

Service Content

Technicial	Telephone:0086-0574-88382529
Network	Website:www.xyhydraulic.com
After service	Date:Monday to Saturday
Customer service	Welcome call us anytime



2024
Hydraulic component

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NINGBO XINGYING HYDARULIC CO.,LTD



ABOUT US

Ningbo Xingying Hydraulic Co.,Ltd was established in August of 2004, which is located Yunlong Town of Yinzhou District, Ningbo.

The company is famous for R&D, production, manufacturing full ranges hydraulic pump parts,which are widely use in road machinery,constructions machinery,and Industrial Machinery.

Our technology department have strong product design,developing and productions capabilities to satisfied market need,meanwhile,our supplying hydraulic components enjoy a high reputation in the market with advanced technology,excellent quality,comprehensive services and complete specifications.,exactly matches the needs of customers at different solution plans.

Company philosophy:The company's products are based in the industry with quality, complete varieties, bulk export, and affordable prices,and adhere to the business philosophy of"customer first,forge ahead".Company purpose: Adhere to the "customer first, service first, develop an enterprise with quality, win with excellence" principle to provide our customers with quality services.



Company Equipment

Besides good management,ideas and qualifled personnel, excellent equipment are the necessity to achieve strong-product capacity and ensuresuperior product quality.





Pursue quality Strive for excellence
MIXER TRUCK HYDRAULIC SYSTEM: PUMP, MOTOR AND REDUCER



Work together Keep pace with the times
R & D, PRODUCTION, AGENT, OPERATING HYDRAULIC ACCESSORIES



A journey of a thousand miles begins with a single step
HIGH QUALITY HYDRAULIC PUMP, HYDRAULIC MOTOR SUPPLYING

CATALOG

THE CHOICE OF A NEW GENERATION

Hydraulic motor series P01–P06

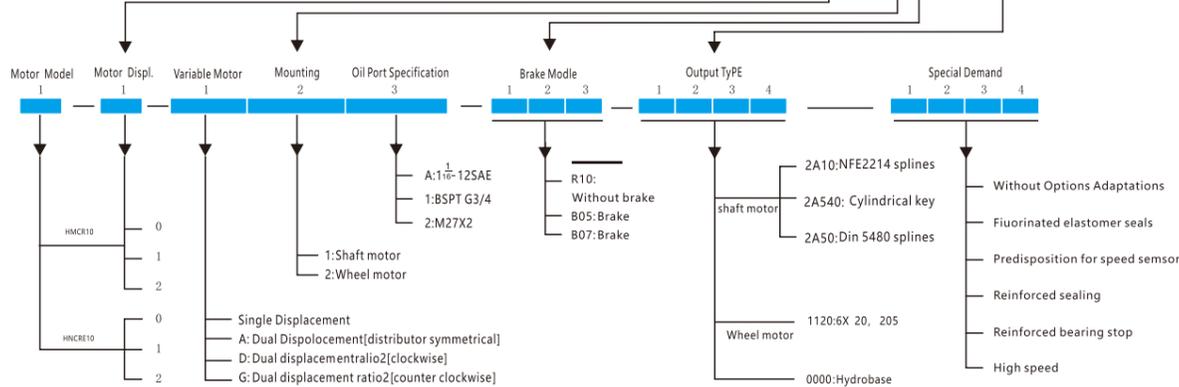
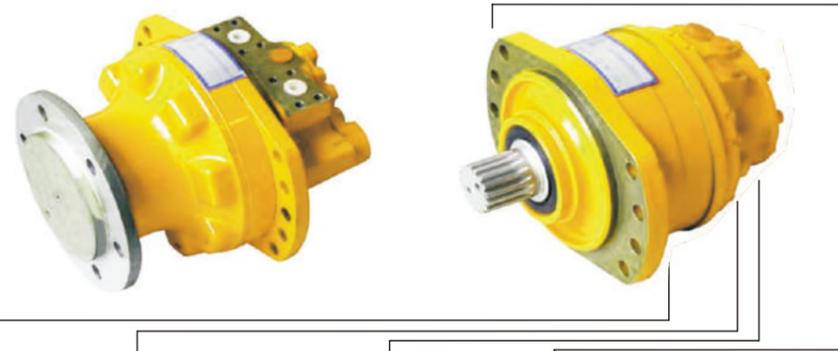
A4VG、90R Series hydraulic pump P07–P16

Charge pump series P17–P21

Piston pump spare parts series P22–P28

Pump.Motor.Reducer series P29–P31

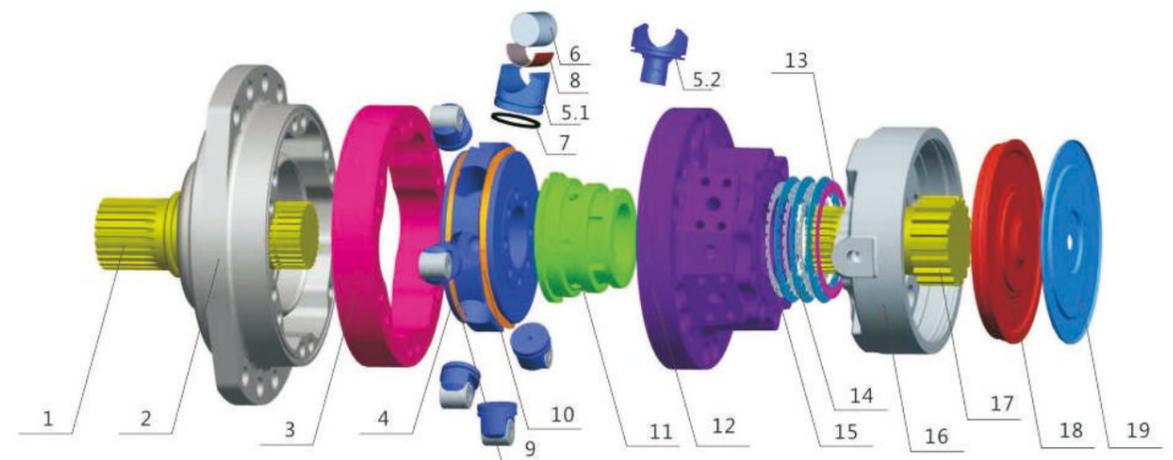
Hydraulic motor series XYMCR03/MCR05/MCR10



Code	XYMCR10			XYMCRE10		
Displacement Group	0	1	2	0	1	2
Displacement(ml/r)	780	860	940	1120	1250	1340
Theoretical torque at 10MPa(N.m)	1240	1367	1494	1780	1987	2130
Rated speed(r/min)	125	100	100	100	80	80
Rated pressure(Mpa)	25	25	25	25	25	25
Rated torque (N.m)	2560	2820	3090	3680	4110	4400
Max.pressure (Mpa)	31.5	31.5	31.5	31.5	31.5	31.5
Max.torque (N.m)	3160	3480	3810	4540	5060	5430
Speed range (r/min)	0-215	0-195	0-180	0-150	0-135	0-125
Max.power (kW)	44	44	44	50	50	50

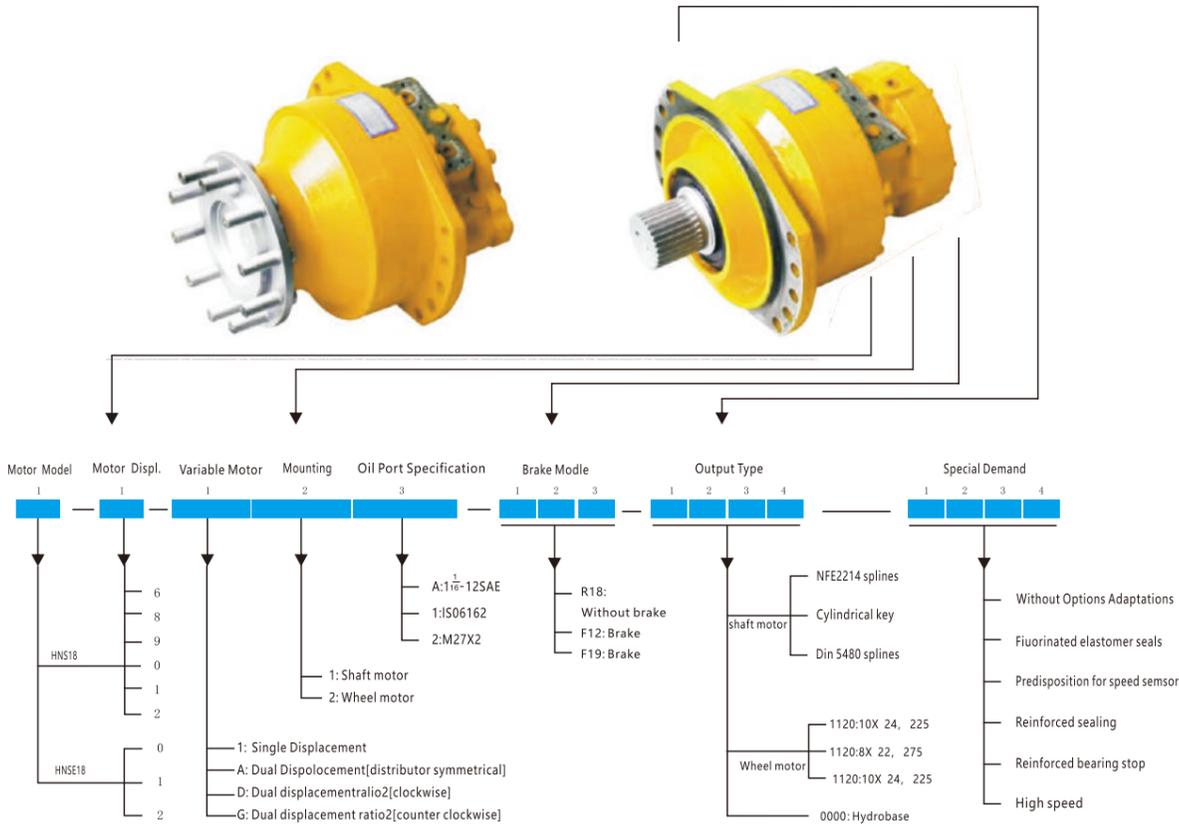


(Products are introduced in detail):

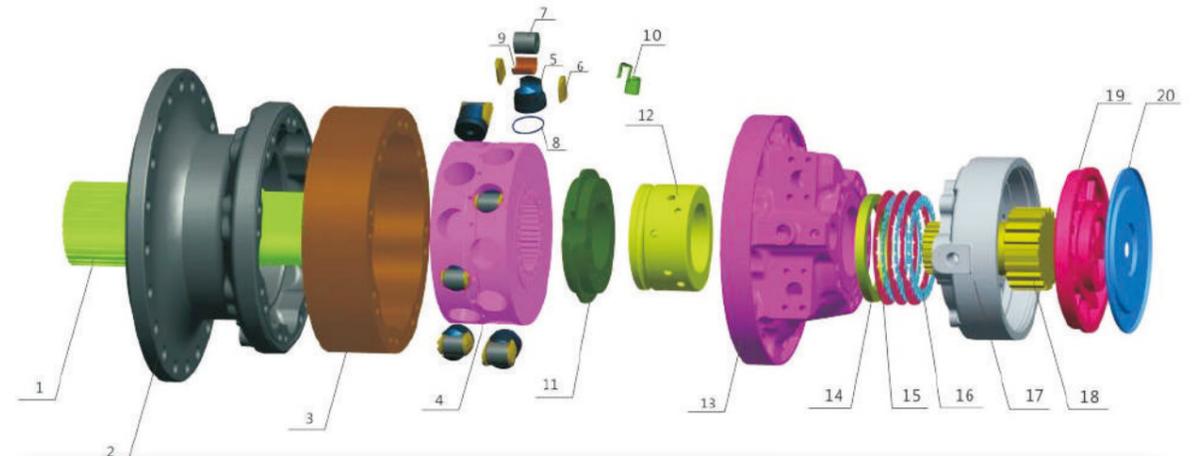


(ITEM)	(DESCRIPTION)	(QUANTITY)	(REMARK)	(ITEM)	(DESCRIPTION)	(QUANTITY)	(REMARK)
1	DRIVE SHAFT	1		10	CLIP RING	2	
2	FRONT COVER	1		11	DISTRIBUTOR	1	
3	STATOR	1		12	REAR COVER	1	
4	ROTOR	1		13	ADJUSTING SHIM	1	
5.1	PLUNGER PISTON	10		14	DYNAMIC FRICTION	14	
5.2	PLUNGER PISTON	10		15	STATIC FRICTION	15	
6	ROLLER	10		16	BRAKE CYLINDER	1	
7	PISTON RING	10		17	BRAKE SHAFT	1	
8	BUSHING	10		18	BRAKE PLUNGER	1	
9	BAFFLE RING	2		19	COVER PLATE	1	

Hydraulic motor series XYMS(E)02/MS(E)05/MS(E)08/MS(E)11/MS(E)18/MS(E)25



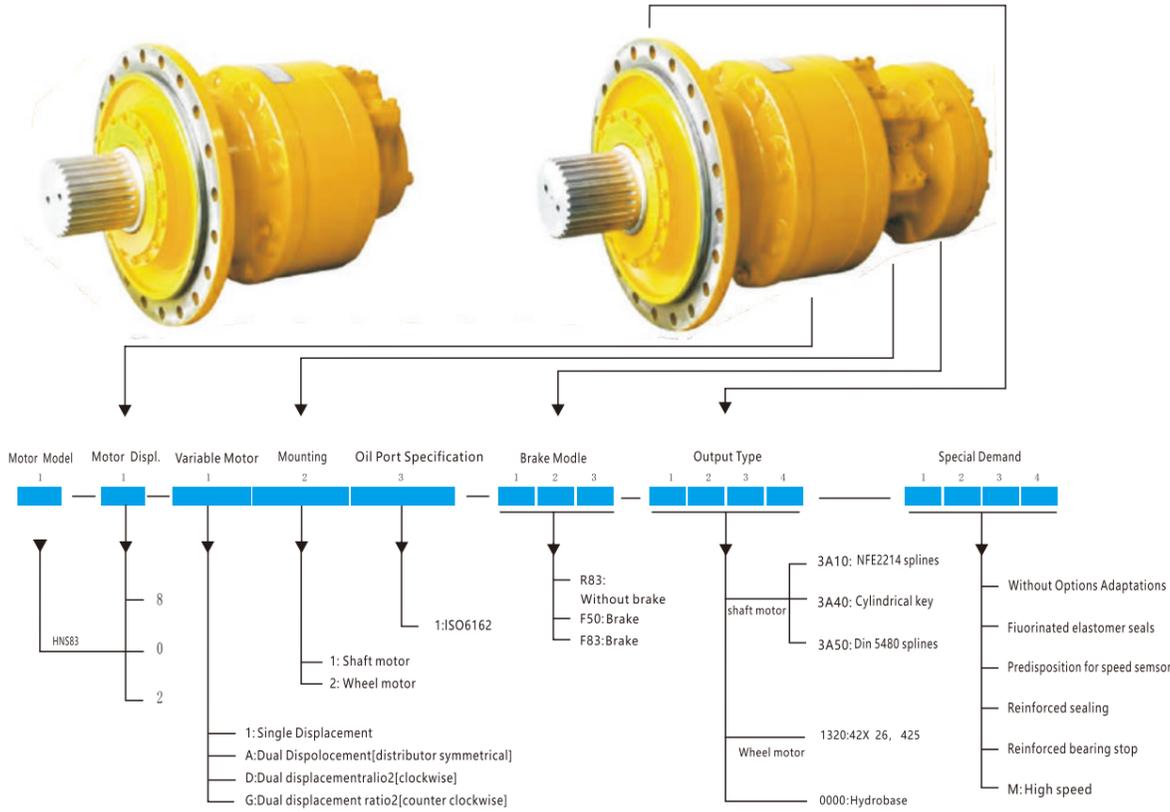
(Products are introduced in detail):



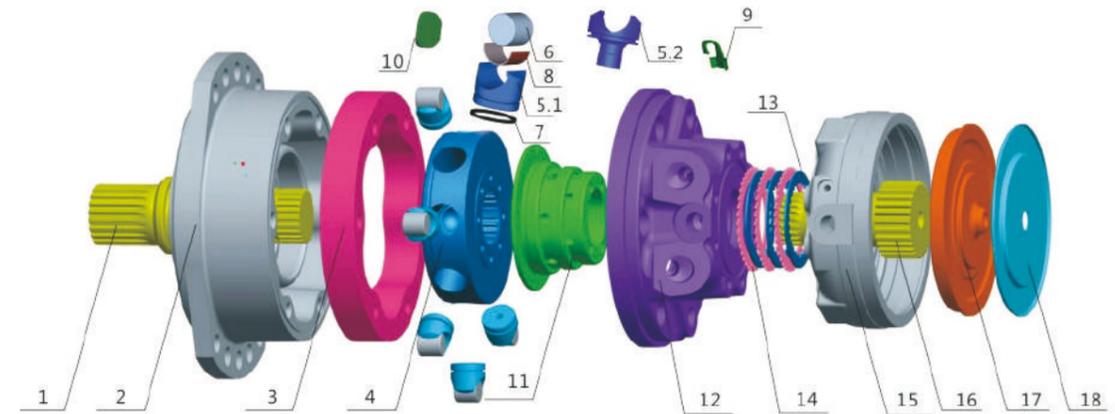
Code	XYMS18						XYMSE18		
Displacement Group	6	8	9	0	1	2	0	1	2
Displacement(ml/r)	1091	1395	1571	1747	1911	2099	2340	2560	2812
10MPa Theoretical torque at 10MPa(N.m)	1735	2218	2498	2778	3038	3337	3721	4070	4471
Rated speed(r/min)	100	100	100	80	80	80	63	63	50
Rated pressure(Mpa)	25	25	25	25	25	25	25	25	25
Rated torque (N.m)	3580	4550	5150	5700	6250	6900	7650	8400	9200
Max.pressure (Mpa)	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5
Max.torque (N.m)	4420	5650	6350	7050	7700	8500	9450	10350	11400
Speed range (r/min)	0-170	0-155	0-140	0-125	0-115	0-100	0-90	0-85	0-75
Max.power (kW)									

(ITEM)	(DESCRIPTION)	(QUANTITY)	(REMARK)	(ITEM)	(DESCRIPTION)	(QUANTITY)	(REMARK)
1	DRIVE SHAFT	1		11	CLIP RING	1	
2	FRONT COVER	1		12	DISTRIBUTOR	1	
3	STATOR	1		13	REAR COVER	1	
4	ROTOR	1		14	ADJUSTING SHIM	1	
5	PLUNGER PISTON	810		15	DYNAMIC FRICTION	14	
6	PLUNGER PISTON	16		16	STATIC FRICTION	15	
7	ROLLER	8		17	BRAKE CYLINDER	1	
8	PISTON RING	8		18	BRAKE SHAFT	1	
9	BUSHING	8		19	BRAKE PLUNGER	1	
10	BAFFLE RING	8		20	COVER PLATE	1	

Hydraulic motor series XYMS(E)35/MS(E)50/MS(E)83/MS(E)125



(Products are introduced in detail):



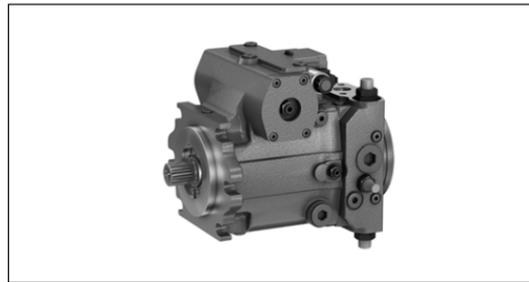
(ITEM)	(DESCRIPTION)	(QUANTITY)	(REMARK)	(ITEM)	(DESCRIPTION)	(QUANTITY)	(REMARK)
1	DRIVE SHAFT	1		10	PLASTIC BLOCK	16	
2	FRONT COVER	1		11	DISTRIBUTOR	1	
3	STATOR	1		12	REAR COVER	1	
4	ROTOR	1		13	DYNAMIC FRICTION	10	
5.1	PLUNGER PISTON	8		14	STATIC FRICTION	10	
5.2	PLUNGER PISTON	8		15	BRAKE CYLINDER	1	
6	ROLLER	8		16	BRAKE SHAFT	1	
7	PISTON RING	8		17	BRAKE PLUNGER	1	
8	BUSHING	8		18	COVER PLATE	1	
9	BAFFLE RING	8					

Displacement Group	8	0	2
Displacement(ml/r)	6679	8328	10019
10MPa Theoretical torque at 10MPa(N.m)	10620	13242	15930
Rated speed(r/min)	63	50	40
Rated pressure(Mpa)	25	25	25
Rated torque (N.m)	21700	27050	32550
Max.pressure (Mpa)	31.5	31.5	31.5
Max.torque (N.m)	27050	33750	40600
Speed range (r/min)	0-65	0-52	0-43
Max.power (kW)	Standard displacement is 220kw,variable displacement priority rotation 135kw		

Axial piston variable pump A4VG Series 32

Europe

RE-E 92003
Edition: 06.2018
Replaces: 04.2016



- ▶ High-pressure pump for applications in a closed circuit
- ▶ Size 28 to 125
- ▶ Nominal pressure 400 bar
- ▶ Maximum pressure 450 bar
- ▶ Closed circuit

Features

- ▶ Integrated auxiliary pump for boost and pilot oil supply
- ▶ Flow direction changes smoothly when the swashplate is moved through the neutral position
- ▶ High-pressure relief valves with integrated boost function
- ▶ With adjustable pressure cut-off as standard
- ▶ Boost-pressure relief valve
- ▶ Through drive for mounting of further pumps up to same nominal size
- ▶ Large variety of controls
- ▶ Swashplate design

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2 A4VG Series 32 | Axial piston variable pump Type code

Type code

01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	
A4V	G			D					/	32												

Axial piston unit

01	Swashplate design, variable, nominal pressure 400 bar, maximum pressure 450 bar	A4V
----	---	-----

Operating mode

02	Pump, closed circuit	G
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Size (NG)

03	Geometric displacement, see "Technical data" on page 8	28	40	56	71	90	125
----	--	----	----	----	----	----	-----

Control device

		28	40	56	71	90	125
04	Without control module	•	•	•	•	•	NV
	Proportional control, hydraulic	•	•	•	•	•	HD3
	Pilot-pressure related $p = 6$ to 18 bar	•	•	•	•	•	HW
	Mechanical servo	•	•	•	•	•	
	Proportional control, electric	•	•	•	•	•	EP3
	<i>U</i> = 12 V	•	•	•	•	•	EP4
	<i>U</i> = 24 V	•	•	•	•	•	
	Two-point control, electric	•	•	•	•	•	EZ1
	<i>U</i> = 12 V	•	•	•	•	•	EZ2
	<i>U</i> = 24 V	•	•	•	•	•	
	Automatic control, speed related	•	•	•	•	•	DA1
	<i>U</i> = 12 V	•	•	•	•	•	DA2
	<i>U</i> = 24 V	•	•	•	•	•	
	Hydraulic control, direct operated	•	•	•	•	•	DG
	Electric control, direct operated,	•	•	•	•	•	ET5
	two pressure reducing valves	•	•	•	•	•	ET6
	<i>U</i> = 12 V	•	•	•	•	•	
	<i>U</i> = 24 V	•	•	•	•	•	

Pressure cut-off

05	Pressure cut-off (standard)	D
----	-----------------------------	---

Neutral position switch

06	Without neutral position switch (without code)	•
	Neutral position switch (for HW control only)	L

Mechanical stroke limiter

07	Without mechanical stroke limiter (without code)	•
	Mechanical stroke limiter, externally adjustable	M

Stroking chamber pressure port

08	Without stroking chamber pressure port X ₃ , X ₄ (without code)	•
	Stroking chamber pressure port X ₃ , X ₄	T

DA control valve

		NV	HD	HW	DG	DA	EP	EZ
09	Without DA control valve	•	•	•	•	•	•	1
	DA control valve, fixed setting	-	•	•	•	•	•	2
	DA control valve, mechanically adjustable with position lever		•	•	•	•	•	3R
		direction of actuation, clockwise	-	•	•	•	•	3L
	direction of actuation, counter-clockwise	-	•	•	•	•		
	DA control valve, fixed setting, ports for pilot control device	-	•	•	-	•	•	7
	DA control valve, fixed setting and brake inch valve mounted, control with brake fluid	-	-	-	-	•	-	8

• = Available ◻ = On request - = Not available ◻ = Preferred program

Axial piston variable pump | **A4VG Series 32** 3
Type code

01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22		
A4V	G				D				/	32													
Series																							
10	Series 3, index 2																				32		
Direction of rotation																							
11	Viewed on drive shaft																			clockwise	R		
																				counter-clockwise	L		
Sealing material																							
12	NBR (nitrile rubber), shaft seal in FKM (fluoroelastomer)																				N		
Drive shaft																							
13	Splined shaft DIN 5480	for single pump																				Z	
		for combination pump – 1st pump	-1)																				A
	Splined shaft ANSI B92.1a	for single pump																					S
		for combination pump – 1st pump	-2)	-2)																			T
		only for combination pump – 2nd pump																				U	
Mounting flange																							
14	SAE J744	2-hole																				C	
		2+4-hole																				F	
Working port																							
15	SAE working port A and B , top and bottom		Suction port S bottom																			02	
	SAE working port A and B , top and bottom		Suction port S top																			03	
	SAE working port A and B , same side right ³⁾		Suction port S bottom																			10	
	SAE working port A and B , same side left ³⁾		Suction port S bottom																			10	
	SAE working port A and B , same side right ³⁾		Suction port S top																			13	
	SAE working port A and B , same side left ³⁾		Suction port S top																			13	
Boost pump																							
16	Without integrated boost pump		without through drive																			N	
			with through drive																			K	
	Integrated boost pump		with and without through drive																				F
Through drive																							
17	Without through drive, versions N and F (no. 16) only																					00	
	Flange SAE J744 ⁴⁾		Hub for splined shaft:																				
	Ø2-2 (A)		5/8 in 9T 16/32DP ⁵⁾																				01
	101-2 (B)		7/8 in 13T 16/32DP ⁶⁾																				02
			1 in 15T 16/32DP ⁵⁾																				04
	127-2 (C) ⁶⁾		1 in 15T 16/32DP ⁵⁾																				09
			1 1/4 in 14T 12/24DP ⁵⁾																				07
	152-2/4 (D)		W35 2x16x9 g ⁷⁾																				73
		1 3/4 in 13T 8/16DP ⁵⁾																				69	

● = Available ○ = On request - = Not available = Preferred program

1) Standard for combination pump – 1st pump: Shaft Z
2) Standard for combination pump – 1st pump: Shaft S
3) Only possible without attachment filter
4) 2 = 2-hole; 4 = 4-hole

5) Hub for splined shaft to ANSI B92.1a
6) NG90 to 125 with additional 4-hole-flange (127-4)
7) Hub for splined shaft according to DIN 5480.

4 **A4VG Series 32** | Axial piston variable pump
Type code

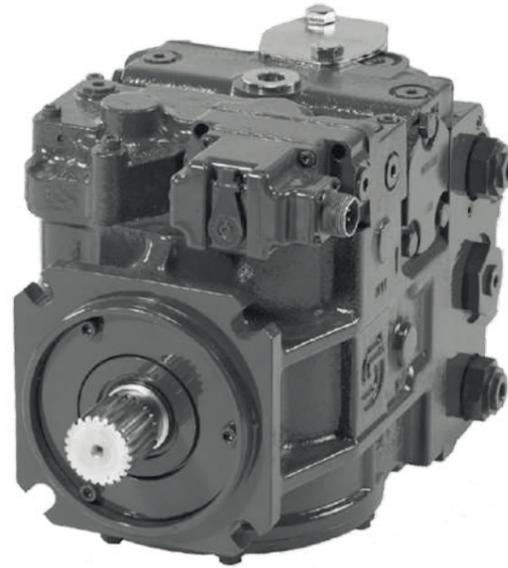
01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22			
A4V	G								/	32														
High-pressure relief valve																								
										Setting range Δp														
										100 to 420 bar	with bypass													
										250 to 420 bar	without bypass													
										100 to 250 bar	with bypass													
											without bypass													
											with bypass													
Filtration boost circuit/external boost pressure supply																								
										28	40	56	71	90	125									
18	High pressure relief valve, pilot operated										100 to 420 bar	with bypass												
	High-pressure relief valve, direct operated, fixed setting										250 to 420 bar	without bypass												
												with bypass												
												without bypass												
												with bypass												
Swivel angle sensor																								
20	Without swivel angle sensor (without code)																							
	Electric swivel angle sensor ⁸⁾																					R		
Connector for solenoids⁹⁾																								
21	Without connector (without code), only for purely hydraulic control																							
	DEUTSCH molded connector, 2-pin										without suppressor diode													
											with suppressor diode (only for EZ and DA)													
Standard / special version																								
22	Standard version										without code													
											combined with attachment part or attachment pump													
	Special version																							
											combined with attachment part or attachment pump													

● = Available ○ = On request - = Not available = Preferred program

Notice
▶ Note the project planning notes on page 70.
▶ In addition to the type code, please specify the relevant technical data when placing your order.

8) Please contact us if the swivel angle sensor is used for control
9) Connectors for other electric components may deviate

Series 90 Axial Piston Pumps



Technical Information
Series 90 Axial Piston Pumps

Master Model Code

Series 90 Master Model Code Breakdown

R Size M P J G N F L H T W Y Z K
S90

S90 Rotation and Size Options

R - Rotation

Code	Description	055	075	100	130	180	250
R	Right hand [CW]	X	X	X	X	X	X
L	Left hand [CCW]	X	X	X	X	X	X

Size

Code	Description	055	075	100	130	180	250
055	55 cc [3.36 in ³] max displacement per revolution	X					
075	75 cc [4.58 in ³] max displacement per revolution		X				
100	100 cc [6.10 in ³] max displacement per revolution			X			
130	130 cc [7.93 in ³] max displacement per revolution				X		
180	180 cc [10.98 in ³] max displacement per revolution					X	
250	250 cc [15.26 in ³] max displacement per revolution						X

Technical Information
Series 90 Axial Piston Pumps

Master Model Code

S90 Control Options

M - Controls

Code	Description	055	075	100	130	180	250
CA	Cover plate without feedback link, no control	X	X	X	X	X	X
DC	3 position F-N-R solenoid control (12V, DC) DIN connector	X	X	X	X	X	
DD	3 position F-N-R solenoid control (24V, DC) DIN connector	X	X	X	X	X	X
HF	HDC 2, std. porting, 3, 0-11 bar [44-160 psi]	X	X	X	X	X	X
KA	EDC, M5 connector, std. porting, dual coil (14-85 mA)	X	X	X	X	X	X
KN	EDC, M5 connector, std. porting, 643 Ohm single coil (4-20 mA)	X	X	X	X	X	X
KT	EDC DEUTSCH connector, std. porting, dual coil (14-85 mA)	X	X	X	X	X	X
KP	EDC, Weatherpack connector, std. porting, dual coil (14-85 mA)	X	X	X	X	X	X
MA	MDC	X	X	X	X	X	X
MB	MDC with neutral start switch	X	X	X	X	X	X
FA	NFPE control with 12V Amp connector; proportional solenoid with pressure reducing valve (25 bar)	X		X			
FB	NFPE control with 24V Amp connector; proportional solenoid with pressure reducing valve (25 bar)	X		X	X		
FC	NFPE control with 12V Amp connector; proportional solenoid with pressure reducing valve (32 bar)	X		X			
FD	NFPE control with 24V Amp connector; proportional solenoid with pressure reducing valve (32 bar)	X		X			
FG	NFPE control with 12V Amp connector; proportional solenoid with pressure reducing valve (32 bar) fast response		X	X	X	X	
FH	NFPE control with 24V Amp connector; proportional solenoid with pressure reducing valve (32 bar) fast response		X	X	X	X	
FK	NFPE control with 12V AMP connector; proportional solenoid with pressure reducing valve (25 bar)		X				
FL	NFPE control with 24V AMP connector; proportional solenoid with pressure reducing valve (25 bar)		X				
FM	NFPE control with 12V Amp connector; proportional solenoid with pressure reducing valve (32 bar) fast response		X				
FN	NFPE control with 24V Amp connector; proportional solenoid with pressure reducing valve (32 bar)		X				

Technical Information
Series 90 Axial Piston Pumps

Master Model Code

S90 Pressure, Aux Mounting, Ports, Filtration, Displacement Limitation

P – High pressure regulation

Code	Description	055	075	100	130	180	250
1	Pressure limiter for port A and B (140-450 bar)	X	X	X	X	X	X
2	High pressure relief valves for port A and B (90-450 bar)	X	X	X	X	X	X

J – Auxiliary Mounting Pad

Code	Description	055	075	100	130	180	250
AB	SAE-A with sealed cover, 9 teeth coupling	X	X	X	X	X	X
BB	SAE-B with sealed cover, 15 teeth coupling	X	X	X	X	X	X
BC	SAE-B with sealed cover, 13 teeth coupling	X	X	X	X	X	X
CD	SAE-C with sealed cover, 4 bolt adapter, 14 teeth coupling	X	X	X	X	X	X
DE	SAE-D with sealed cover, 13 teeth coupling				X	X	X
EF	SAE-E with sealed cover, 13 teeth coupling					X	X
NN	No auxiliary mounting pad	X	X	X	X	X	X

G – Endcap ports

Code	Description	055	075	100	130	180	250
60	Slide ports	X	X	X			
80	Twin ports	X	X	X	X	X	X

N – Filtration

Code	Description	055	075	100	130	180	250
D	External charge pump	X	X	X	X	X	X
L	Pressure integral (long filter)	X	X	X	X		
P	Pressure integral (short filter)	X	X	X	X		
R	Remote pressure	X	X	X	X		
T	Remote pressure with SAE 1 1/16 thread ports for high flow					X	X
S	Suction filtration	X	X	X	X	X	X

F – Displacement limitation

Code	Description	055	075	100	130	180	250
C	No limiters (180 cc only)					X	
M	Limitation on both sides (180 cc only)					X	
3	No limiters	X	X	X	X		X
4	Limitation on both sides	X	X	X	X		X
7	No limiters, special servo cylinder side 1 with hard spring (for pumps with NFPE control only)	X	X	X	X	X	

Technical Information
Series 90 Axial Piston Pumps

Master Model Code

S90 Shaft and Charging System

L – Shaft Options

Code	Description	055	075	100	130	180	250
C6	Splined shaft, 21 teeth, 16/32 pitch	X	X	X			
C7	Splined shaft, 23 teeth, 16/32 pitch		X	X			
C8	Splined shaft, 27 teeth, 16/32 pitch				X	X	X
F1	Splined shaft, 13 teeth, 8/16 pitch			X	X	X	X
S1	Splined shaft, 14 teeth, 12/24 pitch	X	X	X			
G1	Splined shaft, 25 teeth, 20/40 pitch		X	X			
T1	Tapered shaft, 34.925 mm diameter	X	X				
T6	Tapered shaft, 38.1 mm diameter		X	X			
T8	Tapered shaft, 25.4 mm diameter						
T4	Tapered shaft, 44.45 mm diameter				X		

H – Charging System

Code	Description	055	075	100	130	180	250
B	11 cc/rev nominal flow	X					
C	14 cc/rev nominal flow	X	X				
D	17 cc/rev	X	X	X			
E	20 cc/rev		X	X			
F	26 cc/rev			X	X		
H	34 cc/rev				X	X	
J	47 cc/rev					X	X
K	65 cc/rev						X
L	External charge pump with internal charge pressure relieve valve for units with auxiliary mounting pad	X	X	X	X	X	X
N	External charge pump with internal charge pressure relieve valve for units without auxiliary mounting pad		X	X	X	X	X

Technical Information
Series 90 Axial Piston Pumps

Master Model Code

S90 Control Orifice Options

T – Control Orifice Options for MDC

Code	Inlet P	Drain TA	Drain TB	Servo A	Servo B	055	075	100	130	180	250
00	None	1.6"	1.6"	None	None	X	X	X	X	X	X
03	0.81	1.6"	1.6"	None	None	X	X	X	X	X	X
05	1.37	1.6"	1.6"	None	None	X	X	X	X	X	X
C5	0.81	1.4	1.4	None	None	X	X	X	X	X	X
C6	1.37	1.4	1.4	None	None	X	X	X	X	X	X

* No orifice installed in control, orifice hole in control spool

T – Control Orifice Options for EDC

Code	Inlet P	Drain TA	Drain TB	Servo A	Servo B	055	075	100	130	180	250
00	None	1.3	1.3	None	None	X	X	X	X	X	X
03	0.81	1.3	1.3	None	None	X	X	X	X	X	X
05	1.37	1.3	1.3	None	None	X	X	X	X	X	X
33	0.81	None	None	None	None	X	X	X	X	X	X

T – Control Orifice Options for FNR

Code	Inlet P	Drain T	Servo A	Servo B	055	075	100	130	180	250
G1	None	1.2	None	None	X	X	X	X	X	X
G4	0.46	1.2	None	None	X	X	X	X	X	X
G8	0.66	1.2	None	None	X	X	X	X	X	X
GB	0.81	1.2	None	None	X	X	X	X	X	X
GD	1.57	1.2	None	None	X	X	X	X	X	X

T – Control Orifice Options for HDC

Code	Inlet P	Drain TA	Drain TB	Servo A	Servo B	055	075	100	130	180	250
00	None	1.3	1.3	None	None	X	X	X	X	X	X
003	0.81	1.3	1.3	None	None	X	X	X	X	X	X
005	1.37	1.3	1.3	None	None	X	X	X	X	X	X

T – Control Orifice Options for NFPE

Code	Inlet P	Drain T	Servo A	Servo B	055	075	100	130	180	250
B1	None	1.5	None	None	X	X	X	X	X	X
B2	None	None	1.2	1.2	X	X	X	X	X	X
B6	None	None	None	None		X				

Technical Information
Series 90 Axial Piston Pumps

Master Model Code

S90 Special Hardware and Pressure Settings

W – Special Hardware Features

Code	Description	055	075	100	130	180	250
EFG	Speed ring, no sensor, CP30 + 4.3" valve plate	X	X	X	X		
EFC	Speed sensing, Turck connector (KPP x 156), CP15 + 1.5" valve plate		X	X	X		
EFI	Speed sensing Turck connector (KPP x 156) CP30 + 4.3" valve plate	X	X	X	X	X	X
FAC	Nest T-bar springs CP15 + 1.5" valve plate	X	X	X	X		X
FAD	Nested T-bar springs CP15 + 0.5" valve plate	X	X	X	X		
GBA	CP15 + 0.5" valve plate	X	X	X	X		
GCA	CP15 + 1.5" valve plate	X	X	X	X	X	
GLA	CP30 + 4.3" valve plate, CP30 valve plug	X	X	X	X	X	X
NNN	180cc: CP15 + 0.5" valve plate 250cc: CP15 + 1.5" valve plate, nested T-bar springs					X	X

Y – High Pressure Setting A

Code	Pressure	055	075	100	130	180	250
26	260 bar	X	X	X	X	X	X
32	320 bar	X	X	X	X	X	X
35	350 bar	X	X	X	X	X	X
38	380 bar	X	X	X	X	X	X
40	400 bar	X	X	X	X	X	X
42	420 bar	X	X	X	X	X	X

Z – High Pressure Setting B

Code	Pressure	055	075	100	130	180	250
26	260 bar	X	X	X	X	X	X
32	320 bar	X	X	X	X	X	X
35	350 bar	X	X	X	X	X	X
38	380 bar	X	X	X	X	X	X
40	400 bar	X	X	X	X	X	X
42	420 bar	X	X	X	X	X	X

K – Charge Pressure Setting

Code	Pressure	055	075	100	130	180	250
20	20 bar	X	X	X	X	X	X
22	22 bar	X	X	X	X	X	X
24	24 bar	X	X	X	X	X	X
26	26 bar	X	X	X	X	X	X
28	28 bar	X	X	X	X	X	X
30	30 bar	X	X	X	X	X	X
32	32 bar	X	X	X	X	X	
34	34 bar	X	X	X	X	X	

Charge pump parameter comparison form

Serial number	Model numbe	Number of spline sleeve tooth	Serial number	Model numbe	Number of spline sleeve tooth
1	A4VG28-A	Z=16 Z=0	33	A4VG180-A	Z=30 Z=13
2	A4VG28-B1	Z=16 Z=9	34	A4VG180-B	Z=30 Z=0
3	A4VG40-A	Z=13 Z=15	35	A4VG180-C	Z=30 Z=13
4	A4VG40-B	Z=15	36	A4VG180-D	Z=30 Z=13, Z=24
5	A4VG40-C	Z=15 Z=13	37	A4VG180-E	Z=30 Z=9
6	A4VG40-D	Z=15 Z=9	38	A4VG180-F	Z=30 Z=14(/A4VG71)
7	A4VG40-E	Z=15 Z=14	39	A4VG250-A	Z=30 Z=0
8	A4VG56-A	Z=21 Z=15	40	A4VG250-B	Z=13 Z=24, Z=14
9	A4VG56-C	Z=21 Z=14	41	A10VG28	Z=16 Z=9
10	A4VG56-D	Z=21 Z=9	42	A10VG45	Z=15 Z=9
11	A4VG56	Z=21 Z=11	43	A10VG45	Z=15 Z=13
12	A4VG56	Z=21 Z=13	45	A10VG45	Z=15 Z=15
13	A4VG71-A	Z=22 Z=13	46	A10VG45	Z=15 Z=0
14	A4VG71-A	Z=22 Z=14	47	A10VG63	Z=22 Z=13
15	A4VG71-A	Z=22 Z=15	48	MPV046	Depth12.7 Thickness 22.4
16	A4VG71-B(Diamond)	Z=13 Z=14, Z=15	49	MPV046(A)	Depth19 Thickness: 29
17	A4VG71-C	Z=22 Z=9	50	H1P046	
18	A4VG71-D	Z=22 Z=0	51	R90-42(11CC.14CC)	
19	A4VTG71-A	Z=13 Z=0	52	R90-55(11CC.14CC.17CC)	
20	A4VTG71-B	Z=22 Z=0	53	R90-75(14cc.17CC.20CC)	
21	A4VTG90-A	Z=13 Z=0	54	R90-100(17CC.20CC.26CC)	
22	A4VTG90-B	Z=24 Z=0	55	R90-130(26CC.34CC)	
23	A4VG90-A	Z=24 Z=0	56	R90-180(34CC.47CC)	
24	A4VG90-B (Four corner)	z=24 Z=13	57	R90-250(47CC.65CC)	
25	A4VG90-C (Lace)	z=24 Z=14	58	SPV6-119	Depth19 Thickness: 43
26	A4VG90-D (Round)	z=24 Z=9	59	SPV6-119(A)	Depth13.5 Thickness: 37.5
27	A4VG125-A	z=26 Z=13	60	MSR90 Messori	
28	A4VG125-B	Z=26 Z=13(/ 28)			
29	A4VG125-B	Z=26 Z=15(/ 45)			
30	A4VG125-C	Z=26 Z=14			
31	A4VG125-D	Z=26 Z=0			
32	A4VG125-E	Z=26 Z=9			

A4VG Series charge pump



Rexroth series

Name: Charge pump(Close Type)
Model number
A4VG28 CLOSE TYPE



Rexroth series

Name: Charge pump(Square)
Model number
A4VG28 SQUARE



Rexroth series

Name: Charge pump(Close Type)
Model number
A4VG40 CLOSETYPE



Rexroth series

Name: Charge pump(Close Type)
Model number A10VG45



Rexroth series

Name: Charge pump(Adiamond)
Model number
A4VG56 RHOMBUS



Rexroth series

Name: Charge pump(Close Type)
Model number
A4VG56 CLOSETYPE



Rexroth series

Name: Charge pump(/9Teeth)
Model number A4VG56 (9T)



Rexroth series

Name: Charge pump(/13Teeth)
Model number A4VG56 (13T)



Rexroth series

Name: Charge pump(Close Type)
Model number
A4VG90 CLOSE TYPE (13T)

A4VG Series charge pump



Rexroth series

Name : A4VTG90Charge pump
Model number
A4VTG90 CLOSE TYPE (24T)



Rexroth series

Name : A4VG90/13TCharge pump
Model number A4VG90 (13T)



Rexroth series

Name : A4VG90 Charge pump
Model number A4VG90LACE



Rexroth series

Name : A4VG90 Charge pump
Model number A4VG90 ENLARGE



Rexroth series

Name : A4VG90/9Charge pump
Model number A4VG90 (9T)



Rexroth series

Name : A4VG125/28Charge pump
Model number A4VG125/28



Rexroth series

Name : A4VG125/125Charge pump
Model number A4VG125/125



Rexroth series

Name : A4VG125/71Charge pump
Model number A4VG125/71



Rexroth series

Name : A4VG125/9Charge pump
Model number A4VG125 (9T)

A4VG Series - 90R Series charge pump



Rexroth series

Name : A4VG180/28Charge pump
Model number A4VG180/28



Rexroth series

Name : A4VG180/180Charge pump
Model number A4VG180/180



Rexroth series

Name : A4VG250/Charge pump
Model number A4VG250CLOSE TYPE



Sauer Series

Name: 55Charge pump
Model number 90R55



Sauer Series

Name: 75Charge pump
Model number 90R75



Sauer Series

Name: 100Charge pump
Model number 90R100



Sauer Series

Name: 130Charge pump
Model number 90R130



Sauer Series

Name: 180Charge pump
Model number 90R180



Sauer Series

Name: 250Charge pump
Model number 90R250

Other Series charge pump



Rexroth Series

Name: Charge pump
Model number
AP2D21 CHARGE PUMP



Sauer Series

Name: Charge pump
Model number PV041/042



Sauer Series

Name: Charge pump
Model number PV046



Sauer Series

Name: Charge pump
Model number PV20-24



Eaton Series

Name: Charge pump
Model number 4623/5423/6423



Sauer Series

Name: Charge pump
Model number H1P045/078/100



PMP Series

Name: Charge pump (Square)
Model number PMP110/90 SQUARE



PMP Series

Name: Charge pump (Round)
Model number PMP110/90 ROUND



Messori Series

Name: Charge pump (Round)
Model number MESSORI 090

Control valve series



Rexroth series

Name : Electronic control valve (EP)
Model number A4VG-28-71-EP



Rexroth series

Name : Manual control valve (HD)
Model number A4VG28-90



Rexroth series

Name : Hydraulic control valve (HD)
Model number A4VG90-250HD VALVE



Sauer Series

Name : Manual control valve
Model number
PV20-24MANUAL VALVE



Eaton Series

Name : Manual control valve
Model number 4623-5423-6423
MANUAL VALVE



Sauer Series

Name : Manual control valve
Model number
90R55/75/100MANUAL VALVE



Rexroth series

Name : DR valve
Model number
A10VS028-140DR



Rexroth series

Name : LRDU2 valve
Model number
A11VLO190-260



Rexroth series

Name : LRDS valve
Model number
A11VLO190/260LRDS VALVE

Piston Pump spare parts series



A4VG 28/40/56/71/90/125/180/250

DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY
CYLINDER BLOCK	1	SMALL BEARING	1
VALVE PLATE	1	BIG BEARING	1
PISTON	9	BUSH	1
RETAINER PLATE	1	INNER GEAR	1
BALL GUIDE	1	OUTER GEAR	1
DRIVE SHAFT	1	CHARGE PUMP PLATE	1
SWASH PLATE	1	CHARGE PUMP	1
SADDLE BEARING	2	BLOCK SPRING	4
BEARING SEAT	2	/	/

Piston Pump spare parts series



A10VSO 10/18/28/45/71/100/140PUMP

DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY
CYLINDER BLOCK	1	COIL SPRING	1
VALVE PLATE	1	PRESS PIN	3
PISTON	9	DFR CONTROL	1
RETAINER PLATE	1	COUNTER PISTON	1
BALL GUIDE	1	COUNTER PISTON GUIDE	1
DRIVE SHAFT	1	CHARGE PUMP PLATE	1
SWASH PLATE	1	CONTROL PISTON	1
YOKE PISTON	2	PISTON GUIDE	1
SADDLE BEARING	2	/	/

Piston Pump spare parts series



A11VO 40/60/75/130/145/190/260

DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY
CYLINDER BLOCK	1	SWASH PLATE	1
VALVE PLATE	1	BEARING SET	2
PISTON	9	RETAINER	2
RETAINER PLATE	1	SPOOL	1
BALL GUIDE	1	PIN	2
DRIVE SHAFT	1	BIG BEARING	1
THRUST PLATE	1	SMALL BEARING	1
BLOCK SPRING	1	/	/

Piston Pump spare parts series



A6VM 28/55/80/107/140/160/200

DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY
CYLINDER BLOCK	1	SET PLATE	1
VALVE PLATE	1	MAIN SHAFT	1
PISTON	7	CENTER PIN	1
RING OF PISTON	14	/	/

Piston Pump spare parts series



A7VO 28/55/80/107/160/200/250

DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY
CYLINDER BLOCK	1	MAIN SHAFT	1
VALVE PLATE	1	DRIVE SHAFT	1
PISTON WITH RING	7	CENTER PIN	1
RING OF PISTON	14	HEAD BLOCK	1
RETAINER PLATE	1	DISC SPRING	4

Piston Pump spare parts series



PV20/21/22/23/24/25/26

DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY
CYLINDER BLOCK	1	STATIC SEAL	1
VALVE PLATE	1	SOCKET PIN	1
PISTON	9	BLOCK SPRING	6
RETAINER PLATE	1	CHARGE PUMP	1
THRUST PLATE	1	VALVE ASSY	1
BEARING PLATE	1	CONTROL PLATE	1
DRIVE SHAFT	1	SWASH PLATE	1
SEAL COPPER	1	WASH PLATE	1

Piston Pump spare parts series



A8VO 55/80/107/160/200/250

DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY
CYLINDER BLOCK	2	MAIN SHAFT	2
VALVE PLATE	2	CENTER PIN	2
PISTON	14	SOCKET BOLT	28
RING OF PISTON	28	/	/

Piston Pump spare parts series



PV90R 42/55/75/100/130/180/250

DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY
CYLINDER BLOCK	1	DRIVE SHAFT	1
VALVE PLATE	1	SADDLE BEARING	2
PISTON	9	BEARING SEAT	2
RETAINER PLATE	1	THRUST PLATE	1
SWASH PLATE	1	/	/

Piston Pump spare parts series



3321/4623/5423/6423

DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY
CYLINDER BLOCK	1	DRIVE SHAFT	1
VALVE PLATE	1	SOCKET BOLT	4
PISTON SHOE	9	DYNAMIC SEAL	1
RETAINER PLATE	1	SEAL SHAFI	1
THRUST PLATE	1	/	/
BEARING PLATE	1	/	/

Piston Pump spare parts series



PMP 90/110

DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY
CYLINDER BLOCK	1	BEARING PLATE	1
VALVE PLATE	1	BALL GUIDE	1
PISTON	9	DRIVE SHAFT	1
RETAINER PLATE	1	THRUST PLATE	1

Piston Pump spare parts series



ARK089/90/120/ARK90/MFO90

DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY
CYLINDER BLOCK	1	VALVE PLATE	1
PISTON	9	THRUST PLATE	1
RETAINER PLATE	1	BEARING PLATE	1
BALL GUIDE	1	/	/

Piston Pump spare parts series



SBS80/120/140(CAT312C/320C)

DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY
CYLINDER BLOCK	1	TILTING PIN	1
VALVE PLATE	1	DRIVE SHAFT(L)	1
PISTON	9	DRIVE SHAFT(R)	1
RETAINER PLATE	1	BLOCK SPRING	9
BALL GUIDE	1	SWASH PLATE	1
SHOE PLATE	1	SLIDING BEARING OF SUPPORT	2

Piston pump motor reducer series



A2FM Series



A4VG Series



A11V Series



A7VO Series



A2FO Series



HAVE Series



A10VO Series



90R Series



A4VTG71/90

Piston pump motor reducer series



PMP90/110



EATON



PV20-24



PMP6.0



PMP6.5



PMP7.1



PMP7.8



PMP8.0



PLM-7/9

Piston pump motor reducer series



ZF3301



ZF5300



ZF7300



Bonfiglioli577



Bonfiglioli580



61.2



75R



75S



P68