



Rexroth A6VM Series Variable Displacement Hydraulic Piston Motor A6VM28 A6VM55 A6VM80 A6VM107 A6VM140 A6VM160 A6VM200 A6VM250

Our Product Introduction

Basic Information

- Place of Origin: Guangdong, China
- Brand Name: HALCYON
- Model Number: A6VM80 A6VM107 A6VM55 A6VM160 A6VM200
- Minimum Order Quantity: 2 pieces
- Price: Negotiable
- Packaging Details: Wooden Box + Pallet
- Delivery Time: In Stock: 1-3 day(s); Out of Stock: Customization time depend on specific circumstances
- Payment Terms: L/C, D/A, D/P, T/T, Western Union, MoneyGram
- Supply Ability: 900 pieces per month



Product Specification

- Condition: New
- Application: Machinery
- Video Outgoing-inspection: Provided
- Machinery Test Report: Provided
- Warranty: 1 Year
- After Warranty: Online Support, Video Technical Support
- Color: Customer's Requirement
- Customized: Available
- OEM: Available
- Highlight: Rexroth A6VM hydraulic piston motor, variable displacement hydraulic motor, A6VM series hydraulic motor



More Images



Product Description

Rexroth A6VM Series Variable Displacement Hydraulic Piston Motors

A6VM Series High Performance Hydraulic Motors including A6VM28, A6VM55, A6VM80, A6VM107, A6VM140, A6VM160, A6VM200, and A6VM250 models engineered for demanding applications in drilling rigs, cranes, and mining machinery. Built for exceptional durability and heavy-duty performance.

**HALCYON**

Product Description

A6VM160 Inclined Shaft Plunger Motor Features

- Hydrostatic transmission for open and closed circuits
- Stepless displacement adjustment from $V_g \text{ max}$ to $V_g \text{ min} = 0$
- Unique design providing high speed with improved resistance
- Multiple control options: manual, explosion-proof proportional electronic control
- Compact bearing system for durability and long service life
- Excellent opening and closing characteristics





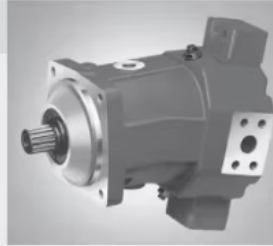
Axial Piston Variable Motor A6VM

RE 91604/06.12
Replaces: 07.09

1/80

Data sheet

Series 63
Size Nominal pressure
28 to 200 400 bar/450 bar
250 to 1000 350 bar/400 bar
Open and closed circuits



Contents

Ordering code for standard program	2	- Variable motor with axial tapered piston rotary group of bent-axis design, for hydrostatic drives in open and closed circuits
Technical data	5	- For use in mobile and stationary applications
HD - Proportional control hydraulic	10	- The wide control range enables the variable motor to satisfy the requirement for high speed and high torque.
EP - Proportional control electric	14	- The displacement can be infinitely changed from $V_{g \max}$ to $V_{g \min} = 0$.
HZ - Two-point control hydraulic	18	- The output speed is dependent on the flow of the pump and the displacement of the motor.
EZ - Two-point control electric	19	- The output torque increases with the pressure differential between the high-pressure and low-pressure side and with increasing displacement.
HA - Automatic control high-pressure related	21	- Wide control range with hydrostatic transmissions
DA - Automatic control speed-related	27	- Wide selection of control devices
Electric travel direction valve (for DA, HA/R)	29	- Cost savings through elimination of gear shifts and possibility of using smaller pumps
Dimensions 28 to 1000	30	- Compact, robust motor with long service life
Connector for solenoids	70	- High power density
Flushing and boost pressure valve	71	- Good starting characteristics
Counterbalance valve BVD and BVE	73	- Small swing torque
Swivel angle indicator	77	
Speed sensors	78	
Installation instructions	79	
General instructions	80	

Technical data

Table of values (theoretical values, without efficiency and tolerances; values rounded)

Size	NG	28	55	80	107	140	160	200	250	355	500	1000
Displacement geometric ¹⁾ , per revolution	$V_{g \max}$ cm ³	28.1	54.8	80	107	140	160	200	250	355	500	1000
	$V_{g \min}$ cm ³	0	0	0	0	0	0	0	0	0	0	0
	$V_{g x}$ cm ³	18	35	51	68	88	61	76	188	270	377	762
Speed maximum ²⁾ (while adhering to the maximum permissible input flow)												
at $V_{g \max}$	n_{nom} rpm	5550	4450	3900	3550	3250	3100	2900	2700	2240	2000	1600
at $V_g < V_{g x}$ (see diagram below)	n_{max} rpm	8750	7000	6150	5600	5150	4900	4600	3600	2950	2650	1600
at $V_{g 0}$	n_{max} rpm	10450	8350	7350	6300	5750	5500	5100	3600	2950	2650	1600
Input flow ³⁾												
at n_{nom} and $V_{g \max}$	$q_{V \max}$ L/min	156	244	312	380	455	496	580	675	795	1000	1600
Torque ⁴⁾												
at $V_{g \max}$ and $\Delta p = 400$ bar	T Nm	179	349	509	681	891	1019	1273	-	-	-	-
at $V_{g \max}$ and $\Delta p = 350$ bar	T Nm	157	305	446	596	778	891	1114	1391	1978	2785	5571
Rotary stiffness												
$V_{g \max}$ to $V_g/2$	C_{min} KNm/rad	6	10	16	21	34	35	44	60	75	115	281
$V_g/2$ to 0 (interpolated)	C_{max} KNm/rad	18	32	48	65	93	105	130	181	262	391	820
Moment of inertia for rotary group	J_{GR} kgm ²	0.0014	0.0042	0.008	0.0127	0.0207	0.0253	0.0353	0.061	0.102	0.178	0.55
Maximum angular acceleration	α rad/s ²	47000	31500	24000	19000	11000	11000	11000	10000	8300	5500	4000
Case volume	V L	0.5	0.75	1.2	1.5	1.8	2.4	2.7	3.0	5.0	7.0	16.0
Mass (approx.)	m kg	16	26	34	47	60	64	80	100	170	210	430

1) The minimum and maximum displacement are infinitely adjustable, see ordering code, page 3.
(standard setting for sizes 250 to 1000 if not specified in the order: $V_{g \min} = 0.2 \cdot V_{g \max}$, $V_{g \max} = V_{g \max}$).

2) The values are valid:
- for the optimum viscosity range from $\nu_{opt} = 36$ to 16 mm²/s
- with hydraulic fluid based on mineral oils

3) Restriction of input flow with counterbalance valve, see page 74

4) Torque without radial force, with radial force see page 9

Comprehensive Replacement Solutions

We provide perfect interchangeable replacements for world-renowned hydraulic brands including Rexroth, Eaton, Parker, Kawasaki, Tokimec, Sauer-Danfoss, Komatsu and more.

Available Models

Brand Name	Model Numbers
Rexroth	A10VSO10/18/28/45/60/63/71/85/100/140, A2F12/23/28/55/80/107/160/200/225/250/350/500/1000, A4VSO40/45/50/56/71/125/180/250/355/500/750/1000, A7VO28/55/80/107/160/200/250/355/500, A6VM28/55/80/107/140/160/200/250/355/500/1000, A7V12/28/55/80/107/160/200/225/250/355/500, A11V40/60/75/95/130/145/160/190/200/210/260, A10VG18/28/45/63, A4VG28/40/56/71/90/125/180/250, A15VSO175/210/280, AP2D25/36
KAWASAKI	K3V63/112/140/180/280DT, K3SP36/K7SP36/K7V63, K5V80/140/160/180/200, M2X22/45/55/63/96/120/128/146/150/170/210 SWING, M5X130/180 SWING, GM18/35VL/35VA
KOMATSU	HPV 90/95/132/140/165, PC30/40/45/60-3/5, PC60-7 PC200-3/5 PC220-6/7 PC200-6/7 PC300-6/7 PC360-7 PC400-7, PC200-6/7/8, PC360-7, SBS80/120/140 CAT312C/320C/325C
CAT	CAT320 (AP-12), CAT12G/14G/16G/120G/140G, SPK10/10(E200B) SPV10/10(MS180)
EATON	EATON 3331/4621(4631)/5421 (5431)/6423/7620(7621), PVE19/21 TA19, PVH45/57/74/98/131/141
TOSHIBA	PVB92, SG02/04/08/12/15/17/20/25 SWING
NABTESCO TRAVEL	GM03/05/06/07/08/09/10/17/18/20/23, GM03/05/06/07/08/09/10/17/18/20/23/24/28/35/38VL, GM35VA
YUKEN	A10/16/22/37/40/45/56/70/90/100/125/145/220
PAKER	PV16/20/23/28/32/40/46/63/80/92/140/180/270
HITACHI	HPV091/102/116/118/145
SAUER	PV90R30/42/55/75/100/130/180/250, PV20/21/22/23/24/25/26/27, MPV025/035/044/046 MPT025/035/044/046

Can't find what you need? Contact us for assistance with specific model requirements.



FACTORY

GUANGZHOU HALCYON-HYDRAULIC CO. LTD



ABOUT US

Guangzhou Halcyon-Hydraulic Co. Ltd was founded in 2010 and is located in Guangzhou National High-tech Development Zone. Our main business is to develop and manufacture high pressure piston pumps, motors, spare parts, integrated products of hydraulic system, and equipments repairing and remanufacturing. The company has passed ISO9001 quality certification, and has been awarded as "Contract and Trust worthy Enterprise" and "Guangdong High-tech Enterprise".



GUANGZHOU HALCYON

GLANCE AT THE WORKSHOP



Material

Machining

Inspecting



Assembling

Testing

shipping

OUR ADVANTAGES

- **Expertise in R&D and Design:** Over 20 years of experience in the research, development, and design of high-pressure piston pumps and motors.
- **Manufacturing Excellence:** More than 13 years in factory manufacturing, contributing to high standards and quality production.
- **Standard Development:** Active participation in the development of the Chinese national standard for hydraulic pumps.
- **Patent Portfolio:** Possession of 19 utility model patents and 5 invention patents, showcasing our innovative capabilities.
- **Cost-Effective Production:** Our real factory setup ensures cost-effective production and competitive pricing for high-quality products.
- **Customization and ODM Services:** Strong capabilities in offering customized services and excellent Original Design Manufacturing (ODM) to meet various client needs.
- **Industry Collaboration:** Extensive experience in manufacturing specialized hydraulic pumps and motors for major machinery manufacturers like XCMG

CERTIFICATE





STANDARD PACKING WAY

Wooden Box



Warehouse For Shipping



HALCYON

Exhibition & Clients



Frequently Asked Questions

Why choose us?

With over 20 years of hydraulic parts design experience and 14 years of manufacturing expertise, we specialize in producing high-quality piston pumps and motors. As a reputable factory supplier, we utilize modern production machinery, advanced testing equipment, and maintain a strict quality management system. We welcome ODM/OEM inquiries for demanding quality requirements.

Can I customize the product?

Absolutely. Customization services based on your drawings or specifications are our primary advantage. We have extensive technical expertise and mature production processes in the hydraulic industry to meet your specific requirements.

Can I have free samples?

Typically not, but we're willing to negotiate based on different products and order volumes.

What's the delivery time?

Delivery ranges from 10-60 days after payment, depending on the specific products and order requirements.

How to order?

Our ordering process: Inquiry -> Quotation -> Negotiation -> Samples -> PO/PI -> Down Payment -> Mass Production -> Quality Inspection -> Space Booking -> Balance Payment/Delivery -> Ongoing Support.



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