

L8VO 变量柱塞双泵

Variable displacement pump L8VO



- 斜轴式柱塞变量双泵，适用于开式多回路系统，带两组锥柱塞旋转组件并行式结构
- 排量可在零排量和最大排量之间无极调节
- 泵可直接安装在发动机的飞轮壳上
- 内置辅助泵和两个回路公用一个吸油口
- 分功率控制
- 可实现多种控制方式和调节功能
- 带溢流阀内置辅助泵，可带电磁比例减压阀
- 功率输出接口可安装轴向柱塞泵和齿轮泵

- Variable displacement double pump, for open circuit, parallel construction with two axial tapered piston rotary groups of bent-axis design
- Displacement is infinitely variable between V_{gmax} and $V_{gmin}=0$
- Pump is suitable for direct mounting on flywheel housing of engine
- Integrated auxiliary pump and both circuits share one common suction port
- Individual power control
- Available for different control functions and regulating curves
- Integrated auxiliary pump with pressure relief valve, additional pressure reducing valve available
- Power take-off mounting axial piston pump and gear pump

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)
107	35	40	2000	2150	268	146
140			2000	2100	294	160

型号说明 Type code

L8V	O	140	LA0KH2	/	63	R	1	—	N	Z	G	05	F	05	1
01	02	03	04		05	06	07		08	09	10	11	12	13	14

轴向柱塞泵 Axial piston pump

01	变量双泵(并行结构), 斜轴式 Variable displacement, double pump (parallel construction), bent-axis design	L8V
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工作方式 Operation mode

02	适于开式系统 For open circuit	O
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规格 Size

03	单泵最大排量 Single pump displacement V_{gmax}	mL/r	107	140	140
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控制装置 Control device

107 140

分功率控制, 无功功率越权控制 Individual power control, without power override					
04	分功率控制 Individual power control	○	○	LA0H0	
	带液压行程限制器, 正控制和外部先导压力供应 With hydraulic stroke limiter, positive control and external pilot pressure supply	●	●	LA0H2	
	带负载敏感 With load sensing	○	○	LA0S	
	交叉功率控制 With hydraulic power coupling	●	●	LA0K	
	带负载敏感 With load sensing	●	●	LA0KS	
	带液压行程限制器, 负控制 With hydraulic stroke limiter, negative control	○	○	LA0KH1	
	带液压行程限制器, 正控制和外部先导压力供应 With hydraulic stroke limiter, positive control and external pilot pressure supply	●	●	LA0KH2	
	带液压行程限制器, 负控制和外部先导压力供应 With hydraulic stroke limiter, negative control and external pilot pressure supply	○	○	LA0KH3	
	分功率控制, 带先导压力功率越权控制 Individual power control with power override by pilot pressure				
	带液压行程限制器, 正控制和外部先导压力供应 With hydraulic stroke limiter, positive control and external pilot pressure supply	●	●	LA1H2	
带负载敏感 With load sensing	○	○	LA1S		
交叉功率控制 With hydraulic power coupling	●	●	LA1K		
带负载敏感 With load sensing	●	●	LA1KS		
带液压行程限制器, 负控制 With hydraulic stroke limiter, negative control	●	●	LA1KH1		
带液压行程限制器, 正控制和外部先导压力供应 With hydraulic stroke limiter, positive control and external pilot pressure supply	●	●	LA1KH2		
带液压行程限制器, 负控制和外部先导压力供应 With hydraulic stroke limiter, negative control and external pilot pressure supply	●	●	LA1KH3		
电气控制, 带电磁铁(正控制) U=24V Electrical control with proportional solenoid (positive control) U=24V		○	○	EP2	

系列, 标号 Series, Index

05	系列6, 标号1、3 Series6, Index1,3	●	●	63
		—	—	61

旋向 Direction of rotation

06	从轴伸看, 顺时针 Viewed from drive shaft, clockwise	R
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传动比 ($n_{\text{输入}}/n_{\text{输出}}$) Gear ratio ($n_{\text{input}}/n_{\text{rotary groups}}$)

07	比值 $i=1$ Ratio $i=1$	1
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密封 Shaft seal

08	氟橡胶 FKM	N
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轴伸 Drive shaft

09	花键轴 DIN5480 Splined shaft DIN5480	Z
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安装法兰 Mounting flange

10	安装在内燃机的飞轮壳上(按 SAE J617) To fit flywheel housing (conforming to SAE J617) of internal combustion engine (hole diameter for mounting 11mm)	●	●	G
		—	—	N

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工作油口 Working ports

11	SAE J518 法兰油口 A1 和 A2 在侧面相对位置(公制螺纹)	05
	SAE J518 flange ports A1 and A2 at side, opposite (metric thread)	
	SAE J518 法兰油口 S 在后部(公制螺纹)	
	SAE J518 flange ports S at rear (metric thread)	

内置辅助驱动 Auxiliary pump

		107	140		
12	无内置辅助泵 without integrated auxiliary pump	无功率输出 (PTO) Without power take-off (PTO)	○	○	K00
		带功率输出 (PTO) With power take-off (PTO)	○	○	K...
	带内置辅助泵 with integrated auxiliary pump	无功率输出 (PTO) Without power take-off (PTO)	○	○	F00
		带功率输出 (PTO) With power take-off (PTO)	●	●	F...

功率输出(1) Power take off(1)

		107	140		
13	法兰 SAE J744 Flange SAE J744	花键轴套(2) Hub for splined shaft(2)			
	82-2	5/8in 9T 16/32 DP	○	○	...01
	101-2	7/8in 13T 16/32 DP	●	○	...02
		1in 15T 16/32 DP	●	●	...04
	100-2+4	15Z×2m×30×9g GB3478.1-83	○	●	...03
		15Z×1.5m×30×9g GB3478.1-83	●	●	...05
	127-2	15Z×2m×30×9g GB3478.1-83	○	●	...06
		1 1/4 in 14T 12/24 DP	●	●	...07
		1 3/4 in 13T 8/16 DP	○	○	...27
	152-4	1 1/4 in 14T 12/24 DP	○	○	...86
		1 3/4 in 13T 8/16 DP	○	●	...17

阀 Valves

		K...	F...	
14	无阀(仅适用于无辅助泵的型号 K...) Without valves (only for models without auxiliary pump, K...)	○	—	0
	带溢流阀(仅适用于带辅助泵的型号 F...) With pressure relief valve (only for model without auxiliary pump, F...)	●	●	1
	带溢流阀和电磁减压阀(仅适用于带辅助泵的型号 F...) With pressure relief and pressure reducing valve (only for model with auxiliary pump, F...).U=24V	●	●	4

(1) 可按要求提供其它 PTO Other PTO on request

(2) 英制花键轴套按 ANSI B92.1a-1976 (花键轴的布置按 SAE J744) Hub for splined shaft conforming to ANSI B92.1a-1976 (splined shaft per SAE J744)

● =可供货 available ○ =按要求供货 on request — =不可供货 not available