

# L6VM 变量柱塞马达

## Variable displacement motor L6VM



- 变量马达配有采用斜轴式设计的轴向锥形柱塞转子组，用于开式回路和闭式回路中的液压传动
- 宽广的控制范围使变量马达能够满足对高转速和高扭矩的要求
- 排量可在 $V_{gmax}$ 至 $V_{gmin}=0$ 之间无极改变
- 输出扭矩会随着高压侧和低压侧之间的压差以及排量的不断增加而增
- Variable motor with axial tapered piston rotary group of bent-axis design, for hydrostatic drives in open and closed circuit
- The wide control range enables the variable motor to satisfy the requirement for high speed and high torque
- The displacement can be infinitely changed from  $V_{gmax}$  to  $V_{gmin}=0$
- The output torque increases with the pressure differential between the high and low-pressure side and with increasing displacement

### 型号说明 Type code

L6V	M	107	HD1	D	/	63	W	-	V	Z	B	020	H	B	-W1XA01	-	0800
01	02	03	04	05		06	07		08	09	10	11	12	13	14		15

### 轴向柱塞马达 Axial piston motor

01	斜轴结构, 变量 Bent-axis design, variable displacement	L6V
----	--	-----

### 工作模式 Operation mode

02	马达 motor	M
----	----------	---

### 规格 Size

03	最大排量 $V_{gmax}$ Max displacement $V_{gmax}$	107	160	200	107
----	---	-----	-----	-----	-----

### 控制方式 Control devices

04	液控两点式变量 Hydraulic two-point control	●	●	○	HZ1
	液控比例式变量 压差:1MPa Hydraulic proportional control pressure increase:1MPa	○	●	●	HD1
	电气控制两点式 U=24V 插头标准: DT04-2P Electric control with 2-point control U=24V Standard plug:DT04-2P	●	○	○	EZ2
	电气控制比例式 U=24V 插头标准: ISO 4400 Electric control with proportional solenoid U=24V Standard plug:ISO 4400	●	●	●	EP2
	高压自动变量 压差:1MPa Automatic control, high pressure related, pressure increase:1MPa	○	○	○	HA1
	高压自动变量 压差:10MPa Automatic control, high pressure related, pressure increase:10MPa	○	●	●	HA2

### 压力控制/越权控制 Pressure control/Overriding control

05	不带压力控制,仅用于 HD, EP, EZ(无标识) Without pressure control, only for HD,EP,EZ (no code)	
	带压力控制,仅用于 HD, EP, EZ With pressure control, only for HD,EP,EZ	D
	不带越权控制,仅用于 HA(无标识) Without override, only for HA (no code)	
	带越权控制,仅用于 HA With override, only for HA	T

### 系列标识 Series index

06	系列 6, 索引号 3 Series 6, index 3	63
----	-------------------------------	----

### 旋转方向 Direction of rotation

07	从轴伸看, 双向可逆 Viewed from drive shaft, bidirectional	W
----	---	---

### 轴封 Shaft seal

08	氟橡胶 FKM				V
----	---------	--	--	--	---

### 轴伸 Drive shaft

09	花键 DIN5480 Splined shaft DIN5480		107	160	200	
		●	●	—	Z	
		●	●	●	A	

### 安装法兰 Mounting flange

10	4 孔法兰 ISO 3019-2 ISO 3019-2 4-hole	●	●	●	B
----	------------------------------------	---	---	---	---

### 工作油口 Working ports

					107	160	200	
11	SAE J518 A和B油口, 后端部(公制螺纹) SAE J518 flange ports A and B, at rear(metric thread)	01	0	无阀 Without valve	●	○	○	010
	SAE J518 A和B油口, 相对侧(公制螺纹) SAE J518 flange ports A and B, at opposite side(metric thread)	02	0	无阀 Without valve	●	●	●	020
			7	带冲洗和补油阀 With flushing and boost pressure valve	●	○	○	027
	SAE J518 A和B油口, 带溢流阀的油口 SAE J518 flange ports A and B, working ports with pressure-relief valves, for mounting a counterbalance valve	37	0	无阀 Without valve	●	—	—	370
SAE J518 A和B油口, 带溢流阀的油口 SAE J518 flange ports A and B, working ports with pressure-relief valves, for mounting a counterbalance valve								

### 转速传感器 Speed sensor

12	无转速传感器(无标识) Without speed sensor (no code)	
	带转速传感器 With HDD speed sensor	H

### 控制起调点 Start of control

13	在 $V_{gmin}$ (HA 标准配置) at $V_{gmin}$ (standard for HA)	A
	在 $V_{gmax}$ (HD, HZ, EP, EZ 标准配置) at $V_{gmax}$ (standard for HD,HZ,EP,EZ)	B

### 平衡阀 Counterbalance valve

14	不带平衡阀(无标识) Without counterbalance valve (no code)	
	带平衡阀 With counterbalance valve	W1XA01

### 最小排量设定值 $V_{gmin}$ setting

15	举例: $V_{gmin}=80$ (mL/r) Example: $V_{gmin}=80$ (mL/r)	0800
	举例: $V_{gmin}=110$ (mL/r) Example: $V_{gmin}=110$ (mL/r)	1100

### 技术参数 Technical data

排量 Displacement (mL/r)	额定压力 Nominal pressure (MPa)	最高压力 Max. pressure (MPa)	最高转速 Max. speed (r/min)			最大扭矩 Max. torque (N.m)	重量 Weight (kg)	
			At $V_{gmax}$	At $V_g=0.63 \times V_{gmax}$	at $V_{gmin}$			
107	0	35	40	3550	5600	6300	681	53
160	0			3100	4900	5500	1019	64
200	0			2900	4600	5100	1273	80

● = 可供货 Available ○ = 可按要求供货 On request — = 不可供货 Not available