

SERVICE MANUAL



MRH-45

LOW SPEED HIGH TORQUE
HYDRAULIC MOTOR
HYDROSTAR

INSTALLATION

MOUNTING

The coupling used on the motor shaft should have a Brinell Hardness rating of 200 or more. Spline couplings are available from your distributor of HYDROSTAR motors.

Coupling (female) specifications:

Involute spline SAEJ498b

Taper shaft 1/10 Taper $\pm$.42 seconds

Recommended tightening torque:

Nut of taper shaft coupling (1-1/2"-6 UNC) = 345 Ft. Lbs.

Mounting bolts (5/8" Grade 5) = 150 Ft. Lbs.

Shaft end bolts of S-type spline (3/8"-24 UNF) = 40 Ft. Lbs.

Shaft end bolts of E-type spline shaft
(1/2"-20 UNF) = 80 Ft. Lbs.

The eccentricity of the shaft and the coupling should be within 0.002" TIR when the shaft is directly connected to the driven shaft.

When assembling the coupling to the motor do not use force. If difficulty is encountered, check the motor's shaft and coupling for burrs or nicks. File smooth the interference. If this doesn't solve the problem, check for size; correctly mated parts will assemble without any pressure. The pilot diameter of the mounting bracket is 8.861/8.878 in normal use. For applications where shocks or frequent reversal operation is anticipated, the clearance of the motor pilot diameter and the mounting bracket should be within 0.003" TIR. Maintain lubrication between shaft and coupling.

PIPING

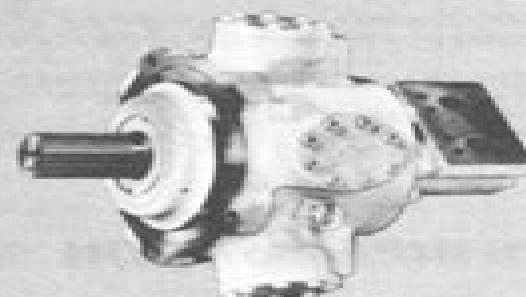
All parts inside the motor are oil lubricated, therefore it is necessary to fill the motor crank case through the highest drain port with clean oil before operating motor. Return lines from the drain ports should be piped directly back to the tank without any restrictions. CAUTION: When motor operates with shaft up, an air bleed should be installed through the adjustment plate to insure lubrication of the front bearing. Consult KYB for information. The typical ways for piping lines are:



Shaft down

Shaft up

Side ways



SPECIFICATIONS

Displacement volume	45.5 IN ³ /REV
Maximum continuous pressure	3570 PSI
Intermittent peak pressure	4000 PSI
Maximum continuous back pressure	350 PSI
Maximum intermittent back pressure	1000 PSI
Maximum continuous output torque	2040 FT.-LBS.
Starting torque at 3570 PSI	1720 FT.-LBS.
Maximum continuous speed	400 RPM
Maximum continuous power	120 HP
Moment of inertia (GD ²)	325 LB.-IN ²
Maximum fluid temperature	175°F
Dry weight	275 LBS.

Internal crank case drain pressure should not exceed 15 psi.

Use 1/2" drain pipe for this model and should not exceed 30 feet.

The oil level of the reservoir should not exceed 15 feet over the motor if the reservoir is located above. If the motor is located above the reservoir, piping should be looped higher than the motor crank case.

BACK PRESSURE

The motor should be operating under sufficient back pressure, though the HYDROSTAR motor can withstand limited vacuum pressure. This consideration insures smooth and safe operation and protects the whole hydraulic system from noise and vibration breakage. The required minimum back pressure is a half of idling pressure plus case pressure. (Refer to MRH-45 individual catalog in detail.) In any condition, the back pressure should not exceed 1000 psi intermittently or 350 psi continuously.

FILTRATION

In most applications 100 mesh strainer and 25 micron filter is acceptable for HYDROSTAR motors. But it is advisable to determine the filtration required by the pump manufacturer because pumps are more critical against the contamination rather than motors.

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