

P330 gear pump

First, the principle of work of [p330 gear pump](#).

By a pair of meshing gears will be a closed cavity into the inlet chamber (low pressure chamber) and the outlet chamber (high pressure chamber), through the gears of the mesh rotation will continue to the low-pressure chamber oil pressure to the high-pressure chamber, to complete the function of the positive displacement hydraulic pump. In the suction area, the mutual meshing of the gear teeth gradually disengage, sealing the working chamber volume increases, the pressure drops so as to suction; in the pressure area, the gear teeth gradually enter into the mesh, sealing the working chamber volume decreases, the oil is squeezed out, the pressure rises.

Second, structural characteristics

1. Material and type: made of high-strength cast iron, belonging to external gear pump, with high strength, anti-wear characteristics, suitable for harsh working conditions.

2. Bearing and sealing: Equipped with friction-reducing bushing bearings, which can reduce friction and wear and improve the efficiency and service life of the pump. Meanwhile, it adopts advanced pressure balancing thrust plate and special sealing structure, which can effectively prevent oil leakage and ensure the stable performance of the pump.

Third, performance parameters

1. Displacement range: Displacement range is usually 16.1ml/r-64.6ml/r, which can meet different flow requirements.

2. Pressure parameter: Maximum rated pressure is up to 245 bar, intermittent pressure is 275 bar, which can provide high pressure output and is suitable for high pressure system.

3. Speed range: the speed range is generally 400-3000rpm, which can be adjusted according to the actual application scenario.

Fourth, Application Areas

1. Industrial field: Widely used in the hydraulic system of various industrial equipments, such as machine tools, injection molding machines, die-casting machines, etc., to provide power support for the operation of the equipments.

2. Engineering machinery: commonly used in excavators, loaders, bulldozers and other construction machinery, to achieve a variety of mechanical action, such as digging, lifting, bulldozing and so on.

3. Agricultural machinery: it can be used in tractor, harvester and other agricultural machinery to provide power for its hydraulic system to realize the lifting and rotation of agricultural tools.

P330 gear pump specs

Parker p330 gear pump reviews