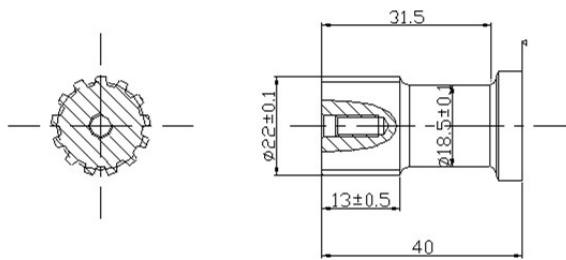
Shaft S6: Cylindrical shaft $\varnothing 25.4$
Woodruff key $\varnothing 25.4 \times 6.35$
S6轴: 圆柱轴 $\varnothing 25.4$
半圆键 $\varnothing 25.4 \times 6.35$



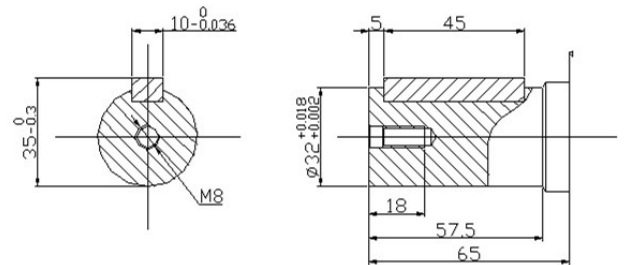
Shaft R8: 25.4 Splined SAE 6B
R8轴: 25.4花键SAE 6B



Shaft S1: Cylindrical shaft $\varnothing 25$
Parallel key $8 \times 7 \times 32$
S1轴: 圆柱轴 $\varnothing 25$
平键 $8 \times 7 \times 32$

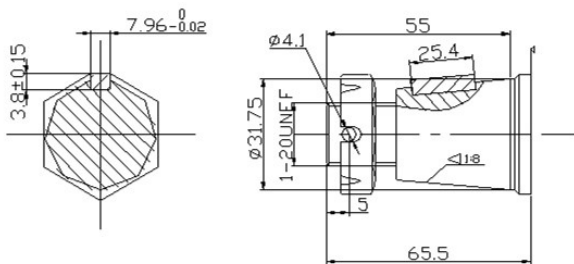


Shaft R5: Splined 13-DP16/32
R5轴: 花键13-DP16/32

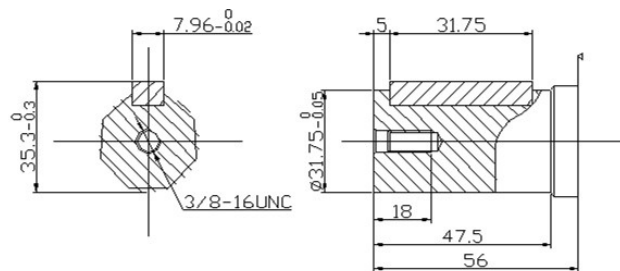


Shaft S4: Cylindrical shaft $\varnothing 32$
Parallel key $10 \times 8 \times 45$
S4轴: 圆柱轴 $\varnothing 32$
平键 $10 \times 8 \times 45$

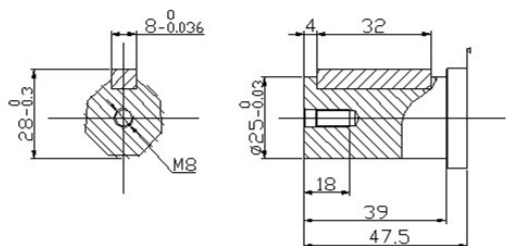
GKA Shaft Extension Dimensions Data GKA系列轴伸尺寸参数



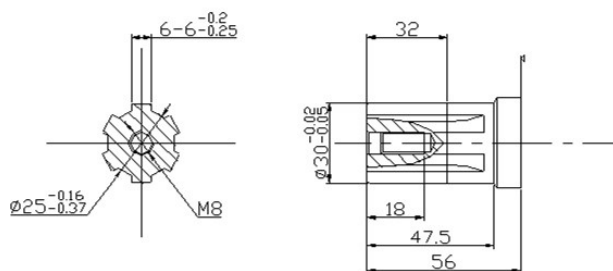
Shaft T2: Tapered shaft $\phi 31.75$
 Parallel key 7.96x7.96x25.4
 Tightening torque: 200±10Nm
 T2轴: 锥轴 $\phi 31.75$
 平键 7.96x7.96x25.4
 螺母拧紧力矩: 200±10Nm



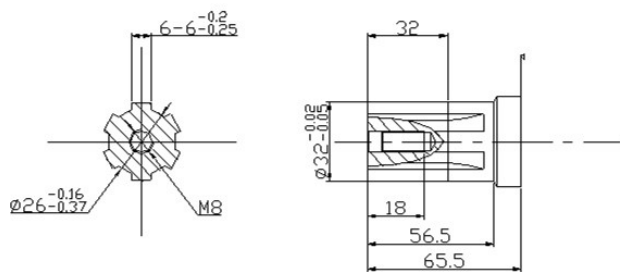
Shaft SG: Cylindrical shaft $\phi 31.75$
 Parallel key 7.96x7.96x31.75
 SG轴: 圆柱轴 $\phi 31.75$
 平键 7.96x7.96x31.75



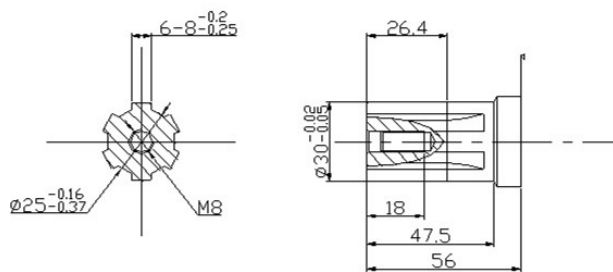
Shaft A1: Cylindrical shaft $\phi 25$
 Parallel key 8x7x32
 A1轴: 圆柱轴 $\phi 25$
 平键 8x7x32



Shaft N: Splined 6-30x25x6
 N轴: 花键6-32x25x6



Shaft Z: Splined 6-32x26x6
 Z轴: 花键6-32x26x6



Shaft J: Splined 6-30x25x8
 J轴: 花键6-32x25x8



GKA Shaft Extension Dimensions Data GKA系列轴伸尺寸参数

Ordering Example:		Model	Displacement	Flange	Drive shaft	Ports	Other functions
		GKA	65	A7	R6	G7	ACA
Model	Disp.	Flange		Drive shaft		Ports	
GKA	65	A7=2-Hole SAE A Flange, Pilot ø82.5x6.4		R6=Splined 14-DP12/24 S6=Shaft ø25.4, woodruff key ø25.4x6.35		G7=G1/2, G1/4	
	80			R8=Shaft ø25.4, splined SAE 6B		DU=G1/2, 7/16-20UNF	
	100	H3=4-ø13.5 Hole Square Flange, Pilot ø82.5x6.4		S1=Shaft ø25, parallel key 8x7x32		U9=7/8-14 O-ring, 7/16-20UNF	
	125			R5=Splined 13-DP16/32		SB=7/8-14 O-ring, G1/4	
	160	A9=4-Hole SAE A Flange, Pilot ø82.5x6.4		S4=Shaft ø32, parallel key 10x8x45		M4=M22x1.5, M14x1.5	
	200			T2=Tapered shaft ø31.75, parallel key 7.96x7.96x25.4		MU=ø12.7, ø15.8 manifold 3x3/8- 16UNC, 7/16-20UNF	
	250	W1=4-ø13.5 Hole Square Flange, Pilot ø107.95x46.5		SG=Shaft ø31.75, parallel key 7.96x7.96x31.75		MM=ø12.7, ø15.8 manifold 3xM10x1, G1/4	
	315			A1=Shaft ø25, parallel key 8x7x32			
	395	W2=4-ø13 Hole Square Flange, Pilot ø100x6.5		N=Splined 6-30x25x6 Z=Splined 6-32x26x6 J=Splined 6-30x25x8			
475							

Rotation direction	Paint	Unusually function	Special requirements
A=Standard R=Opposite	A=No paint B=Blue C=Black S=Silver grey	A=Standard N=Big radial force D=No case drain F=Free running L=Low speed V=High temperature S=Low temperature	-SG=Seal guard



GKA Shaft Extension Dimensions Data GKA系列轴伸尺寸参数

订购示例:		型号	排量	法兰	传动轴	油口	其他功能
		GKA	65	A7	R6	G7	ACA
型号	排量	法兰		传动轴		油口	
GKA	65	A7=2孔 SAE A法兰, 止口 $\varnothing 82.5 \times 6.4$ H3=4- $\varnothing 13.5$ 孔方形法兰, 止口 $\varnothing 82.5 \times 6.4$		R6=花键14-DP12/24 S6=轴 $\varnothing 25.4$, 半圆键 $\varnothing 25.4 \times 6.35$ R8=轴 $\varnothing 25.4$, 花键SAE 6B S1=轴 $\varnothing 25$, 平键 $8 \times 7 \times 32$ R5=花键13-DP16/32 S4=轴 $\varnothing 32$, 平键 $10 \times 8 \times 45$		G7=G1/2, G1/4 DU=G1/2, 7/16-20UNF U9=7/8-14 O型圈, 7/16-20UNF SB=7/8-14 O型圈, G1/4 M4=M22x1.5, M14x1.5 MU= $\varnothing 12.7, \varnothing 15.8$ 集成块安装 $3 \times 3/8-16$ UNC, 7/16-20UNF MM= $\varnothing 12.7, \varnothing 15.8$ 集成块安装 $3 \times M10 \times 1, G1/4$	
	80						
	100						
	125	A9=4孔 SAE A法兰, 止口 $\varnothing 82.5 \times 6.4$ W1=4- $\varnothing 13.5$ 孔方形法兰, 止口 $\varnothing 107.95 \times 46.5$ W2=4- $\varnothing 13$ 孔方形法兰, 止口 $\varnothing 100 \times 6.5$		T2=锥键 $\varnothing 31.75$, 平键 $7.96 \times 7.96 \times 25.4$ SG=轴 $\varnothing 31.75$, 平键 $7.96 \times 7.96 \times 31.75$ A1=轴 $\varnothing 25$, 平键 $8 \times 7 \times 32$ N=花键6-30x25x6 Z=花键6-32x26x6 J=花键6-30x25x8			
	160						
	200						
	250						
	315						
	395						
	475						

旋转方向	喷漆	不常用的功能	特殊要求
A=标准 R=反向	A=无喷漆 B=蓝色 C=黑色 S=银灰色	A=标准 N=大径向力 D=无泄油口 F=自由转 L=低速 V=高温 S=低温	-SG=防尘圈



Flow Data 流量参数

GKA65		65cm ³ /rev (3.97in ³ /rev)					最高连续 Max Cont.	最高断续 Max Int.	峰值 Peak		
压力 Pressure bar [psi→]		35 [500]	70 [1000]	105 [1500]	140 [2000]	175 [2503]	205 [2929]	240 [3429]	275 [3929]	310 [4429]	
Flow 流量	l/min [gpm↓]	扭矩 N m [lb-in] 转速 Torque N m [lb-in] Speed Specification									
	2 [0.53]	28[248]	54[478]	80[708]							
		22rpm	12rpm	6rpm							
	4 [1.06]	30[266]	58[513]	88[779]	115[1018]	146[1292]	165[1460]	195[1726]			
		52rpm	47rpm	43rpm	35rpm	30rpm	24rpm	16rpm			
	8 [2.11]	31[274]	60[531]	92[814]	120[1062]	150[1328]	170[1505]	200[1770]	225[1991]		
		107rpm	98rpm	92rpm	85rpm	70rpm	55rpm	40rpm	30rpm		
	15 [3.96]	32[283]	62[549]	94[832]	124[1097]	155[1372]	175[1549]	205[1814]	230[2036]	250[2213]	
		214rpm	208rpm	200rpm	193rpm	185rpm	174rpm	160rpm	145rpm	130rpm	
	22 [5.81]	32[283]	65[575]	95[841]	125[1106]	157[1389]	178[1575]	206[1823]	232[2053]	254[2248]	
		320rpm	315rpm	308rpm	296rpm	286rpm	275rpm	260rpm	242rpm	230rpm	
	30 [7.92]	30[266]	65[575]	95[841]	128[1133]	160[1416]	180[1593]	210[1859]	235[2080]	258[2283]	
		445rpm	440rpm	430rpm	420rpm	408rpm	395rpm	380rpm	360rpm	325rpm	
	38 [10.03]	28[248]	62[549]	95[841]	130[1151]	165[1460]	185[1637]	216[1912]	240[2124]	260[2301]	
565rpm		560rpm	550rpm	540rpm	526rpm	512rpm	495rpm	470rpm	420rpm		
45 [11.88]	26[230]	60[531]	92[814]	125[1106]	160[1416]	180[1593]	215[1903]	245[2168]	265[2345]		
	675rpm	670rpm	660rpm	648rpm	632rpm	615rpm	600rpm	580rpm	530rpm		
55 [14.52]	23[204]	55[487]	88[779]	120[1062]	155[1372]	175[1549]	210[1859]	235[2080]	255[2257]		
	835rpm	825rpm	810rpm	790rpm	770rpm	745rpm	720rpm	690rpm	640rpm		
65 [17.16]	20[177]	50[443]	84[743]	112[991]	150[1328]	170[1505]	205[1814]	230[2036]	250[2213]		
Max Int.	990rpm	980rpm	965rpm	945rpm	935rpm	910rpm	880rpm	860rpm	800rpm		

GKA80		80cm ³ /rev (4.88in ³ /rev)					最高连续 Max Cont.	最高断续 Max Int.	峰值 Peak		
压力 Pressure bar [psi→]		35 [500]	70 [1000]	105 [1500]	140 [2000]	175 [2503]	205 [2929]	240 [3429]	275 [3929]	310 [4429]	
Flow 流量	l/min [gpm↓]	扭矩 N m [lb-in] 转速 Torque N m [lb-in] Speed Specification									
	2 [0.53]	29[257]	54[478]	86[761]							
		18rpm	9rpm	3rpm							
	4 [1.06]	35[310]	75[664]	112[991]	145[1283]	172[1522]	208[1841]	218[1929]	236[2089]		
		45rpm	41rpm	38rpm	35rpm	28rpm	22rpm	14rpm	3rpm		
	8 [2.11]	35[310]	75[664]	114[1009]	148[1310]	175[1549]	212[1876]	230[2036]	260[2301]	280[2478]	
		90rpm	85rpm	80rpm	76rpm	72rpm	64rpm	55rpm	46rpm	40rpm	
	15 [3.96]	38[336]	78[690]	116[1027]	152[1345]	184[1628]	215[1903]	245[2168]	275[2434]	300[2655]	
		180rpm	175rpm	170rpm	166rpm	160rpm	153rpm	140rpm	126rpm	115rpm	
	22 [5.81]	36[319]	75[664]	114[1009]	150[1328]	185[1637]	220[1947]	250[2213]	285[2522]	315[2788]	
		265rpm	260rpm	255rpm	250rpm	242rpm	234rpm	220rpm	205rpm	185rpm	
	30 [7.92]	35[310]	75[664]	115[1018]	150[1328]	185[1637]	225[1991]	260[2301]	295[2611]	325[2876]	
		363rpm	355rpm	350rpm	342rpm	334rpm	322rpm	302rpm	280rpm	260rpm	
	38 [10.03]	34[301]	72[637]	112[991]	155[1372]	190[1682]	230[2036]	265[2345]	300[2655]	335[2965]	
460rpm		452rpm	442rpm	430rpm	418rpm	405rpm	385rpm	360rpm	335rpm		
45 [11.88]	32[283]	70[620]	110[974]	150[1328]	190[1682]	230[2036]	265[2345]	305[2699]	340[3009]		
	545rpm	535rpm	528rpm	515rpm	505rpm	495rpm	465rpm	440rpm	410rpm		
55 [14.52]	30[266]	68[602]	110[974]	150[1328]	190[1682]	230[2036]	270[2390]	305[2699]	335[2965]		
	670rpm	660rpm	650rpm	635rpm	620rpm	605rpm	575rpm	540rpm	510rpm		
65 [17.16]	25[221]	65[575]	105[929]	145[1283]	180[1593]	225[1991]	260[2301]	295[2611]	325[2876]		
	800rpm	790rpm	778rpm	755rpm	740rpm	728rpm	690rpm	650rpm	610rpm		
75 [19.80]	22[195]	63[558]	102[903]	145[1283]	180[1593]	225[1991]	260[2301]	290[2567]			
	910rpm	900rpm	880rpm	860rpm	850rpm	830rpm	790rpm	750rpm			
80 [21.12]	20[177]	60[531]	100[885]	140[1239]	175[1549]	220[1947]	250[2213]				
	980rpm	970rpm	955rpm	920rpm	900rpm	875rpm	840rpm				
Max Int.											



Flow Data 流量参数

GKA100		100.9cm ³ /rev (6.15in ³ /rev)						最高连续 Max Cont.	最高断续 Max Int.	峰值 Peak		
压力 Pressure bar [psi→]		17.5 [250]	35 [500]	70 [1000]	105 [1500]	140 [2000]	175 [2503]	205 [2929]	240 [3429]	275 [3929]	310 [4429]	
Flow 流量	l/min [gpm↓]	扭矩 N m [lb-in] 转速 Torque N m [lb-in] Speed Specification										
	2 [0.53]	15[133]	32[283]	68[602]								
		14rpm	10rpm	5rpm								
	4 [1.06]	18[159]	42[372]	92[814]	130[1151]	170[1505]	205[1814]	230[2036]				
		36rpm	34rpm	32rpm	28rpm	22rpm	14rpm	5rpm				
	8 [2.11]	20[177]	45[398]	90[797]	135[1195]	180[1593]	210[1589]	240[2124]	280[2478]	310[2744]		
		74rpm	73rpm	70rpm	66rpm	60rpm	52rpm	42rpm	26rpm	15rpm		
	15 [3.96]	20[177]	45[398]	90[797]	135[1195]	185[1637]	220[1947]	260[2301]	305[2699]	345[3053]	390[3452]	
		142rpm	140rpm	137rpm	134rpm	129rpm	120rpm	105rpm	92rpm	78rpm	65rpm	
	22 [5.81]	18[159]	45[398]	90[797]	140[1239]	190[1682]	230[2036]	275[2434]	315[2788]	360[3186]	405[3584]	
		210rpm	207rpm	201rpm	195rpm	188rpm	179rpm	160rpm	150rpm	138rpm	125rpm	
	30 [7.92]	16[142]	42[372]	88[779]	142[1257]	195[1726]	240[2124]	285[2522]	330[2921]	375[3319]	425[3761]	
		290rpm	288rpm	282rpm	276rpm	268rpm	258rpm	242rpm	230rpm	212rpm	195rpm	
	38 [10.03]	15[133]	40[354]	88[779]	140[1239]	190[1682]	240[2124]	285[2522]	335[2965]	380[3363]	430[3806]	
		370rpm	365rpm	360rpm	352rpm	340rpm	326rpm	310rpm	295rpm	275rpm	255rpm	
	45 [11.88]	15[133]	40[354]	86[761]	140[1239]	190[1682]	240[2124]	285[2522]	340[3009]	385[3407]	440[3894]	
		440rpm	435rpm	430rpm	422rpm	410rpm	395rpm	380rpm	365rpm	345rpm	320rpm	
	55 [14.52]	12[106]	36[319]	85[752]	135[1195]	190[1682]	240[2124]	285[2522]	340[3009]	385[3407]	440[3894]	
540rpm		534rpm	528rpm	520rpm	510rpm	500rpm	485rpm	465rpm	440rpm	405rpm		
65 [17.16]	10[89]	35[310]	80[708]	130[1151]	185[1637]	235[2080]	280[2478]	335[2965]	380[3363]	440[3894]		
	640rpm	635rpm	630rpm	622rpm	605rpm	590rpm	575rpm	550rpm	525rpm	500rpm		
75 [19.80]	5[44]	30[266]	75[664]	125[1106]	175[1549]	225[1991]	275[2434]	320[2832]	370[3275]			
	738rpm	735rpm	728rpm	715rpm	700rpm	680rpm	655rpm	635rpm	610rpm			
Max Cont.	3[27]	25[221]	75[664]	125[1106]	175[1549]	225[1991]	270[2390]	320[2832]	370[3275]			
	838rpm	835rpm	830rpm	820rpm	805rpm	785rpm	760rpm	730rpm	690rpm			
85 [22.44]	23[204]	70[620]	120[1062]	170[1505]	220[1947]	260[2301]	310[2744]					
	925rpm	918rpm	905rpm	890rpm	870rpm	840rpm	810rpm					
95 [25.08]												
	Max Int.	925rpm	918rpm	905rpm	890rpm	870rpm	840rpm	810rpm				

GKA125		129.8cm ³ /rev (7.92in ³ /rev)						最高连续 Max Cont.	最高断续 Max Int.	峰值 Peak		
压力 Pressure bar [psi→]		17.5 [250]	35 [500]	70 [1000]	105 [1500]	140 [2000]	175 [2503]	205 [2929]	240 [3429]	275 [3929]	310 [4429]	
Flow 流量	l/min [gpm↓]	扭矩 N m [lb-in] 转速 Torque N m [lb-in] Speed Specification										
	2 [0.53]	25[221]	40[354]									
		12rpm	7rpm									
	4 [1.06]	28[248]	55[487]	110[974]	175[1549]	220[1947]	280[2478]	325[2876]				
		27rpm	26rpm	22rpm	18rpm	14rpm	11rpm	8rpm				
	8 [2.11]	28[248]	60[531]	115[1018]	175[1549]	230[2036]	290[2567]	330[2921]	375[3319]	400[3540]		
		57rpm	56rpm	53rpm	48rpm	42rpm	38rpm	34rpm	26rpm	20rpm		
	15 [3.96]	28[248]	60[531]	120[1062]	180[1593]	240[2124]	295[2611]	340[3009]	390[3452]	440[3894]	485[4292]	
		113rpm	112rpm	110rpm	105rpm	98rpm	92rpm	86rpm	80rpm	72rpm	65rpm	
	22 [5.81]	28[248]	55[487]	120[1062]	180[1593]	245[2168]	305[2699]	360[3186]	415[3673]	470[4160]	530[4691]	
		165rpm	163rpm	160rpm	155rpm	150rpm	144rpm	138rpm	130rpm	115rpm	100rpm	
	30 [7.92]	25[221]	52[460]	120[1062]	185[1637]	245[2168]	310[2744]	365[3230]	425[3761]	480[4248]	545[4823]	
		228rpm	224rpm	222rpm	210rpm	212rpm	206rpm	198rpm	188rpm	178rpm	165rpm	
	38 [10.03]	25[221]	50[443]	120[1062]	180[1593]	245[2168]	315[2788]	370[3275]	430[3806]	495[4381]	550[4868]	
		288rpm	285rpm	282rpm	275rpm	268rpm	260rpm	252rpm	242rpm	230rpm	215rpm	
	45 [11.88]	22[195]	50[443]	120[1062]	180[1593]	245[2168]	315[2788]	370[3275]	430[3806]	490[4337]	550[4868]	
		345rpm	343rpm	338rpm	332rpm	325rpm	315rpm	305rpm	292rpm	280rpm	265rpm	
	55 [14.52]	20[177]	46[407]	115[1018]	175[1549]	245[2168]	330[2921]	375[3319]	430[3806]	490[4337]		
420rpm		418rpm	414rpm	408rpm	400rpm	390rpm	378rpm	365rpm	346rpm			
65 [17.16]	15[133]	43[381]	110[974]	170[1505]	240[2124]	320[2832]	370[3275]	425[3761]	485[4292]			
	498rpm	496rpm	492rpm	486rpm	480rpm	465rpm	458rpm	440rpm	425rpm			
75 [19.80]	12[106]	42[372]	108[956]	170[1505]	235[2080]	310[2744]	365[3230]	425[3761]				
	575rpm	574rpm	568rpm	560rpm	550rpm	548rpm	525rpm	502rpm				
Max Cont.	8[71]	40[354]	105[929]	165[1460]	230[2036]	310[2744]	360[3186]	420[3717]				
	653rpm	652rpm	645rpm	636rpm	625rpm	616rpm	600rpm	578rpm				
85 [22.44]												
	40[354]	100[885]	160[1416]	225[1991]	290[2567]	355[3142]	415[3673]					
95 [25.08]												
	Max Int.	722rpm	715rpm	702rpm	690rpm	680rpm	670rpm	655rpm				



Flow Data 流量参数

GKA160		156.8cm ³ /rev(9.56in ³ /rev)						最高连续 Max Cont.	最高断续 Max Int.	
压力 Pressure bar [psi→]		17.5 [250]	35 [500]	70 [1000]	105 [1500]	140 [2000]	175 [2503]	205 [2929]	240 [3429]	260 [3718]
Flow 流量	l/min [gpm↓]	扭矩 N m [lb-in] 转速 Torque N m [lb-in] Speed Specification								
	2 [0.53]	28[248] 9rpm	55[487] 7rpm	110[974] 5rpm	175[1549] 3rpm					
	4 [1.06]	32[283] 22rpm	63[558] 21rpm	125[1106] 19rpm	190[1682] 17rpm	250[2213] 13rpm	315[2788] 8rpm	370[3275] 3rpm		
	8 [2.11]	37[327] 47rpm	68[602] 45rpm	130[1151] 42rpm	200[1770] 39rpm	260[2301] 36rpm	325[2876] 34rpm	390[3452] 32rpm	450[3983] 27rpm	480[4248] 22rpm
	15 [3.96]	35[310] 93rpm	68[602] 92rpm	135[1195] 89rpm	210[1859] 85rpm	275[2434] 80rpm	370[3275] 76rpm	420[3717] 70rpm	500[4425] 60rpm	530[4691] 45rpm
	22 [5.81]	35[310] 138rpm	75[664] 136rpm	140[1239] 133rpm	215[1903] 128rpm	285[2522] 122rpm	370[3275] 116rpm	440[3894] 110rpm	515[4558] 102rpm	550[4868] 95rpm
	30 [7.92]	35[310] 190rpm	75[664] 187rpm	145[1283] 184rpm	220[1947] 178rpm	290[2567] 172rpm	370[3275] 167rpm	440[3894] 164rpm	520[4602] 154rpm	560[4956] 142rpm
	38 [10.03]	37[327] 240rpm	70[620] 237rpm	150[1328] 234rpm	225[1991] 230rpm	310[2744] 225rpm	380[3363] 218rpm	450[3983] 202rpm	525[4646] 193rpm	565[5000] 185rpm
	45 [11.88]	32[283] 285rpm	70[620] 283rpm	150[1328] 280rpm	225[1991] 275rpm	310[2744] 268rpm	380[3363] 259rpm	450[3983] 247rpm	525[4646] 236rpm	565[5000] 225rpm
	55 [14.52]	28[248] 348rpm	66[584] 346rpm	145[1283] 342rpm	220[1947] 338rpm	305[2699] 332rpm	375[3319] 324rpm	450[3983] 314rpm	525[4646] 300rpm	
	65 [17.16]	25[221] 412rpm	63[558] 410rpm	140[1239] 406rpm	220[1947] 400rpm	300[2655] 393rpm	375[3319] 383rpm	445[3938] 370rpm		
	75 [19.80]	22[195] 476rpm	60[531] 474rpm	135[1195] 470rpm	215[1903] 464rpm	295[2611] 454rpm	370[3275] 445rpm	440[3894] 435rpm		
	Max Cont.	18[159] 540rpm	55[487] 536rpm	130[1151] 532rpm	210[1859] 524rpm	290[2567] 514rpm	365[3230] 502rpm	435[3850] 485rpm		
	85 [22.44]	15[133] 600rpm	50[443] 595rpm	125[1106] 590rpm	205[1814] 580rpm	285[2522] 565rpm	360[3186] 555rpm	430[3806] 545rpm		
	Max Int.		40[354] 715rpm	115[1018] 705rpm	200[1770] 695rpm	280[2478] 685rpm	350[3098] 670rpm	425[3761] 655rpm		
	115 [30.36]									

GKA200		193.4cm ³ /rev(11.80in ³ /rev)						最高连续 Max Cont.	最高断续 Max Int.	
压力 Pressure bar [psi→]		17.5 [250]	35 [500]	70 [1000]	105 [1500]	140 [2000]	175 [2503]	205 [2929]	240 [3429]	260 [3718]
Flow 流量	l/min [gpm↓]	扭矩 N m [lb-in] 转速 Torque N m [lb-in] Speed Specification								
	2 [0.53]	32[283] 9rpm	68[602] 7rpm	110[974] 5rpm	145[1283] 3rpm					
	4 [1.06]	40[354] 18rpm	75[664] 16rpm	150[1328] 14rpm	195[1726] 11rpm	300[2655] 7rpm	360[3186] 4rpm			
	8 [2.11]	45[398] 37rpm	80[708] 36rpm	160[1416] 34rpm	240[2124] 30rpm	315[2788] 26rpm	405[3584] 21rpm	500[4425] 17rpm	570[5045] 13rpm	600[5310] 11rpm
	15 [3.96]	48[425] 75rpm	90[797] 74rpm	170[1505] 72rpm	255[2257] 68rpm	335[2965] 64rpm	425[3761] 60rpm	510[4514] 56rpm	590[5222] 50rpm	620[5487] 42rpm
	22 [5.81]	46[407] 112rpm	90[797] 110rpm	175[1549] 108rpm	265[2345] 105rpm	350[3098] 101rpm	440[3894] 97rpm	520[4602] 91rpm	605[5354] 86rpm	645[5708] 80rpm
	30 [7.92]	45[398] 153rpm	90[797] 151rpm	180[1593] 148rpm	270[2390] 145rpm	360[3186] 141rpm	450[3983] 135rpm	530[4691] 128rpm	615[5443] 122rpm	655[5797] 116rpm
	38 [10.03]	45[398] 193rpm	90[797] 191rpm	180[1593] 188rpm	275[2434] 184rpm	370[3275] 178rpm	455[4027] 172rpm	540[4779] 166rpm	625[5531] 158rpm	
	45 [11.88]	40[354] 230rpm	85[752] 228rpm	180[1593] 226rpm	275[2434] 222rpm	370[3275] 218rpm	460[4071] 210rpm	545[4823] 202rpm		
	55 [14.52]	38[336] 280rpm	82[726] 278rpm	180[1593] 275rpm	275[2434] 270rpm	375[3319] 264rpm	465[4115] 255rpm	550[4868] 248rpm		
	65 [17.16]	35[310] 332rpm	80[708] 330rpm	175[1549] 328rpm	270[2390] 322rpm	370[3275] 315rpm	465[4115] 306rpm	545[4823] 295rpm		
	75 [19.80]	30[266] 384rpm	72[637] 382rpm	170[1505] 378rpm	265[2345] 370rpm	360[3186] 365rpm	455[4027] 356rpm	540[4779] 346rpm		
	Max Cont.	25[221] 436rpm	70[620] 434rpm	165[1460] 430rpm	260[2301] 420rpm	355[3142] 410rpm	450[3983] 400rpm	540[4779] 390rpm		
	85 [22.44]	20[177] 488rpm	60[531] 485rpm	155[1372] 478rpm	255[2257] 470rpm	350[3098] 458rpm	445[3938] 448rpm	530[4691] 438rpm		
	Max Int.		50[443] 580rpm	140[1239] 572rpm	240[2124] 562rpm	330[2921] 550rpm	440[3894] 538rpm	520[4602] 520rpm		
	115 [30.36]									



Flow Data 流量参数

GKA250		242.5cm ³ /rev (14.79in ³ /rev)						最高连续 Max Cont.	最高断续 Max Int.		
压力 Pressure bar [psi→]		17.5 [250]	35 [500]	70 [1000]	105 [1500]	140 [2000]	175 [2503]	205 [2929]	240 [3429]	260 [3718]	
Flow 流量	l/min [gpm↓]	扭矩 N m [lb-in] 转速 Torque N m [lb-in] Speed Specification									
	2 [0.53]	45[398]	95[841]								
		4rpm	2rpm								
	4 [1.06]	50[443]	100[885]	210[1859]	310[2744]	410[3629]	510[4514]	610[5399]			
		14rpm	13rpm	11rpm	9rpm	6rpm	4rpm	3rpm			
	8 [2.11]	55[487]	105[929]	215[1903]	320[2832]	420[3717]	530[4691]	620[5487]	730[6461]	780[6903]	
		29rpm	28rpm	26rpm	23rpm	20rpm	17rpm	14rpm	11rpm	9rpm	
	15 [3.96]	55[487]	110[974]	220[1947]	330[2921]	440[3894]	550[4868]	650[5753]	755[6682]	810[7169]	
		59rpm	58rpm	56rpm	53rpm	50rpm	47rpm	45rpm	43rpm	40rpm	
	22 [5.81]	50[443]	115[1018]	225[1991]	340[3009]	455[4027]	560[4956]	665[5885]	770[6815]		
		88rpm	87rpm	85rpm	82rpm	78rpm	74rpm	69rpm	65rpm		
	30 [7.92]	50[443]	115[1018]	230[2036]	350[3098]	465[4115]	570[5046]	680[6018]	785[6947]		
		122rpm	121rpm	118rpm	113rpm	109rpm	104rpm	100rpm	92rpm		
	38 [10.03]	48[425]	112[991]	235[2080]	355[3142]	475[4204]	580[5133]	695[6151]	795[7036]		
		154rpm	152rpm	149rpm	145rpm	140rpm	135rpm	130rpm	122rpm		
	45 [11.88]	45[398]	110[974]	230[2036]	350[3098]	470[4160]	590[5222]	700[6195]			
		183rpm	182rpm	180rpm	176rpm	170rpm	165rpm	158rpm			
	55 [14.52]	42[372]	105[929]	230[2036]	345[3053]	470[4160]	580[5133]				
		224rpm	223rpm	221rpm	218rpm	212rpm	205rpm				
65 [17.16]	35[310]	100[885]	220[1947]	340[3009]	460[4071]	565[5000]					
	266rpm	265rpm	263rpm	258rpm	252rpm	242rpm					
75 [19.80]	32[283]	95[841]	210[1859]	330[2921]	455[4027]	560[4956]					
	307rpm	306rpm	303rpm	298rpm	290rpm	280rpm					
85 [22.44]	30[266]	85[752]	200[1770]	320[2832]	450[3983]	555[4912]					
	348rpm	346rpm	342rpm	336rpm	330rpm	320rpm					
95 [25.08]	25[221]	70[620]	190[1682]	315[2788]	440[3894]	540[4779]					
	386rpm	384rpm	378rpm	372rpm	365rpm	355rpm					
115 [30.36]		65[575]	180[1593]	300[2655]	430[3806]						
		465rpm	458rpm	450rpm	442rpm						

GKA315		304.3cm ³ /rev (18.56in ³ /rev)						最高连续 Max Cont.	最高断续 Max Int.	
压力 Pressure bar [psi→]		17.5 [250]	35 [500]	70 [1000]	105 [1500]	140 [2000]	175 [2503]	205 [2929]	240 [3429]	
Flow 流量	l/min [gpm↓]	扭矩 N m [lb-in] 转速 Torque N m [lb-in] Speed Specification								
	2 [0.53]	45[398]	95[841]							
		4rpm	2rpm							
	4 [1.06]	65[575]	130[1151]	250[2213]	380[3363]	490[4337]				
		12rpm	11rpm	10rpm	8rpm	6rpm				
	8 [2.11]	70[620]	135[1195]	260[2301]	390[3452]	510[4514]	630[5576]	760[6726]	875[7735]	
		24rpm	23rpm	22rpm	20rpm	18rpm	15rpm	10rpm	6rpm	
	15 [3.96]	75[664]	140[1239]	275[2434]	410[3629]	535[4735]	670[5930]	800[7080]	920[8142]	
		48rpm	48rpm	47rpm	45rpm	42rpm	38rpm	34rpm	30rpm	
	22 [5.81]	70[620]	140[1239]	285[2522]	425[3761]	555[4912]	685[6062]	810[7169]	940[8319]	
		71rpm	70rpm	69rpm	66rpm	62rpm	56rpm	50rpm	42rpm	
	30 [7.92]	70[620]	145[1283]	290[2567]	430[3806]	565[5000]	695[6151]	820[7257]		
		97rpm	97rpm	96rpm	93rpm	88rpm	80rpm	70rpm		
	38 [10.03]	66[584]	140[1239]	290[2567]	435[3850]	570[5045]	715[6328]	835[7390]		
		123rpm	122rpm	120rpm	117rpm	112rpm	102rpm	90rpm		
	45 [11.88]	62[549]	135[1195]	290[2567]	435[3850]	575[5089]	720[6372]	840[7434]		
		147rpm	146rpm	144rpm	142rpm	135rpm	125rpm	118rpm		
	55 [14.52]	58[513]	130[1151]	285[2522]	430[3806]	575[5089]	720[6372]			
		180rpm	179rpm	176rpm	172rpm	165rpm	155rpm			
65 [17.16]	52[460]	120[1062]	275[2434]	425[3761]	570[5045]	715[6328]				
	213rpm	212rpm	210rpm	205rpm	200rpm	190rpm				
75 [19.80]	40[354]	110[974]	260[2301]	415[3673]	560[4956]	710[6284]				
	246rpm	245rpm	242rpm	236rpm	225rpm	212rpm				
85 [22.44]	30[266]	100[885]	250[2213]	405[3584]	540[4779]					
	278rpm	277rpm	274rpm	270rpm	260rpm					
95 [25.08]	20[177]	90[797]	245[2168]	380[3363]	515[4558]					
	311rpm	310rpm	307rpm	303rpm	296rpm					
115 [30.36]		80[708]	225[1991]	350[3098]						
		365rpm	361rpm	355rpm						



Flow Data 流量参数

GKA395		390.8cm ³ /rev (23.84in ³ /rev)					最高连续 Max Cont.	最高断续 Max Int.		
压力 Pressure bar [psi→]		17.5 [250]	35 [500]	70 [1000]	105 [1500]	140 [2000]	155 [2217]	175 [2503]	190 [2717]	
Flow 流量	l/min [gpm↓]	扭矩 N m [lb-in] 转速 Torque N m [lb-in] Speed Specification								
	2 [0.53]	70[620]	145[1283]							
		4rpm	2rpm							
	4 [1.06]	80[708]	170[1505]	345[3053]	500[4425]	660[5841]	740[6549]			
		9rpm	9rpm	8rpm	7rpm	6rpm	5rpm			
	8 [2.11]	85[752]	175[1549]	355[3142]	520[4602]	680[6018]	765[6770]	830[7346]	910[8054]	
		19rpm	18rpm	17rpm	16rpm	14rpm	13rpm	12rpm	10rpm	
	15 [3.96]	90[797]	185[1637]	370[3275]	550[4868]	720[6372]	810[7169]	880[7788]		
		37rpm	37rpm	36rpm	35rpm	32rpm	30rpm	28rpm		
	22 [5.81]	95[841]	190[1682]	380[3363]	565[5000]	750[6638]	830[7346]	900[7965]		
		55rpm	55rpm	54rpm	52rpm	48rpm	46rpm	44rpm		
	30 [7.92]	92[814]	188[1664]	385[3407]	570[5045]	760[6726]	835[7390]	905[8009]		
		76rpm	75rpm	73rpm	71rpm	68rpm	65rpm	62rpm		
	38 [10.03]	90[797]	185[1637]	385[3407]	575[5089]	765[6770]	840[7434]	930[8231]		
		96rpm	94rpm	92rpm	90rpm	86rpm	84rpm	80rpm		
	45 [11.88]	85[752]	180[1593]	380[3363]	570[5045]	760[6726]				
		114rpm	113rpm	111rpm	108rpm	102rpm				
	55 [14.52]	80[708]	175[1549]	380[3363]	570[5045]	760[6726]				
		140rpm	139rpm	137rpm	133rpm	127rpm				
65 [17.16]	75[664]	170[1505]	370[3275]	560[4956]	750[6638]					
	165rpm	164rpm	163rpm	160rpm	155rpm					
75 [19.80]	68[602]	160[1416]	360[3186]	555[4912]	740[6549]					
	191rpm	190rpm	188rpm	184rpm	178rpm					
85 [22.44]	65[575]	150[1328]	355[310]	550[4868]	730[6461]					
	214rpm	212rpm	210rpm	206rpm	200rpm					
95 [25.08]	50[443]	135[1195]	340[3009]	530[4691]	710[6284]					
	242rpm	240rpm	237rpm	233rpm	228rpm					
115 [30.36]		125[1106]	310[2744]	510[4514]						
		286rpm	282rpm	275rpm						

GKA475		485cm ³ /rev (29.59in ³ /rev)				最高连续 Max Cont.	最高断续 Max Int.	
压力 Pressure bar [psi→]		17.5 [250]	35 [500]	70 [1000]	105 [1500]	120 [1716]	140 [2000]	
Flow 流量	l/min [gpm↓]	扭矩 N m [lb-in] 转速 Torque N m [lb-in] Speed Specification						
	2 [0.53]	75[664]	175[1549]					
		2rpm	1rpm					
	4 [1.06]	110[974]	220[1947]	430[3806]	540[4779]			
		7rpm	6rpm	4rpm	1rpm			
	8 [2.11]	110[974]	225[1991]	450[3983]	700[6195]			
		14rpm	13rpm	11rpm	7rpm			
	15 [3.96]	105[929]	235[2080]	470[4160]	710[6284]	825[7285]	895[7921]	
		29rpm	28rpm	26rpm	24rpm	22rpm	19rpm	
	22 [5.81]	105[929]	240[2124]	480[4248]	720[6372]	835[7390]	915[8098]	
		44rpm	43rpm	42rpm	40rpm	37rpm	34rpm	
	30 [7.92]	110[974]	240[2124]	485[4292]	725[6416]	840[7434]	935[8275]	
		61rpm	60rpm	58rpm	55rpm	52rpm	48rpm	
	38 [10.03]	110[974]	235[2080]	480[4248]	720[6372]	840[7434]	930[8231]	
		77rpm	75rpm	73rpm	70rpm	68rpm	65rpm	
	45 [11.88]	100[885]	220[1947]	470[4160]	715[6328]	825[7301]		
		91rpm	91rpm	89rpm	85rpm	83rpm		
	55 [14.52]	95[841]	210[1859]	460[4071]	710[6284]	820[7257]		
		112rpm	110rpm	108rpm	104rpm	100rpm		
	65 [17.16]	85[752]	200[1770]	445[3938]	700[6195]	810[7169]		
132rpm		131rpm	128rpm	125rpm	120rpm			
75 [19.80]	70[620]	185[1637]	440[3894]	690[531]	800[7080]			
	153rpm	152rpm	149rpm	145rpm	140rpm			
85 [22.44]	60[531]	175[1549]	430[3806]	680[6018]	785[6947]			
	173rpm	172rpm	169rpm	165rpm	160rpm			
95 [25.08]	40[354]	150[1328]	405[3584]	655[5797]				
	195rpm	193rpm	190rpm	185rpm				
115 [30.36]		130[1151]	380[3363]	625[5531]				
		230rpm	226rpm	220rpm				

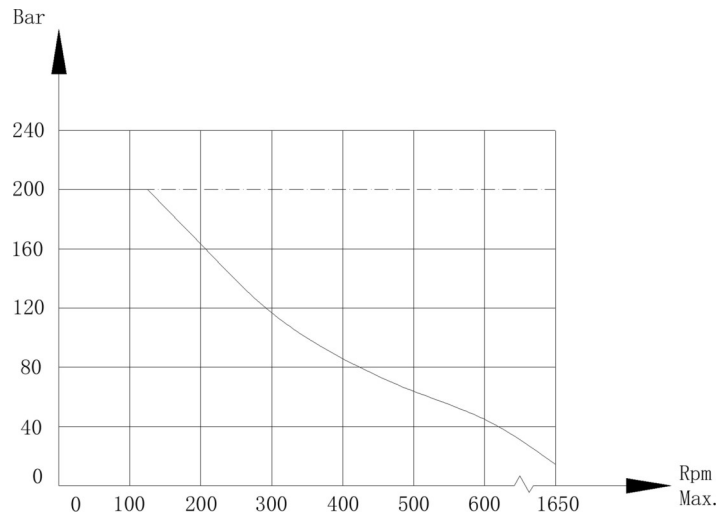
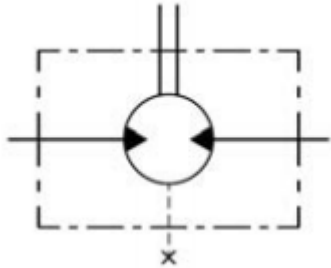
Technical Data 技术数据

Hydraulic orbit Motors GKA

Permissible shaft seal pressure

GKA系列摆线液压马达

输出轴密封圈允许承受的压力



Case Drain

泄油口:

In applications without a motor drain line, the pressure exerted on the shaft seal is marginally in excess of the return line pressure. When the Drain line is used, the pressure exerted on the shaft seal is equal to the return line pressure.

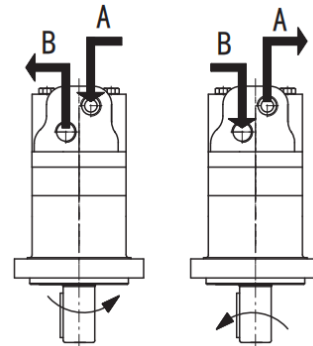
在没有使用排油管的应用中，施加在轴封上的压力略高于回油管压力。使用排油管时，施加在轴封上的压力等于回油管压力。

Standard direction of shaft rotation: Standard

轴旋转的标准方向：标准

When facing shaft end of motor, shaft to rotate: Clockwise when port "A" is pressurized. Counter-clockwise port "B" is pressurized.

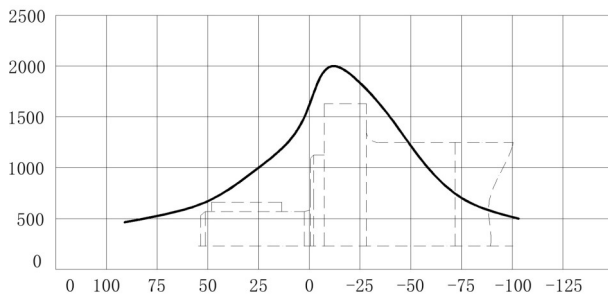
当面对电动机的轴端时，轴旋转：当端口“A”增压时，顺时针方向旋转。当端口“B”增压时，逆时针方向旋转。



Axial and Radial forces

轴向力和径向力

Radial force (daN)

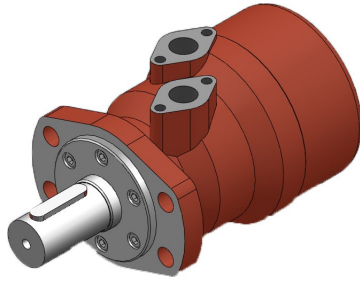


The distance between the force point and the flange surface (mm)

This radial force curve is obtained under the rated torque to ensure the bearing life B10 allowable load (2000 hours or 12×10^6 revolutions at 150rpm), and must be multiplied by a certain coefficient under other speed conditions.

本径向力曲线是在额定扭矩下保证轴承寿命B10允许负载得出（2000小时或 12×10^6 转在150rpm工况下），其他转速工况下须乘以某一系数。

General 概述

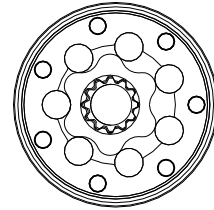


APPLICATION 应用

- ◇ Conveyors 输送机械
- ◇ Feeding machinery of robots and manipulators 机器人和操纵器的给料机械
- ◇ Metal working machines 金属加工机械
- ◇ Textile machines 纺织机械
- ◇ Agricultural machines 农用机械
- ◇ Food industries 食品工业
- ◇ Mining machines 矿山机械

OPTIONS 可选功能

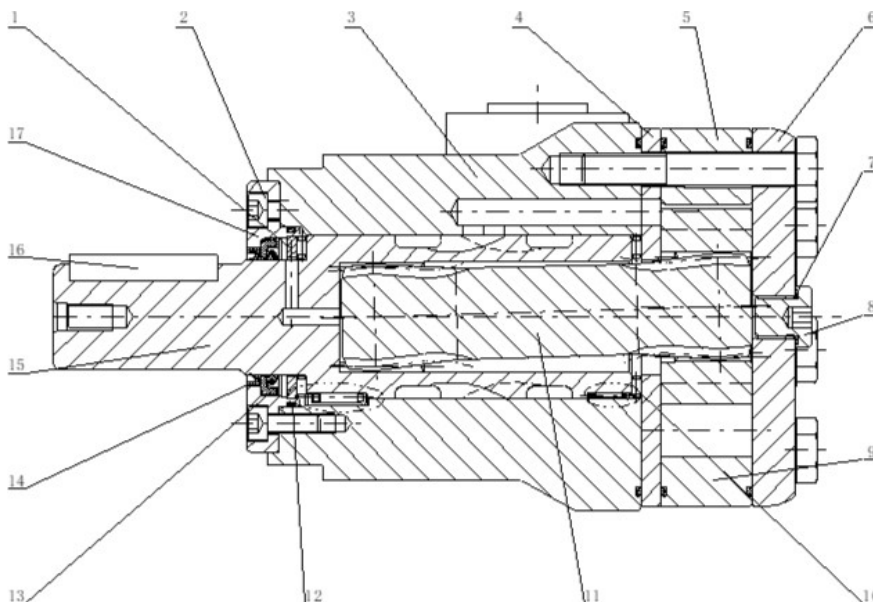
- ◇ Flange connection 法兰连接
- ◇ Shafts—straight, splined and tapered 轴伸: 平键、花键、锥键
- ◇ Metric and BSPP ports 公制和BSPP油口
- ◇ Other special features 其他功能



- ◇ Shaft distribution flow 轴配流

技术指标

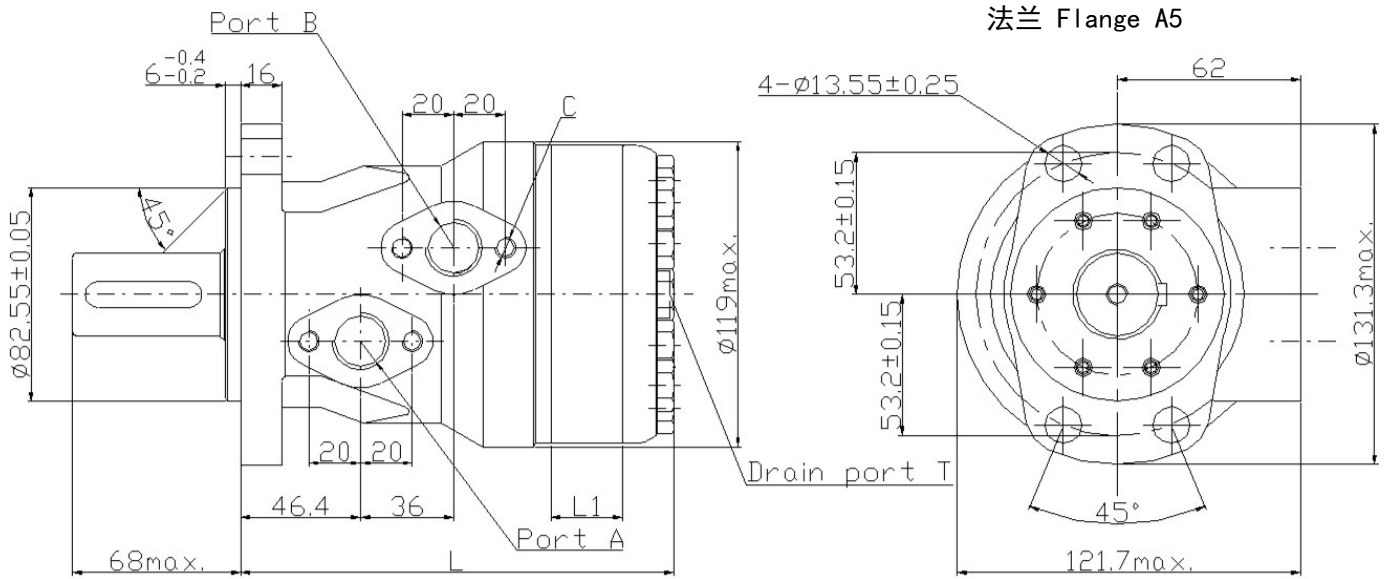
型号 Model		GH200	GH250	GH315	GH400	GH500
排量 Disp.	in ³ /rev	12.3	15.4	19.2	24.2	30.7
	cm ³ /rev	201.3	252	314.9	396.8	502.4
最高转速 Max Speed rpm	连续 cont.	370	295	235	185	150
	断续 int.	445	350	285	225	180
最大扭矩 Max Torque N m [lb-in]	连续 cont.	510 [4510]	610 [5398]	740 [6548]	840 [7434]	820 [7257]
	断续 int.	580 [5130]	700 [6195]	820 [7257]	980 [8673]	1040 [9204]
最大压力差 Max Dif. bar [psi]	连续 cont.	175 [2540]	175 [2540]	175 [2540]	155 [2240]	125 [1810]
	断续 int.	200 [2900]	200 [2900]	200 [2900]	190 [2750]	160 [2320]
最大流量 Max Flow l/min [gpm]	连续 cont.	75 [19.81]	75 [19.81]	75 [19.81]	75 [19.81]	75 [19.81]
	断续 int.	90 [23.78]	90 [23.78]	90 [23.78]	90 [23.78]	90 [23.78]
重量 Weight kg [lbs]		10.5 [23.2]	11 [24.3]	11.5 [25.4]	12.3 [27.1]	13 [28.7]



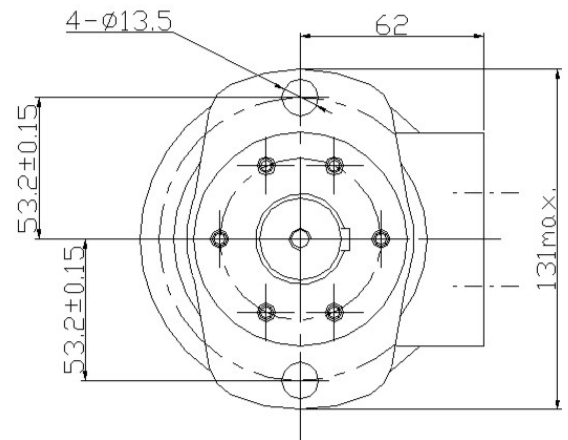
1. Thrust Washer 推力垫圈
2. Screw 螺丝
3. Housing 外壳
4. Wear Plate 耐磨板
5. Set 组件
6. End Cover 端盖
7. Seal 密封
8. Case Drain Plug 外壳排水塞
9. O-ring O型圈
10. Axial Needle Bearing 推力滚针轴承
11. Cardan Joint 万向节
12. O-ring O型圈
13. Shaft Seal 轴封
14. Dust Seal 防尘密封
15. Output Shaft 输出轴
16. Key 键
17. Front Cover 前盖

Hydraulic orbit Motors GH GH系列液压摆线马达

Dimensions and Mounting Data 尺寸和安装参数



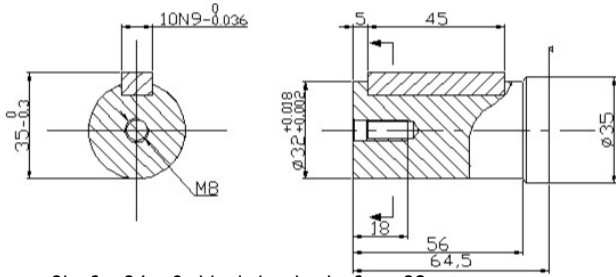
法兰 Flange A6



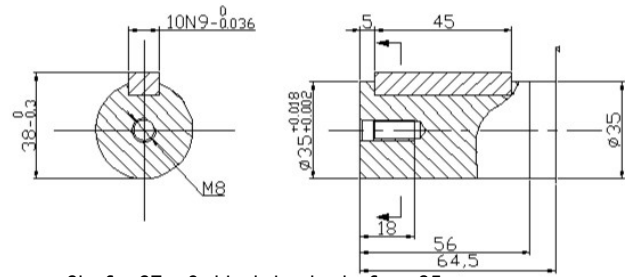
Model 型号	L	L1
GH 200	168	27
GH 250	175	34
GH 315	184	42
GH 400	195	54
GH 500	206	65

Port 油口	G1 (Depth)	M1 (Depth)	U2 (Depth)	U1 (Depth)	G2 (Depth)
	深度	深度	深度	深度	深度
P(A,B)	G1/2 (15)	M22x1.5 (15)	7/8-14 O-ring (15)	1/2-14NPTF (15)	PT (RC) 1/2 (15)
C	4-M8 (13)	4-M8 (13)	4-5/16-18UNC (13)	4-5/16-18UNC (13)	4-M8 (13)
T	G1/4 (12)	M14x1.5 (12)	7/16-20UNF (12)	7/16-20UNF (12)	PT (RC) 1/4 (12)

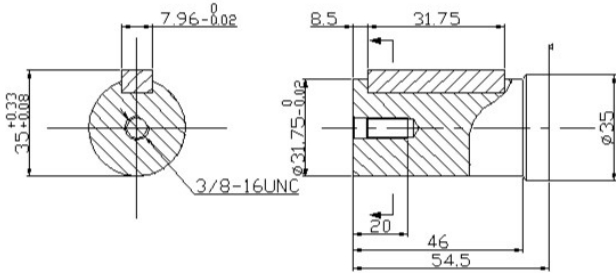
GH Shaft Extension Dimensions Data GH系列轴伸尺寸参数



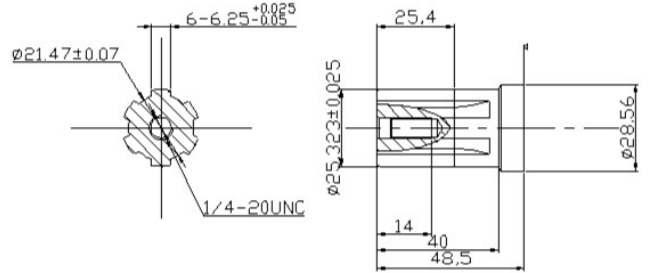
Shaft S4: Cylindrical shaft $\varnothing 32$
Parallel key 10x8x45
S4轴: 圆柱轴 $\varnothing 32$
平键 10x8x45



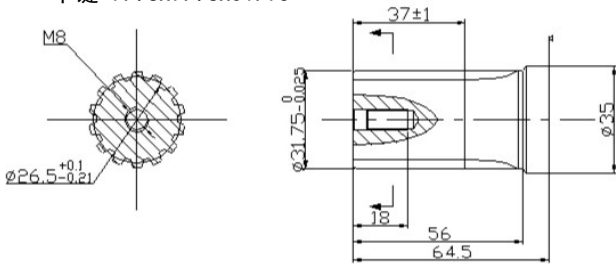
Shaft SF: Cylindrical shaft $\varnothing 35$
Parallel key 10x8x45
SF轴: 圆柱轴 $\varnothing 35$
平键 10x8x45



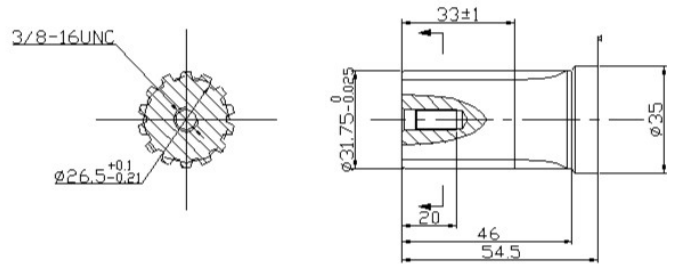
Shaft SG: Cylindrical shaft $\varnothing 31.75$
Parallel key 7.96x7.96x31.75
SG轴: 圆柱轴 $\varnothing 31.75$
平键 7.96x7.96x31.75



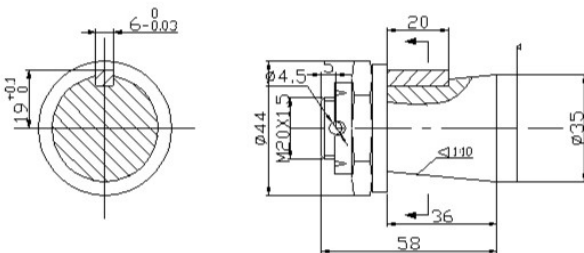
Shaft R4: Splined SAE 6B
R4轴: 花键SAE 6B



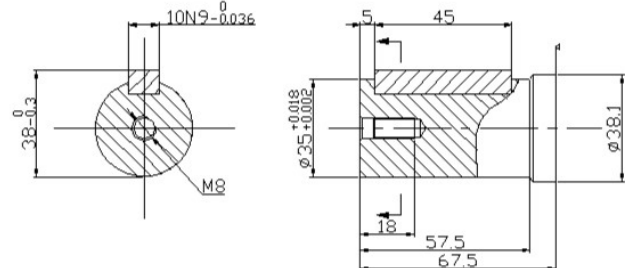
Shaft R3: Splined 14-DP12/24
R3轴: 花键14-DP12/24



Shaft Splined R6: 14-DP12/24
R6轴: 花键14-DP12/24



Shaft T4: Tapered shaft $\varnothing 35$
Parallel key 6x6x20
Tightening torque: 200±10Nm
T4轴: 锥轴 $\varnothing 35$
平键 B6x6x20
螺母拧紧力矩: 200±10Nm



Shaft SH: Cylindrical shaft $\varnothing 35$
Parallel key 10x8x45
SH轴: 圆柱轴 $\varnothing 35$
平键 10x8x45



GH Shaft Extension Dimensions Data GH系列轴伸尺寸参数

		Model	Displacement	Flange	Drive shaft	Ports	Other functions
Ordering Example:		GH	200	A5	S4	G1	ACA
Model	Disp.	Flange		Drive shaft		Ports	
GH	200	A5=2- \varnothing 13.5 SAE A flange, pilot \varnothing 82.5x6		S4=Shaft \varnothing 32, parallel key 10x8x45		G1=G1/2 manifold mount 4xM8, G1/4 G2=PT(Rc) 1/2 manifold mount 4xM8, PT(Rc) 1/4 U1=1/2-14NPTF manifold mount 4x5/16-18UNC, 7/16-20UNF	
	250			SF=Shaft \varnothing 35, parallel key 10x8x45			
	315			SG=Shaft \varnothing 31.75, parallel key 7.96x7.96x31.75			
	400	A6=4- \varnothing 13.5 SAE A flange, pilot \varnothing 82.5x6		SH=Shaft \varnothing 35, parallel key 10x8x45			
	500			R3=Shaft \varnothing 31.75, splined tooth 14-DP12/24			
				R6=Long shaft \varnothing 31.75, splined tooth 14-DP12/24			
				T4=Tapered shaft \varnothing 35, parallel key B6x6x20			
				R4=Shaft \varnothing 25.4, parallel key SAE 6B			

Rotation direction	Paint	Unusually function
A=Standard R=Opposite	A=No paint B=Blue C=Black S=Silver grey	A=Standard N=Big radial force D=No case drain F=Free running L=Low speed V=High temperature S=Low temperature



GH Shaft Extension Dimensions Data GH系列轴伸尺寸参数

订购示例:		型号	排量	法兰	传动轴	油口	其他功能
		GH	200	A5	S4	G1	ACA
型号	排量	法兰		传动轴		油口	
GH	200	A5=2- \varnothing 13.5 SAE A 法兰, 止口 \varnothing 82.5x6		S4=轴 \varnothing 32, 平键 10x8x45		G1=G1/2 集成块安装4xM8, G1/4 G2=PT(Rc)1/2 集成块安装 4xM8, PT(Rc)1/4 U1=1/2-14NPTF 集成块安装 4x5/16-18UNC, 7/16-20UNF	
	250			SF=轴 \varnothing 35, 平键 10x8x45			
	315	A6=4- \varnothing 13.5 SAE A 法兰, 止口 \varnothing 82.5x6		SG=轴 \varnothing 31.75, 平键 7.96x7.96x31.75			
	400			SH=轴 \varnothing 35, 平键 10x8x45			
	500			R3=轴 \varnothing 31.75, 花键齿 14- DP12/24			
				R6=长轴 \varnothing 31.75, 花键齿 14- DP12/24			
				T4=锥形轴 \varnothing 35, 平键 B6x6x20			
				R4=轴 \varnothing 25.4, 平键 SAE 6B			

旋转方向	喷漆	不常用的功能
A=标准 R=反向	A=无喷漆 B=蓝色 C=黑色 S=银灰色	A=标准 N=大径向力 D=无泄油口 F=自由转 L=低速 V=高温 S=低温



Flow Data 流量参数

GH200		201.3cm ³ /rev(12.3in ³ /rev)				最高连续 Max Cont.	最高断续 Max Int.
压力 Pressure bar [psi→]		36.1 [515]	72.1 [1030]	108.2 [1546]	144.2 [2060]	180.3 [2576]	206.5 [2950]
Flow 流量	l/min [gpm↓]	扭矩 N m [lb-in] 转速 Torque N m [lb-in] Speed Specification					
	5 [1.32]	98 [867]	194 [1717]	284 [2513]			
		25rpm	25rpm	22rpm			
	10 [2.65]	101 [894]	204 [1805]	301 [2664]	391 [3460]	482 [4266]	
		43rpm	41rpm	36rpm	29rpm	14rpm	
	20 [5.26]	99 [876]	201 [1779]	304 [2690]	402 [3558]	509 [4505]	576 [5098]
		100rpm	97rpm	93rpm	85rpm	69rpm	56rpm
	30 [7.9]	97 [858]	197 [1743]	300 [2655]	402 [3558]	510 [4513]	579 [5124]
		145rpm	143rpm	139rpm	130rpm	114rpm	101rpm
	40 [10.5]	90 [797]	190 [1681]	292 [2584]	399 [3531]	507 [4487]	578 [5115]
		200rpm	200rpm	200rpm	188rpm	168rpm	153rpm
	50 [13.15]	82 [726]	183 [1619]	284 [2513]	392 [3469]	500 [4425]	571 [5053]
		248rpm	246rpm	244rpm	235rpm	213rpm	199rpm
	60 [15.8]	73 [646]	174 [1540]	274 [2425]	384 [3398]	493 [4363]	563 [4982]
		292rpm	290rpm	287rpm	279rpm	260rpm	244rpm
70 [18.4]	63 [557]	163 [1442]	264 [2336]	374 [3309]	481 [4256]	554 [4903]	
	352rpm	350rpm	349rpm	338rpm	318rpm	301rpm	
75 [19.75]	59 [522]	158 [1389]	259 [2292]	366 [3239]	475 [4204]	547 [4841]	
	366rpm	365rpm	363rpm	355rpm	335rpm	319rpm	
80 [21.05]	53 [469]	150 [1328]	253 [2239]	358 [3168]	466 [4124]	538 [4761]	
	Max Cont.	381rpm	381rpm	380rpm	371rpm	352rpm	338rpm
90 [23.68]	39 [345]	140 [1239]	241 [2133]	348 [3080]	456 [4036]	526 [4655]	
	Max Int.	443rpm	437rpm	434rpm	426rpm	407rpm	392rpm

GH250		252cm ³ /rev(15.4in ³ /rev)				最高连续 Max Cont.	最高断续 Max Int.
压力 Pressure bar [psi→]		36.1 [515]	72.1 [1030]	92.3 [1328]	123.6 [1766]	149.7 [2139]	180.3 [2576]
Flow 流量	l/min [gpm↓]	扭矩 N m [lb-in] 转速 Torque N m [lb-in] Speed Specification					
	5 [1.32]	115 [1071]	246 [2177]	318 [2814]	398 [3522]		
		19rpm	19rpm	18rpm	14rpm		
	10 [2.65]	130 [1150]	258 [2283]	331 [2929]	425 [3761]	515 [4558]	595 [5266]
		34rpm	33rpm	31rpm	29rpm	23rpm	12rpm
	20 [5.26]	130 [1150]	258 [2283]	332 [2938]	432 [3823]	520 [4602]	621 [5496]
		78rpm	77rpm	76rpm	73rpm	65rpm	53rpm
	30 [7.9]	122 [1080]	251 [2221]	327 [2894]	429 [3797]	520 [4602]	621 [5496]
		115rpm	113rpm	111rpm	105rpm	96rpm	84rpm
	40 [10.5]	115 [1017]	240 [2124]	323 [2858]	422 [3735]	513 [4540]	616 [5452]
		157rpm	157rpm	156rpm	150rpm	139rpm	127rpm
	50 [13.15]	105 [929]	232 [2053]	315 [2779]	411 [3637]	505 [4469]	606 [5363]
		196rpm	195rpm	192rpm	185rpm	173rpm	159rpm
	60 [15.8]	94 [831]	220 [1947]	302 [2673]	401 [3549]	496 [4390]	596 [5275]
		232rpm	230rpm	226rpm	218rpm	206rpm	192rpm
70 [18.4]	81 [720]	209 [1850]	288 [2550]	389 [3442]	484 [4283]	582 [5150]	
	274rpm	274rpm	274rpm	266rpm	252rpm	238rpm	
75 [19.75]	72 [637]	203 [1796]	280 [2478]	381 [3372]	475 [4204]	574 [5080]	
	290rpm	289rpm	287rpm	279rpm	266rpm	251rpm	
80 [21.05]	66 [584]	194 [1717]	273 [2416]	371 [3283]	467 [4133]	566 [5009]	
	Max Cont.	303rpm	302rpm	298rpm	290rpm	279rpm	264rpm
90 [23.68]	49 [433]	178 [1575]	256 [2266]	355 [3142]	453 [4009]	552 [4885]	
	Max Int.	348rpm	347rpm	345rpm	337rpm	325rpm	309rpm



Flow Data 流量参数

GH315		314.9cm ³ /rev(19.2in ³ /rev)					最高连续 Max Cont.	最高断续 Max Int.	
压力 Pressure bar [psi→]		36.1 [515]	77.4 [1105]	102.9 [1470]	139.1 [1987]	160.0 [2286]	180.3 [2576]	206.5 [2950]	
Flow 流量	l/min [gpm↓]	扭矩 N m [lb-in] 转速 Torque N m [lb-in] Speed Specification							
	5 [1.32]	155 [1372]	325 [2876]						
		16rpm	13rpm						
	10 [2.65]	163 [1442]	342 [3026]	454 [4018]	556 [4921]				
		27rpm	24rpm	18rpm	14rpm				
	20 [5.26]	169 [1496]	349 [3089]	469 [4151]	582 [5150]	664 [5876]	733 [6487]	809 [7160]	
		63rpm	61rpm	55rpm	48rpm	40rpm	32rpm	19rpm	
	30 [7.9]	165 [1460]	344 [3044]	470 [4159]	580 [5133]	669 [5921]	740 [6549]	824 [7292]	
		93rpm	89rpm	82rpm	77rpm	67rpm	59rpm	46rpm	
	40 [10.5]	154 [1363]	337 [2982]	465 [4115]	577 [5106]	663 [5867]	737 [6522]	827 [7319]	
		126rpm	126rpm	119rpm	111rpm	99rpm	88rpm	73rpm	
	50 [13.15]	141 [1248]	325 [2876]	455 [4027]	568 [5027]	656 [5806]	728 [6443]	824 [7292]	
		159rpm	155rpm	148rpm	139rpm	126rpm	115rpm	98rpm	
	60 [15.8]	121 [1071]	312 [2761]	440 [3894]	555 [4912]	643 [5690]	715 [6328]	812 [7186]	
		187rpm	186rpm	179rpm	169rpm	154rpm	143rpm	124rpm	
70 [18.4]	103 [911]	298 [2637]	425 [3761]	541 [4788]	631 [5584]	703 [6221]	800 [7080]		
	222rpm	222rpm	215rpm	205rpm	187rpm	176rpm	157rpm		
75 [19.75]	94 [831]	287 [2540]	417 [3690]	529 [4682]	623 [5514]	696 [6160]	792 [7009]		
	236rpm	233rpm	224rpm	215rpm	196rpm	184rpm	166rpm		
80 [21.05]	82 [726]	277 [2451]	406 [3593]	518 [4584]	611 [5407]	688 [6089]	784 [6938]		
	Max Cont.	246rpm	244rpm	236rpm	228rpm	210rpm	197rpm	174rpm	
90 [23.68]	62 [549]	256 [2266]	386 [3416]	496 [4390]	593 [5248]	669 [5921]	767 [6788]		
Max Int.	282rpm	280rpm	275rpm	266rpm	248rpm	234rpm	209rpm		

GH400		396.8cm ³ /rev(24.2in ³ /rev)					最高连续 Max Cont.
压力 Pressure bar [psi→]		36.1 [515]	77.4 [1105]	102.9 [1470]	139.1 [1987]	160.0 [2286]	196.1 [2802]
Flow 流量	l/min [gpm↓]	扭矩 N m [lb-in] 转速 Torque N m [lb-in] Speed Specification					
	5 [1.32]	196 [1735]	348 [3080]	516 [4566]			
		13rpm	13rpm	10rpm			
	10 [2.65]	205 [1814]	363 [3212]	546 [4832]	702 [6213]	859 [7602]	
		22rpm	21rpm	21rpm	17rpm	11rpm	
	20 [5.26]	209 [1850]	366 [3239]	543 [4805]	708 [6266]	874 [7735]	988 [8744]
		50rpm	49rpm	46rpm	41rpm	36rpm	31rpm
	30 [7.9]	201 [1779]	357 [3159]	542 [4797]	706 [6248]	864 [7646]	984 [8708]
		73rpm	72rpm	70rpm	63rpm	56rpm	51rpm
	40 [10.5]	195 [1726]	346 [3062]	532 [4708]	701 [6204]	858 [7593]	973 [8611]
		99rpm	98rpm	96rpm	86rpm	77rpm	71rpm
	50 [13.15]	173 [1531]	332 [2938]	518 [4584]	687 [6080]	848 [7504]	958 [8478]
		123rpm	122rpm	118rpm	107rpm	97rpm	90rpm
	60 [15.8]	154 [1363]	319 [2823]	501 [4434]	668 [5912]	833 [7372]	944 [8354]
		146rpm	144rpm	141rpm	128rpm	115rpm	106rpm
70 [18.4]	138 [1221]	305 [2699]	480 [4248]	649 [5744]	814 [7204]	925 [8186]	
	174rpm	173rpm	169rpm	156rpm	141rpm	130rpm	
75 [19.75]	128 [1133]	294 [2602]	466 [4124]	637 [5637]	802 [7098]	911 [8062]	
	183rpm	181rpm	177rpm	163rpm	149rpm	138rpm	
80 [21.05]	113 [1000]	277 [2451]	451 [3991]	621 [5496]	786 [6956]	899 [7956]	
	Max Cont.	192rpm	191rpm	188rpm	174rpm	158rpm	144rpm
90 [23.68]	90 [796]	256 [2266]	433 [3832]	595 [5266]	767 [6788]	881 [7797]	
Max Int.	220rpm	220rpm	215rpm	202rpm	183rpm	165rpm	



Flow Data 流量参数

GH500		502.4cm ³ /rev(30.7in ³ /rev)				最高连续 Max Cont.	最高断续 Max Int.
压力 Pressure bar [psi→]		25.8 [368]	51.7 [738]	87.8 [1254]	102.9 [1470]	128.8 [1840]	164.9 [2355]
Flow 流量	l/min [gpm↓]	扭矩 N m [lb-in] 转速 Torque N m [lb-in] Speed Specification					
	5 [1.32]	165 [1460]	317 [2805]	516 [4567]			
		11rpm	11rpm	8rpm			
	10 [2.65]	178 [1575]	335 [2965]	555 [4912]	669 [5921]	791 [7000]	969 [8576]
		20rpm	19rpm	17rpm	15rpm	13rpm	9rpm
	20 [5.26]	177 [1566]	331 [2929]	559 [4947]	673 [5956]	779 [6894]	988 [8744]
		42rpm	42rpm	41rpm	38rpm	36rpm	29rpm
	30 [7.9]	172 [1522]	320 [2832]	553 [4894]	663 [5867]	792 [7009]	983 [8699]
		64rpm	63rpm	61rpm	57rpm	53rpm	47rpm
	40 [10.5]	163 [1443]	309 [2735]	541 [4788]	654 [5788]	783 [6930]	971 [8593]
		85rpm	85rpm	83rpm	79rpm	75rpm	67rpm
	50 [13.15]	146 [1292]	240 [2120]	523 [4628]	635 [5620]	768 [6797]	954 [8443]
		103rpm	103rpm	103rpm	97rpm	93rpm	85rpm
	60 [15.8]	121 [1071]	275 [2434]	502 [4443]	614 [5434]	747 [6611]	934 [8266]
		124rpm	124rpm	123rpm	117rpm	113rpm	103rpm
	70 [18.4]	97 [858]	256 [2266]	482 [4266]	597 [5283]	729 [6452]	917 [8115]
148rpm		148rpm	148rpm	140rpm	134rpm	122rpm	
75 [19.75]	79 [699]	240 [2124]	469 [4151]	582 [5151]	714 [6319]	902 [7983]	
	155rpm	155rpm	155rpm	152rpm	144rpm	130rpm	
80 [21.05]	60 [531]	226 [2000]	453 [4009]	570 [5044]	701 [6204]	884 [7823]	
	Max Cont.	166rpm	166rpm	166rpm	159rpm	153rpm	139rpm
90 [23.68]	34 [301]	201 [1779]	421 [3726]	550 [4868]	673 [5956]	869 [7691]	
	Max Int.	166rpm	165rpm	164rpm	157rpm	156rpm	155rpm

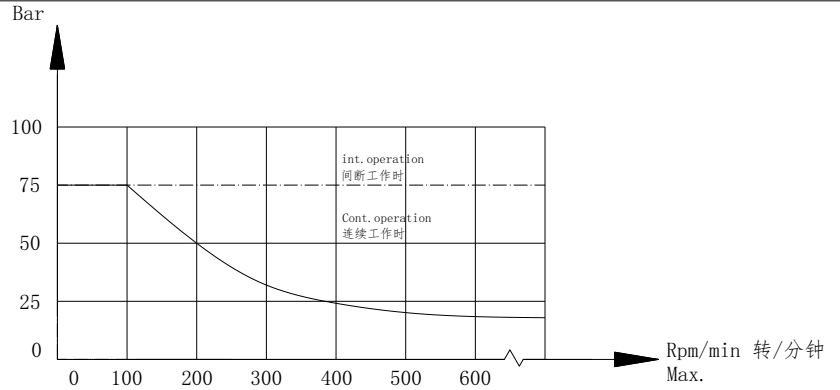
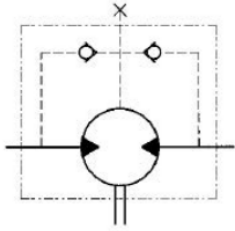
Technical Data 技术数据

Hydraulic orbit Motors GH

Permissible shaft seal pressure

GH系列摆线液压马达

输出轴密封圈允许承受的压力



In applications without drain line, output shaft seal exceeds a bit of the pressure in the return line. When applications use the drain line, the pressure of output shaft seal equals the pressure in drain line.

在无外卸油管的使用中，输出轴密封圈上的压力微高于回油管路中的压力。当使用外卸油管时，输出轴密封圈上的压力则与外泄油管路中的压力相同。

Case Drain

泄油口：

In applications without a motor drain line, the pressure exerted on the shaft seal is marginally in excess of the return line pressure. When the Drain line is used, the pressure exerted on the shaft seal is equal to the return line pressure.

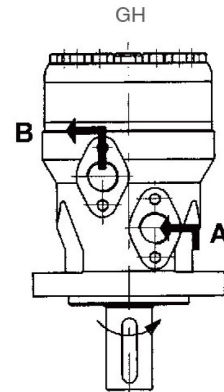
在没有使用排油管的应用中，施加在轴封上的压力略高于回油管压力。使用排油管时，施加在轴封上的压力等于回油管压力。

Standard direction of shaft rotation: Standard

轴旋转的标准方向：标准

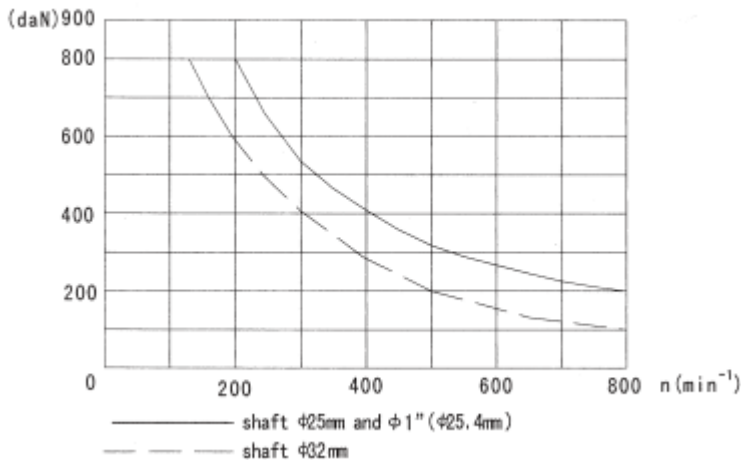
When facing shaft end of motor, shaft to rotate: Clockwise when port "A" is pressurized. Counter-clockwise port "B" is pressurized.

当面对电动机的轴端时，轴旋转：当端口“A”增压时，顺时针方向旋转。当端口“B”增压时，逆时针方向旋转。

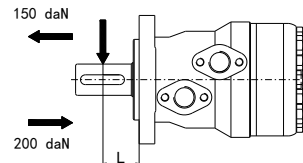


Axial and Radial forces

轴向力和径向力

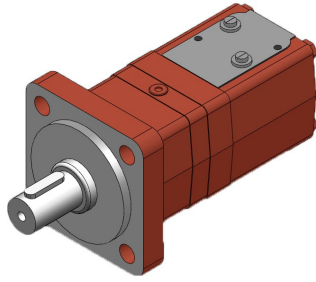


$$Fr = \frac{800}{n} * \frac{2500}{95 + L}$$



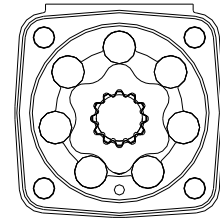
Fr =Radial Force (daN) Fr =径向力 (daN)
 L =Distance (mm) L =距离 (mm)
 n =Speed (rpm) n =转速 (rpm)
 Rhomb-flange L=30mm 菱形法兰 L=30mm
 Square-flange L=24mm 方形法兰 L=24mm

General 概述



APPLICATION 应用

- ◇ Conveyors 输送机械
- ◇ Road building machines 铺路机
- ◇ Metal working machines 金属加工机械
- ◇ Special vehicle etc. 特殊车辆等
- ◇ Agricultural machines 农用机械
- ◇ Food industries 食品工业
- ◇ Mining machines 矿山机械



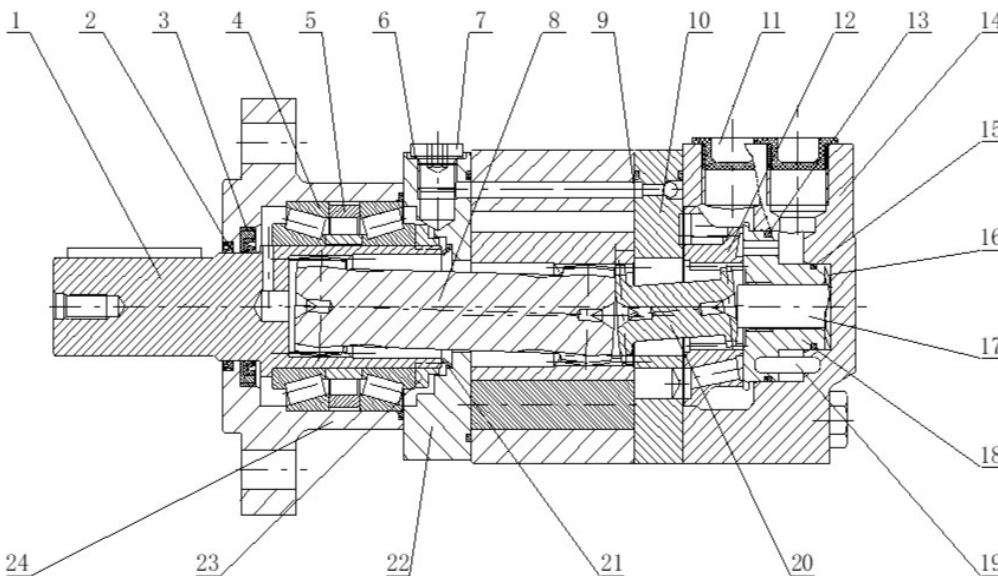
OPTIONS 可选功能

- ◇ Flange and wheel mount 法兰和圆形安装
- ◇ Short motor 短马达
- ◇ Motor with drum brake 马达带后制动鼓
- ◇ Tachometer connection 转速器接头
- ◇ Speed sensing 速度传感
- ◇ Side and rear ports 侧面和后面油口
- ◇ Shafts-straight, splined and tapered 轴伸-平键, 花键, 锥键
- ◇ Shaft seal for high and low pressure 轴油封可适用于高压和低压
- ◇ Metric and BSPP ports 公制和BSPP油口
- ◇ Other special features 其他功能

- ◇ Disc distribution flow 盘配流

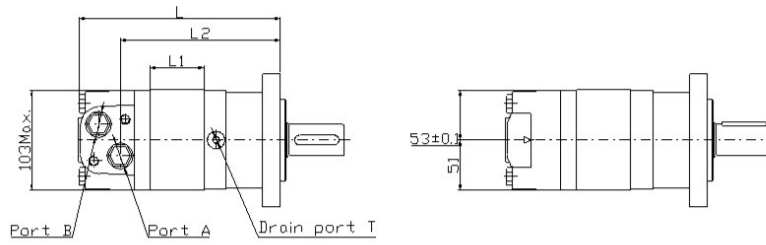
技术指标

型号 Model		GS80	GS100	GS125	GS160	GS200	GS250	GS315	GS400	GS475
排量 Disp.	in ³ /rev	4.91	6.1	7.67	9.74	12.2	15.25	19.21	24.22	28.95
	cm ³ /rev	80.5	100	125.7	159.7	200	250	314.9	397	474.6
最高转速 Max Speed rpm	连续 cont.	810	750	600	470	375	300	240	190	160
	断续 int.	1000	900	720	560	450	360	290	230	190
最大扭矩 Max Torque N m [lb-in]	连续 cont.	225 [1991]	290 [2566]	365 [3230]	485 [4292]	586 [5185]	708 [6265]	880 [7787]	880 [7786]	910 [8053]
	断续 int.	250 [2212]	320 [2832]	400 [3540]	540 [4778]	645 [5707]	807 [7142]	960 [8495]	960 [8495]	960 [8495]
最大压力差 Max Dif. bar [psi]	连续 cont.	208 [2973]	208 [2973]	208 [2973]	213 [3045]	213 [3045]	203 [2900]	203 [2900]	162 [2320]	142 [2030]
	断续 int.	229 [3265]	229 [3265]	229 [3265]	229 [3265]	229 [3265]	229 [3265]	229 [3265]	179 [2563]	152 [2175]
最大流量 Max Flow l/min [gpm]	连续 cont.	65 [17.1]	75 [19.81]	75 [19.81]	75 [19.81]	75 [19.81]	75 [19.81]	75 [19.81]	75 [19.81]	75 [19.81]
	断续 int.	80 [21.13]	90 [23.77]	90 [23.77]	90 [23.77]	90 [23.77]	90 [23.77]	90 [23.77]	90 [23.77]	90 [23.77]
重量 Weight kg [lbs]		10.7 [23.7]	10.8 [24.1]	11.1 [24.8]	11.3 [25]	10.4 [26.2]	12.3 [27.4]	13.0 [29.0]	13.9 [31.0]	14.8 [32.8]



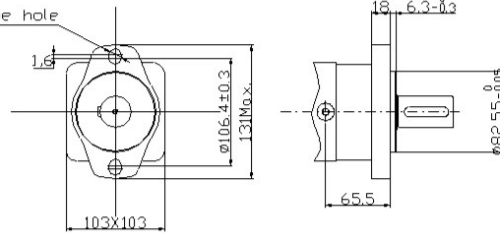
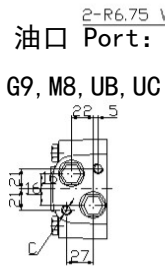
1. Output Shaft 输出轴
2. Dust Deal 防尘密封
3. Shaft Seal 轴封
4. Roller Bearing 滚子轴承
5. Bearing Spacer 轴承垫片
6. Seal Washer 密封垫圈
7. Case Drain Plug 外壳排水塞
8. Cardan Joint 万向节
9. Pin 销
10. Timing Plate 计时板
11. Shipping Plug 运输插头
12. Distributor Plate 分配板
13. O-ring O型圈
14. Rear Housing 后壳
15. O-ring O型圈
16. Balancer Spring 平衡弹簧
17. Spacer 垫片
18. Balance Plate 平衡板
19. Pin 销
20. Distributor Drive Link 配电驱动链接
21. Oil Control Ring 控油环
22. Drain Manifold 卸油管
23. Bearing Nut 轴承螺母
24. Shaft Housing 轴箱

Dimensions and Mounting Data 尺寸和安装参数

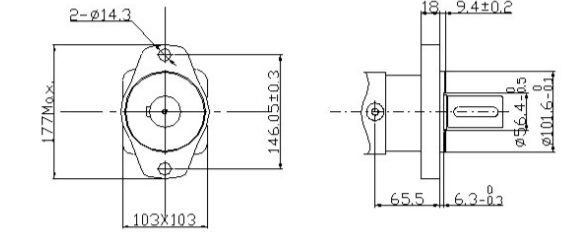


法兰 Flange A7

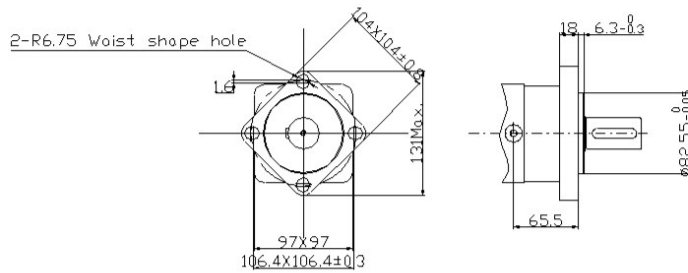
法兰 Flange AA



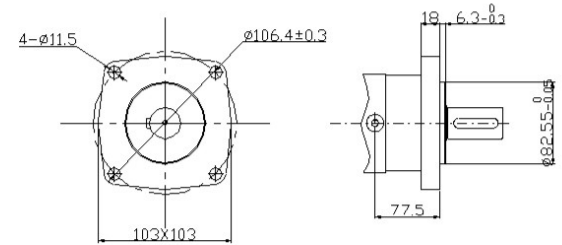
法兰 Flange H3



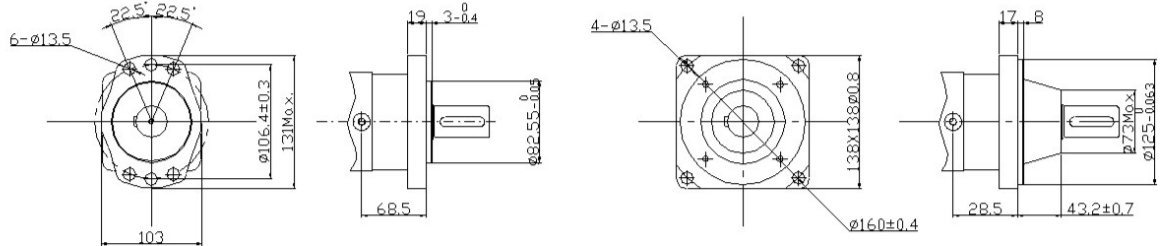
法兰 Flange H1



法兰 Flange A9



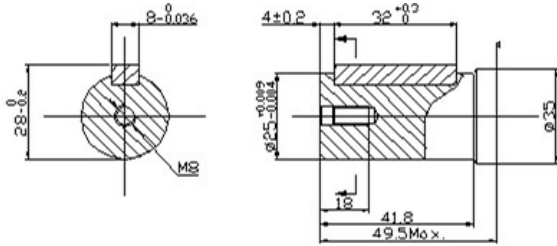
法兰 Flange W1



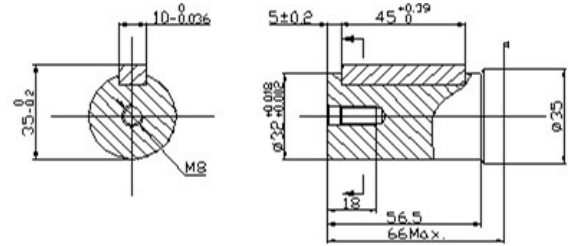
Model 型号	L	L1	L2
GS80	170	16	126.5
GS100	174	20	130.5
GS125	179	25	135.5
GS160	181	27	137.5
GS200	188	34	144.5
GS250	196	42	152.5
GS315	208	54	164.5
GS400	223	69	179.5
GS475	237	83	193.5

Port 油口	G9 (Depth)	M8 (Depth)	UB (Depth)	UC (Depth)
	深度	深度	深度	深度
P(A,B)	G1/2 (15)	M22x1.5 (15)	7/8-14 O-ring (17)	1/2-14NPTF (15)
T	G1/4 (12)	M14x1.5 (12)	7/16-20UNF (12)	7/16-20UNF (12)
C	2-M10 (13)	2-M10 (13)	2-3/8-16UNC (13)	2-3/8-16UNC (13)

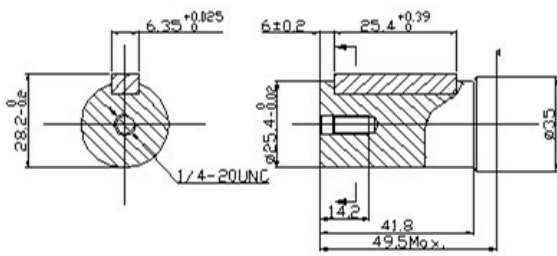
GS Shaft Extension Dimensions Data GS系列轴伸尺寸参数



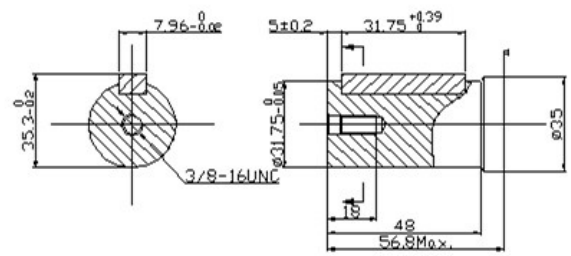
Shaft S1: Cylindrical shaft $\varnothing 25$
Parallel key 8x7x32
S1轴: 圆柱轴 $\varnothing 25$
平键 8x7x32



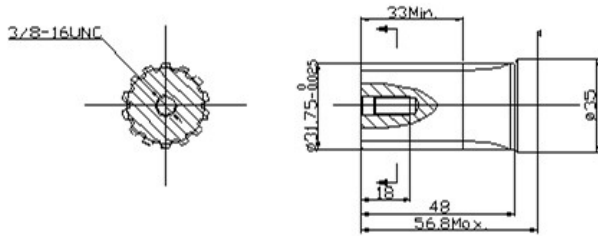
Shaft S4: Cylindrical shaft $\varnothing 32$
Parallel key 10x8x45
S4轴: 圆柱轴 $\varnothing 32$
平键 10x8x45



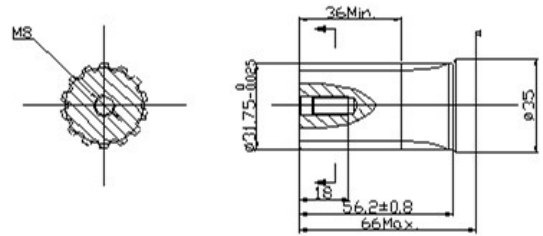
Shaft S8: Cylindrical shaft $\varnothing 25.4$
Parallel key 6.35x6.35x25.4
S8轴: 圆柱轴 $\varnothing 25.4$
平键 6.35x6.35x25.4



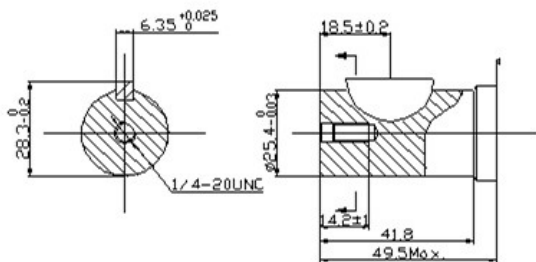
Shaft SG: Cylindrical shaft $\varnothing 31.75$
Parallel key 7.96x7.96x31.75
SG轴: 圆柱轴 $\varnothing 31.75$
平键 7.96x7.96x31.75



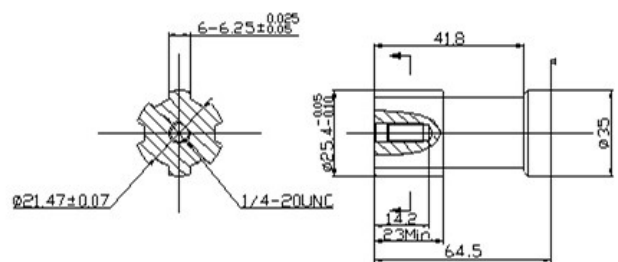
Shaft R2: Splined 14-DP12/24
R2轴: 花键14-DP12/24



Shaft R3: Splined 14-DP12/24
R3轴: 花键14-DP12/24

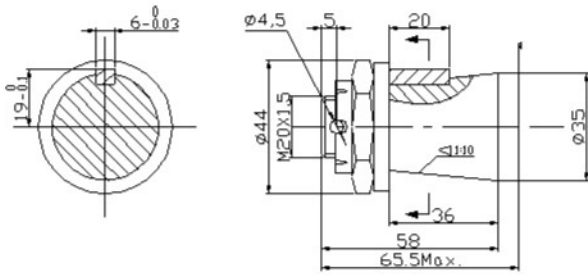


Shaft S6: Cylindrical shaft $\varnothing 25.4$
Woodruff key $\varnothing 25.4 \times 6.35$
S6轴: 圆柱轴 $\varnothing 25.4$
半圆键 $\varnothing 25.4 \times 6.35$

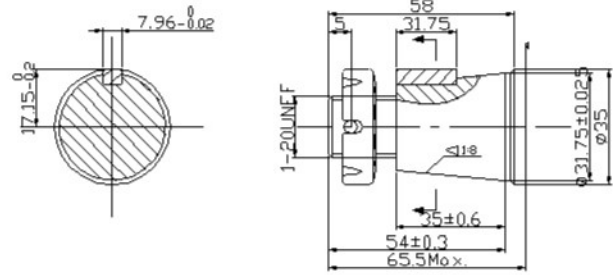


Shaft R8: Splined SAE 6B
R8轴: 花键SAE 6B

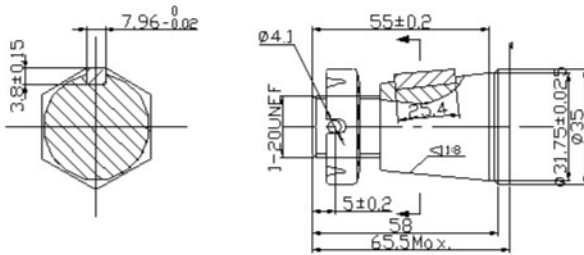
GS Shaft Extension Dimensions Data GS系列轴伸尺寸参数



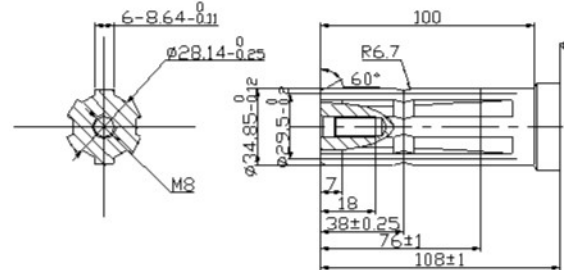
Shaft T4: Tapered shaft $\varnothing 35$
Parallel key B6x6x20
T4轴: 锥轴 $\varnothing 35$
平键 B6x6x20



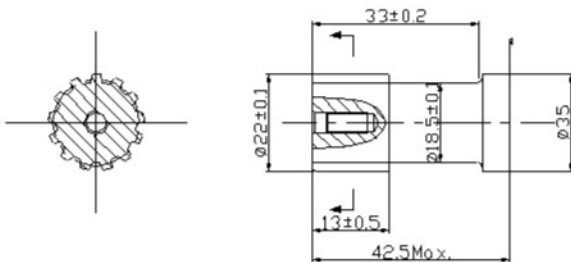
Shaft T5: Tapered shaft $\varnothing 31.75$
Parallel key 7.96x7.96x31.75
Tightening torque: 200±10Nm
T5轴: 锥轴 $\varnothing 31.75$
平键 7.96x7.96x31.75
螺母拧紧力矩: 200±10Nm



Shaft T2: Tapered shaft $\varnothing 31.75$
Parallel key 7.96x7.96x25.4
Tightening torque: 200±10Nm
T2轴: 锥轴 $\varnothing 31.75$
平键 7.96x7.96x25.4
螺母拧紧力矩: 200±10Nm



Shaft R7: Splined 6-34.85x28.14x8.64
R7轴: 花键6-34.85x28.14x8.64



Shaft R5: Splined 13-DP16/32
R5轴: 花键13-DP16/32



GS Shaft Extension Dimensions Data GS系列轴伸尺寸参数

Ordering Example:		Model	Displacement	Flange	Drive shaft	Ports	Other functions
		GS	80	A7	C1	G9	ACA
Model	Disp.	Flange		Drive shaft		Ports	
GS	80	A7=2-∅13.5 rhomb flange ∅106.4, pilot ∅82.5x6.3		C1=Cardan shaft 12-DP12/24		G9=G1/2 manifold mount 2xM10, G1/4 M8=M22x1.5 manifold mount 2xM10, M14x1.5 UB=7/8-14UNF 0-ring manifold 2x3/8-16UNC, 7/16-20UNF UC=1/2-14NPTF manifold 2x3/8-16UNC, 7/16-20UNF	
	100	A9=6-∅13.5 rhomb flange ∅106.4, pilot ∅82.5x2.6		S4=Shaft ∅32, parallel key 10x8x45			
	125	AA=2-∅14.3 rhomb flange ∅146.05, pilot ∅101.6x9.4		S8=Shaft ∅25.4, parallel key 6.35x6.35x25.4			
	160	B1=4-∅11 circle flange ∅125, pilot ∅100x6		SG=Shaft ∅31.75, parallel key 7.96x7.96x31.75			
	200	H3=4-∅13.5 square flange ∅106.4, pilot ∅82.5x6.3		R2=Shaft ∅31.75, splined tooth 14-DP12/24			
	250	H1=4-∅11.5 square flange ∅106.4, pilot ∅82.5x6.3		R3=Long Shaft ∅31.75, splined tooth 14-DP12/25			
	315	H2=2-∅13.5 rhomb flange ∅127, pilot ∅101.6x6.3		R7=Shaft ∅34.85, splined tooth 6-34.85x28.14x8.64			
	400	W1=2-∅13.5 wheel flange ∅160, pilot ∅125x8		T4=Tapered Shaft ∅35, parallel key B6x6x20			
	475			T5=Tapered Shaft ∅31.75, parallel key 7.96x7.96x31.75			
					R8=Shaft ∅25.4, parallel key SAE 6B		
				R5=Shaft ∅22, splined tooth 13-DP16/32			

Rotation direction	Paint	Unusually function
A=Standard R=Opposite	A=No paint B=Blue C=Black S=Silver grey	A=Standard N=Big radial force D=No case drain F=Free running L=Low speed V=High temperature S=Low temperature



GS Shaft Extension Dimensions Data GS系列轴伸尺寸参数

订购示例:		型号	排量	法兰	传动轴	油口	其他功能
		GS	80	A7	C1	G9	ACA
型号	排量	法兰		传动轴		油口	
GS	80	A7=2-∅13.5菱形法兰∅106.4, 止口 ∅82.5x6.3		C1=万向轴 12-DP12/24		G9=G1/2 集成块安装2xM10, G1/4	
	100	A9=6-∅13.5菱形法兰∅106.4, 止口 ∅82.5x2.6		S4=轴 ∅32, 平键 10x8x45		M8=M22x1.5 集成块安装 2xM10, M14x1.5	
	125	AA=2-∅14.3菱形法兰∅146.05, 止口 ∅101.6x9.4		S8=轴 ∅25.4, 平键 6.35x6.35x25.4		UB=7/8-14UNF 0型圈集成块安装 2x3/8-	
	160	B1=4-∅11圆形法兰∅125, 止口 ∅100x6		SG=轴 ∅31.75, 平键 7.96x7.96x31.75		UC=1/2-14NPTF 集成块安装 2x3/8-	
	200	H3=4-∅13.5方形法兰∅106.4, 止口 ∅82.5x6.3		R2=轴 ∅31.75, 花键齿 14-DP12/24		16UNC, 7/16-20UNF	
	250	H1=4-∅11.5方形法兰∅106.4, 止口 ∅82.5x6.3		R3=长轴 ∅31.75, 花键齿 14-DP12/25		16UNC, 7/16-20UNF	
	315	H2=2-∅13.5菱形法兰∅127, 止口 ∅101.6x6.3		R7=轴 ∅34.85, 花键齿 6- 34.85x28.14x8.64			
	400	W1=2-∅13.5轮型法兰∅160, 止口 ∅125x8		T4=锥形轴 ∅35, 平键 B6x6x20			
	475			T5=锥形轴 ∅31.75, 平键 7.96x7.96x31.75			
					R8=轴 ∅25.4, 平键 SAE 6B		
				R5=轴 ∅22, 花键齿 13-DP16/32			

旋转方向	喷漆	不常用的功能
A=标准 R=反向	A=无喷漆 B=蓝色 C=黑色 S=银灰色	A=标准 N=大径向力 D=无泄油口 F=自由转 L=低速 V=高温 S=低温



Flow Data 流量参数

GS80		80.6cm ³ /rev(4.92in ³ /rev)					最高连续 Max Cont.	最高断续 Max Int.	
压力 Pressure bar [psi→]		36.1 [515]	72.1 [1030]	108.2 [1546]	144.2 [2060]	180.3 [2576]	208.1 [2973]	231.6 [3308]	
Flow 流量	l/min [gpm↓]	扭矩 N m [lb-in] 转速 Torque N m [lb-in] Speed Specification							
	15 [3.96]	35 [310]	80 [708]	120 [1062]	158 [1398]	195 [1726]	228 [2017]	249 [2204]	
		180rpm	174rpm	168rpm	164rpm	158rpm	151rpm	143rpm	
	30 [7.93]	35 [310]	80 [708]	120 [1062]	158 [1398]	195 [1726]	232 [2053]	260 [2301]	
		362rpm	352rpm	346rpm	338rpm	330rpm	322rpm	310rpm	
	40 [10.57]	35 [310]	79 [699]	119 [1053]	155 [1372]	193 [1708]	227 [2009]	250 [2213]	
		487rpm	480rpm	468rpm	457rpm	446rpm	438rpm	425rpm	
	50 [13.21]	30 [266]	77 [681]	117 [1035]	153 [1354]	192 [1699]	224 [1982]	248 [2195]	
		612rpm	603rpm	592rpm	581rpm	572rpm	558rpm	542rpm	
	60 [15.85]	28 [248]	77 [681]	117 [1035]	153 [1354]	192 [1699]	224 [1982]	243 [2150]	
735rpm		726rpm	718rpm	703rpm	687rpm	673rpm	646rpm		
65 [17.17]	26 [230]	75 [664]	116 [1026]	151 [1336]	188 [1663]	217 [1920]	236 [2088]		
	Max Cont.	794rpm	786rpm	773rpm	760rpm	744rpm	722rpm	706rpm	
80 [21.13]	25 [217]	72 [637]	109 [964]	142 [1256]	176 [1557]	206 [1823]	227 [2009]		
Max Int.	981rpm	968rpm	955rpm	925rpm	893rpm	870rpm	832rpm		
GS100		100.8cm ³ /rev(6.15in ³ /rev)					最高连续 Max Cont.	最高断续 Max Int.	
压力 Pressure bar [psi→]		36.1 [515]	72.1 [1030]	108.2 [1546]	144.2 [2060]	180.3 [2576]	208.1 [2973]	231.6 [3308]	
Flow 流量	l/min [gpm↓]	扭矩 N m [lb-in] 转速 Torque N m [lb-in] Speed Specification							
	15 [3.96]	48 [425]	95 [841]	150 [1328]	200 [1770]	250 [2213]	282 [2495]	310 [2744]	
		146rpm	144rpm	139rpm	135rpm	130rpm	120rpm	105rpm	
	30 [7.93]	45 [398]	94 [832]	146 [1292]	198 [1752]	250 [2213]	290 [2566]	317 [2805]	
		291rpm	289rpm	278rpm	274rpm	269rpm	258rpm	242rpm	
	40 [10.57]	43 [381]	89 [788]	169 [1492]	196 [1735]	248 [2195]	288 [2549]	316 [2797]	
		387rpm	384rpm	374rpm	359rpm	350rpm	335rpm	320rpm	
	50 [13.21]	40 [354]	88 [779]	135 [1195]	194 [1717]	247 [2186]	286 [2531]	315 [2788]	
		486rpm	483rpm	473rpm	462rpm	450rpm	430rpm	420rpm	
	60 [15.85]	37 [327]	88 [779]	132 [1168]	187 [1657]	244 [2159]	283 [2504]	312 [2761]	
588rpm		584rpm	574rpm	562rpm	550rpm	538rpm	520rpm		
75 [19.81]	35 [310]	80 [708]	130 [1151]	180 [1593]	240 [2124]	279 [2469]	310 [2744]		
	Max Cont.	740rpm	735rpm	720rpm	705rpm	696rpm	676rpm	653rpm	
90 [23.77]	30 [266]	75 [664]	124 [1097]	170 [1505]	236 [2089]	271 [2398]	303 [2682]		
Max Int.	850rpm	840rpm	810rpm	787rpm	770rpm	750rpm	747rpm		
GS125		125cm ³ /rev(7.63in ³ /rev)					最高连续 Max Cont.	最高断续 Max Int.	
压力 Pressure bar [psi→]		36.1 [515]	72.1 [1030]	108.2 [1546]	144.2 [2060]	180.3 [2576]	208.1 [2973]	231.6 [3308]	
Flow 流量	l/min [gpm↓]	扭矩 (lb-in) 转速 Torque (lb-in) Speed Specification							
	15 [3.96]	55 [487]	120 [1062]	176 [1558]	245 [2168]	309 [2735]	345 [3053]	375 [3319]	
		115rpm	113rpm	110rpm	104rpm	98rpm	90rpm	84rpm	
	30 [7.93]	55 [487]	120 [1062]	175 [1549]	250 [2213]	315 [2787]	364 [3221]	404 [3575]	
		231rpm	228rpm	223rpm	214rpm	202rpm	188rpm	172rpm	
	40 [10.57]	53 [469]	118 [1044]	178 [1575]	250 [2213]	315 [2787]	364 [3221]	403 [3566]	
		312rpm	299rpm	290rpm	289rpm	278rpm	262rpm	235rpm	
	50 [13.21]	50 [443]	115 [1020]	176 [1558]	248 [2195]	315 [2787]	362 [3203]	397 [3513]	
		391rpm	386rpm	378rpm	365rpm	352rpm	339rpm	308rpm	
	60 [15.85]	45 [398]	113 [1000]	171 [1513]	241 [2133]	308 [2726]	358 [3168]	397 [3513]	
469rpm		461rpm	450rpm	437rpm	425rpm	400rpm	372rpm		
75 [19.81]	45 [398]	110 [974]	167 [1478]	308 [2724]	306 [2708]	352 [3115]	389 [3442]		
	Max Cont.	588rpm	574rpm	560rpm	544rpm	526rpm	505rpm	481rpm	
90 [23.77]	40 [354]	106 [938]	162 [1434]	237 [2097]	301 [2664]	343 [3035]	378 [3345]		
Max Int.	710rpm	696rpm	680rpm	661rpm	646rpm	628rpm	610rpm		



Flow Data 流量参数

GS160		154cm ³ /rev(9.39in ³ /rev)					最高连续 Max Cont.	最高断续 Max Int.
压力 Pressure bar [psi→]		36.1 [515]	72.1 [1030]	108.2 [1546]	144.2 [2060]	180.3 [2576]	213.2 [3045]	231.6 [3308]
Flow 流量	l/min [gpm↓]	扭矩 N m [lb-in] 转速 Torque N m [lb-in] Speed Specification						
	15 [3.96]	70 [620]	142 [1257]	213 [1904]	298 [2639]	372 [3295]	435 [3852]	476 [4216]
		93rpm	91rpm	89rpm	85rpm	80rpm	76rpm	58rpm
	30 [7.93]	73 [646]	151 [1337]	225 [1992]	312 [2763]	382 [3383]	456 [4038]	494 [4357]
		189rpm	187rpm	181rpm	176rpm	170rpm	162rpm	153rpm
	40 [10.57]	75 [664]	152 [1346]	228 [2019]	314 [2781]	383 [3392]	454 [4021]	488 [4322]
		252rpm	250rpm	246rpm	239rpm	234rpm	228rpm	212rpm
	50 [13.21]	70 [620]	148 [1310]	225 [1992]	305 [2701]	372 [3294]	445 [3941]	480 [4251]
		313rpm	310rpm	306rpm	298rpm	293rpm	285rpm	272rpm
	60 [15.85]	65 [575]	143 [1266]	218 [1930]	296 [2621]	370 [3277]	442 [3914]	480 [4251]
378rpm		376rpm	370rpm	362rpm	353rpm	346rpm	332rpm	
75 [19.81]	62 [549]	140 [1239]	211 [1868]	291 [2577]	365 [3232]	439 [3888]	475 [4207]	
Max Cont.	475rpm	469rpm	461rpm	450rpm	441rpm	432rpm	414rpm	
90 [23.77]	59 [522]	131 [1160]	202 [1789]	286 [2533]	357 [3159]	425 [3764]	460 [4074]	
Max Int.	567rpm	561rpm	554rpm	543rpm	532rpm	520rpm	509rpm	
GS200		194cm ³ /rev(11.8in ³ /rev)					最高连续 Max Cont.	最高断续 Max Int.
压力 Pressure bar [psi→]		36.1 [515]	72.1 [1030]	108.2 [1546]	144.2 [2060]	180.3 [2576]	213.2 [3045]	231.6 [3308]
Flow 流量	l/min [gpm↓]	扭矩 N m [lb-in] 转速 Torque N m [lb-in] Speed Specification						
	15 [3.96]	87 [771]	179 [1585]	309 [2737]	371 [3286]	471 [4171]	562 [4977]	611 [5403]
		74rpm	73rpm	71rpm	68rpm	64rpm	60rpm	48rpm
	30 [7.93]	91 [806]	190 [1682]	288 [2550]	386 [3418]	489 [4331]	572 [5066]	618 [5473]
		150rpm	148rpm	143rpm	140rpm	134rpm	128rpm	119rpm
	40 [10.57]	94 [832]	193 [1709]	296 [2621]	394 [3489]	498 [4410]	584 [5172]	645 [5712]
		198rpm	195rpm	192rpm	188rpm	183rpm	178rpm	167rpm
	50 [13.21]	90 [797]	191 [1691]	292 [2586]	389 [3445]	493 [4366]	580 [5137]	634 [5615]
		248rpm	246rpm	241rpm	236rpm	230rpm	223rpm	212rpm
	60 [15.85]	85 [752]	185 [1638]	279 [2471]	382 [3383]	483 [4277]	575 [5092]	623 [5509]
300rpm		295rpm	288rpm	281rpm	273rpm	263rpm	251rpm	
75 [19.81]	78 [690]	176 [1558]	271 [2400]	370 [3277]	472 [4180]	561 [4968]	610 [5402]	
Max Cont.	374rpm	370rpm	364rpm	360rpm	352rpm	340rpm	331rpm	
90 [23.77]	68 [602]	163 [1443]	265 [2347]	361 [3197]	456 [4038]	545 [4827]	599 [5305]	
Max Int.	443rpm	440rpm	435rpm	428rpm	424rpm	413rpm	400rpm	
GS250		243cm ³ /rev(14.8in ³ /rev)					最高连续 Max Cont.	最高断续 Max Int.
压力 Pressure bar [psi→]		36.1 [515]	72.1 [1030]	108.2 [1546]	144.2 [2060]	180.3 [2576]	203.0 [2900]	231.6 [3308]
Flow 流量	l/min [gpm↓]	扭矩 N m [lb-in] 转速 Torque N m [lb-in] Speed Specification						
	15 [3.96]	110 [974]	231 [2045]	351 [3108]	462 [4091]	585 [5181]	682 [6031]	779 [6890]
		59rpm	58rpm	56rpm	53rpm	50rpm	46rpm	35rpm
	30 [7.93]	116 [1027]	236 [2090]	359 [3179]	475 [4207]	597 [5287]	700 [6199]	791 [6997]
		119rpm	117rpm	114rpm	108rpm	102rpm	92rpm	80rpm
	40 [10.57]	118 [1045]	241 [2134]	363 [3215]	480 [4251]	599 [5305]	707 [6253]	797 [7050]
		162rpm	159rpm	156rpm	150rpm	143rpm	134rpm	121rpm
	50 [13.21]	111 [983]	234 [2072]	352 [3117]	472 [4180]	591 [5234]	693 [6137]	789 [6979]
		203rpm	201rpm	197rpm	191rpm	182rpm	173rpm	158rpm
	60 [15.85]	105 [929]	220 [1947]	345 [3055]	462 [4091]	582 [5154]	686 [6067]	773 [6837]
244rpm		242rpm	237rpm	230rpm	220rpm	208rpm	194rpm	
75 [19.81]	95 [841]	214 [1895]	340 [3011]	454 [4021]	570 [5048]	671 [5934]	761 [6731]	
Max Cont.	303rpm	299rpm	294rpm	285rpm	272rpm	260rpm	244rpm	
90 [23.77]	90 [797]	209 [1851]	335 [2967]	447 [3959]	559 [4951]	658 [5819]	750 [6633]	
Max Int.	363rpm	359rpm	354rpm	348rpm	340rpm	328rpm	303rpm	



Flow Data 流量参数

GS315		311cm ³ /rev(18.9in ³ /rev)					最高连续 Max Cont.	最高断续 Max Int.	
压力 Pressure bar [psi→]		36.1 [515]	72.1 [1030]	108.2 [1546]	144.2 [2060]	177.7 [2538]	203 [2900]	231.6 [3308]	
Flow 流量	l/min [gpm↓]	扭矩 N m [lb-in] 转速 Torque N m [lb-in] Speed Specification							
	15 [3.96]	150 [1310]	304 [2692]	456 [4038]	613 [5429]	763 [6749]	880 [7785]	979 [8662]	
		48rpm	47rpm	45rpm	43rpm	41rpm	39rpm	27rpm	
	30 [7.93]	155 [1372]	314 [2781]	465 [4118]	636 [5624]	779 [6890]	885 [7829]	989 [8750]	
		95rpm	93rpm	91rpm	89rpm	86rpm	82rpm	67rpm	
	40 [10.57]	160 [1417]	310 [2843]	479 [4242]	651 [5757]	797 [7050]	907 [8024]	998 [8830]	
		127rpm	125rpm	121rpm	117rpm	115rpm	109rpm	91rpm	
	50 [13.21]	155 [1372]	314 [2781]	465 [4118]	638 [5650]	781 [6908]	887 [7847]	989 [8750]	
		159rpm	157rpm	153rpm	149rpm	145rpm	142rpm	128rpm	
	60 [15.85]	151 [1337]	306 [2710]	453 [4012]	620 [5491]	757 [6695]	887 [7847]	977 [8644]	
187rpm		185rpm	181rpm	176rpm	169rpm	157rpm	143rpm		
75 [19.81]	146 [1293]	300 [2657]	445 [3941]	613 [5429]	755 [6681]	875 [7743]	966 [8549]		
Max Cont.	238rpm	236rpm	232rpm	227rpm	224rpm	220rpm	196rpm		
90 [23.77]	135 [1194]	284 [2513]	436 [3858]	601 [5318]	740 [6549]	863 [7637]	952 [8425]		
Max Int.	286rpm	283rpm	278rpm	272rpm	265rpm	257rpm	232rpm		
GS400		394cm ³ /rev(24.04in ³ /rev)					最高连续 Max Cont.	最高断续 Max Int.	
压力 Pressure bar [psi→]		36.1 [515]	72.1 [1030]	108.2 [1546]	144.2 [2060]	164.8 [2354]	180.3 [2576]		
Flow 流量	l/min [gpm↓]	扭矩 N m [lb-in] 转速 Torque N m [lb-in] Speed Specification							
	15 [3.96]	186 [1646]	379 [3354]	578 [5115]	779 [6894]	896 [7930]	986 [8726]		
		37rpm	36rpm	35rpm	33rpm	31rpm	29rpm		
	30 [7.93]	190 [1681]	388 [3433]	590 [5221]	791 [7000]	905 [8009]	991 [8770]		
		75rpm	73rpm	71rpm	68rpm	65rpm	61rpm		
	40 [10.57]	195 [1725]	394 [3486]	569 [5035]	797 [7053]	912 [8071]	998 [8832]		
		99rpm	97rpm	95rpm	93rpm	90rpm	85rpm		
	50 [13.21]	191 [1690]	388 [3433]	587 [5194]	785 [6947]	904 [8000]	983 [8699]		
		125rpm	123rpm	118rpm	114rpm	109rpm	102rpm		
	60 [15.85]	186 [1646]	388 [3433]	587 [5194]	785 [6947]	904 [8000]	983 [8699]		
149rpm		146rpm	142rpm	137rpm	131rpm	122rpm			
75 [19.81]	181 [1601]	372 [3292]	576 [5097]	770 [6814]	891 [7885]	973 [8611]			
Max Cont.	187rpm	183rpm	177rpm	171rpm	164rpm	153rpm			
90 [23.77]	176 [1557]	367 [3247]	571 [5053]	766 [6779]	883 [7814]	965 [8540]			
Max Int.	226rpm	221rpm	214rpm	208rpm	199rpm	183rpm			
GS475		475cm ³ /rev(28.9in ³ /rev)					最高连续 Max Cont.	最高断续 Max Int.	
压力 Pressure bar [psi→]		36.1 [515]	72.1 [1030]	108.2 [1546]	144.2 [2060]	154.5 [2207]			
Flow 流量	(gpm↓)	扭矩 N m [lb-in] 转速 Torque N m [lb-in] Speed Specification							
	15 [3.96]	218 [1929]	439 [3885]	661 [5849]	892 [7894]	995 [8805]			
		30rpm	29rpm	28rpm	27rpm	25rpm			
	30 [7.93]	223 [1973]	450 [3982]	676 [5982]	910 [8053]	1002 [8867]			
		61rpm	60rpm	58rpm	56rpm	53rpm			
	40 [10.57]	228 [2017]	461 [4079]	689 [6097]	927 [8203]	1017 [9000]			
		82rpm	80rpm	77rpm	74rpm	68rpm			
	50 [13.21]	224 [1982]	456 [4035]	682 [6035]	920 [8142]	1008 [8920]			
		103rpm	101rpm	97rpm	92rpm	86rpm			
	60 [15.85]	220 [1947]	451 [3991]	677 [5991]	913 [8080]	998 [8832]			
123rpm		121rpm	118rpm	112rpm	105rpm				
75 [19.81]	212 [1876]	443 [3920]	664 [5876]	901 [7973]	980 [8673]				
Max Cont.	155rpm	153rpm	147rpm	140rpm	132rpm				
90 [23.77]	196 [1734]	421 [3725]	609 [5690]	877 [7761]	959 [8487]				
Max Int.	186rpm	184rpm	178rpm	170rpm	157rpm				

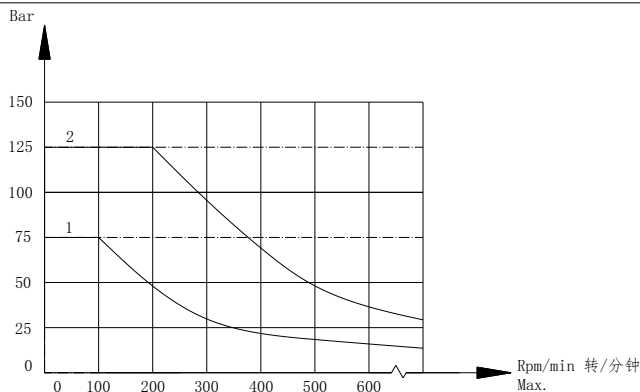
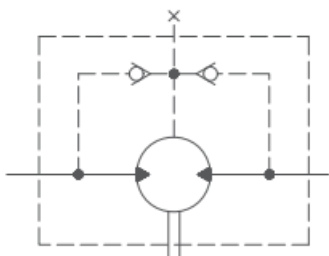
Technical Data 技术数据

Hydraulic orbit Motors GS

Permissible shaft seal pressure

GS系列摆线液压马达

输出轴密封圈允许承受的压力



In applications without drain line, output shaft seal exceeds a bit of the pressure in the return line. When applications use the drain line, the pressure of output shaft seal equals the pressure in drain line.

在外卸油管的使用中，输出轴密封圈上的压力微高于回油管路中的压力。当使用外卸油管时，输出轴密封圈上的压力则与外泄油管路中的压力相同。

Case Drain

泄油口：

In applications without a motor drain line, the pressure exerted on the shaft seal is marginally in excess of the return line pressure. When the Drain line is used, the pressure exerted on the shaft seal is equal to the return line pressure.

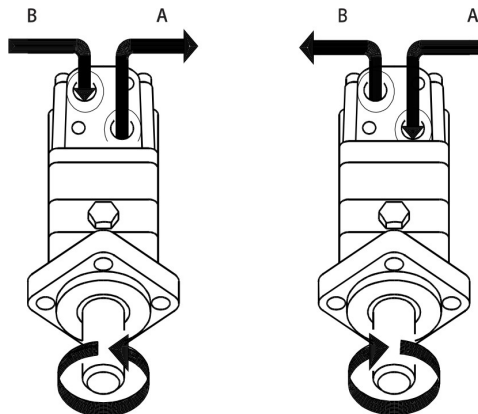
在没有使用排油管的应用中，施加在轴封上的压力略高于回油管压力。使用排油管时，施加在轴封上的压力等于回油管压力。

Standard direction of shaft rotation: Standard

轴旋转的标准方向：标准

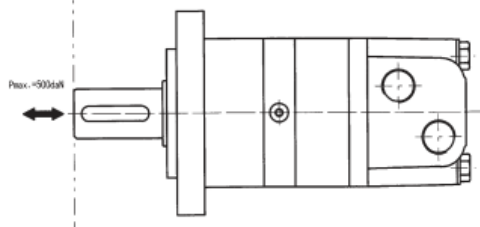
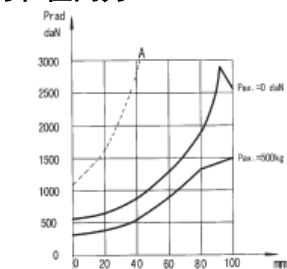
When facing shaft end of motor, shaft to rotate: Clockwise when port "A" is pressurized. Counter-clockwise port "B" is pressurized.

当面对电动机的轴端时，轴旋转：当端口“A”增压时，顺时针方向旋转。当端口“B”增压时，逆时针方向旋转。



Axial and Radial forces

轴向力和径向力



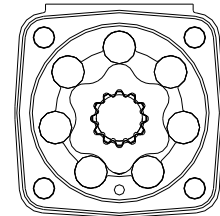
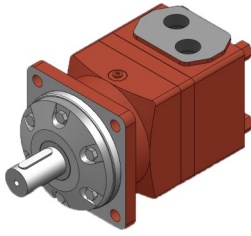
The output shaft runs in tapered bearings that permit high axial and radial forces. Curve "A" shows max radial shaft load, Any shaft loads exceeding the values quoted in the curve will involve a risk of breakage. The two other curves apply to a B10 bearing life of 3000 hours at 200 RPM.

输出轴允许在高轴向力和径向力的圆锥轴承中运行，曲线“A”显示最大径向轴负载，任何超过该曲线中引用值的轴负载都将有断裂的危险，另外两条曲线适用于B10在200 RPM下的使用寿命为3000小时。

General 概述

APPLICATION 应用

- ◇ Metal working machines 金属加工器械
- ◇ Agricultural machines 农用机械
- ◇ Road building machines 铺路机
- ◇ Mining machinery 开矿机
- ◇ Food industries 食品工业
- ◇ Special vehicles etc. 特殊设备
- ◇ Injection molding machines 注塑机
- ◇ Conveyors 输送机械



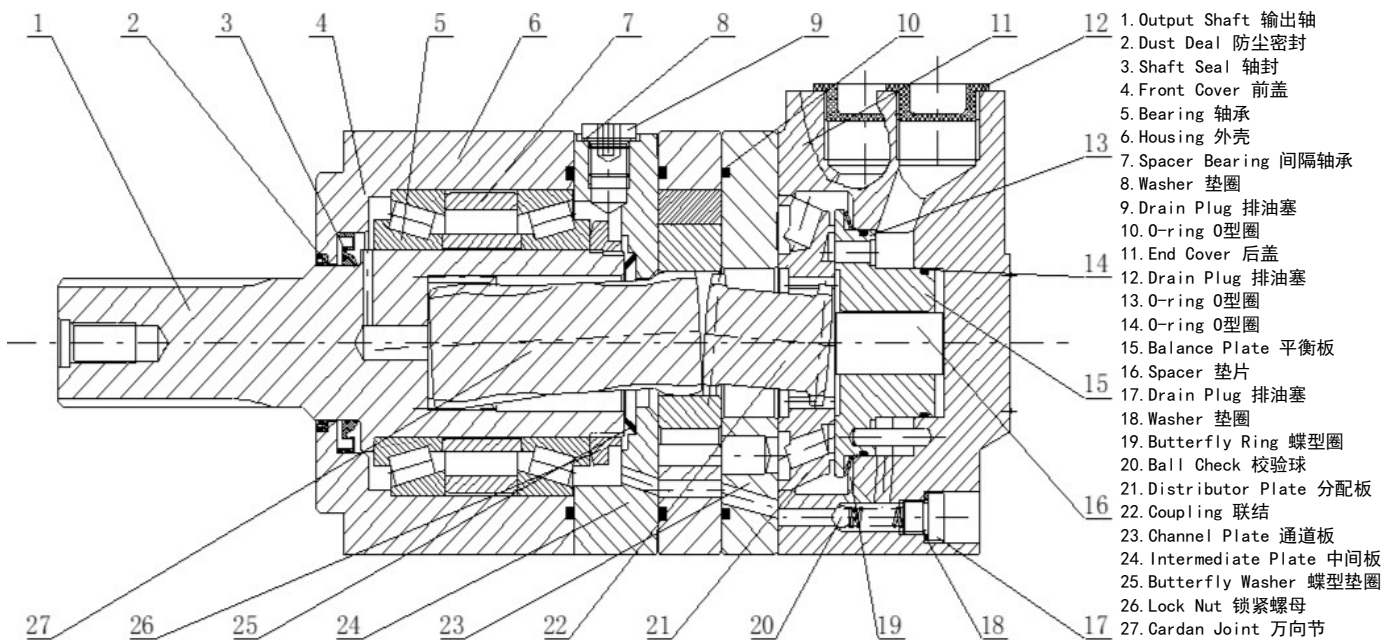
OPTIONS 可选功能

- ◇ Flange and wheel mount 法兰和圆形安装
- ◇ Short motor 短马达
- ◇ Motor with drum brake 马达带后制动鼓
- ◇ Tachometer connection 转速器接头
- ◇ Speed sensing 速度传感
- ◇ Side and rear ports 侧面和后面油口
- ◇ Shafts-straight, splined and tapered 轴伸-平键, 花键, 锥键
- ◇ Metric and BSPP ports 公制和BSPP油口
- ◇ Other special features 其他功能

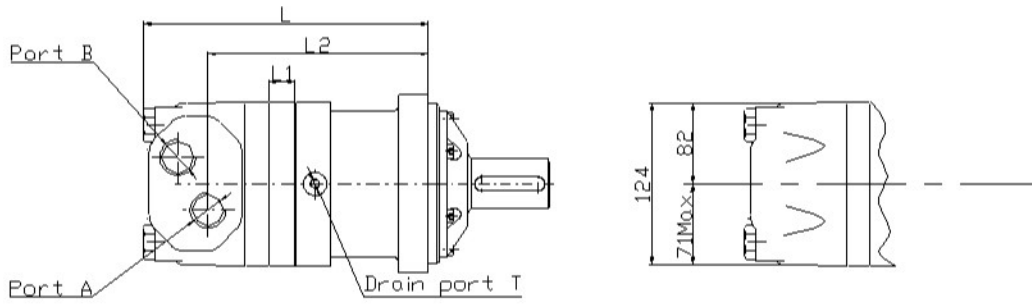
- ◇ Disc distribution flow 盘配流

技术指标

型号 Model		GT160	GT200	GT250	GT315	GT400	GT500	GT630	GT725
排量 Disp.	in ³ /rev	9.83	12.29	15.36	19.9	25.06	31.95	38.52	44.2
	cm ³ /rev	161.1	201.4	251.8	326.3	410.9	523.6	631.2	724.3
最高转速 Max Speed rpm	连续 cont.	622	620	496	382	304	238	197	172
	断续 int.	775	752	601	461	368	289	234	209
最大扭矩 Max Torque N m [lb-in]	连续 cont.	470 [4160]	590 [5220]	730 [6460]	950 [8410]	1080 [9560]	1220 [10800]	1300 [11500]	1270 [11240]
	断续 int.	560 [4960]	710 [6285]	880 [7790]	1140 [10090]	1260 [11150]	1370 [12125]	1480 [13100]	1470 [13010]
最大压力差 Max Dif. bar [psi]	连续 cont.	200 [2900]	200 [2900]	200 [2900]	200 [2900]	180 [2610]	160 [2320]	140 [2010]	120 [1740]
	断续 int.	240 [3480]	240 [3480]	240 [3480]	240 [3480]	210 [3050]	180 [2610]	160 [2320]	140 [2010]
最大流量 Max Flow l/min [gpm]	连续 cont.	100 [26]	125 [33]	125 [33]	125 [33]	125 [33]	125 [33]	125 [33]	125 [33]
	断续 int.	125 [33]	150 [39.6]	150 [39.6]	150 [39.6]	150 [39.6]	150 [39.6]	150 [39.6]	150 [39.6]
重量 Weight kg [lbs]		20 [44.1]	21.5 [47.4]	21 [46.3]	22 [48.5]	23 [50.7]	24 [52.9]	23.5 [51.8]	24.5 [54.0]

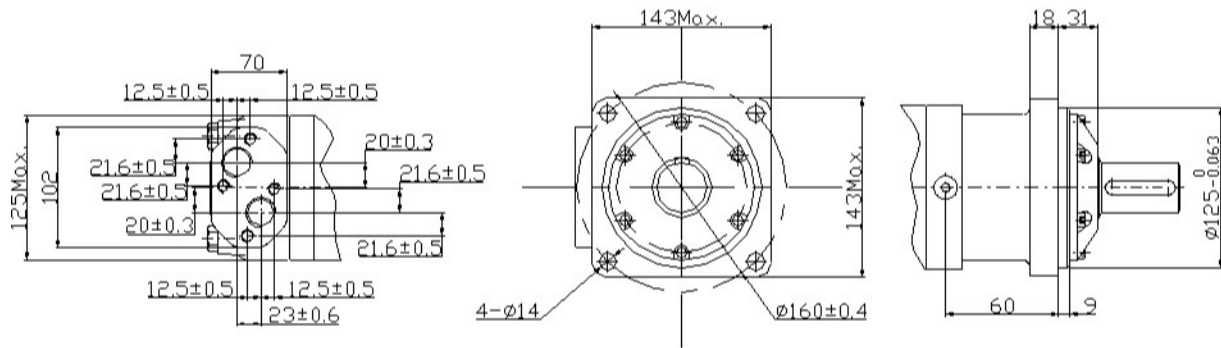


Dimensions and Mounting Data 尺寸和安装参数



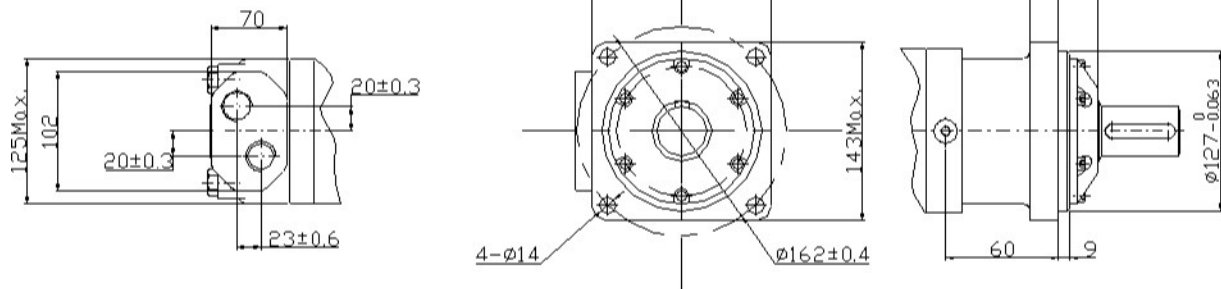
油口 Port: G3, M5

法兰 Flange H6

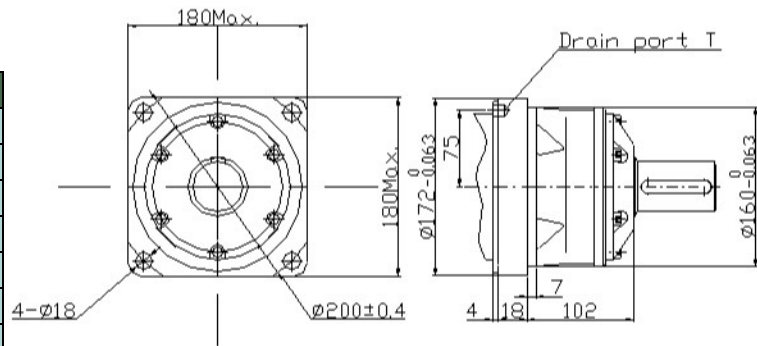


油口 Port: U4, G4, M9, U5

法兰 Flange H7



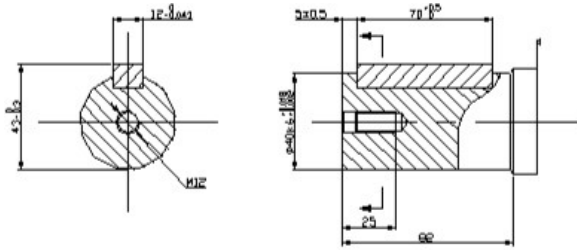
法兰 Flange W2



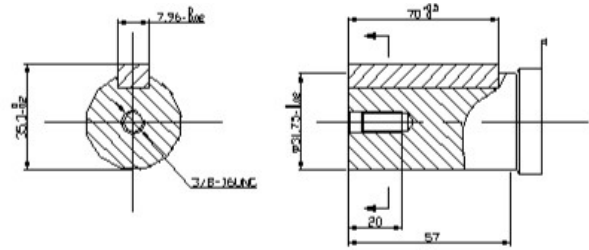
Model 型号	L	L1	L2
GT160	193	17	142.5
GT200	197	21	146.5
GT250	204	14	152.5
GT315	210	20	158.5
GT400	217	27	165.5
GT500	225	35	173.5
GT630	237	47	185.5
GT725	248	58	196.5

Port 油口	G3 (Depth)	M5 (Depth)	U4 (Depth)	G4 (Depth)	M9 (Depth)	U5 (Depth)
	深度	深度	深度	深度	深度	深度
P(A,B)	G3/4 (18)	M27x2 (18)	1-1/16-12UN (18)	G3/4 (18)	M27x2 (18)	1-1/16-12UN (18)
T	G1/4 (12)	M14x1.5 (12)	9/16-18UNF (12)	G1/4 (12)	M14x1.5 (12)	7/16-20UNF (12)
C	4-M10 (10)	4-M10 (10)	-	-	-	-

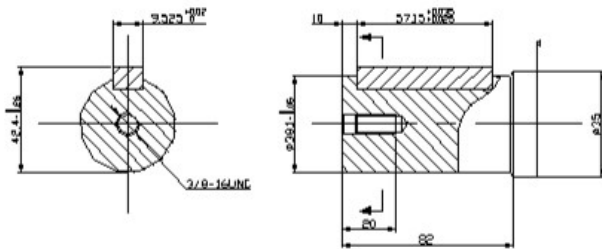
GT Shaft Extension Dimensions Data GT系列轴伸尺寸参数



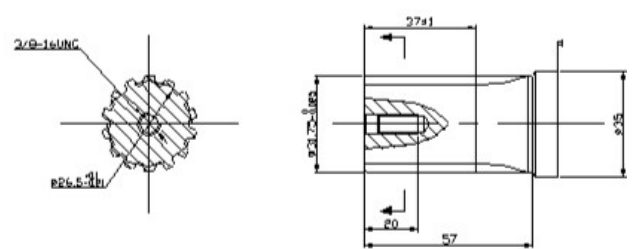
Shaft SK: Cylindrical shaft $\phi 40$
Parallel key 12x8x70
SK轴: 圆柱轴 $\phi 40$
平键 12x8x70



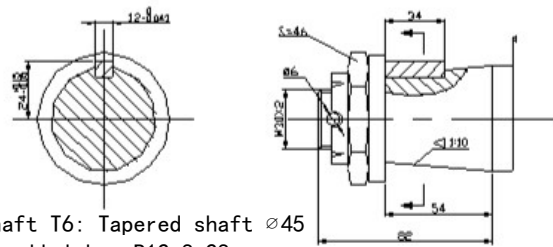
Shaft SM: Cylindrical shaft $\phi 31.75$
Parallel key 7.96x7.96x40
SM轴: 圆柱轴 $\phi 31.75$
平键 7.96x7.96x40



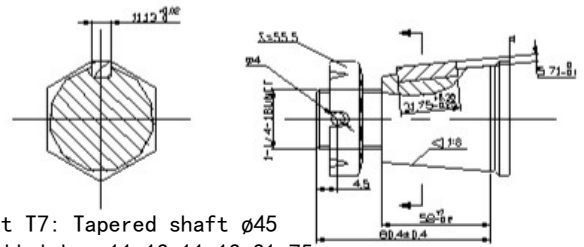
Shaft SL: Cylindrical shaft $\phi 38.1$
Parallel key 9.525x9.525x57.15
SL轴: 圆柱轴 $\phi 38.1$
平键 9.525x9.525x57.15



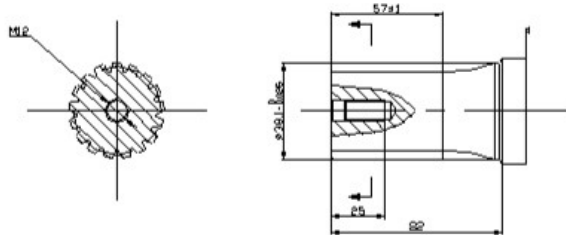
Shaft R3: Splined 14-DP12/24
R3轴: 花键14-DP12/24



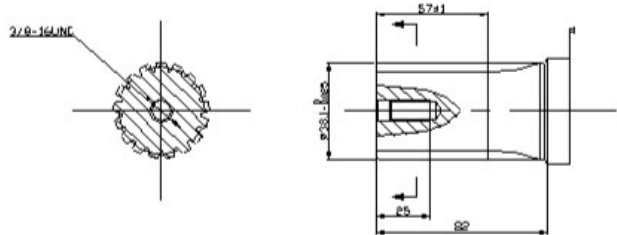
Shaft T6: Tapered shaft $\phi 45$
Parallel key B12x8x28
Tightening torque: $500 \pm 10\text{Nm}$
T6轴: 锥轴 $\phi 45$
平键 B12x8x28
螺母拧紧力矩: $500 \pm 10\text{Nm}$



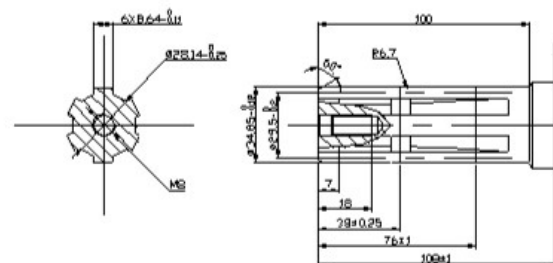
Shaft T7: Tapered shaft $\phi 45$
Parallel key 11.13x11.13x31.75
Tightening torque: $500 \pm 10\text{Nm}$
T7轴: 锥轴 $\phi 45$
平键 11.13x11.13x31.75
螺母拧紧力矩: $500 \pm 10\text{Nm}$



Shaft RA: Splined 17-DP12/24
RA轴: 花键17-DP12/24



Shaft R9: Splined 17-DP12/24
R9轴: 花键17-DP12/24



Shaft R7: Splined 6-34.85x28.14x8.64
R7轴: 花键6-34.85x28.14x8.64



GT Shaft Extension Dimensions Data GT系列轴伸尺寸参数

Ordering Example:		Model	Displacement	Flange	Drive shaft	Ports	Other functions
		GT	160	H6	C2	G3	ACA
Model	Disp.	Flange		Drive shaft		Ports	
GT	160	H6=4-∅14 square flange ∅160, pilot ∅125x9		C2=Cardan shaft 16-DP12/24		G3=G3/4 manifold mount 4xM10, G1/4 M5=M27x2 manifold mount 4xM10, M14x1.5 U4=1-1/16-12UN O-ring, 9/16-18UNF U5=1-1/16-12UN O-ring, 7/16-20UNF G4=G3/4, G1/4 M9=M27x2, M14x1.5	
	200	H7=4-∅14.5 square flange ∅162, pilot ∅127x9		SK=Shaft ∅40, parallel key 12x8x70			
	250	H7=4-∅14.5 square flange ∅162, pilot ∅127x9		SL=Shaft ∅38.1, parallel key 9.53x9.53x57.15			
	315	W2=4-∅18 wheel flange ∅200, pilot ∅160x7		R9=Shaft ∅38.1, splined tooth 17-DP12/24			
	400	W2=4-∅18 wheel flange ∅200, pilot ∅160x7		RA=Shaft ∅38.1, splined tooth 17-DP12/25			
	500	B2=4-∅14 circle flange ∅160, pilot ∅125x8		T6=Tapered shaft 1:10 ∅45, parallel key B12x8x28			
	630	B2=4-∅14 circle flange ∅160, pilot ∅125x8		T7=Tapered shaft 1:8 ∅45, parallel key 11.13x11.13x31.75			
725	H8=4-∅14.5 square flange ∅162, pilot ∅127x10		SM=Shaft ∅31.75, parallel key 7.96x7.96x40				

Rotation direction	Paint	Unusually function
A=Standard R=Opposite	A=No paint B=Blue C=Black S=Silver grey	A=Standard N=Big radial force D=No case drain F=Free running L=Low speed V=High temperature S=Low temperature



GT Shaft Extension Dimensions Data GT系列轴伸尺寸参数

订购示例:		型号	排量	法兰	传动轴	油口	其他功能
		GT	160	H6	C2	G3	ACA
型号	排量	法兰		传动轴		油口	
GT	160	H6=4-∅14方形法兰∅160, 止口 ∅125x9		C2=万向轴 16-DP12/24 SK=轴∅40, 平键 12x8x70 SL=轴∅38.1, 平键 9.53x9.53x57.15		G3=G3/4 集成块安装 4xM10, G1/4	
	200	H7=4-∅14.5方形法兰∅162, 止口 ∅127x9		R9=轴∅38.1, 花键齿 17-DP12/24		M5=M27x2 集成块安装 4xM10, M14x1.5	
	250	H7=4-∅14.5方形法兰∅162, 止口 ∅127x9		RA=轴∅38.1, 花键齿 17-DP12/25		U4=1-1/16-12UN 0型圈, 9/16-18UNF	
	315	W2=4-∅18轮型法兰∅200, 止口 ∅160x7		T6=锥形轴 1:10 ∅45, 平键 B12x8x28		U5=1-1/16-12UN 0型圈, 7/16-20UNF	
	400	B2=4-∅14圆形法兰∅160, 止口 ∅125x8		T7=锥形轴 1:8 ∅45, 平键 11.13x11.13x31.75		G4=G3/4, G1/4	
	500	B2=4-∅14圆形法兰∅160, 止口 ∅125x8		SM=轴∅31.75, 平键 7.96x7.96x40		M9=M27x2, M14x1.5	
	630	H8=4-∅14.5方形法兰∅162, 止口 ∅127x10					
725	H8=4-∅14.5方形法兰∅162, 止口 ∅127x10						

旋转方向	喷漆	不常用的功能
A=标准 R=反向	A=无喷漆 B=蓝色 C=黑色 S=银灰色	A=标准 N=大径向力 D=无泄油口 F=自由转 L=低速 V=高温 S=低温



Flow Data 流量参数

GT160		161.1cm ³ /rev(9.83in ³ /rev)					最高连续 Max Cont.	最高断续 Max Int.
压力 Pressure bar [psi→]		41.2 [588]	82.3 [1175]	102.9 [1470]	123.6 [1766]	164.9 [2355]	206.5 [2950]	247.5 [3535]
Flow 流量	l/min [gpm↓]	扭矩 N m [lb-in] 转速 Torque N m [lb-in] Speed Specification						
	10 [2.64]	88 [780]	176 [1558]	235 [2081]	275 [2434]	361 [3195]	447 [3956]	535 [4735]
		60rpm	59rpm	58rpm	56rpm	54rpm	50rpm	44rpm
	20 [5.28]	89 [788]	181 [1602]	234 [2071]	277 [2451]	372 [3292]	459 [4062]	557 [4929]
		121rpm	120rpm	117rpm	114rpm	109rpm	103rpm	95rpm
	40 [10.57]	91 [805]	180 [1593]	235 [2080]	277 [2451]	381 [3372]	471 [4168]	573 [5071]
		249rpm	246rpm	243rpm	236rpm	230rpm	223rpm	212rpm
	60 [15.85]	82 [726]	178 [1575]	235 [2080]	277 [2451]	381 [3372]	470 [4160]	572 [5063]
		371rpm	367rpm	362rpm	356rpm	349rpm	340rpm	330rpm
	80 [21.13]	78 [690]	173 [1531]	229 [2027]	276 [2443]	379 [3356]	466 [4124]	567 [5018]
		492rpm	489rpm	485rpm	478rpm	470rpm	462rpm	447rpm
	100 [26.42]	70 [620]	160 [1416]	218 [1929]	269 [2380]	370 [3275]	455 [4026]	558 [4938]
		Max Cont.	614rpm	611rpm	606rpm	598rpm	590rpm	582rpm
	125 [33.02]	58 [513]	148 [1309]	211 [1867]	261 [2310]	359 [3177]	448 [3965]	552 [4885]
Max Int.		770rpm	764rpm	758rpm	750rpm	741rpm	731rpm	715rpm

GT200		201.4cm ³ /rev(12.29in ³ /rev)					最高连续 Max Cont.	最高断续 Max Int.
压力 Pressure bar [psi→]		41.2 [588]	82.3 [1175]	102.9 [1470]	123.6 [1766]	164.9 [2355]	206.5 [2950]	247.5 [3535]
Flow 流量	l/min [gpm↓]	扭矩 N m [lb-in] 转速 Torque N m [lb-in] Speed Specification						
	10 [2.64]	124 [1097]	233 [2062]	289 [2558]	340 [3007]	454 [4015]	560 [4953]	669 [5917]
		47rpm	46rpm	45rpm	42rpm	39rpm	37rpm	33rpm
	20 [5.28]	125 [1106]	307 [2715]	298 [2637]	347 [3069]	468 [4139]	576 [5094]	696 [6155]
		95rpm	94rpm	92rpm	90rpm	87rpm	84rpm	75rpm
	40 [10.57]	120 [1062]	241 [2133]	296 [2620]	352 [3113]	475 [4201]	589 [5210]	716 [6332]
		195rpm	193rpm	191rpm	187rpm	183rpm	178rpm	167rpm
	60 [15.85]	116 [1027]	237 [2097]	295 [2611]	352 [3113]	478 [4227]	589 [5209]	718 [6350]
		297rpm	295rpm	292rpm	287rpm	282rpm	276rpm	263rpm
	80 [21.13]	108 [956]	231 [2044]	289 [2558]	350 [3095]	474 [4192]	586 [5183]	716 [6332]
		395rpm	393rpm	389rpm	384rpm	377rpm	370rpm	259rpm
	100 [26.42]	98 [871]	227 [2009]	286 [2531]	344 [3042]	471 [4166]	580 [5130]	712 [6297]
		493rpm	490rpm	486rpm	482rpm	475rpm	467rpm	460rpm
	125 [33.02]	84 [743]	208 [1841]	276 [2443]	333 [2945]	459 [4059]	566 [5006]	697 [6164]
Max Cont.		615rpm	611rpm	607rpm	602rpm	595rpm	588rpm	572rpm
150 [39.63]	70 [620]	194 [1717]	260 [2301]	324 [2865]	447 [3953]	554 [4900]	682 [6032]	
	Max Int.	743rpm	740rpm	735rpm	727rpm	717rpm	706rpm	682rpm



Flow Data 流量参数

GT250		251.8cm ³ /rev(15.36in ³ /rev)					最高连续 Max Cont.	最高断续 Max Int.
压力 Pressure bar [psi→]		41.2 [588]	82.3 [1175]	102.9 [1470]	123.6 [1766]	164.9 [2355]	206.5 [2950]	247.5 [3535]
Flow 流量	l/min [gpm↓]	扭矩 N m [lb-in] 转速 Torque N m [lb-in] Speed Specification						
	10 [2.64]	138 [1221]	286 [2531]	355 [3142]	419 [3708]	559 [4947]	689 [6098]	824 [7292]
		38rpm	38rpm	37rpm	36rpm	34rpm	32rpm	31rpm
	20 [5.28]	143 [1266]	296 [2620]	364 [3221]	432 [3823]	580 [5133]	708 [6266]	853 [7550]
		76rpm	75rpm	74rpm	72rpm	70rpm	67rpm	62rpm
	40 [10.57]	139 [1230]	301 [2664]	373 [3297]	440 [3894]	593 [5248]	723 [6400]	884 [7823]
		156rpm	154rpm	152rpm	149rpm	146rpm	142rpm	134rpm
	60 [15.85]	132 [1168]	294 [2602]	372 [3292]	441 [3903]	592 [5239]	727 [6434]	888 [7860]
		237rpm	236rpm	233rpm	229rpm	224rpm	219rpm	207rpm
	80 [21.13]	128 [1133]	283 [2505]	364 [3221]	433 [3832]	587 [5195]	721 [6381]	887 [7850]
317rpm		316rpm	314rpm	308rpm	303rpm	299rpm	284rpm	
100 [26.42]	126 [1115]	282 [2496]	355 [3142]	427 [3779]	582 [5151]	716 [6337]	879 [7779]	
	396rpm	394rpm	391rpm	387rpm	381rpm	373rpm	359rpm	
125 [33.02]	116 [1027]	260 [2301]	340 [3010]	414 [3665]	568 [5027]	703 [6222]	864 [7646]	
Max Cont.	485rpm	492rpm	488rpm	483rpm	476rpm	469rpm	454rpm	
150 [39.63]	88 [779]	242 [2142]	320 [2832]	397 [3513]	552 [4885]	686 [6071]	847 [7496]	
Max Int.	592rpm	589rpm	585rpm	580rpm	572rpm	565rpm	545rpm	

GT315		326.3cm ³ /rev(19.91in ³ /rev)					最高连续 Max Cont.	最高断续 Max Int.
压力 Pressure bar [psi→]		41.2 [588]	82.3 [1175]	102.9 [1470]	123.6 [1766]	164.9 [2355]	206.5 [2950]	247.5 [3535]
Flow 流量	l/min [gpm↓]	扭矩 N m [lb-in] 转速 Torque N m [lb-in] Speed Specification						
	10 [2.64]	184 [1628]	363 [3213]	453 [4009]	545 [4823]	734 [6496]	891 [7885]	1051 [9399]
		30rpm	29rpm	28rpm	27rpm	26rpm	25rpm	23rpm
	20 [5.28]	189 [1673]	380 [3363]	472 [4177]	562 [4975]	757 [6700]	917 [8115]	1109 [9815]
		60rpm	59rpm	58rpm	56rpm	54rpm	52rpm	50rpm
	40 [10.57]	191 [1690]	381 [3372]	484 [4283]	570 [5045]	774 [6850]	954 [8445]	1149 [10170]
		121rpm	120rpm	118rpm	115rpm	112rpm	109rpm	104rpm
	60 [15.85]	189 [1673]	376 [3328]	493 [4363]	573 [5070]	772 [6832]	962 [8514]	1154 [10213]
		183rpm	181rpm	179rpm	175rpm	172rpm	168rpm	158rpm
	80 [21.13]	179 [1584]	369 [3266]	479 [4240]	565 [5000]	768 [6797]	954 [8443]	1153 [10204]
244rpm		242rpm	239rpm	236rpm	231rpm	227rpm	217rpm	
100 [26.42]	169 [1496]	357 [3160]	467 [4133]	562 [4975]	758 [6708]	944 [8357]	1143 [10116]	
	305rpm	304rpm	301rpm	298rpm	294rpm	289rpm	276rpm	
125 [33.02]	147 [1301]	336 [2975]	447 [3955]	544 [4815]	745 [6595]	920 [8145]	1127 [9975]	
Max Cont.	380rpm	378rpm	375rpm	371rpm	367rpm	362rpm	349rpm	
150 [39.63]	119 [1053]	318 [2812]	432 [3825]	526 [4655]	713 [6310]	894 [7912]	1097 [9710]	
Max Int.	458rpm	456rpm	453rpm	449rpm	444rpm	431rpm	425rpm	



Flow Data 流量参数

GT400		410.9cm ³ /rev(25.06in ³ /rev)					最高连续 Max Cont.	最高断续 Max Int.
压力 Pressure bar [psi→]		30.8 [440]	61.6 [880]	92.8 [1325]	123.6 [1766]	154.6 [2208]	185.6 [2652]	216.3 [3090]
Flow 流量	l/min [gpm↓]	扭矩 N m [lb-in] 转速 Torque N m [lb-in] Speed Specification						
	10 [2.64]	176 [1558]	367 [3248]	560 [4956]	715 [6328]	885 [7833]	1050 [9293]	1209 [10701]
		24rpm	23rpm	22rpm	21rpm	20rpm	19rpm	18rpm
	20 [5.28]	179 [1584]	370 [3275]	565 [5001]	726 [6426]	899 [7957]	1071 [9479]	1236 [10940]
		49rpm	48rpm	47rpm	44rpm	42rpm	40rpm	38rpm
	40 [10.57]	176 [1558]	370 [3275]	567 [5018]	733 [6488]	919 [8134]	1091 [9656]	1263 [11178]
		96rpm	95rpm	93rpm	90rpm	87rpm	83rpm	79rpm
	60 [15.85]	174 [1540]	361 [3195]	563 [4983]	729 [6452]	920 [8143]	1095 [9692]	1269 [11232]
		145rpm	143rpm	139rpm	135rpm	131rpm	127rpm	121rpm
	80 [21.13]	166 [1469]	353 [3124]	553 [4894]	719 [6364]	912 [8072]	1084 [9594]	1263 [11178]
		193rpm	191rpm	188rpm	184rpm	180rpm	176rpm	170rpm
	100 [26.42]	150 [1328]	339 [3000]	538 [4762]	708 [6266]	896 [7930]	1067 [9444]	1252 [11081]
		242rpm	240rpm	238rpm	234rpm	228rpm	224rpm	218rpm
125 [33.02]	135 [1195]	309 [2735]	524 [4638]	688 [6089]	873 [7727]	1045 [9249]	1221 [10807]	
Max Cont.	302rpm	300rpm	298rpm	294rpm	289rpm	285rpm	178rpm	
150 [39.63]	126 [1115]	292 [2584]	508 [4496]	666 [5895]	852 [7541]	1020 [9028]	1197 [10594]	
Max Int.	364rpm	362rpm	358rpm	354rpm	350rpm	346rpm	339rpm	

GT500		523.6cm ³ /rev(31.95in ³ /rev)					最高连续 Max Cont.	最高断续 Max Int.
压力 Pressure bar [psi→]		30.8 [440]	61.6 [880]	92.8 [1325]	123.6 [1766]	144.2 [2060]	164.9 [2355]	185.6 [2652]
Flow 流量	l/min [gpm↓]	扭矩 (lb-in) 转速 Torque (lb-in) Speed Specification						
	10 [2.64]	222 [1965]	451 [3992]	692 [6125]	892 [7895]	1050 [9293]	1193 [10559]	1340 [11860]
		18rpm	18rpm	18rpm	17rpm	16rpm	15rpm	13rpm
	20 [5.28]	231 [2045]	464 [4107]	714 [6319]	918 [8125]	1070 [9470]	1220 [10798]	1377 [12187]
		37rpm	36rpm	35rpm	34rpm	33rpm	32rpm	30rpm
	40 [10.57]	230 [2036]	466 [4124]	727 [6434]	941 [8329]	1094 [9683]	1244 [11010]	1422 [12586]
		75rpm	74rpm	73rpm	72rpm	70rpm	68rpm	64rpm
	60 [15.85]	225 [1991]	457 [4045]	714 [6319]	941 [8329]	1088 [9630]	1245 [11019]	1409 [12471]
		113rpm	112rpm	111rpm	109rpm	107rpm	105rpm	101rpm
	80 [21.13]	213 [1885]	431 [3815]	696 [6160]	927 [8205]	1076 [9523]	1244 [11010]	1401 [12400]
		151rpm	150rpm	149rpm	147rpm	145rpm	143rpm	138rpm
	100 [26.42]	194 [1717]	420 [3717]	680 [6019]	902 [7978]	1063 [9408]	1224 [10833]	1383 [12241]
		189rpm	188rpm	187rpm	185rpm	183rpm	181rpm	177rpm
125 [33.02]	182 [1611]	398 [3523]	641 [5673]	877 [7762]	1024 [9063]	1199 [10612]	1352 [11966]	
Max Cont.	237rpm	236rpm	235rpm	233rpm	231rpm	229rpm	225rpm	
150 [39.63]	147 [1301]	369 [3266]	618 [5470]	853 [7550]	1004 [8886]	1157 [10239]	1325 [11727]	
Max Int.	284rpm	283rpm	282rpm	280rpm	278rpm	276rpm	272rpm	



Flow Data 流量参数

GT630		631.2cm ³ /rev (38.52in ³ /rev)					最高连续 Max Cont.	最高断续 Max Int.
压力 Pressure bar [psi→]		30.8 [440]	61.6 [880]	92.8 [1325]	108.2 [1546]	123.6 [1766]	144.2 [2060]	164.9 [2355]
Flow 流量	(gpm↓)	扭矩 N m [lb-in] 转速 Torque N m [lb-in] Speed Specification						
	10 [2.64]	233 [2062]	520 [4602]	795 [7036]	902 [7983]	1074 [9505]	1194 [10567]	1363 [12063]
		14rpm	14rpm	13rpm	13rpm	13rpm	11rpm	11rpm
	20 [5.28]	237 [2097]	554 [4903]	837 [7407]	953 [8434]	1117 [9885]	1239 [10965]	1407 [12452]
		28rpm	27rpm	27rpm	26rpm	26rpm	24rpm	22rpm
	40 [10.57]	239 [2115]	553 [4894]	860 [7611]	987 [8735]	1171 [10364]	1308 [11576]	1483 [13125]
		62rpm	62rpm	61rpm	60rpm	59rpm	56rpm	54rpm
	60 [15.85]	223 [1974]	544 [4814]	863 [7638]	978 [8655]	1172 [10372]	1318 [11664]	1498 [13257]
		94rpm	94rpm	92rpm	91rpm	90rpm	86rpm	82rpm
	80 [21.13]	220 [1947]	573 [5071]	854 [7558]	965 [8540]	1172 [10372]	1314 [11629]	1497 [13248]
123rpm		123rpm	121rpm	119rpm	118rpm	114rpm	110rpm	
100 [26.42]	208 [1841]	522 [4620]	832 [7363]	945 [8363]	1156 [10231]	1156 [10231]	1488 [13169]	
	156rpm	155rpm	153rpm	152rpm	150rpm	147rpm	142rpm	
125 [33.02]	201 [1779]	499 [4416]	810 [7169]	931 [8239]	1137 [10062]	1292 [11435]	1472 [13028]	
	Max Cont.	196rpm	196rpm	194rpm	192rpm	191rpm	187rpm	183rpm
150 [39.63]	174 [1540]	492 [4354]	785 [6947]	921 [8151]	1120 [9912]	1277 [11301]	1454 [12868]	
	Max Int.	233rpm	232rpm	231rpm	230rpm	227rpm	223rpm	217rpm

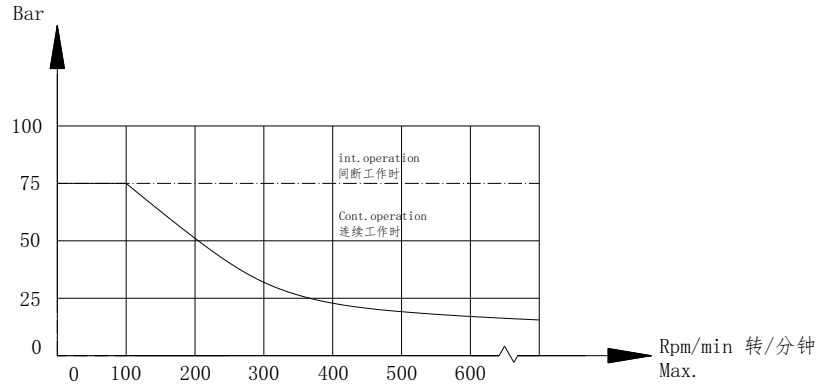
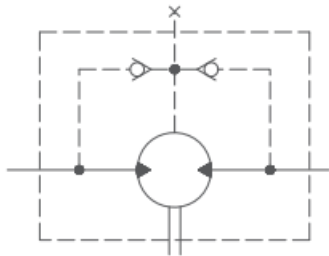
Technical Data 技术数据

Hydraulic orbit Motors GT

Permissible shaft seal pressure

GT系列摆线液压马达

输出轴密封圈允许承受的压力



In applications without drain line, output shaft seal exceeds a bit of the pressure in the return line. When applications use the drain line, the pressure of output shaft seal equals the pressure in drain line.

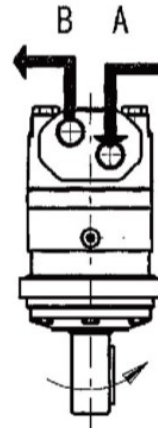
在无外卸油管的使用中，输出轴密封圈上的压力微高于回油管路中的压力。当使用外卸油管时，输出轴密封圈上的压力则与外泄油管路中的压力相同。

Standard direction of shaft rotation: Standard

轴旋转的标准方向：标准

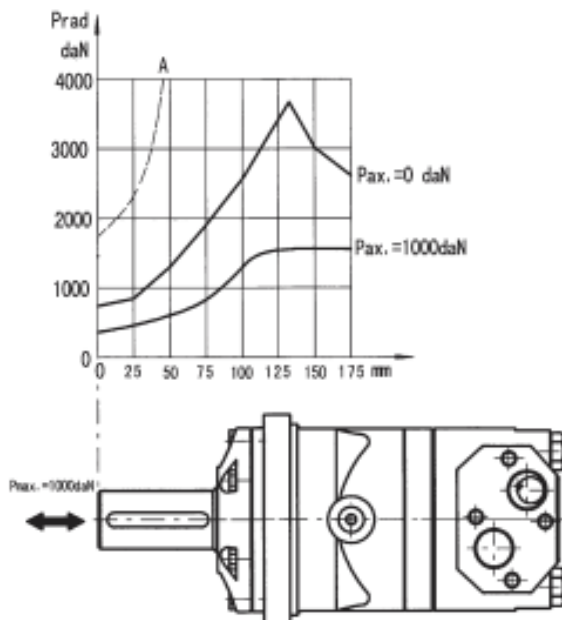
When facing shaft end of motor, shaft to rotate: Clockwise when port "A" is pressurized. Counter-clockwise port "B" is pressurized.

当面对电动机的轴端时，轴旋转：当端口“A”增压时，顺时针方向旋转。当端口“B”增压时，逆时针方向旋转。



Axial and Radial forces

轴向力和径向力

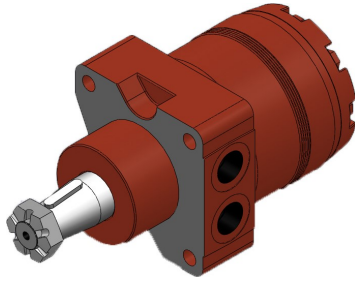


The output shaft runs in tapered bearings that permit high axial and radial forces. Curve "A" shows max radial shaft load, Any shaft loads exceeding the values quoted in the curve will involve a risk of breakage. The two other curves apply to a B10 bearing life of 3000 hours at 200 RPM.

输出轴允许在高轴向力和径向力的圆锥轴承中运行，曲线“A”显示最大径向轴负载，任何超过该曲线中引用值的轴负载都将有断裂的危险，另外两条曲线适用于B10在200 RPM下的使用寿命为3000小时。

General 概述

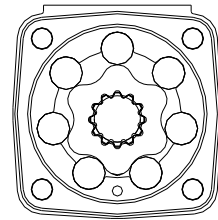
APPLICATION 应用



- ◇ Aerial work platform 高空作业平台
- ◇ Material handling and lifting machinery 物料搬运及起重机械
- ◇ Agricultural machines 农用机械
- ◇ Marine machinery 船用机械
- ◇ Road machinery 路面机械
- ◇ Garden machinery 园林机械
- ◇ Lawn and turf machinery 草坪及草皮机械

OPTIONS 可选功能

- ◇ Rotor flow distribution, pin-tooth stator pair 转子配流, 镶针齿式转定子副
- ◇ Flange connection 法兰连接
- ◇ Motor with needle bearing 马达带滚针轴承
- ◇ Align the ports on the side 侧边对齐油口
- ◇ Shafts-straight and tapered 轴伸-直轴, 锥轴
- ◇ High pressure oil seal 高压油封
- ◇ Metric, American and BSPP ports 公制, 美制和BSPP油口



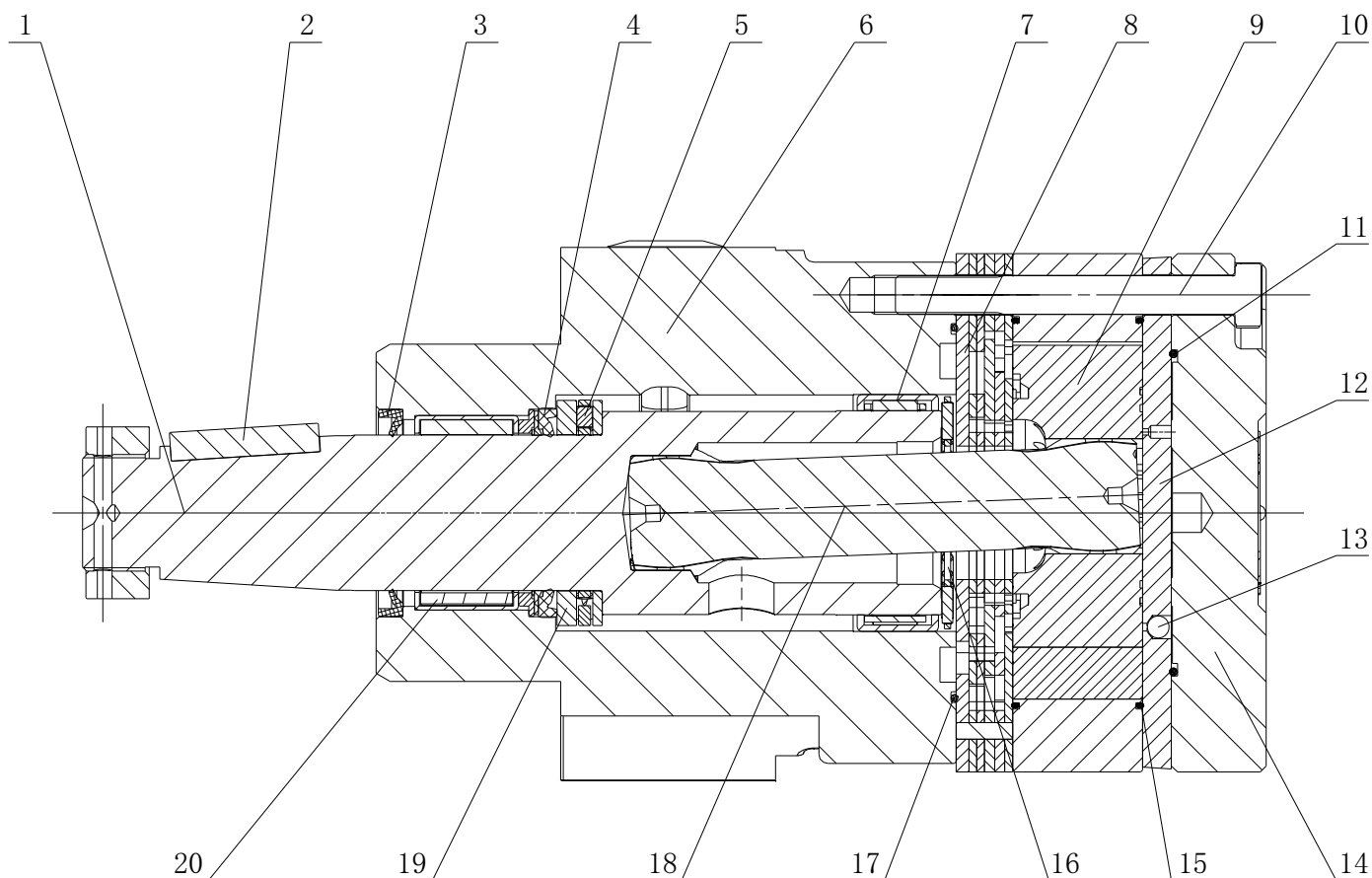
- ◇ Disc distribution flow 盘配流

技术指标

型号 Model		GWD120	GWD160	GWD200	GWD230	GWD260	GWD300
排量 Disp.	in ³ /rev	7.4	9.9	12.4	14.2	15.9	18.3
	cm ³ /rev	121	162	204	232	261	300
最高转速 Max Speed rpm	连续 cont.	360	370	300	260	260	250
	断续 int.	490	470	370	320	350	320
最大扭矩 Max Torque N m [lb-in]	连续 cont.	327 [2900]	475 [4200]	542 [4800]	611 [5400]	712 [6300]	825 [7300]
	断续 int.	383 [3400]	542 [4800]	633 [5600]	712 [6300]	791 [7000]	938 [8300]
最大压力差 Max Dif. bar [psi]	连续 cont.	207 [3000]	207 [3000]	207 [3000]	207 [3000]	207 [3000]	207 [3000]
	断续 int.	241 [3500]	241 [3500]	241 [3500]	241 [3500]	241 [3500]	241 [3500]
最大流量 Max Flow l/min [gpm]	连续 cont.	45 [12]	61 [16]	68 [18]	68 [18]	76 [19.8]	76 [19.8]
	断续 int.	61 [16]	76 [20]	83 [22]	83 [22]	91 [23.8]	95 [25]
重量 Weight kg [lbs]		13.3 [29.4]	13.3 [29.4]	13.7 [30.2]	13.8 [30.4]	14.1 [31.0]	14.4 [31.8]

型号 Model		GWD350	GWD375	GWD470	GWD540	GWD620	GWD750
排量 Disp.	in ³ /rev	21.2	22.8	28.3	32.7	38.5	45.6
	cm ³ /rev	348	363	465	536	631	748
最高转速 Max Speed rpm	连续 cont.	220	200	160	140	120	100
	断续 int.	270	250	200	170	150	130
最大扭矩 Max Torque N m [lb-in]	连续 cont.	921 [8150]	1006 [8900]	1096 [9700]	983 [8700]	1014 [8976]	1062 [9400]
	断续 int.	1045 [9250]	1158 [10250]	1184 [10475]	1243 [11000]	1291 [11421]	1237 [10950]
最大压力差 Max Dif. bar [psi]	连续 cont.	207 [3000]	207 [3000]	172 [2500]	138 [2000]	121 [1750]	103 [1500]
	断续 int.	241 [3500]	241 [3500]	189 [2750]	173 [2500]	155 [2250]	121 [1750]
最大流量 Max Flow l/min [gpm]	连续 cont.	76 [19.8]	76 [20]	76 [20]	76 [20]	76 [20]	76 [20]
	断续 int.	95 [25]	91 [24]	91 [24]	91 [24]	91 [24]	91 [24]
重量 Weight kg [lbs]		15.5 [34.2]	15.0 [33.0]	15.5 [34.2]	16.1 [35.4]	16.8 [36.9]	17.5 [38.5]

General 概述



- 1. Output Shaft 输出轴
- 2. Key 键
- 3. Dust Seal 防尘密封
- 4. Shaft Seal 轴封
- 5. Axial Needle Bearing 推力滚针轴承
- 6. Housing 外壳
- 7. Radial Needle Bearing 向心滚针轴承
- 8. Timing Plate 计时板
- 9. Gear Set 齿轮组
- 10. Bolt 螺栓

- 11. O-Ring O型圈
- 12. Balance Plate 平衡板
- 13. Ball 球
- 14. End Cover 后板
- 15. O-Ring O型圈
- 16. Axial Needle Bearing 推力滚针轴承
- 17. O-Ring O型圈
- 18. Drive Shaft 驱动轴
- 19. Thrust Washer 止推垫圈
- 20. Radial Needle Bearing 向心滚针轴承

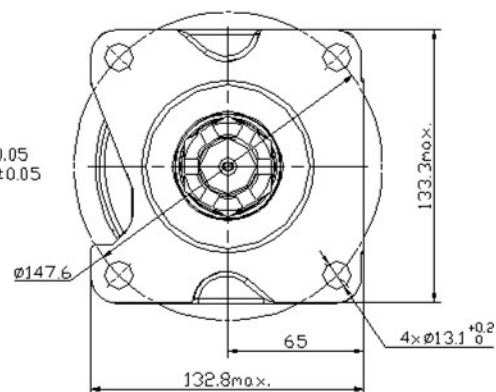
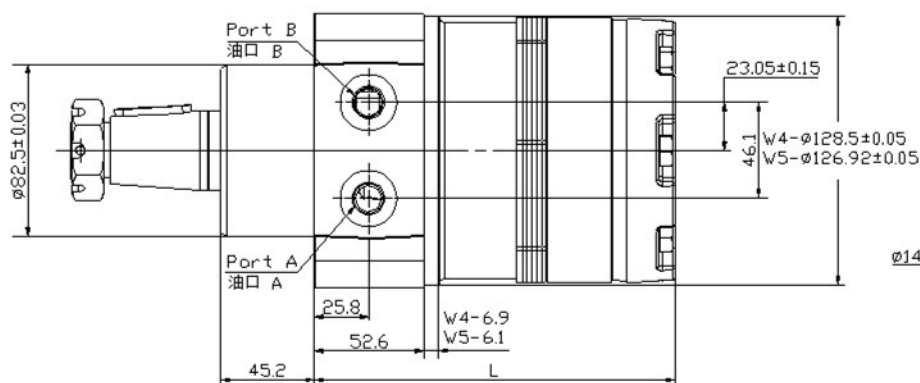
Dimensions and Mounting Data 尺寸和安装参数

UD: 9/16-18UNF GC:G1/2

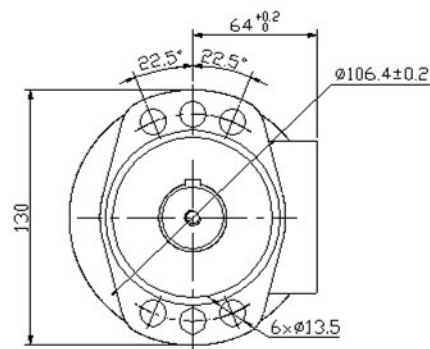
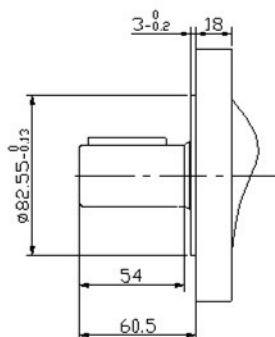
W4 & W5 Wheel Mount

UF: 7/8-14UNF MC:M22X1.5

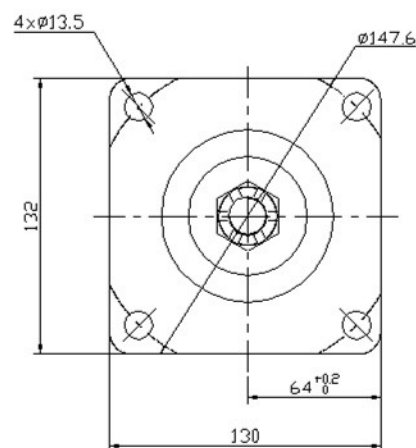
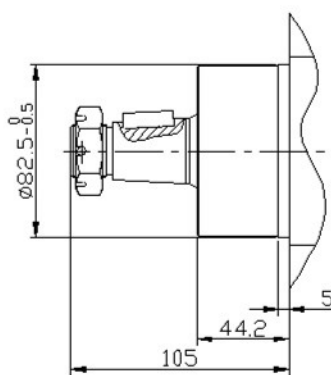
W4 & W5 轮架



Flange 法兰: A9

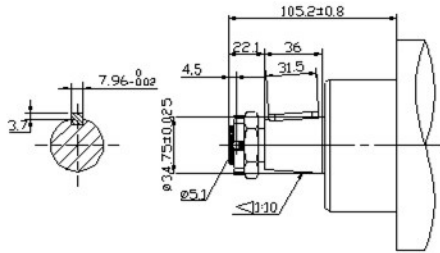


Flange 法兰: W6

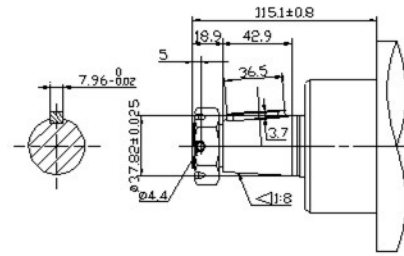


Model	L	Weight
型号	mm [In]	kg [lb]
GWD120	156 [6.14]	13.3 [29.4]
GWD160	156 [6.14]	13.3 [29.4]
GWD200	159 [6.26]	13.7 [30.2]
GWD230	162 [6.38]	13.8 [30.4]
GWD260	165 [6.50]	14.1 [31.0]
GWD300	168 [6.61]	14.4 [31.8]
GWD350	182 [7.17]	15.5 [34.2]
GWD375	174 [6.85]	15.0 [33.0]
GWD470	182 [7.17]	15.5 [34.2]
GWD540	188 [7.40]	16.1 [35.4]
GWD620	196 [7.72]	16.8 [36.9]
GWD750	206 [8.11]	17.5 [38.5]

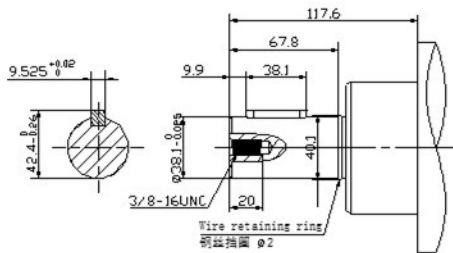
GWD Shaft Extension Dimensions Data GWD系列轴伸尺寸参数



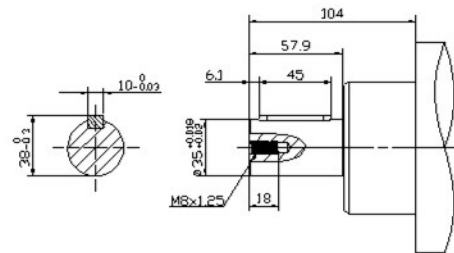
Shaft TB: Tapered shaft $\varnothing 35$
 Parallel key 7.96x7x31.5
 Tightening torque: 325Nm
 T9轴: 锥轴 $\varnothing 35$
 平键 7.96x7x31.5
 螺母拧紧力矩: 325Nm



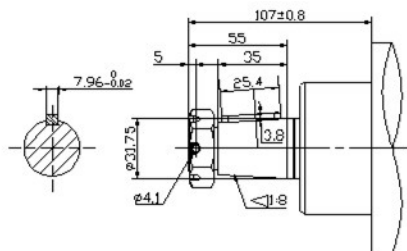
Shaft TA: Tapered shaft $\varnothing 38.1$
 Parallel key 7.96x7x36.5
 Tightening torque: 410-540Nm
 T9轴: 锥轴 $\varnothing 38.1$
 平键 7.96x7x36.5
 螺母拧紧力矩: 410-540Nm



Shaft SL : Cylindrical shaft $\varnothing 38.1$
 Parallel key 9.5x9.5x38.1
 SL: $\varnothing 38.1$ 轴, 平键9.5x9.5x38.1



Shaft SH : Cylindrical shaft $\varnothing 35$
 Parallel key 10x8x45
 SH: $\varnothing 35$ 轴, 平键10x8x45



Shaft T2: Tapered shaft $\varnothing 31.75$
 Parallel key 7.96x7.96x25.4
 Tightening torque: 200±10Nm
 T2轴: 锥轴 $\varnothing 31.75$
 平键 7.96x7.96x25.4
 螺母拧紧力矩: 200±10Nm



GWD Shaft Extension Dimensions Data GWD系列轴伸尺寸参数

Ordering Example:						
Model	Displacement	Flange	Drive shaft	Ports	Other functions	
GWD	120	W4	SH	UD	ACA	
Model	Disp.	Flange	Drive shaft	Ports		
GWD	120	W4=4-Hole wheel flange, front pilot $\varnothing 82.5 \times 45$ back pilot $\varnothing 128.5 \times 7$	SH=Shaft $\varnothing 35$, parallel key 10x8x45	UD=9/16-18 UNF UF=7/8-14 UNF GC=G1/2 MC=M22X1.5		
	160		TB=Tapered shaft $\varnothing 35$, parallel key 7.96x7x31.5			
	200		SL=Shaft $\varnothing 38.1$, parallel key 9.5x9.5x38.1			
	230		TA=Tapered shaft $\varnothing 38.1$, parallel key 7.96x7x36.5			
	260	W5=4-Hole wheel flange, front pilot $\varnothing 82.5 \times 45$ back pilot $\varnothing 127 \times 6$	T2=Tapered shaft $\varnothing 31.75$, parallel key 7.96x7.96x25.4			
	300					
	350	A9=6 Hole SAE A Flange, Pilot 82.5 x 6.4				
	375					
	470					
	540					
620						
750						

Rotation direction	Paint	Unusually function
A=Standard R=Opposite	A=No paint B=Blue C=Black S=Silver grey	A=Standard F=Free running V=High temperature S=Low temperature



GWD Shaft Extension Dimensions Data GWD系列轴伸尺寸参数

订购示例:						
型号	排量	法兰	传动轴	油口	其他功能	
GWD	120	W4	SH	UD	ACA	
型号	排量	法兰	传动轴	油口		
GWD	120	W4=4孔轮型法兰, 前止口 ∅82.5x45 后止口 ∅128.5x7	SH=轴∅35, 平键 10x8x45	UD=9/16-18 UNF UF=7/8-14 UNF GC=G1/2 MC=M22X1.5		
	160		TB=锥形轴∅35, 平键			
	200		7.96x7x31.5			
	230		SL=轴∅38.1, 平键 9.5x9.5x38.1			
	260		TA=锥形轴∅38.1, 平键			
	300	W5=4孔轮型法兰, 前止口∅82.5x45 后止口 ∅127x6	7.96x7x36.5			
	350		T2=锥形轴∅31.75, 平键			
	375		7.96x7.96x25.4			
	470					
	540					
620						
750						

旋转方向	喷漆	不常用的功能
A=标准 R=反向	A=无喷漆 B=蓝色 C=黑色 S=银灰色	A=标准 F=自由转 V=高温 S=低温



Flow Data 流量参数

GWD125		121cm ³ /rev (7.4in ³ /rev)					最高连续 Max Cont.	最高断续 Max Int.	
压力 Pressure bar [psi→]		17[247]	35[508]	69[1001]	104[1508]	138[2001]	173[2509]	207[3002]	241[3495]
Flow 流量	l/min(gpm↓)	扭矩 N m [lb-in] 转速 Torque N m [lb-in] Speed Specification							
	2 [0.53]	20 [177]	49 [434]	95 [842]	138 [1223]				
		13rpm	12rpm	10rpm	7rpm				
	4 [1.06]	23 [204]	52 [461]	109 [966]	159 [1409]	203 [1799]			
		26rpm	24rpm	24rpm	19rpm	12rpm			
	8 [2.11]	56 [496]	116 [1028]	175 [1551]	225 [1994]	268 [2374]	299 [2649]	338 [2995]	
		56rpm	51rpm	49rpm	42rpm	39rpm	35rpm	26rpm	
	15 [3.96]	53 [470]	114 [1010]	185 [1639]	235 [2082]	274 [2428]	332 [2942]	351 [3110]	
		109rpm	104rpm	94rpm	91rpm	87rpm	83rpm	77rpm	
	23 [6.07]	48 [425]	114 [1010]	167 [1480]	229 [2029]	274 [2428]	323 [2942]	356 [3154]	
		172rpm	165rpm	153rpm	148rpm	141rpm	137rpm	135rpm	
	30 [7.92]			109 [966]	167 [1480]	221 [1958]	280 [2481]	321 [2844]	383 [3393]
				290rpm	275rpm	229rpm	224rpm	220rpm	186rpm
	38 [10.03]			102 [904]	164 [1453]	216 [1914]	270 [2392]	324 [2871]	381 [3376]
			291rpm	279rpm	266rpm	258rpm	248rpm	239rpm	
45 [11.88]			97 [859]	159 [1409]	215 [1905]	274 [2428]	318 [2817]	381 [3376]	
			355rpm	341rpm	329rpm	323rpm	318rpm	302rpm	
53 [14.00]			90 [797]	154 [1364]	206 [1825]	265 [2348]	336 [2977]		
Max Cont.			412rpm	410rpm	395rpm	388rpm	366rpm		
61 [16.10]			83 [735]	144 [1276]	210 [1861]	270 [2392]	324 [2871]		
	Max Int.		483rpm	474rpm	455rpm	445rpm	425rpm		

GWD160		162cm ³ /rev (9.9in ³ /rev)					最高连续 Max Cont.	最高断续 Max Int.	
压力 Pressure bar [psi→]		17[247]	35[508]	69[1001]	104[1508]	138[2001]	173[2509]	207[3002]	241[3495]
Flow 流量	l/min(gpm↓)	扭矩 N m [lb-in] 转速 Torque N m [lb-in] Speed Specification							
	2 [0.53]	36 [319]	76 [763]	147 [1302]	221 [1958]	308 [2729]	345 [3057]		
		6rpm	3rpm	3rpm	2rpm	2rpm	1rpm		
	4 [1.06]	29 [257]	78 [691]	162 [1435]	241 [2135]	320 [2835]	375 [3323]	439 [3890]	
		20rpm	17rpm	17rpm	15rpm	14rpm	9rpm	8rpm	
	8 [2.11]	35 [310]	80 [709]	159 [1409]	238 [2109]	314 [2782]	378 [3349]	481 [4262]	548 [4855]
		43rpm	42rpm	40rpm	39rpm	36rpm	34rpm	31rpm	27rpm
	15 [3.96]	38 [337]	75 [665]	168 [1488]	251 [2224]	319 [2826]	375 [3323]	445 [3943]	512 [4536]
		90rpm	88rpm	84rpm	83rpm	81rpm	78rpm	74rpm	71rpm
	23 [6.07]		68 [602]	155 [1373]	234 [2073]	314 [2782]	385 [3411]	455 [4031]	514 [4554]
			135rpm	131rpm	129rpm	125rpm	121rpm	120rpm	116rpm
	30 [7.92]		66 [585]	162 [1435]	235 [2082]	309 [2738]	384 [3402]	452 [4005]	508 [4501]
			185rpm	179rpm	175rpm	171rpm	168rpm	166rpm	161rpm
	38 [10.03]		72 [638]	148 [1311]	231 [2047]	306 [2711]	373 [3305]	452 [4005]	519 [4598]
			232rpm	229rpm	226rpm	219rpm	218rpm	212rpm	206rpm
	45 [11.88]		66 [585]	142 [1258]	224 [1985]	302 [2676]	367 [3252]	438 [3881]	495 [4386]
			279rpm	277rpm	269rpm	268rpm	262rpm	252rpm	245rpm
	53 [14.00]			134 [1187]	227 [2011]	309 [2738]	374 [3314]	453 [4014]	535 [4740]
			326rpm	322rpm	316rpm	310rpm	303rpm	298rpm	
61 [16.10]			122 [1081]	212 [1878]	297 [2631]	366 [3243]	433 [3836]	499 [4421]	
	Max Cont.		371rpm	368rpm	361rpm	359rpm	355rpm	348rpm	
68 [17.95]			107 [948]	198 [1754]	281 [2490]	360 [3190]	416 [3686]		
Max Int.			418rpm	416rpm	414rpm	405rpm	339rpm		
76 [20.06]			104 [921]	194 [1719]	279 [2472]	348 [3083]	450 [3987]		
			465rpm	464rpm	460rpm	451rpm	440rpm		



Flow Data 流量参数

GWD200		204cm ³ /rev (12.4in ³ /rev)					最高连续 Max Cont.	最高断续 Max Int.	
压力 Pressure bar [psi→]		17[247]	35[508]	69[1001]	104[1508]	138[2001]	173[2509]	207[3002]	241[3495]
Flow 流量	l/min (gpm ↓)	扭矩 N m [lb-in] 转速 Torque N m [lb-in] Speed Specification							
	2 [0.53]	39 [346] 6rpm	90 [797] 5rpm	132 [1170] 4rpm	292 [2587] 3rpm	375 [3323] 3rpm			
	4 [1.06]	42 [372] 15rpm	84 [744] 12rpm	198 [1754] 12rpm	274 [2428] 11rpm	370 [3278] 9rpm	439 [3890] 8rpm	523 [4634] 6rpm	
	8 [2.11]	43 [381] 33rpm	92 [815] 30rpm	193 [1710] 28rpm	297 [2631] 26rpm	372 [3596] 26rpm	458 [4058] 24rpm	540 [4784] 22rpm	613 [5431] 19rpm
	15 [3.96]	38 [337] 71rpm	93 [824] 68rpm	196 [1737] 65rpm	303 [2685] 61rpm	399 [3535] 59rpm	474 [4200] 56rpm	541 [4793] 53rpm	623 [5520] 49rpm
	23 [6.60]		81 [718] 109rpm	190 [1683] 106rpm	282 [2499] 105rpm	387 [3429] 101rpm	461 [4084] 99rpm	550 [4873] 97rpm	632 [5600] 88rpm
	30 [7.92]		79 [700] 147rpm	187 [1657] 143rpm	283 [2507] 139rpm	400 [3544] 133rpm	456 [4040] 131rpm	540 [4784] 128rpm	624 [5529] 122rpm
	38 [10.03]		65 [576] 184rpm	179 [1586] 180rpm	273 [2419] 175rpm	361 [3198] 171rpm	455 [4031] 168rpm	532 [4714] 162rpm	612 [5422] 158rpm
	45 [11.88]			164 [1453] 220rpm	260 [2304] 212rpm	360 [3190] 208rpm	447 [3960] 204rpm	532 [4714] 195rpm	615 [5449] 193rpm
	53 [14.00]			148 [1311] 256rpm	271 [2401] 255rpm	365 [3234] 245rpm	446 [3952] 241rpm	555 [4917] 239rpm	599 [5307] 232rpm
	61 [16.10]			133 [1178] 295rpm	252 [2234] 290rpm	331 [2933] 282rpm	432 [3828] 275rpm	521 [4616] 270rpm	595 [5272] 265rpm
	68 [17.95]			120 [1063] 331rpm	231 [2047] 328rpm	337 [2986] 325rpm	414 [3668] 316rpm	509 [4510] 309rpm	596 [5281] 305rpm
	Max Cont.			331rpm	328rpm	325rpm	316rpm	309rpm	305rpm
	76 [20.06]			108 [957] 371rpm	204 [1807] 369rpm	306 [2711] 366rpm	399 [3535] 355rpm	504 [4465] 349rpm	
	Max Int.			371rpm	369rpm	366rpm	355rpm	349rpm	
	83 [21.91]				190 [1683] 405rpm	282 [2499] 401rpm	375 [3323] 393rpm	482 [4271] 386rpm	

GWD230		232cm ³ /rev (14.2in ³ /rev)					最高连续 Max Cont.	最高断续 Max Int.	
压力 Pressure bar [psi→]		17[247]	35[508]	69[1001]	104[1508]	138[2001]	173[2509]	207[3002]	241[3495]
Flow 流量	l/min (gpm ↓)	扭矩 N m [lb-in] 转速 Torque N m [lb-in] Speed Specification							
	2 [0.53]	44 [390] 5rpm	90 [797] 4rpm	182 [1613] 3rpm	290 [2569] 2rpm	372 [3296] 1rpm			
	4 [1.06]	47 [416] 13rpm	99 [877] 12rpm	221 [1958] 11rpm	312 [2764] 10rpm	411 [3641] 8rpm	488 [4324] 6rpm	556 [4926] 4rpm	
	8 [2.11]	49 [434] 29rpm	103 [913] 27rpm	213 [1887] 25rpm	327 [2897] 24rpm	422 [3739] 21rpm	519 [4598] 18rpm	614 [5440] 16rpm	705 [6246] 11rpm
	15 [3.96]	42 [372] 63rpm	106 [939] 58rpm	208 [1843] 55rpm	326 [2888] 54rpm	432 [3828] 51rpm	537 [4758] 45rpm	653 [5786] 41rpm	716 [6344] 38rpm
	23 [6.60]		101 [895] 91rpm	213 [1887] 88rpm	336 [2977] 84rpm	425 [3766] 81rpm	536 [4749] 76rpm	627 [5555] 72rpm	716 [6344] 69rpm
	30 [7.92]		89 [789] 126rpm	205 [1816] 121rpm	315 [2791] 120rpm	425 [3766] 112rpm	519 [4598] 108rpm	637 [5644] 105rpm	714 [6326] 97rpm
	38 [10.03]		77 [682] 159rpm	195 [1728] 155rpm	309 [2738] 149rpm	433 [3836] 146rpm	524 [4643] 141rpm	608 [5387] 138rpm	696 [6167] 130rpm
	45 [11.88]			188 [1666] 188rpm	294 [2605] 184rpm	423 [3748] 180rpm	506 [4483] 174rpm	596 [5281] 168rpm	685 [6069] 162rpm
	53 [14.00]			175 [1531] 223rpm	291 [2501] 215rpm	385 [3434] 213rpm	494 [4395] 206rpm	585 [5197] 203rpm	675 [6037] 196rpm
	61 [16.10]			148 [1311] 256rpm	270 [2392] 254rpm	395 [3500] 248rpm	484 [4288] 244rpm	571 [5059] 234rpm	666 [5901] 224rpm
	68 [17.95]			141 [1249] 292rpm	263 [2330] 285rpm	354 [3136] 281rpm	492 [4359] 274rpm	568 [5032] 273rpm	652 [5777] 255rpm
	Max Cont.			292rpm	285rpm	281rpm	274rpm	273rpm	255rpm
	76 [20.06]			121 [1072] 322rpm	234 [2073] 318rpm	342 [3030] 314rpm	452 [4005] 306rpm	568 [5032] 303rpm	
	Max Int.			322rpm	318rpm	314rpm	306rpm	303rpm	
	83 [21.91]				209 [1852] 356rpm	336 [2977] 348rpm	464 [4111] 343rpm	545 [4829] 337rpm	



Flow Data 流量参数

GWD260		261cm ³ /rev (15.9in ³ /rev)						最高连续 Max Cont.	最高断续 Max Int.	
压力 Pressure bar [psi→]		17[247]	35[508]	69[1001]	104[1508]	138[2001]	173[2509]	207[3002]	241[3495]	
Flow 流量	l/min(gpm↓)	扭矩 N m [lb-in] 转速 Torque N m [lb-in] Speed Specification								
	2 [0.53]	48 [425]	110 [975]							
		4rpm	2rpm							
	4 [1.06]	52 [461]	112 [992]	240 [2126]	363 [3216]	474 [4200]	575 [5095]	645 [5715]		
		11rpm	11rpm	10rpm	8rpm	7rpm	7rpm	5rpm		
	8 [2.11]	53 [470]	114 [1010]	246 [2180]	366 [3243]	486 [4306]	588 [5210]	701 [6211]		
		26rpm	24rpm	23rpm	22rpm	20rpm	18rpm	15rpm		
	15 [3.96]	48 [425]	113 [1001]	260 [2304]	361 [3198]	484 [4288]	592 [5245]	694 [6149]	804 [7123]	
		56rpm	54rpm	50rpm	50rpm	46rpm	44rpm	41rpm	37rpm	
	23 [6.07]	44 [390]	114 [1010]	235 [2082]	363 [3216]	495 [4386]	588 [5210]	719 [6370]	799 [7079]	
		85rpm	81rpm	78rpm	76rpm	74rpm	68rpm	66rpm	61rpm	
	30 [7.92]		93 [824]	225 [1994]	345 [3057]	475 [4209]	588 [5210]	689 [6105]	792 [7017]	
			113rpm	108rpm	107rpm	103rpm	99rpm	94rpm	86rpm	
	38 [10.03]		84 [744]	230 [2038]	338 [2995]	468 [4146]	582 [5157]	682 [6043]	793 [7026]	
			144rpm	142rpm	139rpm	136rpm	131rpm	125rpm	117rpm	
	45 [11.88]		77 [682]	216 [1914]	353 [3128]	462 [4093]	565 [5006]	669 [5927]	798 [7070]	
			172rpm	172rpm	166rpm	164rpm	159rpm	151rpm	142rpm	
	53 [14.00]		63 [558]	197 [1745]	324 [2871]	442 [3916]	566 [5015]	665 [5892]	762 [6751]	
			201rpm	200rpm	198rpm	194rpm	182rpm	178rpm	174rpm	
	61 [16.10]			181 [1604]	298 [2640]	447 [3960]	550 [4873]	649 [5750]	748 [6627]	
			229rpm	226rpm	219rpm	217rpm	214rpm	206rpm		
68 [17.95]			159 [1409]	303 [2685]	416 [3686]	548 [4855]	640 [5670]	735 [6512]		
			260rpm	259rpm	255rpm	245rpm	237rpm	230rpm		
76 [20.06]			135 [1196]	277 [2454]	388 [3438]	519 [4598]	633 [5608]	732 [6486]		
	Max Cont.		289rpm	288rpm	282rpm	275rpm	272rpm	260rpm		
83 [21.91]			131 [1161]	262 [2321]	372 [3296]	510 [4519]	612 [5422]			
	Max Int.		318rpm	317rpm	312rpm	308rpm	299rpm			
91 [24.02]			81 [718]	226 [2002]	361 [3198]	494 [4377]				
			347rpm	345rpm	343rpm	338rpm				

GWD300		300cm ³ /rev (18.3in ³ /rev)						最高连续 Max Cont.	最高断续 Max Int.	
压力 Pressure bar [psi→]		17[247]	35[508]	69[1001]	104[1508]	138[2001]	173[2509]	207[3002]	241[3495]	
Flow 流量	l/min(gpm↓)	扭矩 N m [lb-in] 转速 Torque N m [lb-in] Speed Specification								
	2 [0.53]	50 [443]	94 [833]							
		3rpm	1rpm							
	4 [1.06]	62 [549]	144 [1276]	300 [2658]	431 [3819]	507 [4492]	624 [5529]			
		10rpm	10rpm	8rpm	7rpm	7rpm	4rpm			
	8 [2.11]	60 [532]	156 [1382]	306 [2711]	435 [3854]	568 [5032]	674 [5972]	765 [6778]	825 [7310]	
		21rpm	18rpm	16rpm	16rpm	14rpm	11rpm	8rpm	5rpm	
	15 [3.96]	64 [567]	143 [1267]	314 [2782]	428 [3792]	574 [5086]	677 [5998]	817 [7239]	905 [8018]	
		47rpm	46rpm	42rpm	41rpm	35rpm	31rpm	26rpm	20rpm	
	23 [6.07]	57 [505]	138 [1223]	288 [2552]	422 [3739]	543 [4811]	687 [6087]	799 [7079]	942 [8346]	
		75rpm	74rpm	71rpm	66rpm	63rpm	55rpm	48rpm	39rpm	
	30 [7.92]	44 [425]	126 [1116]	303 [2685]	388 [3438]	568 [5032]	695 [6158]	822 [7283]	925 [8196]	
		100rpm	99rpm	97rpm	94rpm	85rpm	80rpm	69rpm	60rpm	
	38 [10.03]		109 [966]	280 [2481]	407 [3606]	501 [4439]	681 [6034]	792 [7017]	917 [8125]	
			125rpm	123rpm	120rpm	114rpm	104rpm	97rpm	86rpm	
	45 [11.88]		90 [797]	259 [2295]	386 [3420]	470 [4164]	638 [5653]	779 [6902]	878 [7779]	
			149rpm	148rpm	145rpm	141rpm	130rpm	120rpm	112rpm	
	53 [14.00]		75 [665]	242 [2144]	388 [3438]	528 [4678]	659 [5839]	805 [7132]	947 [8390]	
			176rpm	175rpm	174rpm	171rpm	161rpm	149rpm	136rpm	
	61 [16.10]		61 [540]	223 [1976]	363 [3216]	505 [4474]	629 [5564]	791 [7008]	912 [8080]	
		201rpm	200rpm	198rpm	190rpm	185rpm	171rpm	161rpm		
68 [17.95]			198 [1754]	336 [2977]	464 [4111]	663 [5874]	801 [7097]	894 [7921]		
			225rpm	224rpm	221rpm	209rpm	197rpm	192rpm		
76 [20.06]			168 [1488]	326 [2888]	476 [4217]	608 [5387]	742 [6574]	904 [8009]		
			251rpm	249rpm	245rpm	238rpm	231rpm	214rpm		
83 [21.91]			142 [1258]	319 [2826]	464 [4111]	573 [5077]	729 [6459]			
	Max Cont.		276rpm	274rpm	266rpm	261rpm	252rpm			
91 [24.02]			118 [1045]	280 [2481]	432 [3828]	556 [4926]	699 [6193]			
	Max Int.		302rpm	301rpm	299rpm	289rpm	278rpm			
95 [25.08]			103 [913]	260 [2304]	431 [3819]	550 [4873]	704 [6237]			
			314rpm	313rpm	309rpm	305rpm	292rpm			



Flow Data 流量参数

GWD350		348cm ³ /rev (21.2in ³ /rev)						最高连续 Max Cont.	最高断续 Max Int.
压力 Pressure bar [psi→]		17[247]	35[508]	69[1001]	104[1508]	138[2001]	173[2509]	207[3002]	241[3495]
Flow 流量	l/min(gpm↓)	扭矩 N m [lb-in] 转速 Torque N m [lb-in] Speed Specification							
	2 [0.53]	63 [558]	132 [1170]	271 [2401]	395 [3500]				
		4rpm	3rpm	3rpm	2rpm				
	4 [1.06]	62 [549]	132 [1170]	293 [2596]	434 [3845]				
		9rpm	8rpm	8rpm	7rpm				
	8 [2.11]	67 [594]	142 [1258]	309 [2738]	459 [4067]	598 [5298]	739 [6548]	852 [7549]	
		21rpm	19rpm	18rpm	17rpm	17rpm	16rpm	13rpm	
	15 [3.96]	69 [611]	149 [1320]	313 [2773]	468 [4146]	627 [5555]	768 [6804]	885 [7841]	987 [8745]
		41rpm	41rpm	39rpm	38rpm	36rpm	34rpm	33rpm	27rpm
	23 [6.07]	60 [532]	149 [1320]	312 [2764]	471 [4173]	627 [5555]	766 [6787]	921 [8160]	1028 [9108]
		63rpm	61rpm	60rpm	58rpm	55rpm	52rpm	49rpm	44rpm
	30 [7.92]	52 [461]	137 [1214]	305 [2702]	456 [4040]	623 [5520]	765 [6778]	924 [8187]	1046 [9268]
		85rpm	83rpm	82rpm	80rpm	77rpm	74rpm	68rpm	64rpm
	38 [10.03]		111 [983]	297 [2631]	428 [3792]	598 [5298]	742 [6574]	907 [8036]	1058 [9374]
			108rpm	107rpm	106rpm	99rpm	98rpm	91rpm	86rpm
	45 [11.88]		97 [859]	264 [2339]	443 [3925]	578 [5121]	737 [6530]	887 [7859]	1038 [9197]
			130rpm	129rpm	128rpm	123rpm	115rpm	107rpm	102rpm
	53 [14.00]		84 [744]	249 [2206]	420 [3721]	568 [5032]	720 [6379]	879 [7788]	1028 [9108]
			151rpm	150rpm	149rpm	145rpm	137rpm	131rpm	118rpm
	61 [16.10]		61 [540]	232 [2056]	407 [3606]	547 [4846]	718 [6361]	848 [7513]	1009 [8940]
		172rpm	171rpm	169rpm	168rpm	161rpm	153rpm	145rpm	
68 [17.95]			218 [1931]	392 [3473]	569 [5041]	694 [6149]	835 [7398]	981 [8692]	
			194rpm	192rpm	188rpm	185rpm	172rpm	162rpm	
76 [20.06]			205 [1816]	372 [3296]	510 [4519]	680 [6025]	831 [7363]	971 [8603]	
			216rpm	214rpm	213rpm	211rpm	193rpm	186rpm	
83 [21.91]			177 [1568]	349 [3092]	551 [4882]	682 [6043]	809 [7168]	953 [8444]	
Max Cont.			239rpm	238rpm	236rpm	231rpm	218rpm	213rpm	
91 [24.02]			170 [1506]	357 [3163]	531 [4705]	663 [5874]			
Max Int.			260rpm	259rpm	257rpm	254rpm			
95 [25.08]				366 [3243]	527 [4669]	645 [5715]			
				269rpm	268rpm	263rpm			

GWD375		375cm ³ /rev (22.8in ³ /rev)						最高连续 Max Cont.	最高断续 Max Int.
压力 Pressure bar [psi→]		17[247]	35[508]	69[1001]	104[1508]	138[2001]	173[2509]	207[3002]	241[3495]
Flow 流量	l/min(gpm↓)	扭矩 N m [lb-in] 转速 Torque N m [lb-in] Speed Specification							
	2 [0.53]	75 [665]							
		3rpm							
	4 [1.06]	82 [727]	160 [1418]	327 [2897]	488 [4324]	638 [5653]	759 [6725]		
		7rpm	6rpm	6rpm	5rpm	5rpm	3rpm		
	8 [2.11]	80 [709]	169 [1497]	358 [3172]	534 [4731]	685 [6069]	831 [7363]	948 [8399]	
		18rpm	17rpm	16rpm	15rpm	13rpm	11rpm	9rpm	
	15 [3.96]	74 [656]	161 [1426]	355 [3145]	534 [4731]	692 [6131]	855 [7575]	983 [8709]	1116 [9888]
		38rpm	37rpm	36rpm	34rpm	31rpm	28rpm	24rpm	19rpm
	23 [6.07]	66 [585]	156 [1382]	352 [3119]	525 [4652]	692 [6131]	861 [7628]	1008 [8931]	1162 [10295]
		59rpm	58rpm	56rpm	55rpm	49rpm	45rpm	38rpm	35rpm
	30 [7.92]	55 [487]	147 [1302]	337 [2986]	507 [4492]	692 [6131]	844 [7478]	1004 [8895]	1152 [10207]
		80rpm	79rpm	76rpm	75rpm	69rpm	62rpm	58rpm	49rpm
	38 [10.03]		131 [1161]	319 [2826]	492 [4359]	678 [6007]	832 [7372]	1003 [8887]	1152 [10207]
			100rpm	98rpm	95rpm	91rpm	85rpm	78rpm	68rpm
	45 [11.88]		112 [992]	298 [2640]	478 [4235]	642 [5688]	806 [7141]	975 [8639]	1136 [10065]
			120rpm	119rpm	117rpm	111rpm	106rpm	96rpm	90rpm
	53 [14.00]		91 [806]	278 [2463]	475 [4209]	631 [5591]	792 [7017]	946 [8382]	1114 [9870]
			141rpm	139rpm	137rpm	133rpm	126rpm	117rpm	103rpm
	61 [16.10]		72 [638]	259 [2295]	427 [3783]	596 [5281]	768 [6804]	931 [8249]	1086 [9622]
		161rpm	160rpm	159rpm	154rpm	149rpm	139rpm	128rpm	
68 [17.95]			234 [2073]	432 [3828]	595 [5272]	762 [6751]	905 [8018]	1082 [9587]	
			180rpm	179rpm	175rpm	166rpm	159rpm	149rpm	
76 [20.06]			207 [1834]	382 [3385]	559 [4953]	738 [6539]	874 [7744]	1023 [9064]	
Max Cont.			201rpm	200rpm	196rpm	188rpm	181rpm	166rpm	
83 [21.91]			176 [1559]	371 [3287]	527 [4669]	696 [6167]	835 [7398]		
Max Int.			222rpm	220rpm	216rpm	211rpm	203rpm		
91 [24.02]			138 [1223]	316 [2800]	507 [4492]	658 [5830]			
			240rpm	238rpm	237rpm	231rpm			



Flow Data 流量参数

GWD470		465cm ³ /rev (28.3in ³ /rev)					最高连续 Max Cont.	最高断续 Max Int.
压力 Pressure bar [psi→]		17[247]	35[508]	69[1001]	104[1508]	138[2001]	173[2509]	207[3002]
Flow 流量	l/min(gpm↓)	扭矩 N m [lb-in] 转速 Torque N m [lb-in] Speed Specification						
	2 [0.53]	91 [806] 2rpm	184 [1630] 1rpm					
	4 [1.06]	95 [842] 6rpm	199 [1763] 5rpm	406 [3597] 5rpm	607 [5378] 4rpm	811 [7185] 4rpm		
	8 [2.11]	95 [842] 14rpm	206 [1825] 14rpm	432 [3828] 12rpm	652 [5777] 12rpm	852 [7489] 11rpm	1022 [9055] 10rpm	1194 [10579] 8rpm
	15 [3.96]	81 [718] 30rpm	197 [1745] 27rpm	441 [3907] 26rpm	656 [5812] 26rpm	883 [7823] 23rpm	1062 [9409] 21rpm	1245 [11031] 20rpm
	23 [6.07]	83 [735] 47rpm	191 [1692] 46rpm	436 [3863] 43rpm	671 [5945] 42rpm	870 [7708] 39rpm	1068 [9462] 36rpm	1255 [11119] 31rpm
	30 [7.92]	71 [629] 63rpm	177 [1568] 62rpm	424 [3757] 60rpm	661 [5856] 59rpm	852 [7549] 55rpm	1094 [9693] 48rpm	1274 [11288] 42rpm
	38 [10.03]	50 [443] 81rpm	162 [1435] 80rpm	405 [3588] 78rpm	625 [5538] 77rpm	848 [7513] 74rpm	1064 [9427] 67rpm	1271 [11261] 60rpm
	45 [11.88]		138 [1223] 96rpm	377 [3340] 94rpm	625 [5538] 92rpm	828 [7336] 88rpm	1064 [9427] 81rpm	1269 [11243] 74rpm
	53 [14.00]		111 [983] 113rpm	348 [3083] 109rpm	576 [5103] 108rpm	796 [7053] 106rpm	1008 [8931] 101rpm	1218 [10791] 92rpm
	61 [16.10]		81 [718] 130rpm	319 [2826] 127rpm	542 [4802] 125rpm	793 [7026] 121rpm	962 [8523] 117rpm	1185 [10499] 112rpm
	68 [17.95]		54 [478] 146rpm	272 [2410] 145rpm	523 [4634] 144rpm	736 [6521] 139rpm	953 [8444] 136rpm	1162 [10295] 126rpm
	76 [20.06]			232 [2056] 162rpm	477 [4226] 161rpm	703 [6229] 156rpm	915 [8107] 152rpm	1117 [9897] 141rpm
	83 [21.91]			199 [1763] 179rpm	458 [4058] 176rpm	667 [5910] 174rpm	879 [7788] 169rpm	
	91 [24.02]			156 [1382] 195rpm	382 [3385] 193rpm	615 [5449] 188rpm	839 [7434] 184rpm	

GWD540		536cm ³ /rev (32.7in ³ /rev)				最高连续 Max Cont.	最高断续 Max Int.
压力 Pressure bar [psi→]		17[247]	35[508]	69[1001]	104[1508]	138[2001]	173[2509]
Flow 流量	l/min(gpm↓)	扭矩 N m [lb-in] 转速 Torque N m [lb-in] Speed Specification					
	2 [0.53]	102 [904] 2rpm	196 [1737] 1rpm				
	4 [1.06]	124 [1099] 6rpm	227 [2011] 6rpm	465 [4120] 5rpm	696 [6167] 5rpm	935 [8284] 4rpm	1142 [10118] 4rpm
	8 [2.11]	132 [1170] 13rpm	238 [2109] 12rpm	497 [4403] 12rpm	752 [6663] 11rpm	972 [8612] 11rpm	1181 [10464] 9rpm
	15 [3.96]	118 [1045] 27rpm	229 [2029] 27rpm	507 [4492] 26rpm	756 [6698] 25rpm	986 [8736] 23rpm	1218 [10791] 22rpm
	23 [6.07]	94 [833] 41rpm	221 [1958] 40rpm	502 [4448] 40rpm	780 [6911] 39rpm	990 [8771] 37rpm	1220 [10809] 33rpm
	30 [7.92]	76 [673] 56rpm	209 [1852] 55rpm	481 [4262] 54rpm	748 [6627] 53rpm	981 [8692] 51rpm	1249 [11066] 47rpm
	38 [10.03]	57 [505] 70rpm	188 [1666] 69rpm	452 [4005] 69rpm	726 [6432] 68rpm	957 [8479] 66rpm	1241 [10995] 61rpm
	45 [11.88]		174 [1542] 84rpm	436 [3863] 82rpm	705 [6246] 81rpm	941 [8337] 79rpm	1198 [10614] 76rpm
	53 [14.00]		136 [1205] 98rpm	415 [3677] 96rpm	681 [6034] 95rpm	948 [8399] 93rpm	1178 [10437] 90rpm
	61 [16.10]		106 [939] 112rpm	382 [3385] 112rpm	662 [5865] 110rpm	896 [7939] 109rpm	1159 [10269] 104rpm
	68 [17.95]		83 [735] 126rpm	354 [3136] 125rpm	608 [5387] 124rpm	863 [7646] 123rpm	1113 [9861] 122rpm
	76 [20.06]			321 [2844] 140rpm	601 [5325] 138rpm	826 [7318] 137rpm	1104 [9781] 132rpm
	83 [21.91]			295 [2614] 154rpm	535 [4740] 151rpm	788 [6982] 149rpm	
	91 [24.02]			214 [1896] 169rpm	488 [4324] 167rpm	747 [6618] 167rpm	



Flow Data 流量参数

GWD620		631cm ³ /rev (38.5in ³ /rev)				最高连续 Max Cont.	最高断续 Max Int.	
压力 Pressure bar [psi→]		17[247]	35[508]	69[1001]	104[1508]	121[1755]	155[2248]	
Flow 流量	l/min(gpm↓)	扭矩 N m [lb-in] 转速 Torque N m [lb-in] Speed Specification						
	2 [0.53]	117 [1037]	224 [1985]					
		2rpm	1rpm					
	4 [1.06]	134 [1187]	262 [2321]	535 [4740]	793 [7026]	932 [8258]		
		5rpm	5rpm	4rpm	4rpm	3rpm		
	8 [2.11]	139 [1232]	273 [2419]	569 [5032]	848 [7513]	982 [8701]	1251 [11084]	
		11rpm	10rpm	10rpm	9rpm	8rpm	6rpm	
	15 [3.96]	129 [1143]	268 [2374]	578 [5121]	865 [7664]	1003 [8887]	1275 [11297]	
		23rpm	22rpm	22rpm	21rpm	20rpm	16rpm	
	23 [6.07]	108 [957]	258 [2286]	572 [5068]	881 [7806]	1008 [8931]	1279 [11332]	
		35rpm	34rpm	33rpm	32rpm	31rpm	28rpm	
	30 [7.92]	88 [780]	244 [2162]	552 [4891]	852 [7549]	997 [8833]	1287 [11403]	
		47rpm	46rpm	46rpm	44rpm	43rpm	39rpm	
	38 [10.03]	65 [576]	218 [1931]	524 [4643]	831 [7363]	968 [8576]	1266 [11217]	
		58rpm	58rpm	57rpm	57rpm	55rpm	51rpm	
	45 [11.88]		201 [1781]	449 [3978]	812 [7194]	953 [8444]	1238 [10969]	
			70rpm	69rpm	69rpm	68rpm	64rpm	
	53 [14.00]		157 [1391]	473 [4191]	775 [6867]	925 [8196]	1221 [10818]	
			82rpm	79rpm	78rpm	77rpm	76rpm	
	61 [16.10]		125 [1108]	438 [3881]	749 [6636]	891 [7894]	1185 [10499]	
		94rpm	93rpm	93rpm	91rpm	88rpm		
68 [17.95]		90 [797]	407 [3606]	699 [6193]	849 [7522]	1142 [10118]		
		107rpm	105rpm	104rpm	103rpm	102rpm		
76 [20.06]			357 [3163]	673 [5963]	812 [7194]	1098 [9728]		
	Max Cont.		119rpm	117rpm	114rpm	113rpm		
83 [21.91]			328 [2906]	615 [5449]	755 [6689]			
	Max Int.		131rpm	130rpm	128rpm			
91 [24.02]			245 [2171]	557 [4935]	704 [6237]			
			141rpm	140rpm	134rpm			

GWD750		748cm ³ /rev (45.6in ³ /rev)				最高连续 Max Cont.	最高断续 Max Int.	
压力 Pressure bar [psi→]		17[247]	35[508]	69[1001]	104[1508]	138[2001]		
Flow 流量	l/min(gpm↓)	扭矩 N m [lb-in] 转速 Torque N m [lb-in] Speed Specification						
	2 [0.53]	144 [1276]	279 [2472]					
		2rpm	1rpm					
	4 [1.06]	153 [1356]	319 [2817]	648 [5741]	963 [8532]	1302 [11536]		
		4rpm	4rpm	3rpm	3rpm	3rpm		
	8 [2.11]	155 [1373]	337 [2986]	690 [6113]	1024 [9073]	1355 [12005]		
		9rpm	8rpm	8rpm	7rpm	7rpm		
	15 [3.96]	151 [1338]	330 [2924]	702 [6220]	1062 [9409]	1413 [12519]		
		19rpm	18rpm	17rpm	17rpm	15rpm		
	23 [6.07]	132 [1170]	317 [2809]	694 [6149]	1055 [9347]	1405 [12448]		
		29rpm	28rpm	27rpm	27rpm	25rpm		
	30 [7.92]	112 [992]	301 [2667]	675 [5981]	1036 [9179]	1418 [12563]		
		40rpm	39rpm	38rpm	36rpm	32rpm		
	38 [10.03]	79 [700]	268 [2374]	648 [5741]	1011 [8957]	1368 [12120]		
		49rpm	48rpm	48rpm	47rpm	46rpm		
	45 [11.88]	52 [461]	247 [2188]	614 [5440]	980 [8683]	1341 [11881]		
		60rpm	59rpm	58rpm	58rpm	55rpm		
	53 [14.00]		195 [1728]	574 [5086]	943 [8355]	1307 [11580]		
			69rpm	68rpm	67rpm	66rpm		
	61 [16.10]		147 [1302]	531 [4705]	902 [7992]	1265 [11208]		
		79rpm	78rpm	76rpm	74rpm			
68 [17.95]		102 [904]	491 [4350]	855 [7575]	1224 [10845]			
		90rpm	88rpm	88rpm	87rpm			
76 [20.06]		60 [532]	421 [3730]	802 [7106]	1168 [10348]			
	Max Cont.		99rpm	99rpm	98rpm	97rpm		
83 [21.91]			382 [3385]	745 [6601]				
	Max Int.		110rpm	109rpm				
91 [24.02]			299 [2454]	665 [5892]				
			120rpm	118rpm				

Technical Data 技术数据

Shaft Rotation Direction: Reserve Timed

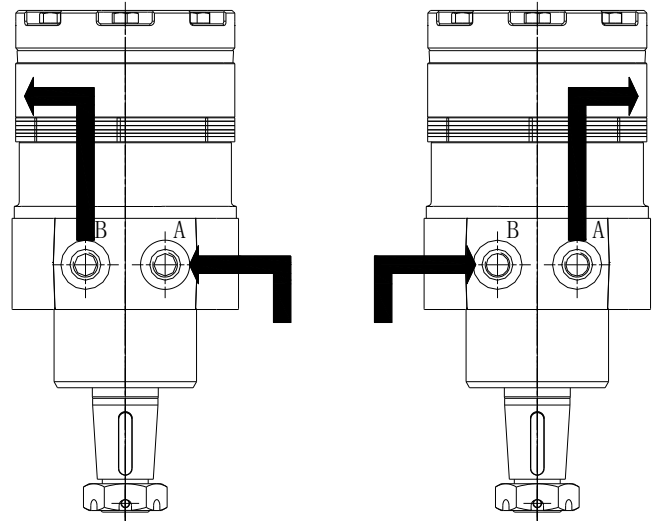
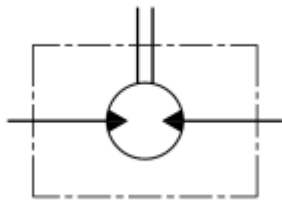
轴旋转方向：预留定时

When looking at the shaft end of motor, shaft will rotate:

- Clockwise when port "B" is pressurized.
- Counter-clockwise when port "A" is pressurized.

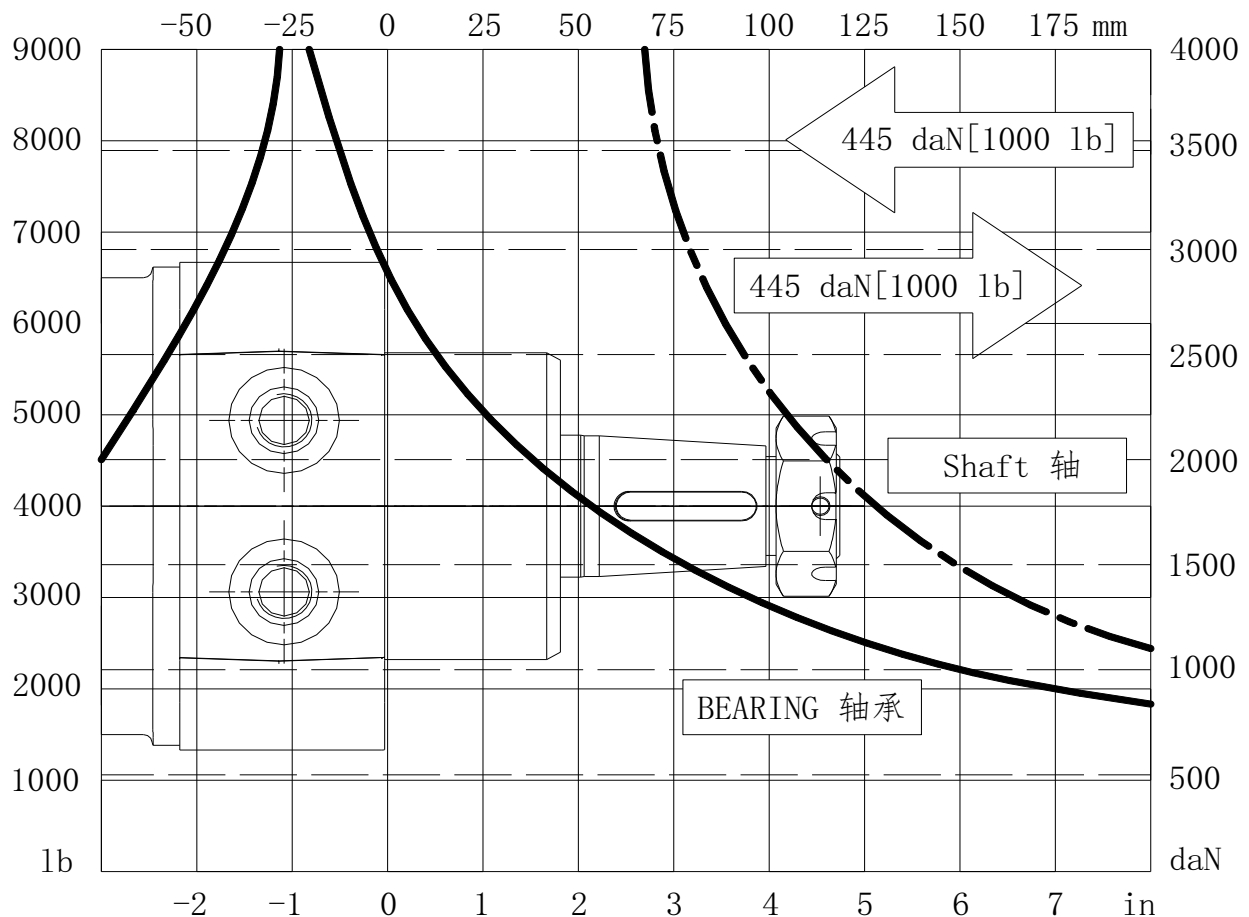
从轴端观察马达时，轴的旋转方式：

- 当端口“B”增压时，顺时针方向。
- 当端口“A”增压时，逆时针旋转。

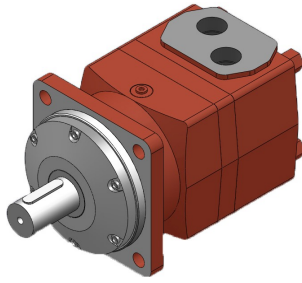


W4 & W5 Wheel Mounts

W4 & W5 轮架

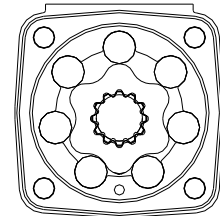


General 概述



APPLICATION 应用

- ◇ Conveyors 输送机械
- ◇ Metal working machines 金属加工器械
- ◇ Agricultural machines 农用机械
- ◇ Road building machines 铺路机
- ◇ Mining machinery 开矿机
- ◇ Food industries 食品工业
- ◇ Special vehicles etc. 特殊设备
- ◇ Injection molding machines 注塑机



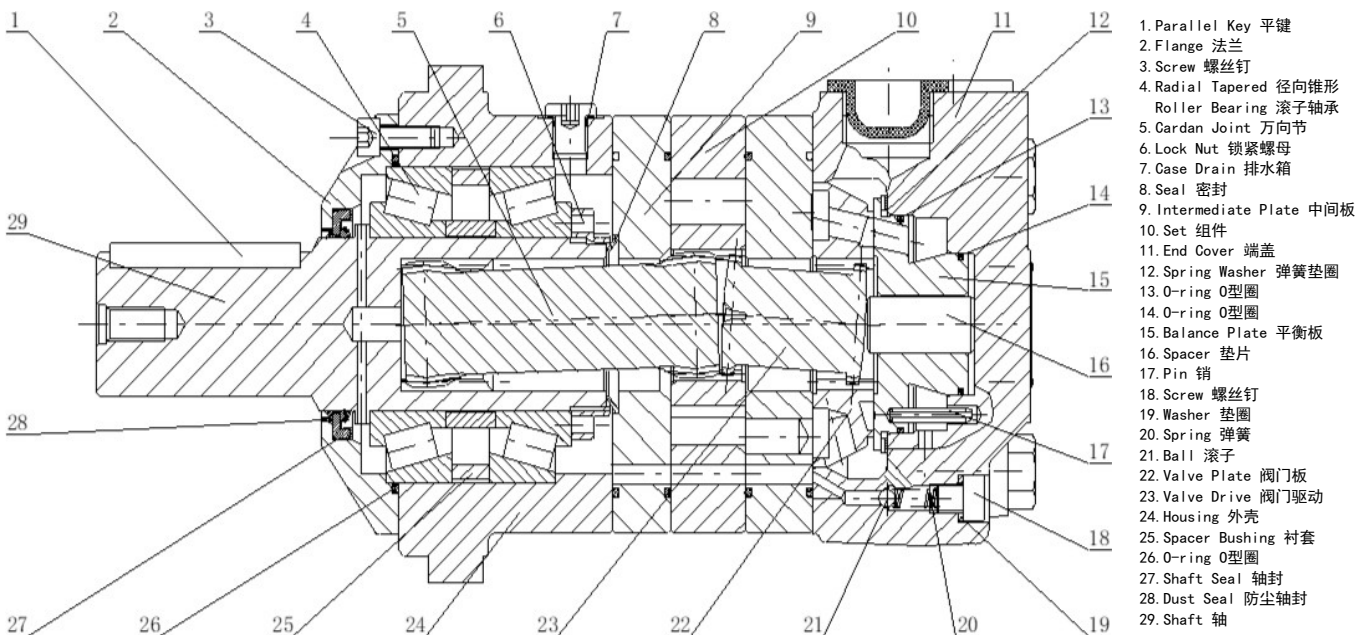
OPTIONS 可选功能

- ◇ Flange mount 法兰安装
- ◇ Short motor 短马达
- ◇ Tachometer connection 转速器接头
- ◇ Side ports 侧面油口
- ◇ Shafts-straight, splined and tapered 轴伸-平键, 花键, 锥键
- ◇ Metric and BSPP ports 公制和BSPP油口
- ◇ Other special features 其他功能

- ◇ Disc distribution flow 盘配流

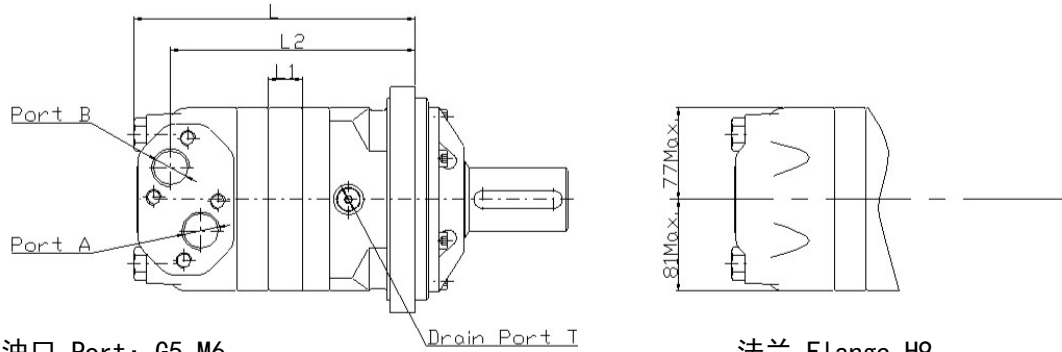
技术指标

型号 Model		GV315	GV400	GV500	GV630	GV800
排量 Disp.	in ³ /rev	19.18	24.45	30.48	38.38	48.91
	cm ³ /rev	314.5	400.9	499.6	629.1	801.8
最高转速 Max Speed rpm	连续 cont.	510	500	400	320	250
	断续 int.	630	600	480	380	300
最大扭矩 Max Torque N m [lb-in]	连续 cont.	920 [8150]	1180 [10450]	1460 [12950]	1660 [14700]	1880 [16650]
	断续 int.	1110 [9800]	1410 [12500]	1760 [15550]	1940 [17150]	2110 [18650]
最大压力差 Max Dif. bar [psi]	连续 cont.	200 [2900]	200 [2900]	200 [2900]	180 [2610]	160 [2320]
	断续 int.	240 [3480]	240 [3480]	240 [3480]	210 [3050]	180 [2610]
最大流量 Max Flow l/min [gpm]	连续 cont.	160 [42.3]	200 [52.8]	200 [52.8]	200 [52.8]	200 [52.8]
	断续 int.	200 [52.8]	240 [63.4]	240 [63.4]	240 [63.4]	240 [63.4]
重量 Weight kg [lbs]		31.8 [70.1]	32.6 [71.9]	33.5 [73.8]	34.9 [76.9]	36.5 [80.5]



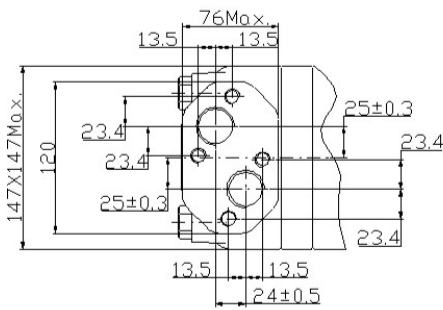
1. Parallel Key 平键
2. Flange 法兰
3. Screw 螺丝钉
4. Radial Tapered Roller Bearing 径向锥形滚子轴承
5. Cardan Joint 万向节
6. Lock Nut 锁紧螺母
7. Case Drain 排水箱
8. Seal 密封
9. Intermediate Plate 中间板
10. Set 组件
11. End Cover 端盖
12. Spring Washer 弹簧垫圈
13. O-ring O型圈
14. O-ring O型圈
15. Balance Plate 平衡板
16. Spacer 垫片
17. Pin 销
18. Screw 螺丝钉
19. Washer 垫圈
20. Spring 弹簧
21. Ball 滚子
22. Valve Plate 阀门板
23. Valve Drive 阀门驱动
24. Housing 外壳
25. Spacer Bushing 衬套
26. O-ring O型圈
27. Shaft Seal 轴封
28. Dust Seal 防尘轴封
29. Shaft 轴

Dimensions and Mounting Data 尺寸和安装参数

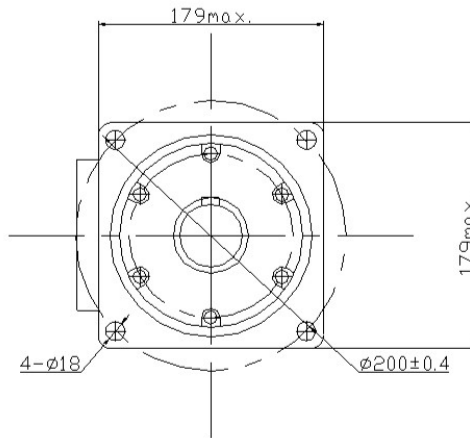


油口 Port: G5, M6

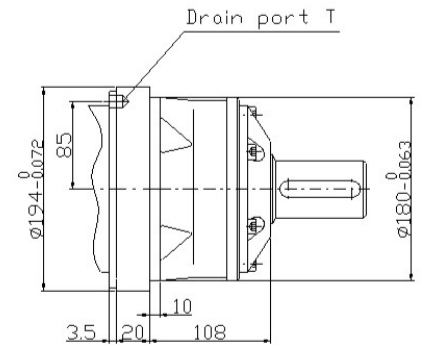
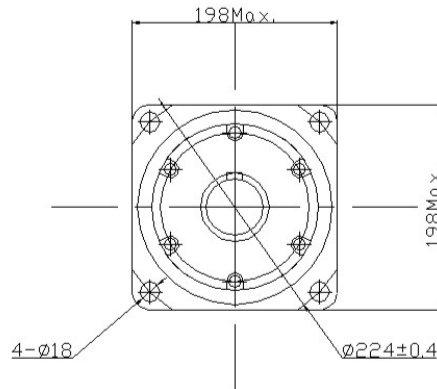
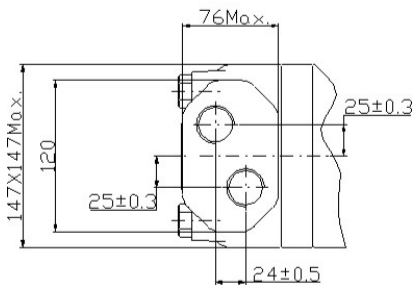
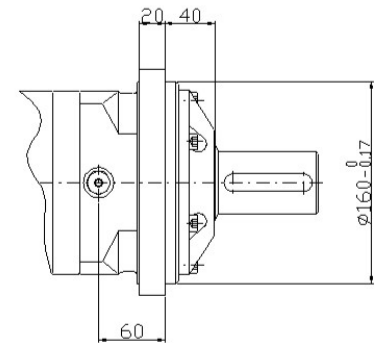
法兰 Flange H9



油口 Port: U6, G6, M7, U7



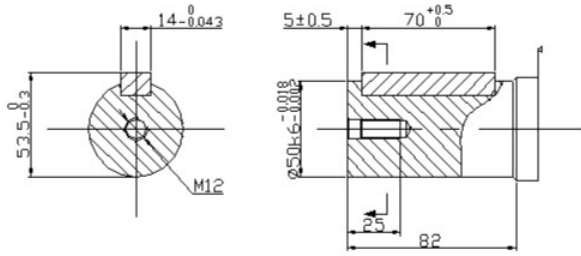
法兰 Flange W3



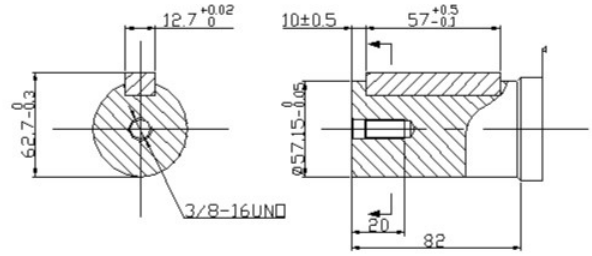
Model 型号	L	L1	L2
GV315	217	20	161.5
GV400	224	27	168.5
GV500	232	35	176.5
GV630	244	47	188.5
GV800	255	58	199.5

Port 油口	G5 (Depth)	M6 (Depth)	U6 (Depth)	G6 (Depth)	M7 (Depth)	U7 (Depth)
	深度	深度	深度	深度	深度	深度
P(A,B)	G1 (18)	M33x2 (18)	1-5/16-12UN (18)	G1 (18)	M33x2 (18)	1-5/16-12UN (18)
T	G1/4 (12)	M14x1.5 (12)	9/16-18UNF (12)	G1/4 (12)	M14x1.5 (12)	7/16-20UNF (12)
C	4-M12 (12)	4-M12 (12)				

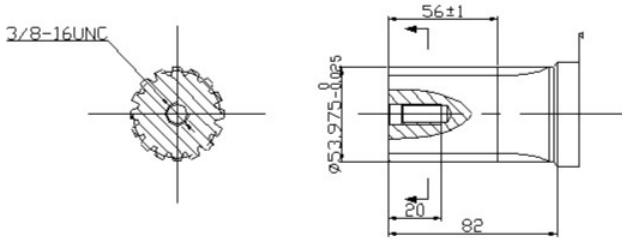
GV Shaft Extension Dimensions Data GV系列轴伸尺寸参数



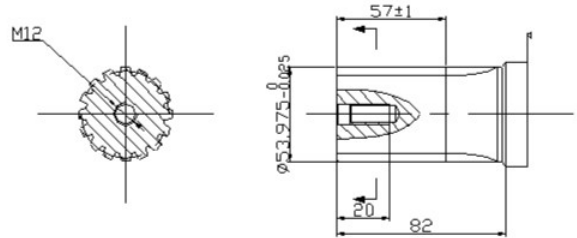
Shaft SN: Cylindrical shaft $\varnothing 50$
 Parallel key 14x9x70
 SN轴: 圆柱轴 $\varnothing 50$
 平键 14x9x70



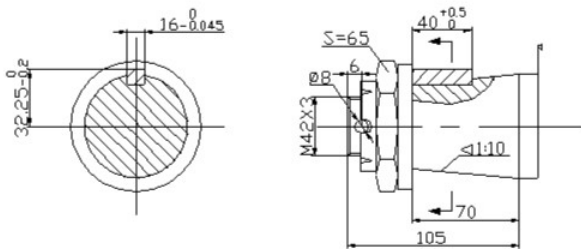
Shaft SP: Cylindrical shaft $\varnothing 57.15$
 Parallel key 12.7x12.7x57
 SP轴: 圆柱轴 $\varnothing 57.15$
 平键 12.7x12.7x57



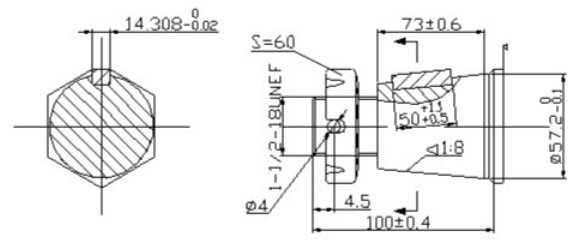
Shaft RB: Splined key 16-DP8/16
 RB轴: 花键16-DP8/16



Shaft RC: Splined key 16-DP8/16
 RC轴: 花键16-DP8/16



Shaft T8: Tapered shaft $\varnothing 60$
 Parallel key 16x10x32
 Tightening torque: 750 ± 50 Nm
 T8轴: 锥轴 $\varnothing 60$
 平键 B16x10x32
 螺母拧紧力矩: 750 ± 50 Nm



Shaft T9: Tapered shaft $\varnothing 57.2$
 Parallel key 14.308x14.308x50
 Tightening torque: 750 ± 50 Nm
 T9轴: 锥轴 $\varnothing 57.2$
 平键 14.308x14.308x50
 螺母拧紧力矩: 750 ± 50 Nm



GV Shaft Extension Dimensions Data GV系列轴伸尺寸参数

Ordering Example:		Model	Displacement	Flange	Drive shaft	Ports	Other functions
		GV	315	H9	C3	G5	ACA
Model	Disp.	Flange		Drive Shaft		Ports	
GV	315	H9=4-∅18 square flange ∅200, pilot ∅160x11		C3=Cardan shaft 16-DP10/20		G5=G1 manifold 4xM12, G1/4 M6=M33x2 manifold 4xM12, M14x1.5 U6=1-5/16-12UN 0-ring, 9/16-18UNF G6=G1, G1/4 M7=M33x2, M14x1.5 U7=1-5/16-12UN 0-ring, 7/16-20UNF	
	400	W3=4-∅18 wheel flange ∅224, pilot ∅180x10		SN=Shaft ∅50, parallel key 14x9x70			
	500	B3=4-∅14 circle flange ∅180, pilot ∅140x8		RB=Shaft ∅53.975, splined tooth 16-DP8/16			
	630			RC=Shaft ∅53.975, splined tooth 16-DP8/16			
	800			SP=Shaft ∅57.15, parallel key 12.7x12.7x57.15			
				T8=Tapered shaft ∅60, parallel key 16x10x32			
				T9=Tapered shaft ∅60, parallel key 14.308x14.308x50.8			

Rotation direction	Paint	Unusually function
A=Standard R=Opposite	A=No paint B=Blue C=Black S=Silver grey	A=Standard N=Big radial force D=No case drain F=Free running L=Low speed V=High temperature S=Low temperature



GV Shaft Extension Dimensions Data GV系列轴伸尺寸参数

订购示例:		型号	排量	法兰	传动轴	油口	其他功能
		GV	315	H9	C3	G5	ACA
型号	排量	法兰		传动轴		油口	
GV	315	H9=4-∅18方形法兰∅200, 止口 ∅160x11		C3=万向轴 16-DP10/20 SN=轴∅50, 平键14x9x70		G5=G1 集成块安装4xM12, G1/4	
	400	W3=4-∅18轮型法兰∅224, 止口 ∅180x10		RB=轴∅53.975, 花键齿16-DP8/16		M6=M33x2 集成块安装4xM12, M14x1.5	
	500	W3=4-∅18轮型法兰∅224, 止口 ∅180x10		RC=轴∅53.975, 花键齿16-DP8/16		U6=1-5/16-12UN 0型圈, 9/16-18UNF	
	630	B3=4-∅14圆形法兰∅180, 止口 ∅140x8		SP=轴∅57.15, 平键 12.7x12.7x57.15		G6=G1, G1/4	
	800	B3=4-∅14圆形法兰∅180, 止口 ∅140x8		T8=锥形轴∅60, 平键 16x10x32 T9=锥形轴∅60, 平键 14.308x14.308x50.8		M7=M33x2, M14x1.5 U7=1-5/16-12UN 0型圈, 7/16-20UNF	

旋转方向	喷漆	不常用的功能
A=标准 R=反向	A=无喷漆 B=蓝色 C=黑色 S=银灰色	A=标准 N=大径向力 D=无泄油口 F=自由转 L=低速 V=高温 S=低温



Flow Data 流量参数

GV315		314.5cm ³ /rev(19.18in ³ /rev)					最高连续 Max Cont.	最高断续 Max Int.
压力 Pressure bar [psi→]		35.5 [507]	71.1 [1015]	101.5 [1450]	142.1 [2030]	182.7 [2610]	203 [2900]	243.6 [3480]
Flow 流量	l/min [gpm↓]	扭矩 N m [lb-in] 转速 Torque N m [lb-in] Speed Specification						
	10 [2.64]	140 [1239]	294 [2602]	440 [3894]	610 [5398]	731 [6467]	845 [7478]	1000 [8850]
		26rpm	24rpm	23rpm	22rpm	20rpm	17rpm	14rpm
	20 [5.28]	153 [1354]	314 [2779]	466 [4124]	636 [5629]	787 [6965]	895 [7921]	1070 [9470]
		55rpm	54rpm	53rpm	52rpm	51rpm	48rpm	44rpm
	50 [13.21]	149 [1318]	312 [2761]	465 [4115]	654 [5788]	815 [7213]	935 [8275]	1112 [9842]
		145rpm	144rpm	142rpm	140rpm	137rpm	133rpm	127rpm
	75 [19.81]	143 [1265]	304 [2690]	459 [4058]	642 [5682]	816 [7222]	940 [8319]	1119 [9903]
		220rpm	218rpm	215rpm	211rpm	207rpm	202rpm	195rpm
	100 [26.42]	136 [1203]	297 [2628]	452 [4000]	636 [5629]	810 [7169]	936 [8284]	1108 [9806]
		294rpm	292rpm	290rpm	287rpm	283rpm	278rpm	270rpm
	125 [33.02]	123 [1088]	286 [2531]	442 [3912]	626 [5540]	799 [7071]	921 [8151]	1093 [9673]
		368rpm	366rpm	364rpm	361rpm	357rpm	352rpm	345rpm
	150 [39.63]	114 [1008]	275 [2433]	435 [3850]	615 [5443]	788 [6974]	906 [8018]	1078 [9541]
		Max Cont.	445rpm	443rpm	441rpm	437rpm	430rpm	422rpm
	160 [42.27]	107 [947]	268 [2371]	430 [3805]	608 [5381]	780 [6903]	895 [7921]	1070 [9470]
475rpm		473rpm	470rpm	466rpm	460rpm	452rpm	439rpm	
200 [52.83]	82 [725]	249 [2203]	412 [3646]	593 [5248]	758 [6708]	871 [7708]	1047 [9266]	
	Max Int.	596rpm	594rpm	590rpm	584rpm	576rpm	565rpm	544rpm

GV400		400.9cm ³ /rev(24.45in ³ /rev)					最高连续 Max Cont.	最高断续 Max Int.
压力 Pressure bar [psi→]		35.5 [507]	71.1 [1015]	101.5 [1450]	142.1 [2030]	182.7 [2610]	203 [2900]	243.6 [3480]
Flow 流量	l/min [gpm↓]	扭矩 N m [lb-in] 转速 Torque N m [lb-in] Speed Specification						
	10 [2.64]	183 [1619]	385 [3407]	568 [5027]	776 [6868]	968 [8567]	1101 [9744]	1292 [11435]
		20rpm	20rpm	19rpm	18rpm	17rpm	16rpm	14rpm
	20 [5.28]	196 [1734]	398 [3522]	590 [5221]	815 [7213]	1010 [8939]	1152 [10196]	1346 [11913]
		44rpm	44rpm	43rpm	42rpm	40rpm	39rpm	37rpm
	50 [13.21]	200 [1770]	402 [3557]	603 [5336]	842 [7452]	927 [9204]	1186 [10496]	1430 [12656]
		114rpm	113rpm	113rpm	112rpm	110rpm	108rpm	103rpm
	75 [19.81]	195 [1725]	394 [3487]	596 [5275]	838 [7416]	1043 [9231]	1188 [10514]	1432 [12674]
		175rpm	173rpm	170rpm	166rpm	163rpm	157rpm	152rpm
	100 [26.42]	172 [1522]	385 [3407]	593 [5248]	827 [7319]	1036 [9169]	1184 [10479]	1425 [12612]
		236rpm	235rpm	233rpm	231rpm	227rpm	223rpm	215rpm
	125 [33.02]	167 [1478]	374 [3310]	583 [5159]	816 [7222]	1021 [9036]	1177 [10417]	1413 [12506]
		296rpm	294rpm	291rpm	288rpm	282rpm	275rpm	268rpm
	150 [39.63]	158 [1398]	361 [3195]	559 [4947]	801 [7089]	1008 [8921]	1167 [10311]	1390 [12302]
		355rpm	354rpm	352rpm	349rpm	344rpm	335rpm	324rpm
	175 [46.23]	143 [1265]	346 [3062]	553 [4894]	784 [6938]	989 [8753]	1145 [10134]	1377 [12187]
416rpm		414rpm	411rpm	407rpm	403rpm	396rpm	388rpm	
200 [52.83]	118 [1044]	331 [2929]	536 [4743]	770 [6815]	969 [8576]	1128 [9983]	1356 [12001]	
	Max Cont.	475rpm	473rpm	469rpm	463rpm	455rpm	448rpm	439rpm
240 [63.4]	82 [725]	301 [2664]	506 [4478]	740 [6549]	943 [8346]	1104 [9771]	1332 [11789]	
	Max Int.	571rpm	569rpm	565rpm	548rpm	539rpm	520rpm	



Flow Data 流量参数

GV500		499.6cm ³ /rev (30.48in ³ /rev)					最高连续 Max Cont.	最高断续 Max Int.
压力 Pressure (psi→)		507	1015	1450	2030	2610	2900	3480
Flow 流量	(gpm↓)	扭矩 N m [lb-in] 转速 Torque N m [lb-in] Speed Specification						
	2.64	242 [2141]	468 [4142]	696 [6160]	959 [8487]	1190 [10532]	1353 [11975]	1607 [14223]
		17rpm	17rpm	16rpm	16rpm	15rpm	13rpm	11rpm
	5.28	245 [2169]	501 [4434]	738 [6531]	1003 [8877]	1232 [10904]	1394 [12337]	1658 [14674]
		36rpm	35rpm	35rpm	34rpm	33rpm	32rpm	29rpm
	13.21	240 [2124]	500 [4425]	758 [6708]	1025 [9072]	1270 [11240]	1449 [12824]	1743 [15426]
		93rpm	92rpm	91rpm	90rpm	88rpm	85rpm	80rpm
	19.81	233 [2062]	498 [4407]	752 [6655]	1030 [9116]	1288 [11399]	1475 [13054]	1766 [15630]
		140rpm	139rpm	137rpm	135rpm	132rpm	127rpm	120rpm
	26.42	228 [2017]	491 [4345]	748 [6620]	1026 [9080]	1289 [11408]	1472 [13028]	1760 [15577]
		189rpm	187rpm	185rpm	182rpm	178rpm	173rpm	166rpm
	33.02	220 [1947]	483 [4274]	742 [6567]	1014 [8974]	1280 [11328]	1460 [12922]	1745 [15444]
		237rpm	236rpm	234rpm	231rpm	227rpm	223rpm	216rpm
	39.63	201 [1778]	465 [4115]	723 [6399]	1008 [8921]	1250 [11063]	1429 [12647]	1736 [15364]
		287rpm	286rpm	284rpm	281rpm	276rpm	270rpm	260rpm
	46.23	182 [1610]	446 [3947]	711 [6292]	997 [8824]	1238 [10957]	1406 [12444]	1715 [15179]
335rpm		334rpm	332rpm	329rpm	325rpm	320rpm	310rpm	
52.83 Max Cont.	161 [1424]	423 [3743]	776 [6868]	974 [8620]	1218 [10780]	1385 [12258]	1697 [15019]	
	384rpm	383rpm	381rpm	378rpm	374rpm	366rpm	354rpm	
63.4 Max Int.	120 [1062]	378 [3345]	722 [6390]	921 [8151]	1172 [10373]	1340 [11859]	1650 [14603]	
	461rpm	459rpm	457rpm	454rpm	450rpm	444rpm	432rpm	

GV630		629.1cm ³ /rev (38.38in ³ /rev)					最高连续 Max Cont.	最高断续 Max Int.
压力 Pressure (psi→)		507	870	1305	1740	2175	2610	3045
Flow 流量	(gpm↓)	扭矩 N m [lb-in] 转速 Torque N m [lb-in] Speed Specification						
	2.64	280 [2478]	522 [4620]	812 [7186]	1100 [9735]	1268 [11222]	1549 [13709]	1784 [15789]
		14rpm	13rpm	13rpm	12rpm	12rpm	11rpm	10rpm
	5.28	288 [2549]	552 [4885]	839 [7425]	1101 [9744]	1315 [11638]	1607 [14223]	1864 [16497]
		28rpm	28rpm	27rpm	27rpm	26rpm	24rpm	22rpm
	13.21	289 [2557]	555 [4912]	868 [7682]	1137 [10063]	1364 [12072]	1682 [14886]	1956 [17312]
		72rpm	72rpm	71rpm	69rpm	68rpm	66rpm	62rpm
	19.81	270 [2389]	548 [4850]	863 [7638]	1120 [9912]	1352 [11966]	1680 [14869]	1964 [17382]
		109rpm	108rpm	106rpm	104rpm	102rpm	99rpm	94rpm
	26.42	264 [2336]	538 [4761]	856 [7576]	1083 [9585]	1350 [11948]	1674 [14816]	1965 [17391]
		146rpm	145rpm	143rpm	141rpm	138rpm	135rpm	130rpm
	33.02	251 [2221]	516 [4566]	837 [7408]	1071 [9479]	1336 [11824]	1659 [14683]	1950 [17258]
		184rpm	183rpm	181rpm	179rpm	177rpm	173rpm	168rpm
	39.63	240 [2124]	495 [4381]	817 [7231]	1063 [9408]	1330 [11771]	1650 [14603]	1928 [17064]
		221rpm	220rpm	219rpm	217rpm	215rpm	212rpm	205rpm
	46.23	210 [1858]	485 [4292]	796 [7045]	1052 [9310]	1300 [11505]	1636 [14479]	1908 [16887]
259rpm		258rpm	257rpm	254rpm	250rpm	246rpm	241rpm	
52.83 Max Cont.	182 [1610]	469 [4150]	751 [6646]	1018 [9010]	1280 [11328]	1611 [14258]	1883 [16665]	
	297rpm	297rpm	295rpm	293rpm	290rpm	284rpm	273rpm	
63.4 Max Int.	130 [1150]	146 [3681]	712 [6301]	978 [8656]	1237 [10948]	1563 [13833]	1835 [16241]	
	358rpm	357rpm	355rpm	351rpm	346rpm	340rpm	332rpm	



Flow Data 流量参数

GV800		801.8cm ³ /rev (48.91in ³ /rev)					最高连续 Max Cont.	最高断续 Max Int.	
压力 Pressure bar [psi→]		18.3 [262]	50.8 [725]	81.2 [1160]	101.5 [1450]	132.0 [1885]	162.4 [2320]	182.7 [2610]	
Flow 流量	l/min [gpm↓]	扭矩 N m [lb-in] 转速 Torque N m [lb-in] Speed Specification							
	10 [2.64]	278 [2460]	565 [5000]	830 [7346]	1095 [9691]	1405 [12435]	1712 [15152]	1915 [16949]	
		11rpm	10rpm	10rpm	9rpm	8rpm	8rpm	7rpm	
	20 [5.28]	282 [2495]	571 [5053]	845 [7478]	1150 [10178]	1456 [12886]	1783 [15780]	1994 [17648]	
		23rpm	22rpm	22rpm	21rpm	20rpm	18rpm	16rpm	
	50 [13.21]	288 [2549]	582 [5151]	856 [7576]	1162 [10284]	1463 [12948]	1790 [15842]	2001 [17710]	
		60rpm	59rpm	57rpm	56rpm	54rpm	52rpm	48rpm	
	75 [19.81]	269 [2380]	580 [5133]	855 [7567]	1167 [10331]	1465 [12966]	1786 [15807]	1993 [17639]	
		91rpm	90rpm	89rpm	87rpm	84rpm	81rpm	77rpm	
	100 [26.42]	251 [2221]	566 [5009]	840 [7434]	1140 [10089]	1448 [12815]	1767 [15639]	1985 [17568]	
		122rpm	121rpm	120rpm	118rpm	115rpm	111rpm	105rpm	
	125 [33.02]	242 [2141]	535 [4735]	824 [7293]	1118 [9895]	1427 [12630]	1739 [15391]	1976 [17489]	
		153rpm	152rpm	150rpm	147rpm	143rpm	139rpm	133rpm	
	150 [39.63]	236 [2088]	526 [4655]	808 [7151]	1102 [9753]	1401 [12399]	1714 [15170]	1959 [17338]	
185rpm		183rpm	181rpm	178rpm	174rpm	169rpm	163rpm		
175 [46.23]	215 [1902]	504 [4460]	793 [7018]	1079 [9549]	1377 [12187]	1698 [15028]	1936 [17135]		
	216rpm	214rpm	212rpm	209rpm	206rpm	203rpm	196rpm		
200 [52.83]	197 [1743]	468 [4142]	765 [6770]	1063 [9408]	1362 [12054]	1681 [14878]	1913 [16931]		
	Max Cont.	247rpm	245rpm	243rpm	240rpm	237rpm	232rpm	225rpm	
240 [63.4]	118 [1044]	388 [3434]	713 [6310]	1020 [9027]	1318 [11665]	1637 [14488]	1838 [16267]		
	Max Int.	297rpm	296rpm	295rpm	293rpm	288rpm	283rpm	277rpm	

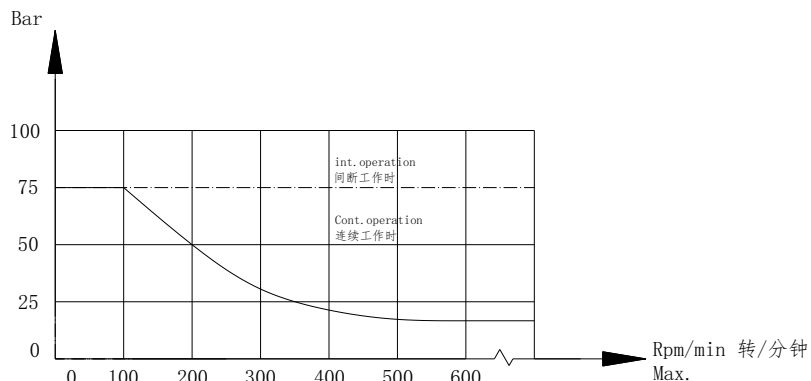
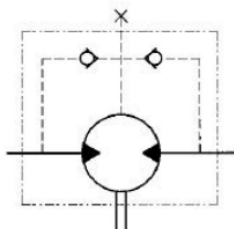
Technical Data 技术数据

Hydraulic orbit Motors GV

Permissible shaft seal pressure

GV系列摆线液压马达

输出轴密封圈允许承受的压力

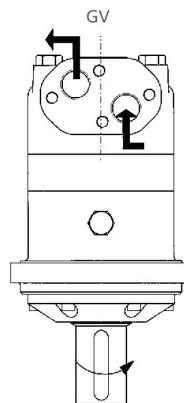


In applications without drain line, output shaft seal exceeds a bit of the pressure in the return line. When applications use the drain line, the pressure of output shaft seal equals the pressure in drain line.

在无外卸油管的使用中，输出轴密封圈上的压力微高于回油管路中的压力。当使用外卸油管时，输出轴密封圈上的压力则与外泄油管路中的压力相同。

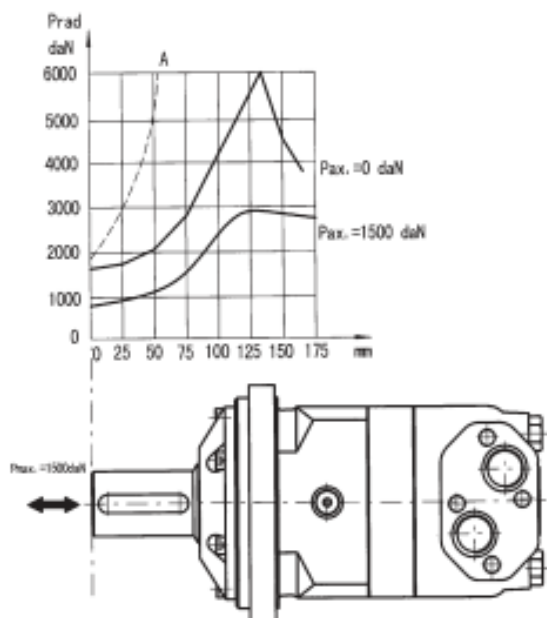
Standard direction of shaft rotation: Standard

轴旋转的标准方向：标准



Axial and Radial forces

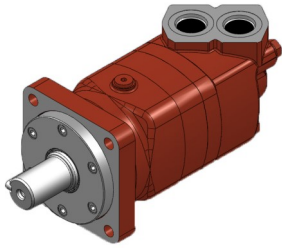
轴向力和径向力



The output shaft runs in tapered bearings that permit high axial and radial forces. Curve "A" shows max radial shaft load. Any shaft loads exceeding the values quoted in the curve will involve a risk of breakage. The two other curves apply to a B10 bearing life of 3000 hours at 200 RPM.

输出轴允许在高轴向力和径向力的圆锥轴承中运行，曲线“A”显示最大径向轴负载，任何超过该曲线中引用值的轴负载都将有断裂的危险，另外两条曲线适用于B10在200 RPM下的使用寿命为3000小时。

General 概述

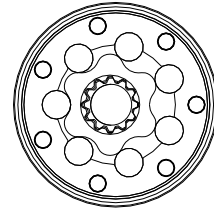


APPLICATION 应用

- ◇ Conveyors 输送机械
- ◇ Feeding machinery of robots and manipulators 机器人和操纵器的给料机械
- ◇ Metal working machines 金属加工机械
- ◇ Textile machines 纺织机械
- ◇ Agricultural machines 农用机械
- ◇ Food industries 食品工业
- ◇ Mining machines 矿山机械

OPTIONS 可选功能

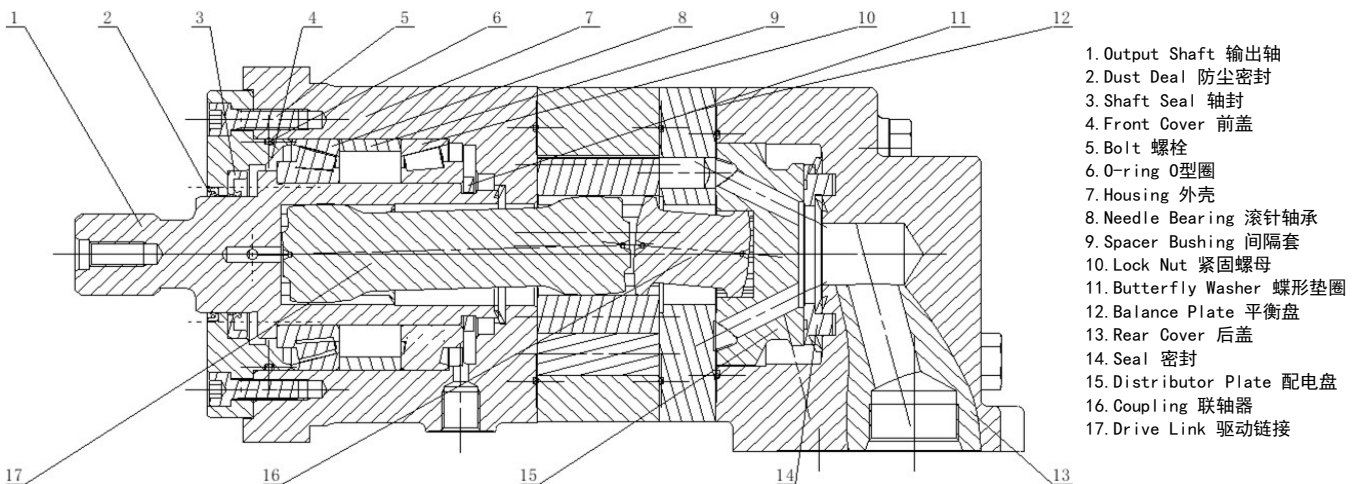
- ◇ Flange connection 法兰连接
- ◇ Shafts—straight, splined and tapered 轴伸: 平键、花键、锥键
- ◇ Metric and BSPP ports 公制和BSPP油口
- ◇ Other special features 其他功能



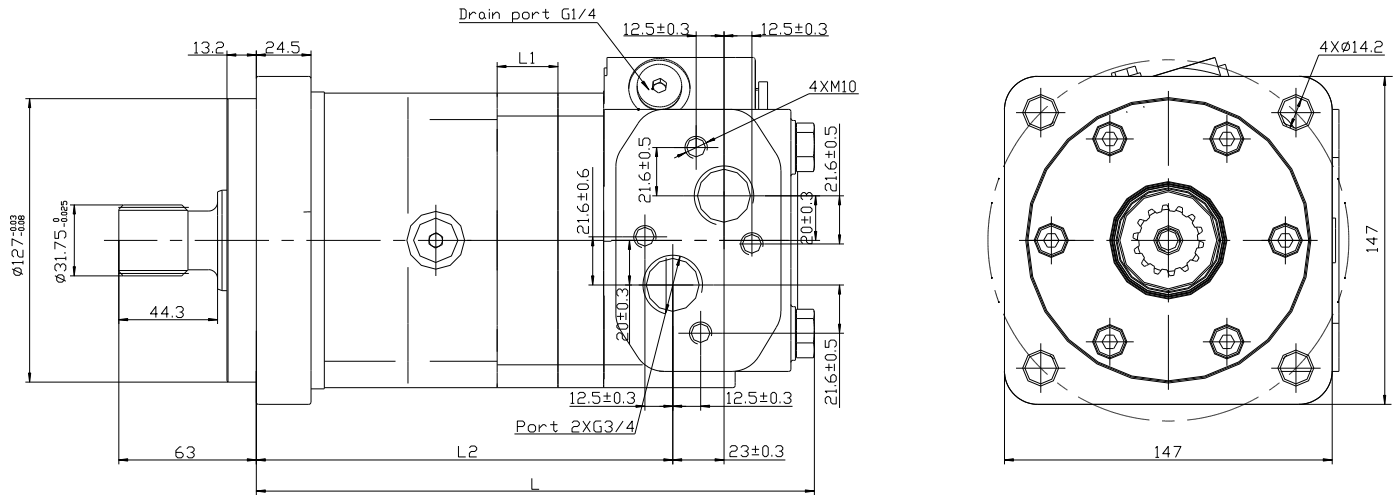
- ◇ Disc distribution flow 盘配流

技术指标

型号 Model		GKC195	GKC245	GKC310	GKC395	GKC490	GKC625	GKC800	GKC985
排量 Disp.	in ³ /rev	11.93	15.01	19.01	23.87	29.95	38.01	48.96	59.90
	cm ³ /rev	195.6	246.1	311.6	391.3	490.8	623	802.4	981.6
最高转速 Max Speed rpm	连续 cont.	765	610	480	382	304	240	186	152
	断续 int.	865	830	690	570	455	360	280	230
最大扭矩 Max Torque N m [lb-in]	连续 cont.	565 [5000]	710 [6284]	920 [8142]	1160 [10266]	1445 [12789]	1480 [13099]	1580 [13984]	1675 [14824]
	断续 int.	840 [7434]	1080 [9558]	1325 [11727]	1625 [14382]	1880 [16639]	1890 [16726]	1880 [16639]	1860 [16462]
最大压力差 Max Dif. bar [psi]	连续 cont.	203 [2900]	203 [2900]	203 [2900]	203 [2900]	203 [2900]	178 [2538]	142 [2031]	142 [2031]
	断续 int.	305 [4351]	305 [4351]	305 [4351]	305 [4351]	279 [3988]	228 [3263]	178 [2538]	142 [2031]
最大流量 Max Flow l/min [gpm]	连续 cont.	150 [39.62]	150 [39.62]	150 [39.62]	150 [39.62]	150 [39.62]	150 [39.62]	150 [39.62]	150 [39.62]
	断续 int.	170 [44.90]	205 [54.15]	225 [59.43]	225 [59.43]	225 [59.43]	225 [59.43]	225 [59.43]	225 [59.43]
重量 Weight kg [lbs]		25.2 [56]	25.7 [57]	26.6 [59]	27.0 [60]	28.4 [63]	29.7 [66]	31.5 [70]	33.3 [74]



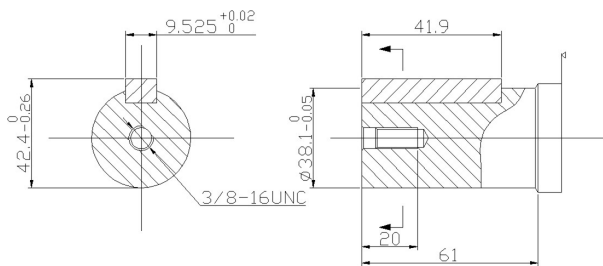
Dimensions and Mounting Data 尺寸和安装参数



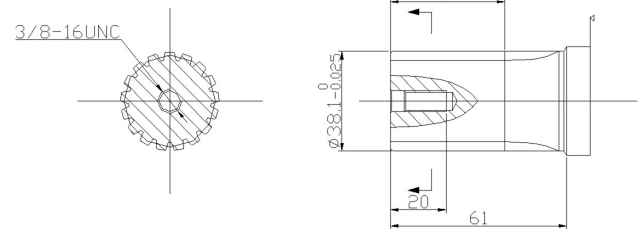
法兰 Flange CC

Model 型号	L	L1	L2
GKC195	247	21.7	182
GKC245	252	27.3	187
GKC310	278	34.5	200
GKC395	287	43.4	209.5
GKC490	298	54.4	221
GKC625	313	69.1	235
GKC800	333	88.9	255
GKC985	353	109	274.6

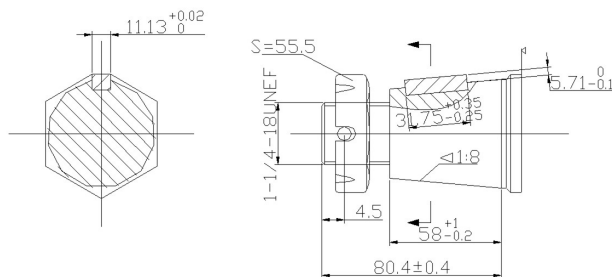
GKC Shaft Extension Dimensions Data GKC系列轴伸尺寸参数



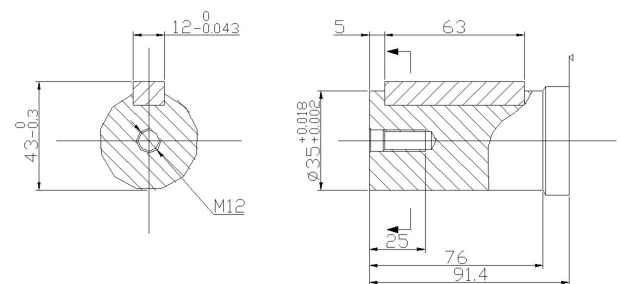
Shaft G2: Cylindrical shaft $\phi 38.1$
Parallel key 9.525x9.525x41.9
G2轴: 圆柱轴 $\phi 38.1$
平键 9.525x9.525x41.9



Shaft FE: Splined 17-DP12/24
FE轴: 花键17-DP12/24



Shaft T1: Tapered shaft $\phi 45$
Parallel key 11.13x11.13x31.75
Tightening torque: 500 \pm 10Nm
T1轴: 锥轴 $\phi 45$
平键 11.13x11.13x31.75
螺母拧紧力矩: 500 \pm 10Nm



Shaft Y1: Cylindrical shaft $\phi 35$
Parallel key 12x12x63
Y1轴: 圆柱轴 $\phi 35$
平键 12x12x63



GKC Shaft Extension Dimensions Data GKC系列轴伸尺寸参数

Ordering Example:		Model	Displacement	Flange	Drive shaft	Ports	Other functions
		GKC	195	CC	G2	G3	ACA
Model	Disp.	Flange		Drive shaft		Ports	
GKC	195 245 310 395 490 625 800 985	CC=4- \varnothing 14.2 square flange \varnothing 162, pilot \varnothing 127x13.2		Y1=Shaft \varnothing 35, parallel key 12x12x63 G2=Shaft \varnothing 38.1, parallel key 9.53x9.53x41.9 FE=Shaft \varnothing 38.1, splined tooth 17-DP12/24 T1=Tapered shaft 1:8 \varnothing 45, parallel key 11.13x11.13x31.75		G3=G3/4 manifold mount 4xM10, G1/4 SF5=1-5/16-12UN O-ring, 7/16-20UNF SF7=G1, G1/4	

Rotation direction	Paint	Unusually function
A=Standard R=Opposite	A=No paint B=Blue C=Black S=Silver grey	A=Standard N=Big radial force D=No case drain F=Free running L=Low speed V=High temperature S=Low temperature



GKC Shaft Extension Dimensions Data GKC系列轴伸尺寸参数

订购示例:		型号	排量	法兰	传动轴	油口	其他功能
		GKC	195	CC	G2	G3	ACA
型号	排量	法兰		传动轴		油口	
GKC	195 245 310 395 490 625 800 985	CC=4- \varnothing 14.2方形法兰 \varnothing 162, 止口 \varnothing 127x13.2		Y1=轴 \varnothing 35, 平键12x12x63 G2=轴 \varnothing 38.1, 平键 9.53x9.53x41.9 FE=轴 \varnothing 38.1, 花键齿17-DP12/24 T1=锥形轴1:8 \varnothing 45, 平键 11.13x11.13x31.75		G3=G3/4 集成块安装4xM10, G1/4 SF5=1-5/16-12UN O型圈, 7/16-20UNF SF7=G1, G1/4	

旋转方向	喷漆	不常用的功能
A=标准 R=反向	A=无喷漆 B=蓝色 C=黑色 S=银灰色	A=标准 N=大径向力 D=无泄油口 F=自由转 L=低速 V=高温 S=低温



Flow Data 流量参数

GKC195		195.6cm ³ /rev(11.93in ³ /rev)					最高连续 Max Cont.	最高断续 Max Int.	峰值 Peak		
压力 Pressure bar [psi→]		35 [500]	70 [1000]	105 [1500]	140 [2000]	170 [2429]	210 [3000]	240 [3429]	275 [3929]	310 [4429]	
Flow 流量	l/min [gpm↓]	扭矩 N m [lb-in] 转速 Torque N m [lb-in] Speed Specification									
	15 [4.0]	80[708]	175[1549]	271[2398]	366[3239]	454[4018]	521[4611]	589[5212]	654[5788]		
		76rpm	74rpm	71rpm	65rpm	62rpm	45rpm	32rpm	18rpm		
	30 [7.9]	86[761]	179[1584]	274[2425]	371[3283]	464[4106]	545[4823]	626[5540]	704[6230]	779[6894]	
		153rpm	148rpm	144rpm	130rpm	119rpm	116rpm	99rpm	82rpm	65rpm	
	45 [11.9]	85[752]	180[1593]	279[2469]	374[3310]	476[4212]	565[5000]	654[5788]	751[6646]	825[7301]	
		230rpm	226rpm	221rpm	212rpm	202rpm	186rpm	168rpm	148rpm	118rpm	
	61 [16.1]	79[699]	179[1584]	280[2478]	376[3327]	475[4204]	574[5080]	664[5876]	760[6726]	845[7478]	
		307rpm	303rpm	300rpm	290rpm	283rpm	258rpm	236rpm	214rpm	181rpm	
	76 [20.1]	80[708]	179[1584]	281[2487]	380[3363]	480[4248]	574[5080]	671[5938]	769[6805]	860[7611]	
		385rpm	379rpm	373rpm	365rpm	255rpm	332rpm	305rpm	280rpm	246rpm	
	91 [24.0]	80[708]	174[1540]	274[2425]	375[3319]	474[4195]	575[5088]	669[5920]	770[6814]		
		462rpm	456rpm	450rpm	439rpm	430rpm	412rpm	388rpm	363rpm		
	106 [28.0]	74[655]	176[1558]	271[2398]	375[3319]	474[4195]	570[5044]	669[5920]	770[6814]		
		539rpm	532rpm	525rpm	516rpm	502rpm	475rpm	448rpm	420rpm		
	121 [32.0]	70[619]	169[1496]	269[2381]	369[3265]	470[4159]	570[5044]	670[5929]	763[6752]		
617rpm		609rpm	602rpm	590rpm	575rpm	541rpm	510rpm	480rpm			
136 [35.9]	70[619]	163[1442]	264[2336]	364[3221]	465[4115]	565[5000]	664[5876]	763[6752]			
	692rpm	684rpm	674rpm	660rpm	645rpm	600rpm	564rpm	527rpm			
151 [39.9]	70[619]	164[1451]	364[3221]	466[4124]	559[4947]	660[5841]					
	770rpm	759rpm	745rpm	733rpm	717rpm	666rpm	624rpm				
170 [44.9]	65[575]	161[1425]	259[2292]	360[3186]	461[4080]	555[4912]	655[5796]				
	866rpm	854rpm	844rpm	825rpm	808rpm	749rpm	702rpm				
	Max Cont.										
	Max Int.										

GKC245		246.1cm ³ /rev(15.01in ³ /rev)					最高连续 Max Cont.	最高断续 Max Int.	峰值 Peak		
压力 Pressure bar [psi→]		35 [500]	70 [1000]	105 [1500]	140 [2000]	170 [2429]	205 [2929]	240 [3429]	275 [3929]	310 [4429]	
Flow 流量	l/min [gpm↓]	扭矩 N m [lb-in] 转速 Torque N m [lb-in] Speed Specification									
	15 [4.0]	106[938]	227[2009]	346[3062]	461[4080]	577[5106]	643[5690]	751[6646]	853[7549]	960[8496]	
		60rpm	56rpm	54rpm	48rpm	42rpm	39rpm	30rpm	12rpm	6rpm	
	30 [7.9]	110[973]	237[2097]	354[3133]	475[4204]	596[5274]	701[6204]	800[7080]	905[8009]	1018[9009]	
		120rpm	116rpm	113rpm	104rpm	95rpm	81rpm	67rpm	48rpm	35rpm	
	45 [11.9]	110[973]	235[2080]	360[3186]	482[4265]	607[5372]	721[6381]	840[7434]	955[8451]	1075[9513]	
		182rpm	179rpm	175rpm	165rpm	157rpm	141rpm	123rpm	107rpm	90rpm	
	61 [16.1]	112[991]	236[2088]	360[3186]	487[4310]	611[5407]	730[6460]	844[7469]	960[8496]	1181[10451]	
		244rpm	240rpm	236rpm	228rpm	221rpm	202rpm	184rpm	163rpm	144rpm	
	76 [20.1]	105[929]	232[2053]	354[3133]	485[4292]	614[5434]	735[6504]	823[7283]	980[8673]	1100[9735]	
		306rpm	301rpm	297rpm	287rpm	277rpm	256rpm	238rpm	217rpm	197rpm	
	91 [24.0]	104[920]	231[2044]	356[3150]	482[4265]	612[5416]	735[6504]	961[8504]	979[8664]		
		365rpm	361rpm	357rpm	348rpm	338rpm	314rpm	290rpm	270rpm		
	106 [28.0]	102[903]	227[2009]	352[3115]	483[4274]	611[5407]	733[6487]	855[7566]	980[8673]		
		426rpm	421rpm	416rpm	403rpm	375rpm	355rpm	335rpm	320rpm		
	121 [32.0]	91[805]	216[1912]	346[3062]	470[4159]	600[5310]	725[6416]	850[7522]	975[8628]		
489rpm		481rpm	474rpm	461rpm	447rpm	422rpm	395rpm	370rpm			
136 [35.9]	80[708]	210[1858]	334[2956]	460[4071]	580[5133]	710[6283]	840[7434]				
	550rpm	544rpm	537rpm	524rpm	510rpm	480rpm	454				
151 [39.9]	80[708]	202[1788]	330[2920]	456[4035]	580[5133]	700[6195]	800[7080]				
	612rpm	606rpm	600rpm	585rpm	570rpm	538rpm	507rpm				
170 [44.9]	66[584]	202[1788]	326[2885]	446[3947]	575[5088]	685[6062]	755[6681]				
	688rpm	682rpm	674rpm	685rpm	640rpm	606rpm	571rpm				
189 [49.9]		195[1726]	316[2796]	441[3903]	555[4912]	670[5929]					
		758rpm	749rpm	731rpm	710rpm	675rpm					
208 [54.9]		191[1690]	311[2752]	431[3814]	551[4876]	665[5885]					
		834rpm	824rpm	804rpm	783rpm	742rpm					
	Max Int.										



Flow Data 流量参数

GKC310		311.6cm ³ /rev (19.02in ³ /rev)					最高连续 Max Cont.	最高断续 Max Int.	峰值 Peak	
压力 Pressure bar [psi→]		35 [500]	70 [1000]	105 [1500]	140 [2000]	170 [2429]	210 [3000]	240 [3429]	275 [3929]	310 [4429]
Flow 流量	l/min [gpm↓]	扭矩 N m [lb-in] 转速 Torque N m [lb-in] Speed Specification								
	15 [4.0]	136[1204]	292[2584]	431[3814]	573[5071]	684[6053]	801[7088]	934[8265]	1020[9027]	1070[9469]
		47rpm	45rpm	42rpm	38rpm	32rpm	24rpm	17rpm	10rpm	3rpm
	30 [7.9]	140[1239]	300[2655]	451[3991]	596[5274]	732[6478]	870[7699]	985[8717]	1100[9735]	1235[10929]
		95rpm	92rpm	87rpm	81rpm	73rpm	63rpm	54rpm	44rpm	32rpm
	45 [11.9]	140[1239]	306[2708]	461[4080]	612[5416]	760[6726]	909[8044]	1045[9248]	1180[10442]	1330[11770]
		143rpm	140rpm	135rpm	129rpm	120rpm	110rpm	99rpm	88rpm	75rpm
	61 [16.1]	140[1239]	302[2673]	462[4088]	615[5442]	771[6823]	920[8142]	1060[9381]	1200[10619]	1350[11947]
		192rpm	188rpm	184rpm	178rpm	167rpm	154rpm	140rpm	124rpm	109rpm
	76 [20.1]	135[1195]	296[2619]	457[4044]	617[5460]	772[6832]	925[8186]	1075[9513]	1220[10796]	
		241rpm	236rpm	232rpm	226rpm	216rpm	200rpm	182rpm	165rpm	
	91 [24.0]	130[1150]	296[2619]	456[4035]	614[5434]	774[6850]	929[8221]	1078[9540]	1226[10850]	
		289rpm	282rpm	278rpm	273rpm	260rpm	248rpm	232rpm	215rpm	
	106 [28.0]	130[1150]	290[2566]	450[3982]	609[5389]	768[6796]	928[8212]	1073[9496]	1220[10796]	
		336rpm	333rpm	327rpm	320rpm	308rpm	295rpm	276rpm	257rpm	
	121 [32.0]	125[1106]	285[2522]	444[3929]	600[5310]	763[6752]	918[8124]	1060[9381]		
		384rpm	381rpm	375rpm	367rpm	354rpm	341rpm	320rpm		
	136 [35.9]	120[1062]	276[2442]	434[3841]	590[5221]	748[6619]	912[8071]	1050[9292]		
		430rpm	421rpm	416rpm	410rpm	396rpm	383rpm	360rpm		
151 [39.9]	115[1018]	271[2398]	424[3752]	578[5115]	743[6575]	902[7982]	1035[9159]			
	Max Cont.	478rpm	466rpm	461rpm	456rpm	441rpm	427rpm	403rpm		
189 [44.9]	110[973]	245[2168]	384[3398]	523[4628]	682[6035]	836[7398]				
	597rpm	582rpm	576rpm	570rpm	551rpm	534rpm				
227 [60.0]		220[1947]	364[3221]	513[4540]	647[5726]	796[7044]				
	Max Int.		698rpm	691rpm	684rpm	661rpm	641rpm			

GKC395		391.3cm ³ /rev (23.87in ³ /rev)					最高连续	最高断续	峰值	
压力 Pressure bar [psi→]		35 [500]	70 [1000]	105 [1500]	140 [2000]	170 [2429]	205 [2929]	240 [3429]	275 [3929]	310 [4429]
Flow 流量	l/min [gpm↓]	扭矩 N m [lb-in] 转速 Torque N m [lb-in] Speed Specification								
	15 [4.0]	188[1664]	378[3345]	563[4982]	743[6575]	923[8168]	1083[9584]	1276[11292]	1371[12133]	1635[14469]
		37rpm	36rpm	34rpm	32rpm	28rpm	21rpm	13rpm	5rpm	1rpm
	30 [7.9]	188[1664]	383[3389]	578[5115]	763[6752]	953[8434]	1137[10062]	1316[11646]	1456[12885]	1635[14469]
		75rpm	73rpm	71rpm	67rpm	64rpm	54rpm	44rpm	32rpm	20rpm
	45 [11.9]	188[1664]	388[3434]	583[5159]	773[6841]	968[8566]	1152[10195]	1341[11867]	1540[13628]	
		114rpm	111rpm	108rpm	104rpm	99rpm	90rpm	80rpm	78rpm	
	61 [16.1]	183[1619]	383[3389]	583[5159]	773[6841]	968[8566]	1156[10230]	1345[11903]		
		153rpm	150rpm	146rpm	143rpm	131rpm	125rpm	115rpm		
	76 [20.1]	183[1619]	383[3389]	583[5159]	778[6885]	973[8611]	1161[10274]	1356[12000]		
		192rpm	188rpm	186rpm	181rpm	174rpm	161rpm	151rpm		
	91 [24.0]	173[1531]	373[3301]	573[5071]	768[6796]	968[8566]	1156[10230]			
		228rpm	228rpm	224rpm	219rpm	211rpm	203rpm			
	106 [28.0]	168[1487]	368[3257]	568[5027]	763[6752]	963[8522]	1151[10186]			
		267rpm	265rpm	260rpm	254rpm	247rpm	235rpm			
	121 [32.0]	163[1442]	358[3168]	558[4938]	753[6664]	947[8381]	1146[10142]			
		305rpm	303rpm	298rpm	291rpm	281rpm	268rpm			
	136 [35.9]	158[1398]	343[3035]	548[4850]	733[6487]	933[8212]	1131[10009]			
		345rpm	339rpm	335rpm	328rpm	316rpm	300rpm			
151 [39.9]	153[1354]	328[2903]	538[4761]	733[6487]	917[8115]					
	Max Cont.	385rpm	379rpm	374rpm	367rpm	358rpm				
189 [49.9]	133[1177]	303[2681]	518[4584]	733[6487]	913[8080]					
	481rpm	474rpm	468rpm	459rpm	448rpm					
227 [60.0]		283[2504]	502[4442]	721[6381]	891[7885]					
	Max Int.		569rpm	561rpm	551rpm	537rpm				



Flow Data 流量参数

GKC490		490.8cm ³ /rev (29.95in ³ /rev)					最高连续 Max Cont.	最高断续 Max Int.	峰值 Peak	
压力 Pressure bar [psi→]		35 [500]	70 [1000]	105 [1500]	140 [2000]	170 [2429]	205 [2929]	240 [3429]	275 [3929]	
Flow 流量	l/min [gpm↓]	扭矩 N m [lb-in] 转速 Torque N m [lb-in] Speed Specification								
	15 [4.0]	235[2080]	486[4301]	725[6416]	962[8513]	1195[10575]	1408[12460]	1643[14540]	1880[16637]	
		30rpm	29rpm	28rpm	27rpm	25rpm	21rpm	17rpm	12rpm	
	30 [7.9]	235[2080]	486[4301]	734[6513]	973[8611]	1213[10735]	1442[12761]	1680[14867]		
		60rpm	59rpm	57rpm	54rpm	51rpm	45rpm	38rpm		
	45 [11.9]	235[2080]	485[4292]	733[6487]	974[8619]	1218[10779]	1450[12832]			
		91rpm	89rpm	87rpm	84rpm	79rpm	71rpm			
	61 [16.1]	234[2071]	480[4248]	728[6442]	973[8611]	1217[10770]	1456[12885]			
		122rpm	121rpm	118rpm	114rpm	109rpm	100rpm			
	76 [20.1]	225[1991]	470[4159]	723[6398]	972[8602]	1217[10770]				
		152rpm	150rpm	147rpm	144rpm	139rpm				
	91 [24.0]	220[1947]	469[4150]	719[6363]	968[8558]	121[1071]				
		184rpm	181rpm	180rpm	176rpm	171rpm				
	106 [28.0]	209[1850]	459[4062]	708[6265]	957[8469]	1205[10664]				
		214rpm	211rpm	208rpm	204rpm	198rpm				
	121 [32.0]	194[1717]	448[3965]	700[6195]	947[8381]	1200[10619]				
		244rpm	241rpm	237rpm	232rpm	226rpm				
	136 [35.9]	175[1549]	433[3832]	683[6044]	937[8292]	1170[10354]				
275rpm		272rpm	265rpm	260rpm	255rpm					
151 [39.9]	160[1416]	423[3743]	673[5956]	917[8115]	1145[10133]					
	Max Cont.	306rpm	303rpm	295rpm	290rpm	284rpm				
189 [44.9]	130[1150]	364[3221]	588[5204]	857[7584]						
	382rpm	379rpm	365rpm	362rpm						
227 [60.0]		323[2858]	546[4832]	800[7080]						
	Max Int.	454rpm	442rpm	435rpm						

GKC625		623.0cm ³ /rev (38.01in ³ /rev)								
压力 Pressure bar [psi→]		35 [500]	50 [714]	70 [1000]	85 [1214]	105 [1500]	120 [1714]	140 [2000]	170 [2429]	
Flow 流量	l/min [gpm↓]	扭矩 N m [lb-in] 转速 Torque N m [lb-in] Speed Specification								
	15 [4.0]	275[2434]	425[3761]	570[5044]	709[6274]	849[7513]	954[8442]	1063[9407]	1190[10531]	
		24rpm	24rpm	23rpm	22rpm	21rpm	18rpm	16rpm	15rpm	
	30 [7.9]	295[2611]	450[3982]	604[5345]	754[6673]	923[8168]	1093[9673]	1267[11212]	1355[11991]	
		45rpm	44rpm	44rpm	43rpm	42rpm	39rpm	37rpm	36rpm	
	45 [11.9]	295[2611]	448[3965]	609[5389]	764[6761]	918[8124]	1123[9938]	1327[11743]	1375[12168]	
		72rpm	71rpm	71rpm	70rpm	68rpm	66rpm	64rpm	63rpm	
	61 [16.1]	285[2522]	445[3938]	604[5345]	759[6717]	914[8088]	1118[9894]	1323[11708]	1370[12124]	
		94rpm	93rpm	92rpm	91rpm	89rpm	87rpm	85rpm	83rpm	
	76 [20.1]	280[2478]	439[3885]	594[5257]	754[6673]	914[8088]	1118[9894]	1324[11717]	1372[12142]	
		119rpm	118rpm	117rpm	116rpm	115rpm	112rpm	110rpm	107rpm	
	91 [24.0]	264[2336]	429[3796]	585[5177]	744[6584]	904[8000]	1108[9805]	1317[11655]	1365[12080]	
		143rpm	142rpm	140rpm	139rpm	138rpm	135rpm	132rpm	130rpm	
	106 [28.0]	255[2257]	414[3664]	574[5080]	734[6496]	893[7903]	1103[9761]	1312[11611]	1360[12035]	
		168rpm	166rpm	165rpm	164rpm	162rpm	159rpm	156rpm	153rpm	
	121 [32.0]	240[2124]	400[3540]	559[4947]	719[6363]	878[7770]	1088[9628]	1297[11478]	1343[11885]	
		192rpm	190rpm	188rpm	187rpm	185rpm	182rpm	179rpm	176rpm	
	136 [35.9]	220[1947]	379[3354]	539[4770]	698[6177]	853[7549]	1047[9265]			
216rpm		214rpm	213rpm	212rpm	210rpm	207rpm				
151 [39.9]	200[1770]	360[3186]	519[4593]	679[6009]	833[7372]	1012[8956]				
	Max Cont.	240rpm	239rpm	238rpm	237rpm	236rpm	233rpm			
189 [49.9]		310[2743]	469[4150]	629[5566]	788[6973]					
		298rpm	296rpm	294rpm	290rpm					
227 [60.0]		254[2248]	430[3805]	588[5204]	742[6566]					
	Max Int.	355rpm	353rpm	350rpm	345rpm					



Flow Data 流量参数

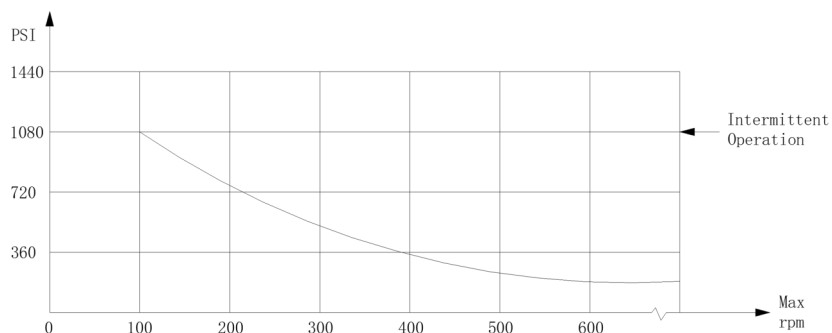
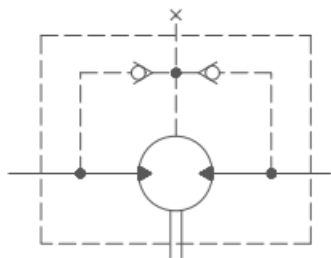
GKC800		802.4cm ³ /rev (48.96in ³ /rev)						最高连续 Max Cont.
压力 Pressure bar [psi→]		35 [500]	50 [714]	70 [1000]	85 [1214]	105 [1500]	120 [1714]	140 [2000]
Flow 流量	l/min [gpm↓]	扭矩 N m [lb-in] 转速 Torque N m [lb-in] Speed Specification						
	15 [4.0]	434[3841]	607[5372]	838[7416]	1018[9009]	1238[10956]	1377[12186]	1646[14566]
		18rpm	17rpm	17rpm	16rpm	15rpm	14rpm	13rpm
	30 [7.9]	419[3708]	395[3496]	828[7327]	1003[8876]	1238[10956]	1412[12496]	1606[14212]
		36rpm	35rpm	35rpm	34rpm	33rpm	31rpm	29rpm
	45 [11.9]	379[3354]	564[4991]	794[7027]	970[8584]	1187[10504]	1358[12018]	
		55rpm	55rpm	54rpm	54rpm	53rpm	51rpm	
	61 [16.1]	339[3000]	519[4593]	758[6708]	937[8292]	1167[10327]		
		75rpm	74rpm	72rpm	71rpm	70rpm		
	76 [20.1]	324[2867]	498[4407]	728[6442]	897[7938]	1135[10044]		
		93rpm	92rpm	90rpm	89rpm	87rpm		
	91 [24.0]	314[2779]	468[4142]	698[6177]	857[7584]	1076[9522]		
		111rpm	110rpm	109rpm	108rpm	105rpm		
	106 [28.0]	309[2734]	448[3965]	648[5735]	797[7053]	1016[8991]		
		129rpm	128rpm	127rpm	125rpm	123rpm		
	121 [32.0]	279[2469]	419[3708]	608[5381]	746[6602]			
		148rpm	146rpm	145rpm	143rpm			
	136 [35.9]	269[2381]	398[3522]	547[4841]	695[6150]			
		166rpm	165rpm	165rpm	164rpm			
	151 [39.9] Max Cont.	249[2204]	348[2195]	497[4398]	631[5584]			
184rpm		183rpm	182rpm	180rpm				
189 [44.9]		299[2646]	438[3876]	576[5097]				
		230rpm	228rpm	225rpm				
227 [60.0] Max Int.			378[3345]	516[4566]				
			276rpm	273rpm				

GKC985		981.6cm ³ /rev (59.90in ³ /rev)						最高连续
压力 Pressure bar [psi→]		35 [500]	50 [714]	70 [1000]	85 [1214]	105 [1500]	120 [1714]	140 [2000]
Flow 流量	l/min [gpm↓]	扭矩 N m [lb-in] 转速 Torque N m [lb-in] Speed Specification						
	15 [4.0]	484[4283]	774[6850]	964[8531]	1203[10646]	1443[12770]	1567[13867]	1786[15805]
		15rpm	15rpm	14rpm	14rpm	13rpm	13rpm	12rpm
	30 [7.9]	494[4372]	749[6628]	994[8796]	1233[10912]	1477[13071]	1637[14487]	1871[16558]
		30rpm	30rpm	29rpm	28rpm	27rpm	26rpm	25rpm
	45 [11.9]	494[4372]	749[6628]	1000[8850]	1248[11044]	1492[13204]	1696[15009]	
		45rpm	45rpm	44rpm	43rpm	42rpm	41rpm	
	61 [16.1]	489[4327]	739[6540]	995[8805]	1243[11000]	1497[11478]		
		61rpm	61rpm	60rpm	59rpm	58rpm		
	76 [20.1]	475[4204]	730[6460]	983[8699]	1233[10912]	1481[13106]		
		77rpm	76rpm	76rpm	75rpm	74rpm		
	91 [24.0]	460[4071]	704[6230]	959[8487]	1217[10770]	1466[12973]		
		92rpm	92rpm	91rpm	90rpm	89rpm		
	106 [28.0]	444[3929]	700[6195]	949[8398]	1197[10593]	1446[12976]		
		107rpm	107rpm	106rpm	105rpm	103rpm		
	121 [32.0]	425[3761]	674[5965]	923[8168]	1156[10230]			
		123rpm	122rpm	121rpm	120rpm			
	136 [35.9]	394[3487]	645[5708]	893[7903]	1120[9912]			
		138rpm	138rpm	137rpm	135rpm			
	151 [39.9] Max Cont.	365[3230]	609[5389]	964[8531]	1080[9558]			
153rpm		152rpm	151rpm	150rpm				
189 [49.9]	325[2876]	858[7593]	829[7336]	1047[9265]				
	191rpm	190rpm	189rpm	188rpm				
227 [60.0] Max Int.		525[4646]	809[7159]	1020[9027]				
		230rpm	229rpm	226rpm				

Technical Data 技术数据

Shaft Seal Rated Pressure

输出轴密封的额定压力



Case Drain

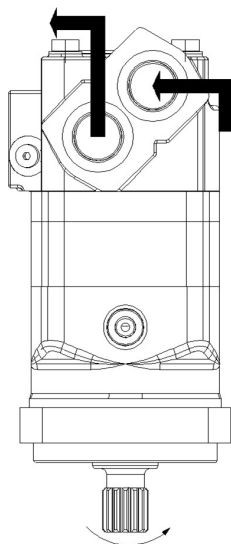
泄油口:

In applications without a motor drain line, the pressure exerted on the shaft seal is marginally in excess of the return line pressure. When the Drain line is used, the pressure exerted on the shaft seal is equal to the return line pressure.

在没有使用泄油管的应用中，施加在轴封上的压力略高于回油管压力。使用泄油管时，施加在轴封上的压力等于回油管压力。

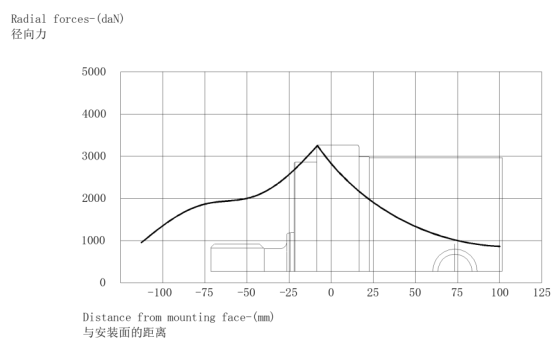
Shaft Rotation Direction

轴旋转方向



GKC for CC Mounting Radial forces

GKC在CC法兰下的径向力



The bearing curve represents allowable bearing loads for an B10 bearing life (2000 hours or 12x10⁶ revolutions at 100rpm) at rated output torque. Other speed load multiply a load values.

The maximum load curve is defined by bearing static load capacity.

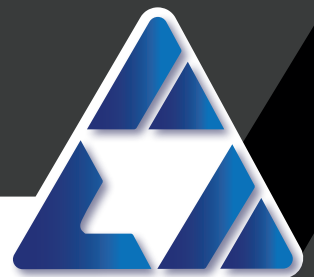
This curve should not be exceeded at any time including shock loads.

轴承曲线表示B10轴承寿命（2000小时或100rpm下12x10⁶转）在额定输出扭矩下的允许轴承载荷。其他速度负载乘以负载值。

最大载荷曲线由承载静载荷能力定义。

在任何时候都不应超过该曲线，包括冲击载荷。

ALA Industries Limited



3410 Delta Drive • Portage IN 46368 • 219.762.2059 • www.alaindustrieslimited.com