

Two-Stage Centrifugal Oil Pump

This two-stage centrifugal oil pump is designed for transferring petroleum and LPG without solid particles. It is suitable for use in chemical and petrochemical industries.



Product Overview

High-Efficiency AY Series Oil Pump

The AY series two-stage centrifugal oil pump is an advanced redesign of the traditional Y series, specifically engineered for energy conservation and modernization in industrial settings. It is designed to transport petroleum, LPG, and other media without solid particles across a wide temperature range. With an average efficiency improvement of 5-8% over older models, this pump offers a reliable and cost-effective solution for petroleum refining and petrochemical industries.

Performance Limits

Key Performance Metrics

600 m³/h

Max Traffic

330 m

Max Lift

420

Max Temperature

Traffic Range

2.5 ~ 600 m³/h

Lift Range

30 ~ 330 m

Operating Temperature

45 ~ 420

Technical Features



The AY series features a robust construction and efficient hydraulic design for demanding industrial applications.

Design Advantages

- Energy-saving hydraulic model with 5-8% higher efficiency
- Enhanced bearing body reliability (45, 55, and 70 series)
- High degree of part universalization across product series
- Interchangeable installation size with Y-type pumps for easy renovation
- Multiple cooling options: Air, Fan, or Water cooling based on temperature

Materials & Construction



Horizontal axially split case design allows for easy maintenance and high reliability in petrochemical processing.

Material Classifications

Class Code	Material Specification
Class I	HT250
Class II	ZG230-450
Class III	ZGCr13Ni

Bearing Body Materials

Cast Steel, Cast Iron

Applications

Target Industries

Petroleum Refining • Petrochemical • Chemical Industry • Marine • Cold Regions

Transport Media

- Petroleum
- LPG
- Media without solid particles

Model Nomenclature

Model Identifier Guide

Symbol	Description
50/250	Suction inlet diameter (mm)
A	Subrenovation
Y	Centrifugal oil pump
S	Double suction impeller
60/150	Single-stage head (m)
2	Series (Two-stage)
B/C	Impeller cutting number