

L4V 变量柱塞泵

Variable displacement pump L4V



- 斜盘式轴向柱塞变量泵，用于闭式回路
- 当斜盘通过中位时，液压油流动方向会平稳改变
- 在各高压侧配置溢流阀用于防止液压传动系统过载
- 内置补油泵作为供油泵和控制泵
- 最大补油压力由内置溢流阀限制
- Variable axial piston pump of swashplate design for closed circuit
- Flow direction changes smoothly when swashplate is moved through neutral position
- Pressure-relief valve is provided on each pressure port to protect hydrostatic transmission from overload
- Integrated boost pump functions to replenish leakage and provide control oil
- Max. boost pressure is limited by a built-in pressure-relief valve

型号说明 Type code

L4V	g	56	EP3	D	M	I	✓	32	R		N	S	C	02	F	02	S	D	P	S
01	02	03	04	05	06	07		08	09		10	11	12	13	14	15	16	17	18	19

轴向柱塞泵 Axial piston pump

01	斜盘式变量结构，公称压力 40MPa，最高压力 45MPa Variable swashplate design, nominal pressure 40MPa, Max. pressure 45MPa	L4V
----	--	-----

工作模式 Operation mode

02	泵，闭式回路 Pump, closed circuit	●	●	●	G
----	-----------------------------	---	---	---	---

规格 Size

03	最大排量 Vgmax	ml/r	56	90	125
----	------------	------	----	----	-----

控制方式 Control devices

04	液压控制 Hydraulic control	与先导压力有关 Pilot pressure related	无供油过滤 Without supply filtration	●	●	○	HD1
			带供油过滤 With supply filtration	●	●	○	HD3
	电气控制 Electrical control	机械伺服 Mechanical servo		○	○	—	HW
		带比例电磁铁 With proportional solenoid	U=12V DC	●	●	○	EP1
	无供油过滤 Without supply filtration	U=24V DC	●	●	○	EP2	
	带比例电磁铁 With proportional solenoid	U=12V DC	●	●	○	EP3	
	带供油过滤 With supply filtration	U=24V DC	●	●	○	EP4	

压力切断阀 Pressure cut-off

05	压力切断阀(标准型) With pressure cut-off (standard)	●	●	○	D
----	---	---	---	---	---

机械行程限位器 Mechanical stroke limiter

06	不带机械行程限位器(无标识) Without mechanical stroke limiter (no code)	●	●	○	
	带外部可调的机械行程限位器 With mechanical stroke limiter, externally adjustable	●	●	○	M

DA 控制阀 DA control valve

07	无 DA 控制阀 Without DA control valve	●	●	○	1
	带 DA 控制阀，固定设置 With DA control valve, fixed setting	○	—	—	2

系列 Series

08	系列 3, 标号 2 Series 3, Index 2	32
----	------------------------------	----

旋转方向 Direction of rotation

09	从轴伸看 Viewed from drive shaft	顺时针 Clockwise	●	●	○	R
		逆时针 Counter-clockwise	●	○	○	L

轴封 Shaft seal

56 90 125

10	氟橡胶 FKM				N
----	---------	--	--	--	---

轴伸 Drive shaft

11	花键 DIN 5480 Splined shaft DIN 5480	○	○	○	Z
	花键 ANSI B92.1-1970 Splined shaft ANSI B92.1-1970	●	●	○	S

安装法兰 Mounting flange

12	SAE J744 2 孔 SAE J744 2-hole	●	—	—	C
	SAE J744 4 孔 SAE J744 4-hole	—	—	—	D
	SAE J744 2+4 孔 SAE J744 2+4-hole	—	●	○	F

工作油口(公制螺纹) Working ports (metric fixing screws)

13	SAE J518 A/B 油口, 在上下侧	吸油口 S 在下侧	●	●	—	02
	SAE J518 flange ports A and B, top and bottom	Suction port S bottom				
	SAE J518 A/B 油口, 在同侧	吸油口 S 在上侧	—	●	○	13
	SAE J518 flange ports A and B, same side	Suction port S top				

补油泵 Boost pump

14	带内置补油泵	无通轴驱动 Without through drive	●	●	○	F00
	With integrated boost pump	带通轴驱动 With through drive	●	●	—	F...

通轴驱动 Through drive

15	法兰 SAE J744 Flange SAE J744	连接轴 Shaft coupling				
	82-2	5/8in 9T 16/32DP	●	—	—	.01
	101-2	7/8in 13T 16/32DP	●	●	—	.02
	127-2	1 1/4in 14T 12/24DP	●	○	—	.07

溢流阀 Relief valves

16	先导式高压溢流阀，带旁通，设定范围 $\Delta p = (10 \sim 42)$ MPa High-pressure relief valve, pilot operated, with bypass, Setting range $\Delta p = (10 \sim 42)$ MPa	—	●	○	1
	直动式高压溢流阀，固定设置，带旁通，设定范围 $\Delta p = (25 \sim 42)$ MPa High-pressure relief valve, direct operated, fixed setting, with bypass, Setting range $\Delta p = (25 \sim 42)$ MPa	●	—	—	5

补油过滤 Filtration boost circuit

17	经外部回路在补油泵压力管路中过滤 Filtration in pressure line of boost pump ports for external boost circuit filtration	●	●	○	D
	过滤器中安装有冷启动阀，无污染指示器 Filter mounted with cold start valve but without contamination indicator	●	●	—	F
	过滤器安装有冷启动阀及窗式污染指示器 Filter mounted with cold start valve and visual contamination indicator	●	●	—	P

电磁铁插头 Connector for solenoids

18	DEUTSCH 插头，注塑，2 芯 DEUTSCH connector, molded, 2-pin	●	●	—	P
----	--	---	---	---	---

标准/特殊版本 Standard/special version

19	标准版本(无标识) Standard version (no code)				
	特殊型号 Special version				-S

用于混凝土搅拌车的“TG”系列 71ml/r 和 90ml/r 规格产品，按具体要求供货。
Products of "TG" series 71ml/r and 90ml/r for mobile concrete mixers are supplied as required.

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)	额定转速 Nominal speed (r/min)	最高转速 Max. speed (r/min)	最大功率 Max. power (kW)	重量 Weight (kg)
56	40	45	3000	3600	112	43
90			3000	3300	180	52
=125 Available			2400 N	2850	200	85

● 可供货 ○ 可按要求供货 — 不可供货 not available