

CR-A10VSO/CR-A10VO 变量柱塞泵 VARIABLE DISPLACEMENT PISTON PUMP CR-A10VSO/CR-A10VO



本产品是一种斜盘式轴向柱塞变量泵，专为开式回路液压驱动设计的，采用通轴结构，平面配流，柱塞围绕主轴平行布置。泵的流量正比于泵的转速和排量，调节它的斜盘摆角可进行排量的无级调节，额定压力可达28MPa。

This product is an axial piston pump in swash plate design for hydrostatic drives in open circuit operation, with through-shaft structure and plane valve plate. The piston is parallelled around the shaft. The flow is proportional to the drive speed and displacement. The stepless adjustment of the displacement can be materialized by regulating the swivel angle of its swash plate. Its rated pressure is up to 28MPa.

产品特点 FEATURES

※泵的流量正比于泵的转速和排量，通过调节斜盘摆

角调节排量，实现无级变量；

※有多种变量控制形式，控制响应时间短；

※允许连续运行的工作压力可达28MPa；

※有两个壳体泄油口；

※高的功率/重量比；

※驱动轴能承受轴向及径向负载；

※采用通轴结构，可形成组合泵；

※The capacity of the pump is in proportion to its rotating speed and displacement; the stepless adjustment of the displacement can be materialized by regulating the swivel angle of its swash plate.

※There are many variable control forms, Fast control response;

※Allows for continuous operating pressures up to 28MPa ;

※There are two shell discharge ports ;

※High power/weight ratio ;

※The drive shaft is able to bear the axial and radial load ;

※With through-shaft structure, able to form combination pump;

产品型谱 Standard Program of Product

型号标识 Ordering Code

CR-	A10VS	O	28	DR	/	30	R	—	P	P	B	25	U	34
	1	2	3	4		5	6		7	8	9	10	11	12

规格品种 Size and Variet

1-工作介质 Operating Medium

轴向柱塞，直轴式，可变量，工业用 Axial piston, straight shaft, variable, used in industry	A10VS
轴向柱塞，直轴式，可变量，行走机械用 Axial piston, straight shaft, variable used in mobile machinery	A10V

3-规格 Size

公称排量 Nominal displacement mL/r	18	28	45	71	88	100	110	140
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4-控制机构 Control Devices

直接控制，两位调节 Two point control, directly operated DG	●	●	●	●	●	●	●	●	●	DG
压力控制 Pressure Control DR	●	●	●	●	●	●	●	●	●	DR
远程压力控制 Remote pressure control DRG	●	●	●	●	●	●	●	●	●	DRG
压力流量控制 Pressure and flow control DFR	●	●	●	●	●	●	●	●	●	DFR
压力功率控制 Pressure and power control DLR	●	●	●	●	●	●	●	●	●	DLR
压力流量功率控制 Pressure and flow and power control DFLR	●	●	●	●	●	●	●	●	●	DFLR
电气控制 Electric	●	●	●	●	●	●	●	●	●	ED72

8-轴伸 Shaft End

平键轴伸 Keyed shaft DIN6885	P
花键轴伸 Splined shaft SAE	S
花键轴伸 Splined shaft SAE (较高的通轴驱动转矩 Higher torque for through drive)	R
花键轴伸 Splined shaft SAE (直径较小)	U
花键轴伸 Splined shaft SAE (类似于U轴，较高的通轴驱动转矩)	W

10-工作油口 Operating Port

吸油口S和压力油口B在后方 Suction port S and pressure port B located in the rear	11
吸油口S和压力油口B在两侧 Suction port S and pressure port B located in both sides	12

11-通轴驱动 Through Drive

无通轴驱动 Without through drive	●	●	●	●	●	●	●	●	N
带通轴驱动 With through drive	●	●	●	●	●	●	●	●	K

图表说明 Chart shows: ●可以供货 Available, ◐在准备中 In preparation, -无 Not available

应用场景 Application scenarios



起重机
Cranes



挖掘机
Excavators



高空作业车
Articulating boom lift

CR-A10VO/52 53 系列变量柱塞泵 VARIABLE DISPLACEMENT PISTON PUMP CR-A10VO/52 53



CR-A10VSO/52 53系列变量柱塞泵均为斜盘式轴向柱塞变量泵，为行走机械用设计，都是专为开式回路液压驱动设计的，采用通轴结构，额定工作压力可达25MPa。

CR- A10VO/ 52 53 series variable displacement piston pump swash plate axial plunger variable pump respectively for mobile machinery design, is designed for open loop hydraulic driven design, adopts a shaft structure, rated working pressure up to 25 Mpa.

产品特点 FEATURES

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|---------------------------------|---|
| ※配有轴向柱塞转子组的斜盘式变量泵，用于开式回路中的静压驱动； | ※ Variable pump with axial piston rotary group in swash-plate design for hydrostatic drives in open circuit ; |
| ※流量与传动速度和排量成比例； | ※ The flow is proportional to the drive speed and the displacement; |
| ※通过调节旋转斜盘角度，可实现流量的无级调节； | ※ The flow can be infinitely varied by adjusting the swash - plate angle; |
| ※实现长久使用寿命的稳定存储； | ※ Stable bearing for long service life ; |
| ※高允许传动速度； | ※ High permissible drive speed ; |
| ※有利的功率/重量比一紧凑尺寸； | ※ Favorable power-to-weight ratio-compact dimensions |
| ※低噪音； | ※ Low noise |
| ※出色的吸油特性； | ※ Excellent suction characteristics |
| ※电动液压控制； | ※ Electro- hydraulic pressure control |
| ※功率控制； | ※ Power control |
| ※电比例摆动角控制； | ※ Electro- proportional swivel angle control |
| ※较短的响应时间； | ※ Short response times |

产品型谱 Standard Program of Product

型号标识 Ordering Code

CR-	A10VS	O	45	DR	/	52	R	—	V	S	D	12	N00
	1	2	3	4		5	6		7	8	9	10	11

规格品种 Size and Variety

1-结构型式Machinery Type

轴向柱塞，直轴式，可变量，工程机械用 Axial piston, swash plate design, variable, used in industry	A10V
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3-规格 Size

公称排量 Nominal displacement mL/r	28	45	60	-	-	85	-	52系列
公称排量 Nominal displacement mL/r	-	-	-	63	72	-	100	53系列

4-控制机构 Control Devices 52/53系列

压力控制 Pressure Control	带流量控制 Wish flow control	X-T开启 open	●	●	●	●	●	DG
		X-T关闭 plugged	●	●	●	●	●	DFR
	带远程压力控制 Remote pressure control		●	●	●	●	●	DRG
	电气 Electric	负控制 negative control	●	●	●	●	●	ED72
功率控制，带压力切断，流量控制，X-T关闭 Power controller with pressure cut-off flow control, X-T plugged		功率初始值同上 Power initial value as above	-	-	●	●	-	LA*DS

8-轴伸 Shaft End

花键轴伸 Splined shaft SAE	●	●	●	●	●	OS
花键轴伸 Splined shaft SAE (类似于S轴，较高的通轴驱动转矩)	●	●	●	●	●	OR
花键轴伸 Splined shaft SAE (直径较小)	●	●	●	●	●	U
花键轴伸 Splined shaftSAE (类似于U轴，较高的通轴驱动转矩)	-	●	●	●	●	W

11-通轴驱动 Through Drive

无通轴驱动 Without through drive	●	●	●	●	●	N
带通轴驱动 With through drive	●	●	●	●	●	K

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应用场景 Application scenarios



起重机
Cranes



装载机
Loaders