

**This picture just for reference**

# **Goulds GISO Series**

ISO  
FRAME &  
STUB SHAFT  
PUMPS

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# Goulds GIS Series

## ISO End Suction Centrifugal Pump - Technical Sales Data

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The ITT Goulds brand is renowned for manufacturing the highest quality pumping equipment utilizing the best engineering practices available worldwide. The Goulds GIS series back pull out, foot mounted centrifugal is no exception. The single stage end suction pump has been designed with the latest CAD (Computer Aided Design) and CFD (Computational Flow Design) aids and is in accordance with the international standard ISO2858. This highly efficient and flexible design makes the Goulds GIS pump ideal for a wide range of pumping applications, from Water Supply and Irrigation to Mining and Building Services.

### Design Versions

The Goulds GIS series is manufactured in two designs; Frame Mount suitable for long coupled or belt driven motors and Stub Shaft suitable for direct attachment to 2 or 4 pole IEC frame motors. The standard horizontal configuration units have a vertical centreline discharge, however these models can also be mounted in a variety of different positions including horizontal discharge, with or without vertical mounting of the pump's bearing housing.

### Pumped Liquid

Designed for non-combustible, low viscosity liquids, free of solids, abrasive materials and fibres. Various liquid chemical compositions are capable of being pumped through the use of a variety of construction materials and seal options (refer to materials listed below).

### Construction materials

The Goulds GIS range comes standard with Cast Iron (GG25) casing wet end, Zinc Free bronze impeller and wear rings and a 420 Stainless Steel shaft. In order to suit a wider range of applications the GIS series of pumps is also available in the following materials:

- ♦ Ductile Iron
- ♦ 316 Stainless Steel
- ♦ Duplex Stainless Steel (1.4460)
- ♦ CD4MCu

### Shaft

Enlarged shaft to minimize deflection, with tapered shaft keyed design ensuring positive locking when in operation and ease of impeller removal whilst servicing. Optional shaft materials are available on request.

### Shaft Sealing

A wide range of sealing solutions are available for the Goulds GIS Series, the standard supply consists of a carbon rotating face and ceramic stationary face with nitrile elastomers. For alternative sealing requirements for hot or abrasive applications contact your authorized ITT Goulds distributor.

### Bearing Housing & Bearings

Features incorporated into the design of the Goulds GIS bearing housing makes it robust, reliable and easy to service. Standard features include a removable bearing cap on the non-drive end and lip seals fitted to both drive and non-drive ends in order to minimize the ingress of foreign liquids and materials. Bearings are heavy duty NSK or approved equivalent bearings with pre-packed grease. Alternative bearing manufacturers and lubrication methods are available on request. The Stub Shaft version has a heavy-duty cast iron motor adaptor and robust drive shaft clamp for positive motor alignment and stability.

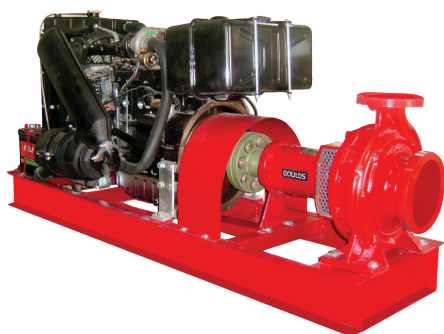
### Operating Conditions

|                      |                                      |
|----------------------|--------------------------------------|
| Flow:                | Max. 900m <sup>3</sup> /hr           |
| Head:                | Max. 160 meters                      |
| Liquid Temp:         | -15°C to 140°C (with hot water seal) |
| Max working pressure | 160 metres                           |

**Please note that ITT, in the interests of product development, may alter technical specifications without notice**

## High-efficiency

GISO



## Simple maintenance

As GISO products adopt the most sophisticated back-pulling structure, the assembly, disassembly and maintenance become simple. When they are disassembled, it is not necessary to remove the pipeline system, or motor. No re-alignment is needed after the installation, thus reducing the maintenance work greatly. Moreover, GISO adopts NSK maintenance-free bearings, which are maintenance-free throughout their service life under normal operating condition. You need not worry about the regular greasing, and a great deal of routine maintenance time could be saved.

## High reliability

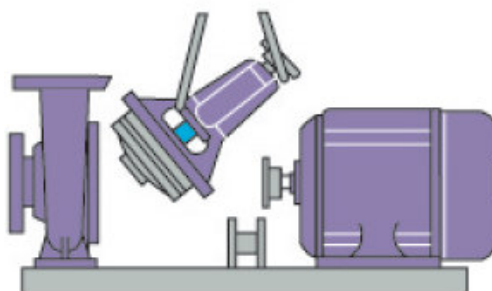
**Closed type impeller:** Excellent hydraulic model is adopted with high efficiency and high resistance to cavitation.

**Single mechanical seal:** Simple structure, good sealing performance, long service life and convenient maintenance (in compliance with ISO3069 Standard).

**Heavy-duty stainless steel shaft:** High rigidity during high-speed operation, invulnerable, robust and durable.

**Axial force:** Balance holes are used to balance the axial force. The bearing undergoes smaller force, greatly improving the service life of the bearing.

**Impeller balance:** The impeller is calibrated for balance in accordance with Grade G6.3 of ISO1940-2000, and the operation vibration is low, which significantly prolong the service life of the bearings and mechanical seal. The strict quality assurance system and advanced assembly process also provide robust guarantee for the stable performance of the ITT products.



## Abundant product specifications

GISO series is a product that can really meet the all-around demands of the customers.

### Extensive scope of parameters:

- Rated flow up to 1500 m<sup>3</sup>/h, max. flow up to 2100 m<sup>3</sup>/h
- Max. head up to 160m
- Inlet / outlet diameters up to 400 mm

### Suitable for various application situations:

All the models can operate under both 50Hz and 60Hz conditions.

## Wide range of application

The products can be used extensively in water supply, heat supply, air-conditioning system, pressurized water supply, firefighting sprinkler system, spraying, irrigation, swimming pool, fountain water supply, etc.

## Highly standardized

The GISO water pumps with highly standardized design have high interchangeability of parts. This minimizes the types and quantity of the spare parts of the customers and facilitates maintenance management, saving your routine maintenance cost directly.

## High versatility

The products conform to ISO2858 Standard. As for dimensions, they are interchangeable with any other ISO pumps of the same specifications conforming to the same standard.

