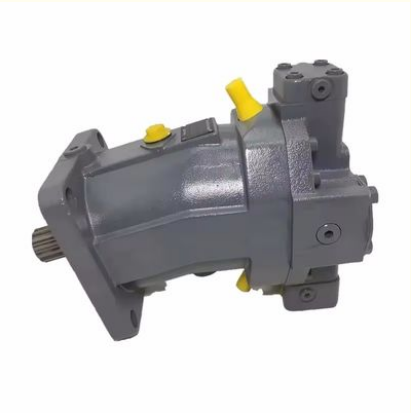
Rexroth Hydraulic A6VM Motor A6VM80 A6VM107 A6VM250 A6VM160 A6VM200 Piston Motor

Our Product Introduction

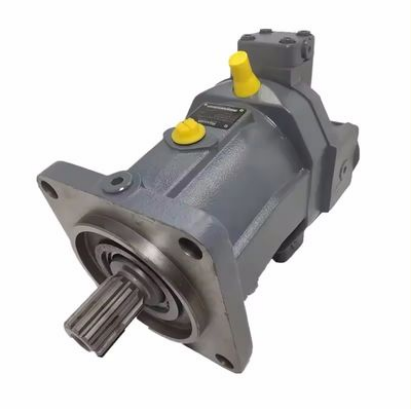
Basic Information

- Place of Origin: Guangdong, China
- Brand Name: HALCYON
- Model Number: A6VM80 A6VM107 A6VM250 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 Repair Shops, Manufacturing Plant, Construction Works , Energy & Mining, Other
- Video Outgoing-inspection: Provided
- Machinery Test Report: Provided
- Warranty: 1 Year
- After Warranty: Online Support,Video Technical Support
- Color: Customers' Request
- Customized: Available
- OEM: Avaliable
- Highlight: **A6VM250 piston motor**, **a6vm80 bent axis motor** , **hydraulic a6vm motor**



More Images

Our Product Introduction

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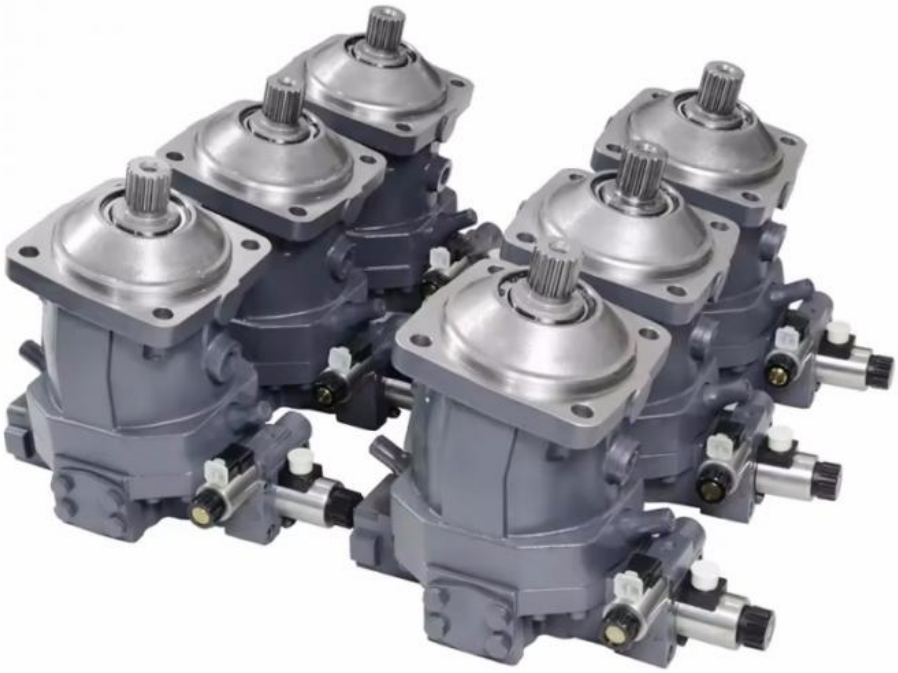
Product Description

HALCYON

Product Description



Axial Piston Variable Motor
A6VM

RE 91604/06.12 1/80
Replaces: 07.09

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

- Variable motor with axial tapered piston rotary group of bent-axis design, for hydrostatic drives in open and closed circuits
- For use in mobile and stationary applications
- The wide control range enables the variable motor to satisfy the requirement for high speed and high torque.
- The displacement can be infinitely changed from $V_{g\,max}$ to $V_{g\,min} = 0$.
- The output speed is dependent on the flow of the pump and the displacement of the motor.
- The output torque increases with the pressure differential between the high-pressure and low-pressure side and with increasing displacement.
- Wide control range with hydrostatic transmissions
- Wide selection of control devices
- Cost savings through elimination of gear shifts and possibility of using smaller pumps
- Compact, robust motor with long service life
- High power density
- Good starting characteristics
- Small swing torque

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	$V_{g\,max}$	cm³	28.1	54.8	80	107	140	160	200	250	355	500	1000
	$V_{g\,min}$	cm³	0	0	0	0	0	0	0	0	0	0	0
	$V_{g\,x}$	cm³	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}	kgm²	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/s²	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

Brand Name	Model Number (If you can't find what you want, please contact us for help)
Rexroth	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

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 IS09001 quality certification, and has been awarded as "Contract and Trust worthy Enterprise" and "Guangdong High-tech Enterprise".

HALCYON GUANGZHOU HALCYON

GLANCE AT THE WORKSHOP

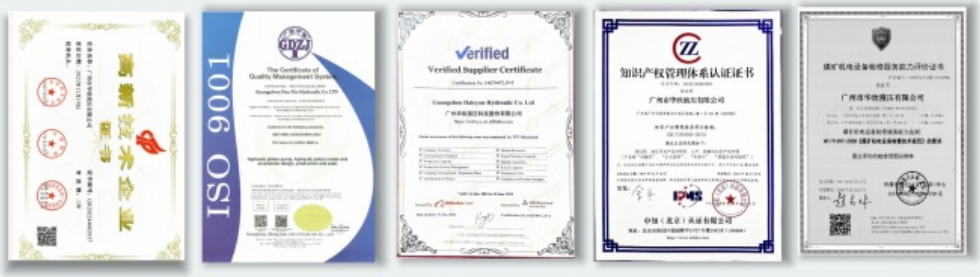
Material → Machining → Inspecting

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

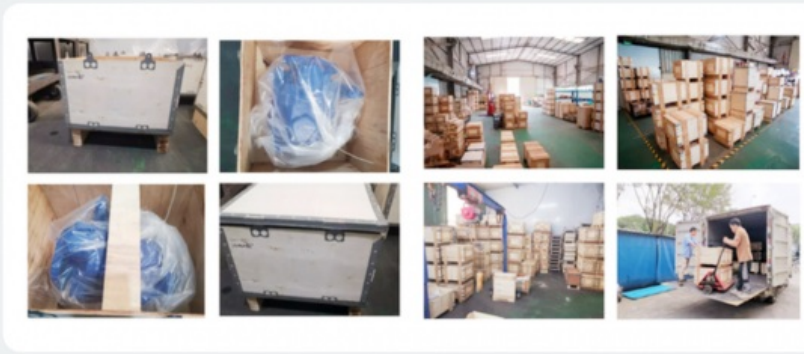
CERTIFICATE



STANDARD PACKING WAY

Wooden Box

Warehouse
For Shipping



HALCYON Exhibition & Clients

HALCYON FAQ

Q1. Why choose us?
A. More than 20 years of experience in hydraulic parts design and 14 years of experience in manufacturing branded quality of piston pumps and motors. As a reputed factory supplier, We have many modern production machines and testing equipment,
as well as a strict and renowned quality management system. Welcome ODM/OEM inquiry with high quality demand.
Q2. Can I customize the product?
A. Abosolutely. Actually customizing service according to drawing or request, is the most advantage and big difference between HALCYON and common suppliers. We have excellent technical precipitation and mature production process in hydraulic industry.
Q3. Can I have free samples?
A. Usually no, but negotiable according to different products and orders.
Q4. What's the delivery time?
A. 10-60 days after payment,according to different products and orders.
Q5.How to order?
A. Inquiry → Quotation → Negotiation → Samples → PO/PI →Down payment→ Mass production

→Quality inspection→ Book Space →Balance/Delivery → Further.

Guangzhou Halcyon hydrauli co .,ltd/Guangzhou Huaxin Hydraulic Co., Ltd.

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