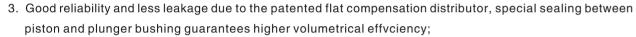
NHM Series Hydraulic Motor

Product Feature:

NHM series of low–speed and high–torque hydraulic motors with crankshaft and connecting rod are produced according to the technology and standard provided by Italy. On such a foundation, we also have constant technological improvement according to market demand, so as to improve the performance of the products.

The main features include:

- Low noise due to an eccentric crankshaft and low excitation frequency of five-piston design;
- 2. Revolve steadily under very low speed due to high starting torque and good low–speed stability;



- 4. High mechanical efficency due to roller bearing between crankshaft and connecting rod;
- 5. Reversible rotation, and the output shaft can bear certain external force from both radial and axial directions;
- 6. High power-mass ratio, small volume and light weight

Calculation:

1. Actual output torque : M=0.159 (P₁-P₂) $V \bullet \eta_m$ (N.m)

where : P
$$_1$$
, P $_2$ ----- (MPa) inlet and outlet pressure (MPa)
$$V$$
----- displacement (ml/r)
$$\eta_m$$
-----mechanical efficiency (%)

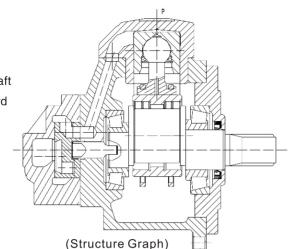
2. Output power: $N = \frac{M \cdot n}{9550}$ (kW) $N = \frac{q (P_1 - P_2)}{60000} \eta_m \eta_v (kW)$

where : n------ speed (r/min) q------ input flow (ml/min)
$$\eta_{\,\,\text{v}} ------ \text{volumetrical efficiency } (\%)$$

3. Speed : $n = \frac{q}{V} \eta_v(r/min)$

Note:

- 1.Filtration: the recommended filtration precision for normal industrial use is 25 μ m, and allowable precision low pressure, low speed or intervall is 75 μ m.
- 2. Oil viscosity: the optimum performance could only be obtained under proper oil viscosity between 15–1000cst.
- 3. Before the first start-up, it must fill hydraulic oil in the hydraulic motor body, to avoid the damage.
- 4. Leakage: drain port should be connected separately to the tank. Normally the maximum pressure for the motor body is 0.1 Mpa, and it could also be improved to bear 3–5 Mpa, to meet special requirements.
- 5. The top line of the drain pipe should be higher than that of the motor body, in case empting oil storage.
- 6. Installation: motor can be installed in any position with rigid support, When installed, shafts of the motor and its transmission should be concentric.
- 7. Cleanness: Strictly maintain the cleanness of the oil port, and keep any solid particles away.
- 8. Release both the radial and axial loads of the output shaft to enable longer life of the motor.
- 9. NHM motor could not work as a pump.



Order Code NHM — — — — Omit-mounting hole position, same as illustrated "Left deviation" indicates that one mounting hole is right below it when there is no flange. (I.e.: two corners face downward when installing the motor.) "Right deviation" indicates that one mounting hole is right above it when there is no flange. (I.e.: two corners face upward when installing the motor.) Distributor(Please see the mounting graph of all series of motors). If you have special requirements, please see Page 25-35 and state it in your orders. Output shaft 1.0mit Letter indicates standard rectangle splined shaft (the center is up to exterior diameter) 2, B-Parallel key shaft; footnote number means the installation dimension is the same as BM motors series model (with flange) 3.D - installation dimension is the same as 1JMD series motors of the same displacement (KunSan HYD element plant) 4. I-inside spline (the center is up to interior diameter); footnote number means the installation dimension is the same as QJM series of motors produced by Ningbo Hydraulic Motor Factory (with flange). 5. GM.SI represent the installation dimension is same as M series. L series. GM series of ITALY SAI company, footnote number means different kinds of installation dimension. Nominal Displacement (ml/r) Series

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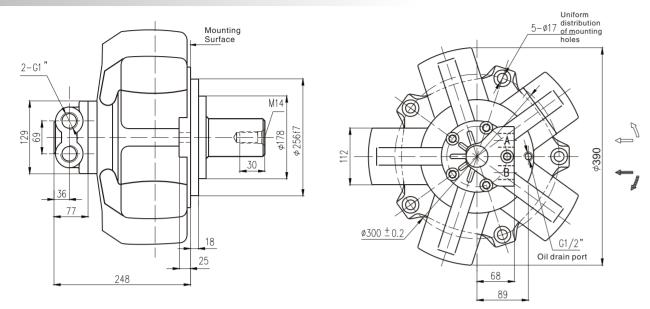
SKYPE: kemercathy

Intermot crankshaft and connecting rod low-speed high-torque hydraulic motor

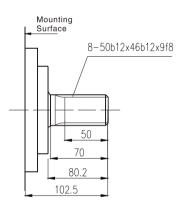
[&]quot;Left deviation" and "Right deviation" are only applicable for NHM2-NHM11 series of motors, and oil inlet and outlet are horizontal. (Same as illustrated)

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NHM8-600~1000 Mounting Data



Standard outside spline NHM8-**

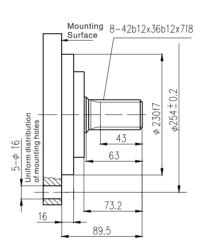


Standard parallel key NHM8-**B

100.2

NHM8-**a2

Mounting Surface



parallel shaft NHM8-**6M

NHM8-**6MB

