

Fixed Displacement Motor for Open and Closed Circuits

Model AA6VM

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Axial tapered piston, bent axis design

Sizes 55 to 160, Series 6

Nominal pressure up to 5800 PSI

Maximum pressure up to 6500 PSI

Variable displacement motor with axial piston rotary group of bent axis design, for hydrostatic drives in open and closed circuits.

The motor is suitable for both mobile and industrial applications.

The wide control range of the variable displacement motor allows it to meet the requirements of high speed and high torque.

The displacement is infinitely variable in the range $V_{g \max}$ to $V_{g \min} = 0$.

Output speed is proportional to flow and inversely proportional to displacement. The output torque increases with the pressure drop between the high and low pressure sides and with increasing displacement.



- Wide control range for hydrostatic drives
- Various control and regulating devices
- Cost saving through elimination of gearbox and possibility of using smaller pumps
- Compact, robust bearing system with long service life
- Low unit power
- Good starting characteristics
- Low inertia
- Wide swivel range

Ordering Code

AA6V	M		/	63	W	-	V	S	520
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Axial piston unit

Bent axis design, SAE = AA6V

Mode of operation

Motor = M

Size 55 80 107 160

Displ. in^3/rev 3.34 4.88 6.53 9.76

$V_{g \max}$ cm^3/rev (54.8) (80) (107) (160)

Control device 55 80 107 160

Hydraulic control, pilot pressure related HD 1 - • - - = HD1

Hyd. 2-position ctrl. HZ3 • - • - = HZ3

Elec. 2-position ctrl., w/switching solenoid EZ 3 - • - - = EZ2

control voltage 12 V - - - - = EZ3

Automatic control high pressure related HA 1 • - • • = HA1

Model w/o pres. increase

Series/index

= 63

Direction of rotation

Viewed on shaft end - bidirectional

= W

Seals FPM (fluor-caoutchouc)

= V

Shaft end SAE splined shaft

= S

Mounting flange

55 80 107 160

SAE 2-bolt

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= C

SAE 4-bolt

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= D

Service ports

Ports A and B, SAE at side (UN threads) (opposite side)

= 520

Start of control

at $V_{g \min}$ (standard for HA)

= A

at $V_{g \max}$ (standard for HD, HZ, EP, EZ, DA)

= B

- = not available • = available