

# GLC Series Inline Pump

## Is "high efficiency" still a customer concern?

*As energy issues become increasingly prominent, energy saving has become a major consideration in building design and construction.*

GLC Inline Pump uses the most advanced CFD technology to develop hydraulic model, with its efficiency much higher than that specified in the national standard GB/T 13007 after actual measurement, thereby dramatically lowering operating costs.

## Are you still troubled by maintenance issues?

*Traditional pump seals leak easily with easily damaged bearings and oil seals, and require time-consuming and laborious maintenance.*

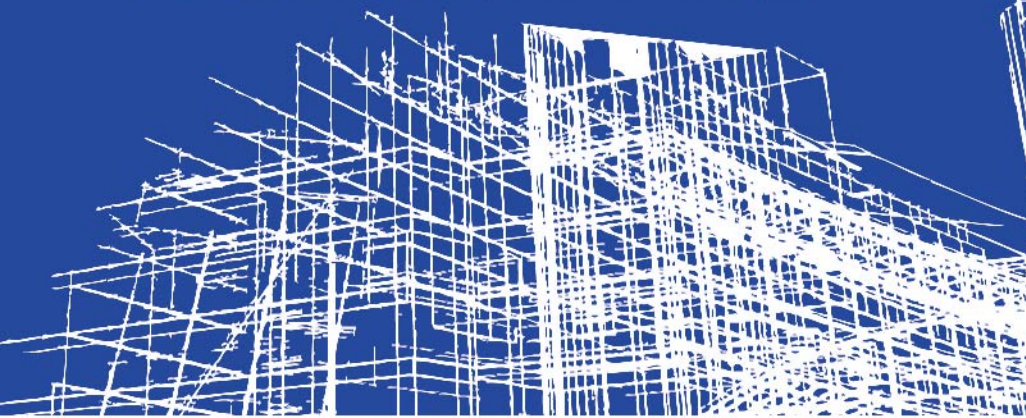
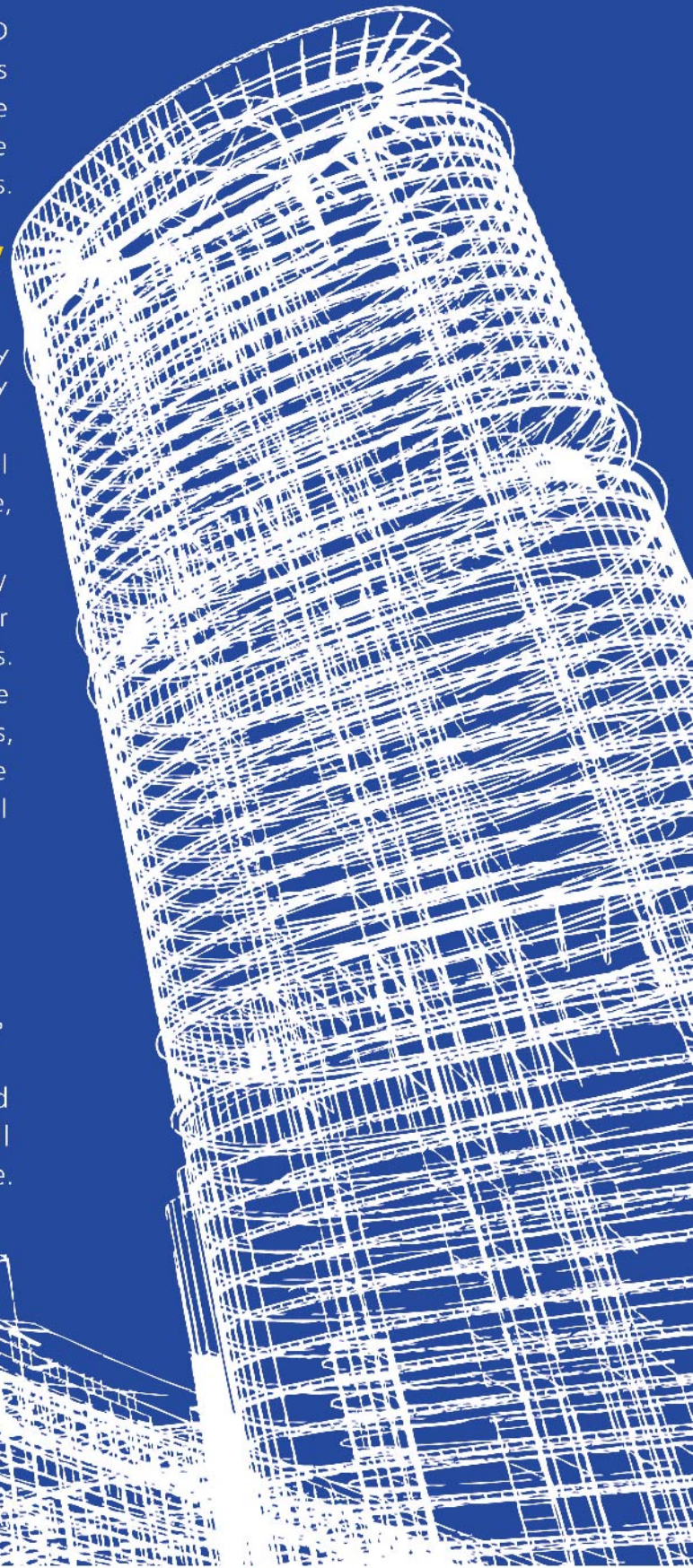
GLC Inline Pump uses cartridge single mechanical seals with simple structure, good sealing performance, long service life and easy maintenance.

GLC Inline Pump is free of bearing parts, thereby reducing the number of bearings, oil seals and other wearing parts and greatly lowering maintenance costs. GLC Inline Pump is easy to maintain without the need for removing the pump case and piping series, greatly reducing the maintenance workload. The product is free of bearing parts and easy to install and remove.

## Challenge — Small installation space

*Limited installation space is a common problem facing the construction of buildings.*

GLC Inline Pump is closed coupled pump and free of bearing, which enables smaller overall dimensions and effectively saves installation space.



# GLC Series Inline Pump

## Scope of Application

HVAC system, hot and cold water circulation, and industrial, agricultural and domestic water supply

## Technical Parameters

Operating conditions for:

GLC 50-160~150-400

Maximum flow rate: 400m<sup>3</sup>/h

Maximum head: 160m

Medium temperature: -15°C ~ 85°C

Operating pressure: 16Bar or 25Bar (The pump case is made of high-strength materials)

Inlet and outlet diameters: DN50—DN150

Inlet and outlet flanges: designed according to GB/T17241.6 or any other standards.

**Pumping fluid:** clean, low-viscosity, non-flammable fluid that does not contain large-volume solid particles or fibers. For other media, please contact your local Xylem distributor.

**Mechanical seal:** meets ISO3609 and ANSIB73.1 M. Standard Materials include graphite, ceramics and fluororubber. If the medium temperature or the sediment content is high, or if you have any special seal requirements, please contact your local Xylem distributor.



# Bill of Materials

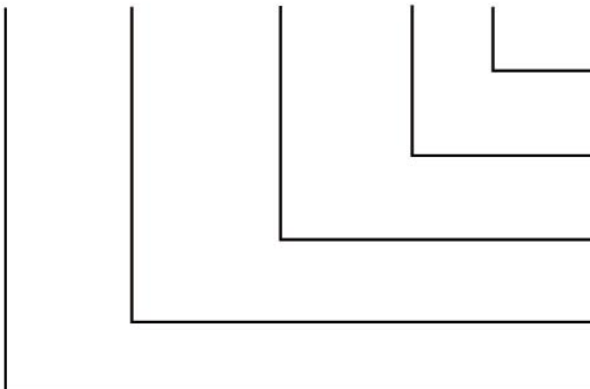
Part Name	Materials	
	Standard	Optional
Pump case	HT250	QT450-10
Pump cover	HT250	QT450-10
Motor connector	HT250	HT250
Impeller	SS304	ZCuAl10Fe3
Shaft	2Cr13	2Cr13

# Features

- GLC pump is highly efficient with low NPSHr.
- Compact size, which enables small overall dimensions;
- Simple structure and easy maintenance; GLC pump is simple in structure without bearing components, easy to install and remove without the need for shaft alignment, and easy to maintain;
- Structural stability, high reliability, and low vibration and noise;
- Good parts interchangeability, few wearing parts, and low maintenance cost.

# Definition

GLC 50 - 160 - 3 / 2



**Motor pole**

e.g. 2=2P

**Motor rated power (KW)**

e.g. 3=3KW

**Impeller nominal diameter (mm)**

e.g. 160=160mm

**Inlet and outlet diameters (mm)**

e.g. 50=DN50

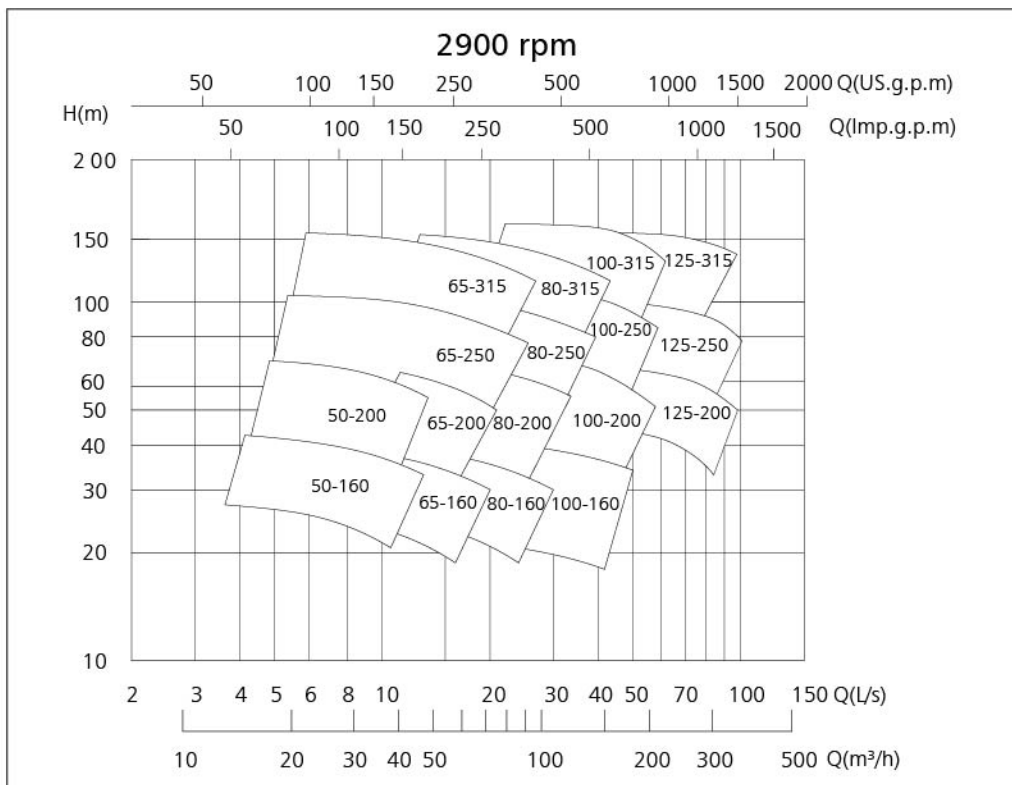
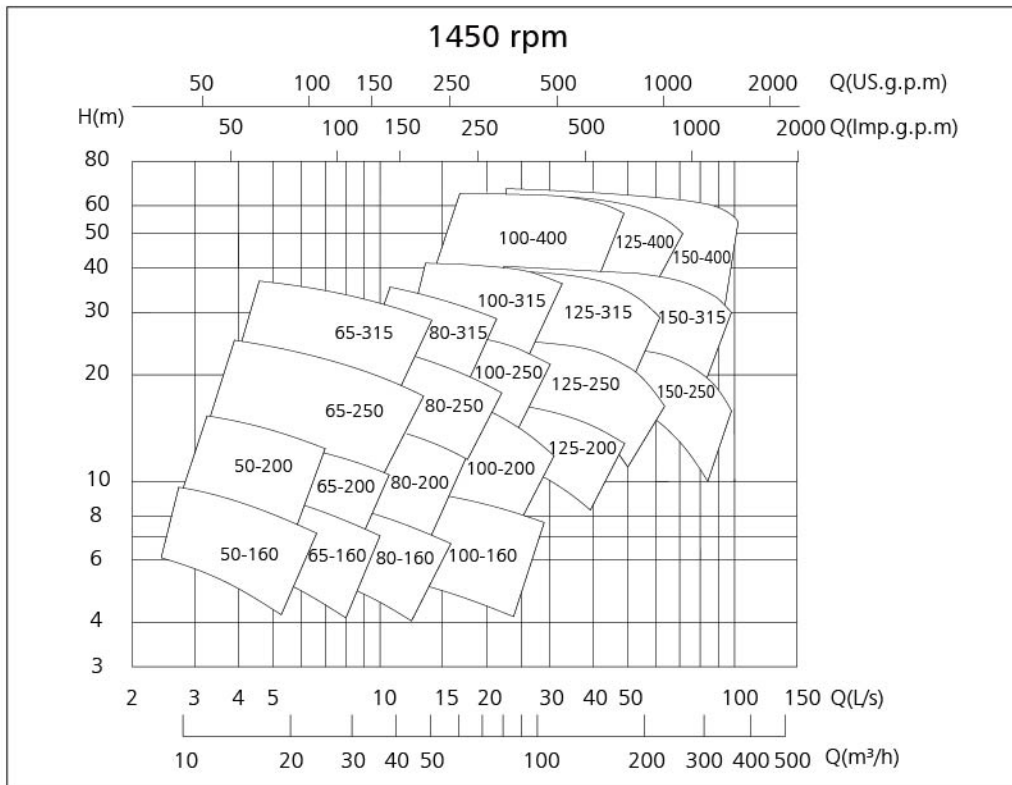
**Product series – GLC series**

# Main Parameter List of Standard Configuration

Pump	Unit	Series 1	Series 2	Series 3
1. Inlet and outlet flanges		GB/T17241.6-2008 PN16, adjustable as required		
2. Impeller structure		Single-suction double-seal		
<b>Motor</b>				
3. Motor mounting method		V1		
4. Motor frequency	Hz	50		
<b>Shaft</b>				
5. Shaft diameter (Impeller)	mm	25	35	45
<b>Mechanical seal</b>				
6. Mechanical seal materials		Graphite/ceramics/fluororubber		
7. Mechanical seal specifications	mm	32	43	53



# 50 Hz Performan Curve



# GLC Vertical Double Suction Inline Pump

## Technical Parameters

GLC 250x250-375~350x350-400

### Operating conditions:

Maximum flow rate: 2100m<sup>3</sup>/h

Head: 10~46m

Medium temperature: -10°C~ +130°C

Operating pressure: 16Bar

Maximum pressure: 24Bar

Efficiency: Max.88%

Revolution: 1450rpm

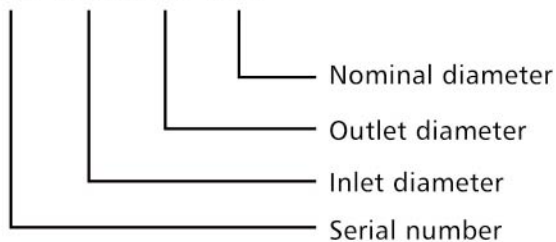
Inlet diameter: DIN250- DIN350

Outlet diameter: DIN250- DIN350



## Definition

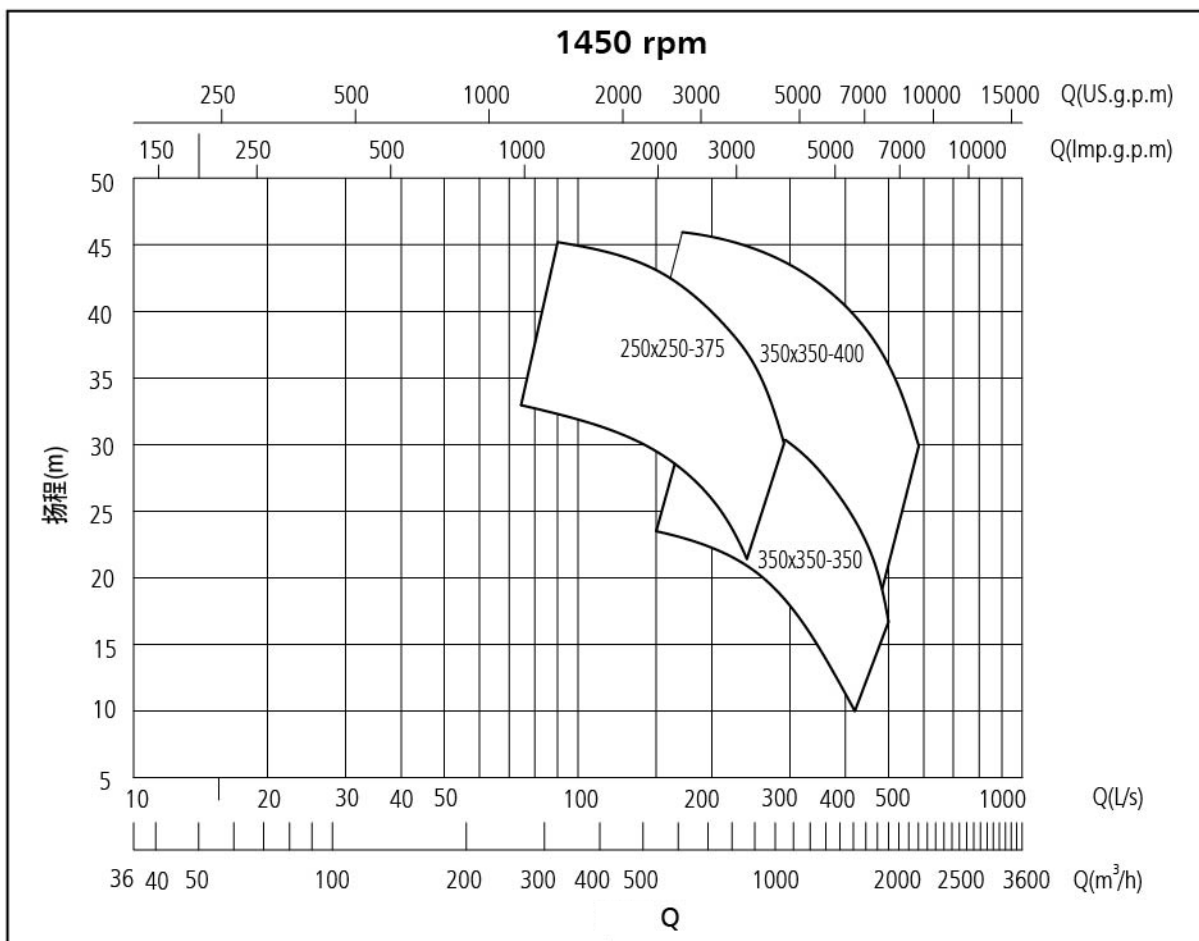
GLC 350X350-350



## Bill of Materials

Part Name	Materials	
	Standard	316 stainless steel (custom-made)
Pump body	HT200	CF - 8M
Impeller	HT200	CF - 8M
Motor bracket	HT200	CF - 8M
Shaft	45	2Cr13
Orifice sleeve	ZcuZn16Si4	1Cr18Ni9Ti

# Performan Curve



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- 2) a leading global water technology company.

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