

403 series

Variable displacement axial piston bent-axis hydraulic motors



Purpose:

Hydraulic motors convert the working fluid energy into the shaft rotation mechanical energy. Hydraulic motors are intended for operation in stationary and mobile installations.



Working displacement: 55, 107, 160 ccm/rev





Technical characteristics:

Size		55	107	160
Working displacement - max V _{g max} - min V _{g min}	ccm	55 0	107 0	160 0
Max rotation speed n _{max} at: - V _{g max} - V _{g min}	rpm	4450 7000	3550 5600	3100 4900
Consumed flow rate (at n _{max}), Q _{max}	I/min	275	428	522
Power, N at $V_{g max}$ and Δp =450 bar at $V_{g max}$ and Δp =400 bar at $V_{g max}$ and Δp =350 bar at $V_{g max}$ and Δp =250 bar	kW	184 164 143 102	286 255 223 159	
Torque, T at $V_{g max}$ and Δp =450 bar at $V_{g max}$ and Δp =400 bar at $V_{g max}$ and Δp =350 bar at $V_{g max}$ and Δp =250 bar	Nm	351 312 273 195	684 608 532 380	
Weight, m	kg	24	40	



Special features:

- variable displacement axial pistoon bent-axis hydraulic motors
- reinforced bearing unit
- bimetal steel cylinder block
- increased lifetime at high pressure operation conditions

Types of regulators:

- proportional
- constant pressure regulator
- pressure regulator on hyperbole
- functioning only from outer force

Types of control:

- hydraulic direct
- hydraulic proportional
- mechanical
- electrical discrete
- electrical proportional

Analogues:

A6V, A6VM, A6VE (Bosch Rexroth)

51D (Sauer Danfoss)

V14 (Parker Hannifin)

H2V (Sam Hydraulics)