

Gear pump catalogue

First, single-stage gear pump series

1. CB series

Model: CB-B10, etc.

Features: adopting high-precision gears and high-strength cast iron casing, featuring high volumetric efficiency, high pressure, low noise, strong vibration resistance and long service life.

Application: Widely used in forklift, loader, excavator, crane, road roller and other construction machinery and mining, light industry, sanitation, agricultural machinery and other industries.

Parameter examples (CB-B10 for example):

Nominal Displacement: 10mL/r

Rated Pressure: 16MPa

Maximum Pressure: 20MPa

2. CBK Series

Characteristics: Compact structure, high efficiency, suitable for occasions with high space requirements.

Applications: industrial equipment, small machinery, etc.

3. CBN Series

Model: CBN-E310, etc.

Features: Adopting high-precision gears, high-strength aluminum alloy shell, floating bushings, with simple structure, light weight, high efficiency, low noise, and reliable use.

Applications: hydraulic systems for vehicles and ships, engineering and construction machinery, lifting and transportation machinery, mining machinery, light industrial machinery, agricultural machinery, etc.

Parameter examples (CBN-E310 as an example):

Nominal Displacement: 10mL/r (specific models may vary)

Rated Pressure: 16MPa (some models up to 20MPa)

Maximum Pressure: 20MPa (some models up to 25MPa)

Rated Speed: 2000r/min

Maximum Speed: 3000r/min

Volumetric Efficiency: $\geq 91\%$

4. XH Series

Flow rate range: 1-200mL/r

Pressure range: up to 25MPa

Speed range: 500-4000rpm

Application: suitable for hydraulic systems requiring smaller flow rates and higher pressures.

5. YB Series

Flow range: 10-500mL/r

Pressure range: up to 35MPa

Speed range: 800-3200rpm

Application: for hydraulic systems requiring medium flow and high pressure.

6. HB Series

Flow range: 20-1000mL/r

Pressure range: up to 45MPa

Speed range: 600-2500rpm

Application: for hydraulic systems requiring high flow and high pressure.

Second, Duplex Gear Pumps Series

1. 2CB-FC Series

Characteristics: Combination of two gear pumps, suitable for systems requiring two different flow rates at the same time.

Applications: hydraulic synchronous motors, complex machinery, etc.

2. CBHY-G/F Series

Features: Compact structure and high efficiency, suitable for applications requiring high space and efficiency.

Applications: industrial equipment, construction machinery, etc.

Third, common series classified by displacement

1. 0.5 series small gear pumps

Displacement range: 0.19-2cm³ /rev

Rotation direction: D (clockwise), S (counterclockwise), R (can be forward and reverse)

Minimum rotation speed: 500-1000r/min

Maximum rotation speed: 3000-7000r/min

Peak pressure: 210-250bar

2. 1 series Gear pumps

Displacement range: 0.8-8cm³ /rev

Direction of rotation: D, S

Minimum speed: 600-1000r/min

Maximum speed: 2100-6000r/min

Peak pressure: 200-270bar

If you have any need for [gear pump](#), please feel free to contact us at any time.

Parker hydraulic gear pump catalog

Danfoss hydraulic pump catalog