

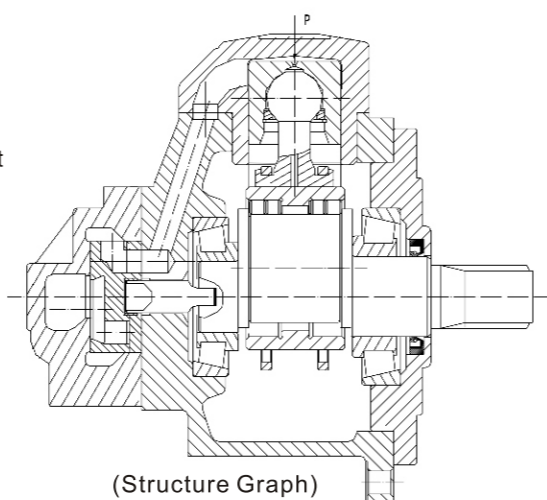
NHM Series Hydraulic Motor

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:

1. 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;
3. Good reliability and less leakage due to the patented flat compensation distributor, special sealing between piston and plunger bushing guarantees higher volumetrical efficiency;
4. High mechanical efficiency 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 : $M=0.159 (P_1-P_2) V \cdot \eta_m$ (N.m)

where : P_1, P_2 ----- (MPa) inlet and outlet pressure (MPa)

V ----- displacement (ml/r)

η_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)

η_v ----- volumetrical efficiency (%)

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

Note:

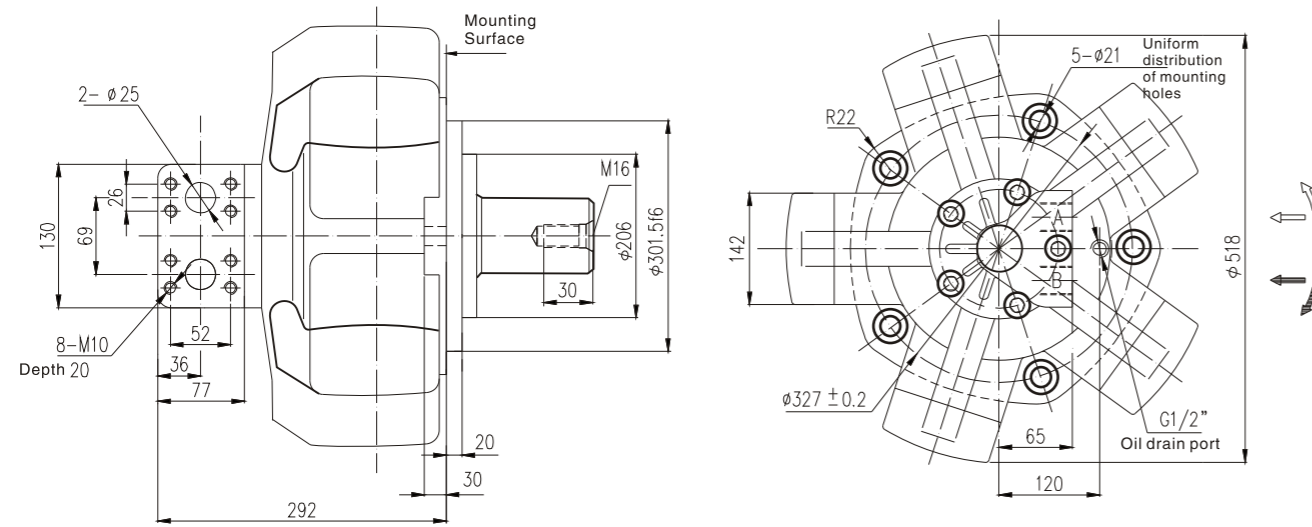
1. Filtration: the recommended filtration precision for normal industrial use is 25 μ m, and allowable precision low pressure, low speed or interval is 75 μ m.
2. Oil viscosity: the optimum performance could only be obtained under proper oil viscosity between 15-100cst.
3. Before the first start-up, 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 emptying 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

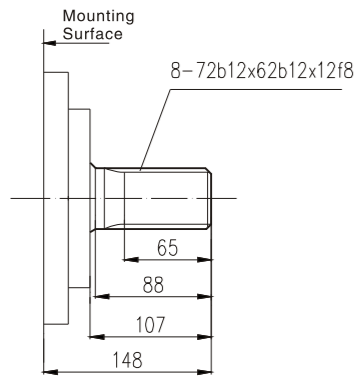


"Left deviation" and "Right deviation" are only applicable for NHM2-NHM11 series of motors, and oil inlet and outlet are horizontal. (Same as illustrated)

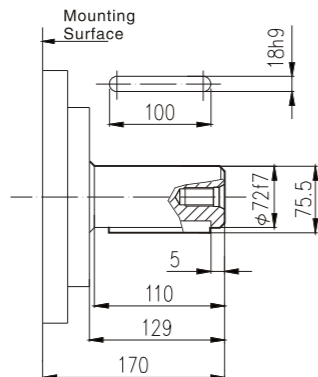
NHM16-1400~2400 Mounting Data



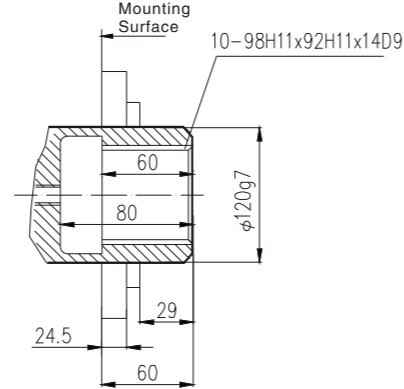
Standard outside spline
NHM16-**



Standard parallel key
NHM16-** B

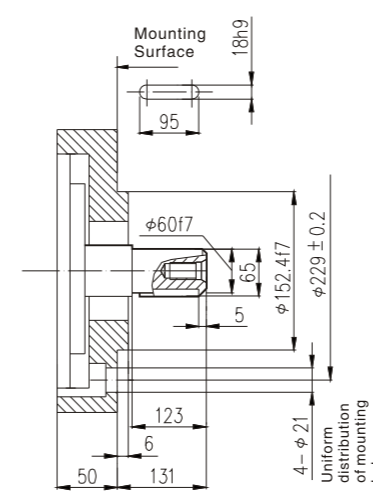


Standard inside spline
NHM16-** I

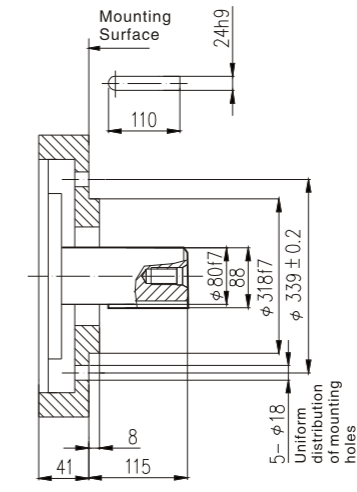


NHM16-1400~2400 Mounting Data

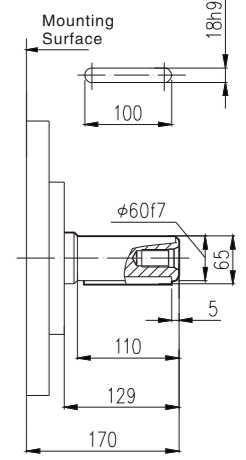
NHM16-** B₆



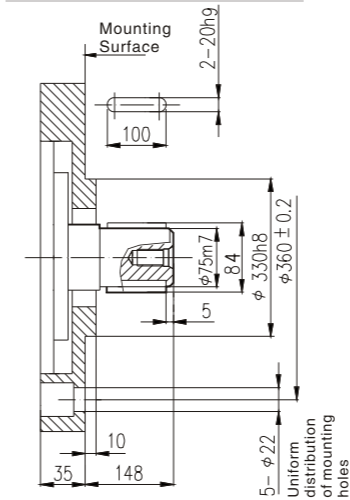
NHM16-** B₁₇



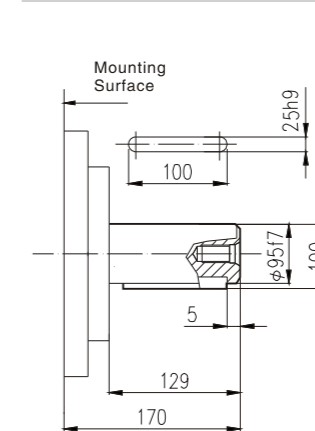
NHM16-** B₁₉



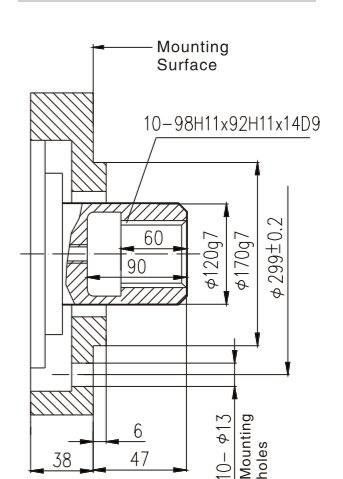
Standard outside spline
NHM16-** D



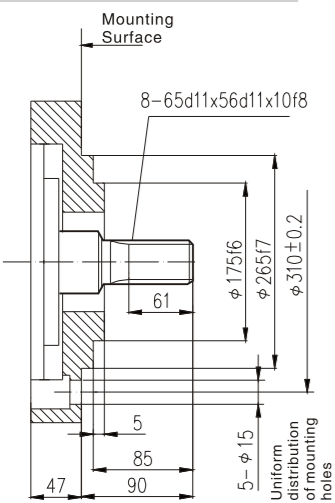
Standard parallel key
NHM16-** B₃₀



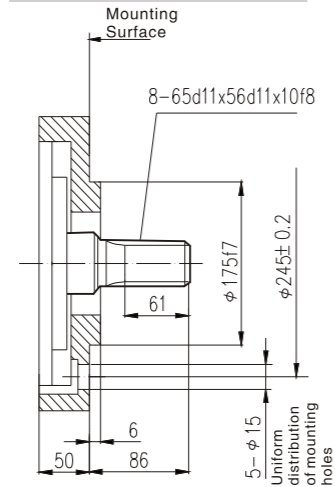
Standard inside spline
NHM16-** I₃₂



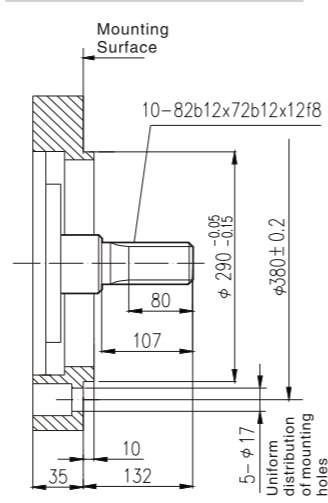
NHM16-** SL₅



NHM16-** SM₄



NHM16-** N



NHM16-** I₄₂

