YEOSHE

Type code for standard program

PA10V	0			/	5			ı	٧				
01	02	03	04		05	06	07		08	09	10	11	12

Axial piston unit 18 28 45 60¹⁾ 63 85 100 nominal pressure 3600 psi (250 bar), maximum pressure 4600 psi (315 bar) O PA10V \circ 0 \circ \circ Operation mode 02 Pump, open circuit 0 Size (NG) 28 | 45 |601) | 63 | 85 |100 03 Geometric displacement, see table of values Control device Pressure control 0 0 0 DR О with flow control, hydraulic X-T open 0 (3) 0 DFR 0 O²⁾ • 0 DRF 0 X-T plugged 0 $O_{3)}$ 0 0 DFR1 O²⁾ 0 _ ullet0 DRS Electrically overridable (negative characteristic) EF.D.4) with pressure cut-off, remotely operated hydraulic 0 0 0 • 0 DRG 0 electrical negative characteristic U = 12 V0 0 0 0 • 0 0 ED71 U = 24 V0 0 0 0 0 0 **ED72** • 04 U = 12 V0 0 0 0 ER715) positive characteristic 0 0 lacksquare0 0 0 0 U = 24 V0 0 • ER725) Power control with pressure cut-off Start of control 145 to 510 psi LA5D (10 to 35 bar) 0 0 0 • 0 0 (36 to 70 bar) 0 • 0 0 LA6D 520 to 1015 psi 0 0 0 0 0 1030 to 1520 psi (71 to 105 bar) 0 0 • LA7D (106 to 140 bar) 0 0 LA8D 1535 to 2030 psi O O 0 • 2045 to 3335 psi (141 to 230 bar) LA9D 0 0 0 • 0 0 remotely operated Start of control see LA.D 0 0 0 0 0 0 LA.DG Flow control, X-T plugged Start of control see LA.D LA.DS 0 0 0 _ 0 0 0 Flow control, electrically overridable Start of control see LA.D 0 0 0 0 0 0 LA.S (negative characteristic), X-T plugged

= available	O = on request	- = not available

¹⁾ Series 52 units are delivered as standard with 3.66 in 3 (60 cm 3). Higher values on request.

²⁾ Series 53 only with D flange

³⁾ Series 52 only with C flange

⁴⁾ The following must be taken into account during project planning:

Excessive current levels (I > 1200 mA with 12 V or I > 600 mA with 24 V) to the ER solenoid can result in undesired increase of pressure which can lead to pump or system damage:

⁻ Use Imax current limiter solenoids.

⁻ An intermediate plate pressure controller can be used to protect the pump in the event of overflow. An accessory kit with intermediate plate pressure controller can be ordered from Yeoshe

PA10VO Series

Axial Piston Pump



Type code for standard program

	PA10V	0			/	5			_	V				
Г	01	02	03	04		05	06	07		08	09	10	11	12

E	Electro-proportional control (positive charac	teristic) with
	pressure control	U = 12 V
		U = 24 V
	Pressure and flow control,	U = 12 V
	X-T open (load sensing)	U = 24 V
	Pressure and flow control,	U = 12 V
	X-T plugged (load sensing)	U = 24 V
04	Electrohydraulic pressure control	U = 12 V
~		U = 24 V
	Pressure and flow control with control-	U = 12 V
	ler cut-off, X-T open (load sensing)	U = 24 V
	Pressure and flow control with control- ler cut-off, X-T plugged (load sensing)	U = 12 V
	, 1 33 (37	U = 24 V
	Electrohydraulic pressure control with	U = 12 V
	controller cut-off	U = 24 V

18	28	45	60 ¹⁾	63	85	100	
0	0	0	-	0	0	0	EP1D
0	0	0	-	0	0	0	EP2D
О	0	0	-	О	0	0	EP1DF
0	0	0	-	0	0	0	EP2DF
О	0	0	-	0	0	0	EP1DS
0	0	0	-	О	0	0	EP2DS
0	0	0	-	0	0	0	EP1ED
0	0	0	-	0	0	0	EP2ED
0	0	0	-	О	0	0	EK1DF
0	0	0	-	0	0	0	EK2DF
0	0	0	-	0	0	0	EK1DS
O	0	0	-	0	0	0	EK2DS
0	0	0	-	0	0	0	EK1ED
0	0	0	-	0	0	0	EK2ED

Series

O.E.	Series 5, index 2	
05	Series 5, index 3	

_	0	0	0	_	0	-	52 ²⁾
0	0	0	-	•	0	0	53 ³⁾⁴⁾

Direction of rotation

06	With view on drive shaft	clockwise	R	
00		counter clockwise	L	l

Seals

0	7 FKM (fluor-caoutchouc)	l v	,	ı
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Drive shaft

	Splined shaft ANSI B92.1 a	standard shaft					
		similar to shaft "S" however for higher input torque					
00		reduced diameter, not for through drive					
80		similar to shaft "U", however for higher torque					
	Parallel shaft SAE with key, not for through drive						
	Tapered with Woodruff key						

	18	28	45	60 ¹⁾	63	85	100	
	0	О	0	0	•	0	0	S
	0	0	0	0	•	-	-	R
	О	-	0	0	•	0	О	U
	-	-	0	0	•	0	О	W
ĺ	-	_	-	-	-	-	-	K ⁷⁾
	-	-	-	-	-	-	-	C ⁷⁾

- 1) Series 52 units are delivered as standard with 3.66 in 3 (60 cm 3). Higher values on request.
- 2) Control DR, DFR, DFR1, DRG, ED and ER: delivery with size 10, 28, 45, 60 and 856 only in series 52
- $_{\rm 3)}$ Control DR, DRF, DRS, DRG, ED and ER: delivery with size 18, 63, $85^{\rm 5)}$ and 100 only in series 53
- $_{\rm 4)}$ Control EF., LA.., EP.. and EK.. Delivery with size 18 to 100 only in series 53
- 5) Control DRF and DRS: delivery with size 85 only with D flange in series 53
- 6) Control DFR, DFR1: delivery with size 85 only with C flange in series 52
- \bullet = available O = on request = not available

 $\circ |\circ| \circ |\bullet| \circ |\circ|$

YEOSHE

Type code for standard program

PA10V	0			/	5			_	V				
01	02	03	04		05	06	07		08	09	10	11	12

	01 02 00	00 00 07	,0		0	- 11	0			12
	Mounting flange		18	28	45	60 ¹⁾	63	85	100	
	ISO 3019-1 (SAE)	2-bolt	0	0	0	0	•	0	0	С
		4-bolt	0	-	-	0	•	O 2)	0	D
	Service line port		18	28	45	60 ¹⁾	63	85	100	
	SAE flange port at rear, UN (not for through drive)	IC fixing thread	О	0	0	О	•	0	О	61
10	SAE flange port on opposite (for through drive)	e side, UNF fixing thread	O	0	0	o	•	0	0	62
	UNF threaded ports, rear (r	not for through drive)	-	-	-	-	-	-	-	64
	Through drive		18	28	45	60 ¹⁾	63	85	100	
	Without through drive, stand	dard for versions 61 and 64	0	0	0	0	•	0	0	N00
	SAE J744 flange	coupling for splined shaft ³⁾								
	Diameter	diameter								
	82-2 (A)	5/8 in 9T 16/32DP	0	0	0	0	•	0	0	K01
		3/4 in 11T 16/32DP	0	0	0	О	•	О	О	K52
11	101-2 (B)	7/8 in 13T 16/32DP	-	0	0	0	•	0	О	K68
		1 in 15T 16/32DP	-	-	0	0	•	0	0	K04
	127-4 (C)	1 1/4 in 14T 12/24DP	-	-	-	0	•	0	0	K15
		1 1/2 in 17T 12/24DP	-	-	-	-	-	0	0	K16
	127-2 (C)	1 1/4 in 14T 12/24DP	-	-	-	-	-	0	0	K07
		1 1/2 in 17T 12/24DP	_	_	_	_	_	0	0	K24
	Connector for solenoids		18	28	45	60 ¹⁾	63	85	100	

1) Series 52 units are delivered as standard with 3.66 in³ (60 cm³). Higher values on request.

12 DEUTSCH molded connector, 2-pin – without suppressor diode

2) Only available in series 53. For controller designation and series assignment, please refer to positions 04, 05, including footnotes.