Gear Pump for Fluid Transfer

This gear pump is designed for efficient fluid transfer in various industrial applications. Its robust construction and gear mechanism ensure reliable pumping performance.

Overview

The 2CY series pump is suitable for non-corrosive lubricating oils and features a compact, durable housing.

Versatile 2CY Series Gear Pump

The 2CY series is a high-performance positive displacement gear pump designed for the efficient transfer of lubricating oils and similar viscous fluids. Engineered for reliability, it serves as a transmission, booster, or fuel pump across various industrial systems, including hydraulic power applications. Its robust construction ensures stable pressure and high volumetric efficiency even under demanding conditions.

Performance Limits

Operating Metrics

2.5 MPa	21 m3/h	300
Max Pressure	Max Flow Rate	Max Temperature

Fluid Specifications

Compatible Fluids

- Lubricating oils
- Non-corrosive liquids
- Fluids without solid particles
- Fluids without fibers
- Fuel oils

Viscosity Range	5 to 1500 mm²/s (up to 50000 mm²/s at reduced speeds)

Technical Features

Detailed internal assembly showing gears, bearings, and shaft seals designed for high-efficiency fluid displacement.

Design Advantages

- Automatic internal lubrication via conveying medium
- Floating sleeves for automatic end clearance adjustment
- Low output flow fluctuation
- High hardness and wear resistance
- Quiet operation with stable performance

Internal Components	Nitrided Gears, Replaceable Shaft Sleeve, Floating Bearing Sleeves, Shaft End Seal, Optional Magnetic Drive
Rotation Direction	Clockwise (viewed from spindle extension)

Applications

Primary Applications

System Type	Function
Oil Transportation	Transmission and Booster Pump
Fuel Systems	Conveying, Pressurizing, and Spraying
Hydraulic Systems	Providing Hydraulic Power
Industrial Fields	Lubricating Oil Circulation