

## Регулируемые аксиально-поршневые насосы Rexroth A7VO 28...160

### Ordering code

01	02	03	04	05	06	07	08	09	10	11	12	13
<b>A7V</b>	<b>O</b>			<b>/</b>	<b>63</b>		<b>-</b>	<b>V</b>		<b>B</b>	<b>01</b>	

#### Axial piston unit

01	Bent-axis design, variable, nominal pressure 350 bar, maximum pressure 400 bar	<b>A7V</b>
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#### Operating mode

02	Pump, open circuit	<b>O</b>
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#### Size (NG)

03	Geometric displacement $V_g$ (cm <sup>3</sup> ), see "Technical data" on page 7	<b>28</b>	<b>55</b>	<b>80</b>	<b>107</b>	<b>160</b>
For sizes 250, 355 and 500, see data sheet 92203						

#### Control device

		28	55	80	107	160	
04	Power controller without power override	●	●	●	●	●	<b>LR</b>
	with pressure cut-off	●	●	●	●	●	<b>LRD</b>
	with stroke limiter                      negative control $\Delta p = 25$ bar	-	●	●	●	●	<b>LRH1</b>
	with pressure cut-off and stroke limiter      negative control $\Delta p = 25$ bar	-	●	●	●	●	<b>LRDH1</b>
	with pressure cut-off and load sensing	-	●	●	●	●	<b>LRDS</b>
Power controller with hydraulically proportional power override (only available for clockwise rotation and with port plate 02)							
	with load sensing	-	●	●	-	-	<b>LA1S</b>
	with load sensing and hydraulically proportional LS-override	-	●	●	-	-	<b>LA1S5</b>
	Pressure controller	●	●	●	●	●	<b>DR</b>
	remotely controlled	●	●	●	●	●	<b>DRG</b>
	with load sensing	-	●	●	●	●	<b>DRS</b>
	Proportional control hydraulic                      Positive control $\Delta p = 10$ bar	●	●	●	●	●	<b>HD1</b>
	with pressure cut-off, remotely controlled      Positive control $\Delta p = 10$ bar	●	●	●	●	●	<b>HD1G</b>
	Proportional control electrical                      Positive control $U = 24$ V	●	●	●	●	●	<b>EP2</b>

#### Series

05	Series 6, index 3	<b>63</b>
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#### Direction of rotation

		<b>28 to 160</b>		
06	Viewed on drive shaft	clockwise	●	<b>R</b>
		counter-clockwise	●	<b>L</b>

#### Sealing material

07	FKM (fluoroelastomer)	<b>V</b>
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#### Drive shaft

		<b>28 to 160</b>		
08	Splined shaft DIN 5480	●	<b>Z</b>	
	Parallel keyed shaft according to DIN 6885	●	<b>P</b>	

#### Mounting flange

09	ISO 3019-2; 4-hole	<b>B</b>
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#### Port plate for working lines

10	SAE flange ports A and S at rear (metric fastening thread)	<b>01</b>
	SAE flange ports A and S at side (available for power controllers LA1S and LA1S5 only, metric fastening thread)	<b>02</b>

● = Available    - = Not available     = Preferred program

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01	02	03	04	05	06	07	08	09	10	11	12	13
A7V	O		/	63		-	V		B	01		

**Connector for solenoids<sup>1)</sup>** (see page 40)

11	Without connector (without solenoid, with hydraulic control only; without code)	
	DEUTSCH molded connector, 2-pin – without suppressor diode	P

**Standard / special version**

12	Standard version (without code)	
	Special version	-S

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**Notes**

- ▶ Note the project planning notes on page 42!
- ▶ Preservation:
  - Up to 12 months as standard
  - Up to 24 months long-term  
(state in plain text when ordering)

## Type code for standard program

	<b>A7V</b>		<b>O</b>			<b>/</b>	<b>63</b>		<b>-</b>	<b>V</b>				
01	02	03	04	05	06		07	08		09	10	11	12	13

Fluid / Version		250	355	500	
01	Mineral oil and HFD. HFD only in conjunction with Long-Life-Lagerung „L“ (no code)	●	●	●	
	For operation on HFC, special high performance version A4VSO...F see RE 92053	●	●	–	
	High-Speed-Version (only mineral oil)	●	–	–	H <sup>1)</sup>

Axial piston unit		
02	Bent axis design, variable, nominal pressure 350 bar, peak pressure 400 bar	A7V

Drive shaft bearings		250	355	500	
03	Mechanical bearings (no code)	●	●	●	
	Long-Life-bearings	●	●	●	L

Type of operation		
04	Pump, open circuit	O

Size		250	355	500
05	Displacement $V_{g \max}$ [cm <sup>3</sup> ] NG28 to160 see RE 92202			

Control devices		250	355	500		
06	Pressure control	●	●	●	DR	
	Pressure control, remotely adjustable	●	●	●	DRG	
06	Power control					
	with integrated pressure control (fixed setting)	●	●	●	LRD	
	hydraulic stroke limiter	$\Delta p = 10 \text{ bar}$	●	●	●	LRDH1
	initial position $V_{g \max}$	$\Delta p = 25 \text{ bar}$	●	●	●	LRDH2
		$\Delta p = 35 \text{ bar}$	●	●	●	LRDH3
	hydraulic stroke limiter	$\Delta p = 10 \text{ bar}$	●	●	●	LRDN1
	initial position $V_{g \min}$	$\Delta p = 25 \text{ bar}$	●	●	●	LRDN2
		$\Delta p = 35 \text{ bar}$	●	●	●	LRDN3
	with pressure control remotely adjustable		●	●	●	LRG
	hydraulic stroke limiter	$\Delta p = 10 \text{ bar}$	●	●	●	LRGH1
	initial position $V_{g \max}$	$\Delta p = 25 \text{ bar}$	●	●	●	LRGH2
		$\Delta p = 35 \text{ bar}$	●	●	●	LRGH3
	hydraulic stroke limiter	$\Delta p = 10 \text{ bar}$	●	●	●	LRGN1
	initial position $V_{g \min}$	$\Delta p = 25 \text{ bar}$	●	●	●	LRGN2
		$\Delta p = 35 \text{ bar}$	●	●	●	LRGN3
06	Hydraulic control, pilot pressure dependent,					
	with integrated pressure control (fixed setting)	$\Delta p = 10 \text{ bar}$	●	●	●	HD1D
		$\Delta p = 25 \text{ bar}$	●	●	●	HD2D
		$\Delta p = 35 \text{ bar}$	●	●	●	HD3D
	with pressure control, remotely adjustable	$\Delta p = 10 \text{ bar}$	●	●	●	HD1G
		$\Delta p = 25 \text{ bar}$	●	●	●	HD2G
		$\Delta p = 35 \text{ bar}$	●	●	●	HD3G
	Hydraulic control, with electric proportional valve <sup>2)</sup>					
	with integrated pressure control (fixed setting)	Control voltage 12 V	●	●	●	EP1D
	Control voltage 24 V	●	●	●	EP2D	
06	with pressure control, remotely adjustable	Control voltage 12 V	●	●	●	EP1G
		control voltage 24 V	●	●	●	EP2G

<sup>1)</sup> recommended for new projects

<sup>2)</sup> for operation on HFD-fluids please observe RE 29181 (proportional pressure reducing valve type DRE4K)

## Type code for standard program

	<b>A7V</b>		<b>O</b>			<b>/</b>	<b>63</b>		<b>-</b>	<b>V</b>				
01	02	03	04	05	06		07	08		09	10	11	12	13

		250	355	500	
<b>Series</b>					
07	Series 6, Index 3	●	●	●	63
<b>Direction of rotation</b>					
08	with view on drive shaft	clockwise	●	●	R
		counter clockwise	●	●	L
<b>Seals</b>					
09	FKM (Fluoro-rubber)	●	●	●	V
<b>Drive shaft</b>					
10	Splined shaft to DIN 5480	●	●	●	Z
	Keyed parallel shaft to DIN 6885	●	●	●	P
<b>Mounting flange</b>					
11	Similar to ISO 3019-2	4-hole	●	-	B
		8-hole	-	●	H
<b>Service line connections</b>					
12	SAE-flanged port B or A, at rear (metric fixing bolts)	●	●	●	01
	SAE flanged port S, at rear (metric fixing bolts)				
	SAE- flanged ports B or A, on opposite side (metric fixing bolts)	●	●	●	02
	SAE- flanged port S, on opposite side (metric fixing bolts)				
<b>Swivel angle indicator</b>					
13	Without swivel angle indicator (no code)	●	●	●	
	With optical swivel angle indicator	●	●	●	V
	With electric swivel angle indicator	●	●	●	E

### Note

Exact value for  $V_{g \min}$  and  $V_{g \max}$  (displacement) must be stated in clear text when ordering ( $V_{g \min} \dots \text{cm}^3/\text{rev.}$ ,  $V_{g \max} \dots \text{cm}^3/\text{rev.}$ )

Setting range  $V_{g \min}: 0 \text{ to } 0.2 \cdot V_{g \max}$   
 $V_{g \max}: V_{g \max} \text{ down to } 0.8 \cdot V_{g \max}$

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- = Not available

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