

 **GOULDS PUMPS**

# Goulds AF

Axial Flow Pump



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**ITT**

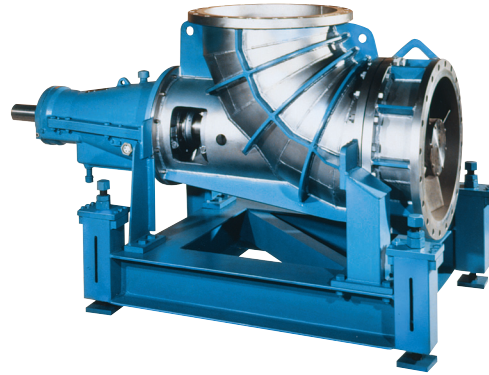
ENGINEERED FOR LIFE

# Goulds AF

## The Industry Leader in Circulating Pump Technologies



Cast design 6-36" (150-900 mm)



Fabricated design 42-66" (1050-1600 mm) (shown with optional spring mounted base)

Goulds line of Axial Flow pumps is unmatched in the industry for high volume/low head pumping requirements... especially when corrosive and/or abrasive solutions are involved. Extended service life, mechanical reliability, custom engineering, and a wide range of materials allow the Model AF to stand out as the leader in the field.

For continuous circulation of corrosive/abrasive solutions and process wastes. Proven performance in a variety of services around the world.

- Capacities to 300,000 GPM (68,000 m<sup>3</sup>/h)
- Heads to 30 feet (9.2 m)
- Low NPSH requirements
- Temperatures to 350° F (176°C)
- Available in cast iron, austenitic stainless steels, duplex alloys, nickel, nickel-chrome alloys, nickel-chrome-moly alloys, titanium, and other alloys as required for the service
- Available in 6-66", (150-1600 mm) sizes (larger sizes available)

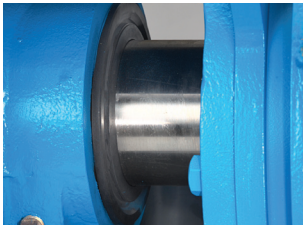
### Services:

- **Chemical** - evaporator and crystallizer circulation
- **Mining and Minerals** - phosphate, soda ash, potash, and sodium chloride processing
- **Petrochemical** - polypropylene reactors, xylene
- **Pulp & Paper** - black liquor evaporator, chlorine dioxide generators
- **Municipal** - sewage digesters
- **General** - raw water pumping, flood control, marine ballast transfer

### Design Features

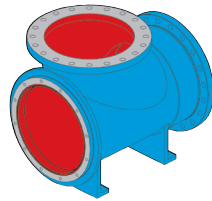
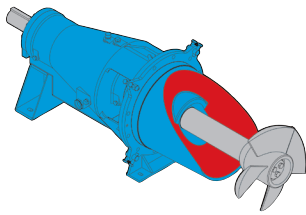
- Multiple Impeller selections for optimum performance and efficiency
- Tapered Bore Stuffing Box for longest mechanical seal life on cast sizes
- Back pullout construction standard on cast sizes
- Robust bearing frame and shaft for long life on critical, continuous duty services

# Performance Features for Extended Pump Life



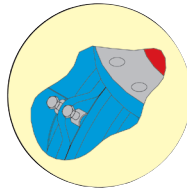
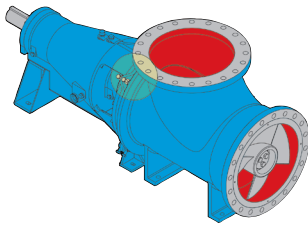
## Labyrinth Seals

For maximum chemical resistance prevent premature bearing failure caused by lubricant contamination or loss of oil. Non-contracting unitized design for ease of maintenance assembly.



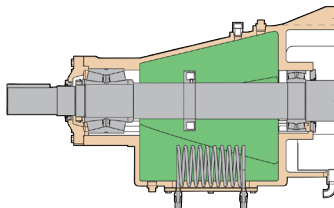
## Back Pullout

Back pullout feature provided as standard on sizes through 36" (900 mm). Allows for ease of maintenance.



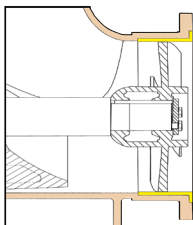
## Adjusting Lugs for Ease of Adjustment

Adjusting bolts allow for precise, easy alignment of both the impeller clearance and stuffing box runout. Precise alignments minimize pump life cycle cost.



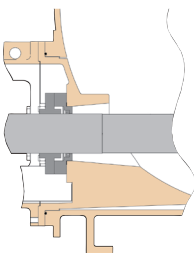
## Oil Cooling

An oil cooling option is available on 12" and larger sizes to cool the oil bath. Used when process temperatures cause excessive heat build up in the bearing housing and or bearings..



## Elbow Liner

Precision-made replaceable liners between impeller and casing are offered as an option to ensure continuous high efficiency.



## Taperbore Seal Chamber (cast sizes only)

Enlarged, tapered bore for increased life of mechanical seals through improved lubrication and cooling. Accommodates current cartridge designs.

# Goulds AF

Rugged Design Features for Wide Range of Services

STANDARD LABYRINTH OIL SEALS

BI-DIRECTIONAL THRUST BEARING  
(6-36" sizes)

EXTRA LARGE OIL SUMP

Increased oil capacity provides better heat transfer for reduced oil temperature. Bearings run cooler and last longer.

FOUR-POINT MOUNTING

Decreases the effects of pipe load on the pump. (6-36" sizes)

EXTRA HEAVY DUTY SHAFT

Long bearing span and large diameters reduce shaft deflection, extend mechanical seal and bearing life.

STAINLESS DRIP PAN

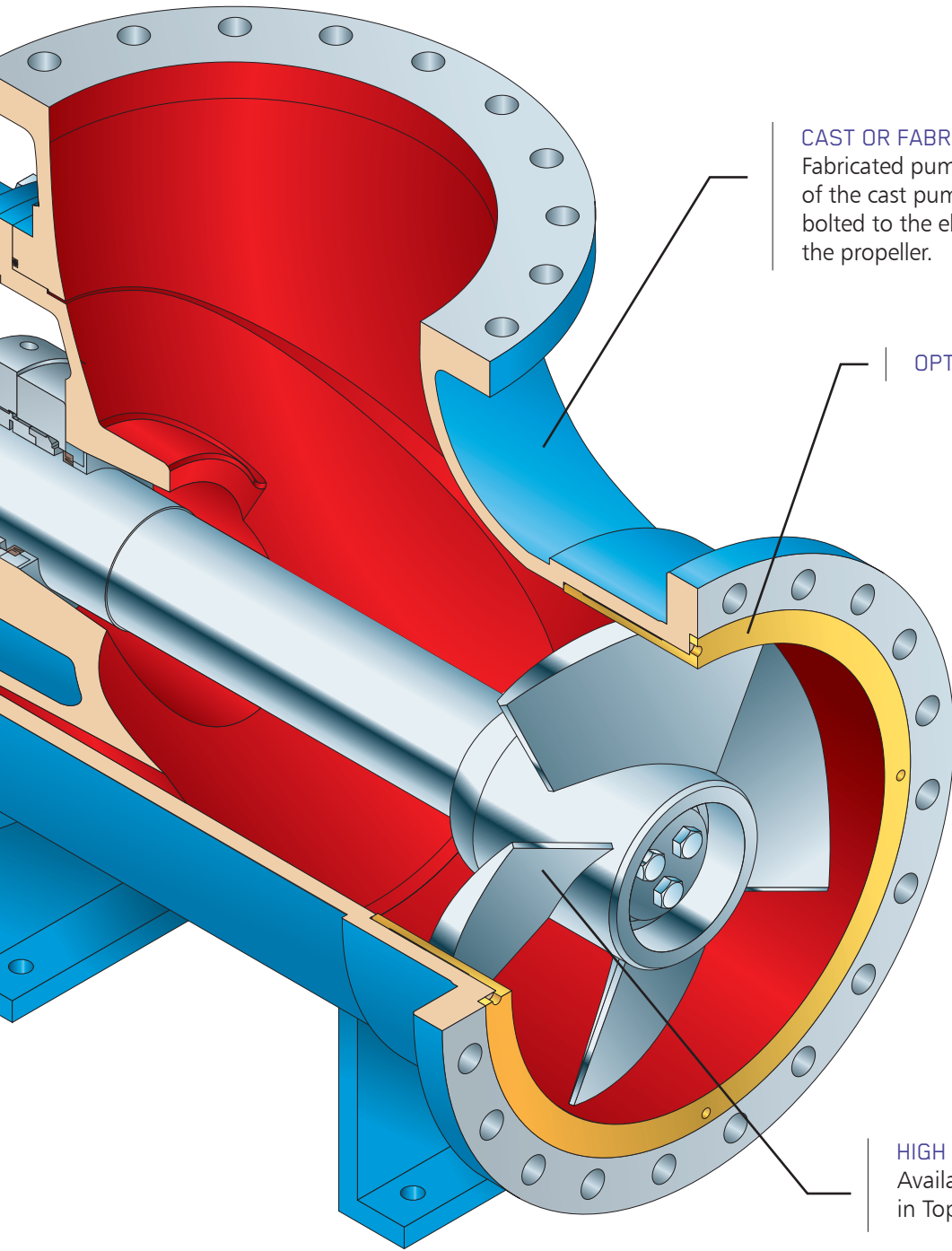
Standard pan catches any drips and connects to drain piping to eliminate damage from leaks.

BUILT-IN ADJUSTING LUGS

Supplied as standard for ease of maintenance.

TAPER BORE STUFFING BOX (CAST SIZES ONLY)

Designed specifically for today's cartridge seals. Optional packed box with sleeve available. Fabricated sizes use a straight bore box for packing or mechanical seals.



**CAST OR FABRICATED ELBOWS**

Fabricated pumps and some larger sizes of the cast pumps have a separate casing bolted to the elbow to simplify access to the propeller.

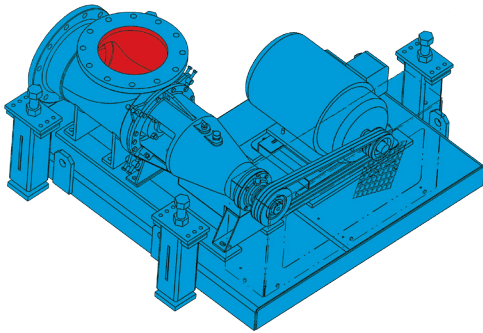
**OPTIONAL REPLACEABLE LINE**

**HIGH EFFICIENCY IMPELLER**

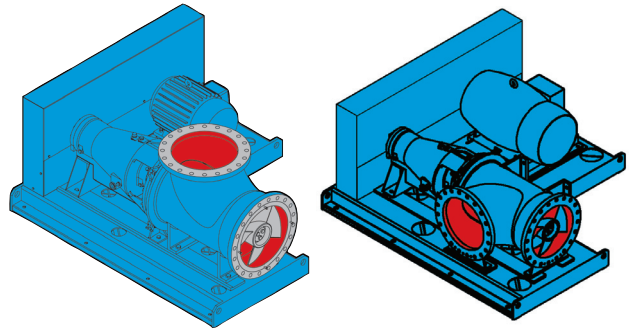
Available in multiple vane angles. Available in Top or End Suction configurations.



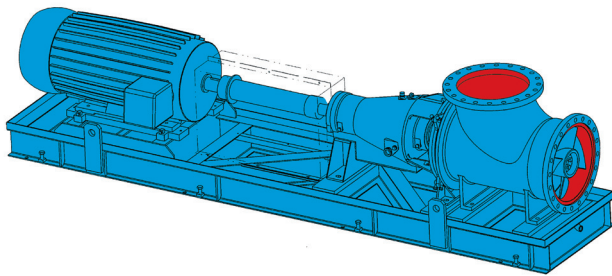
# Construction Options



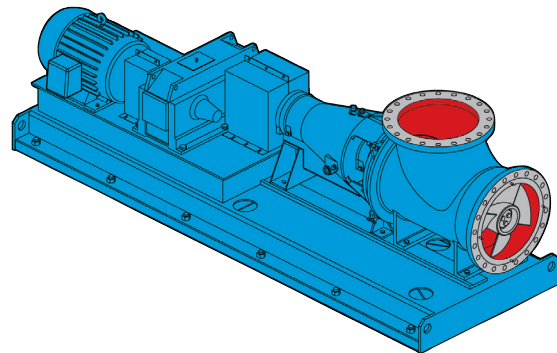
Spring Loaded Side by Side



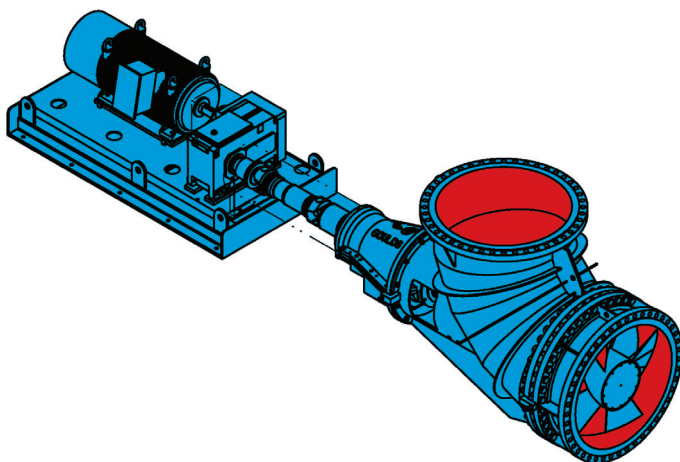
Side by Side



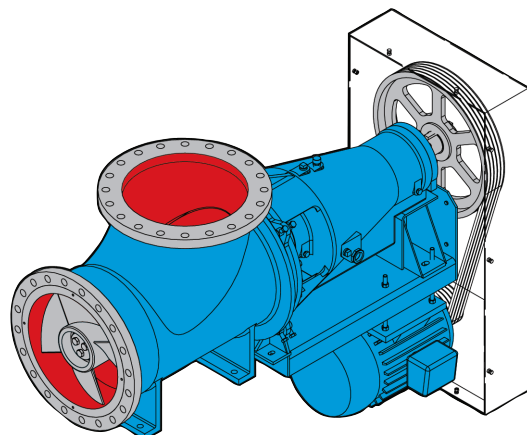
Direct Connected



Gear Driven



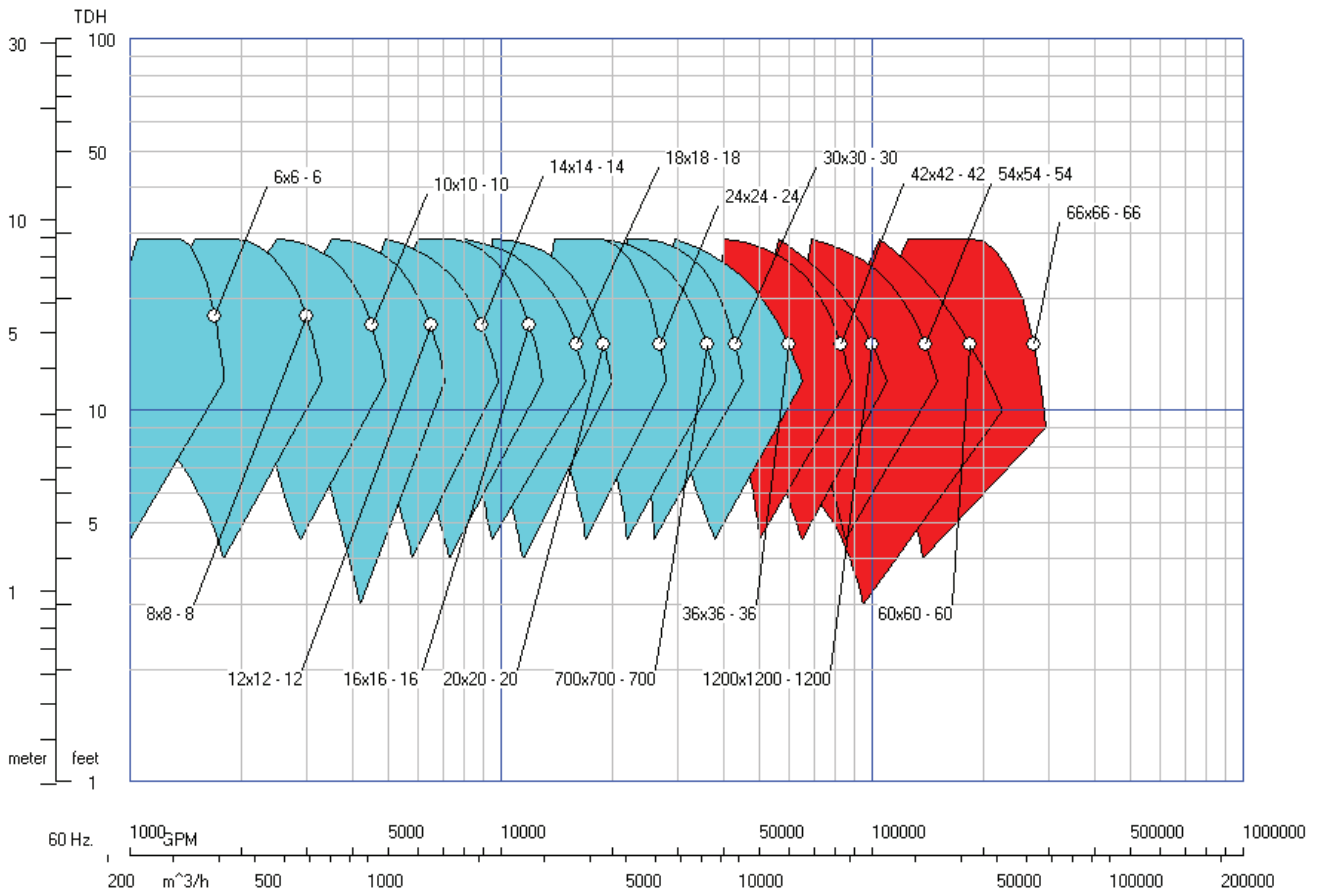
Pipe Hung



Under Slung

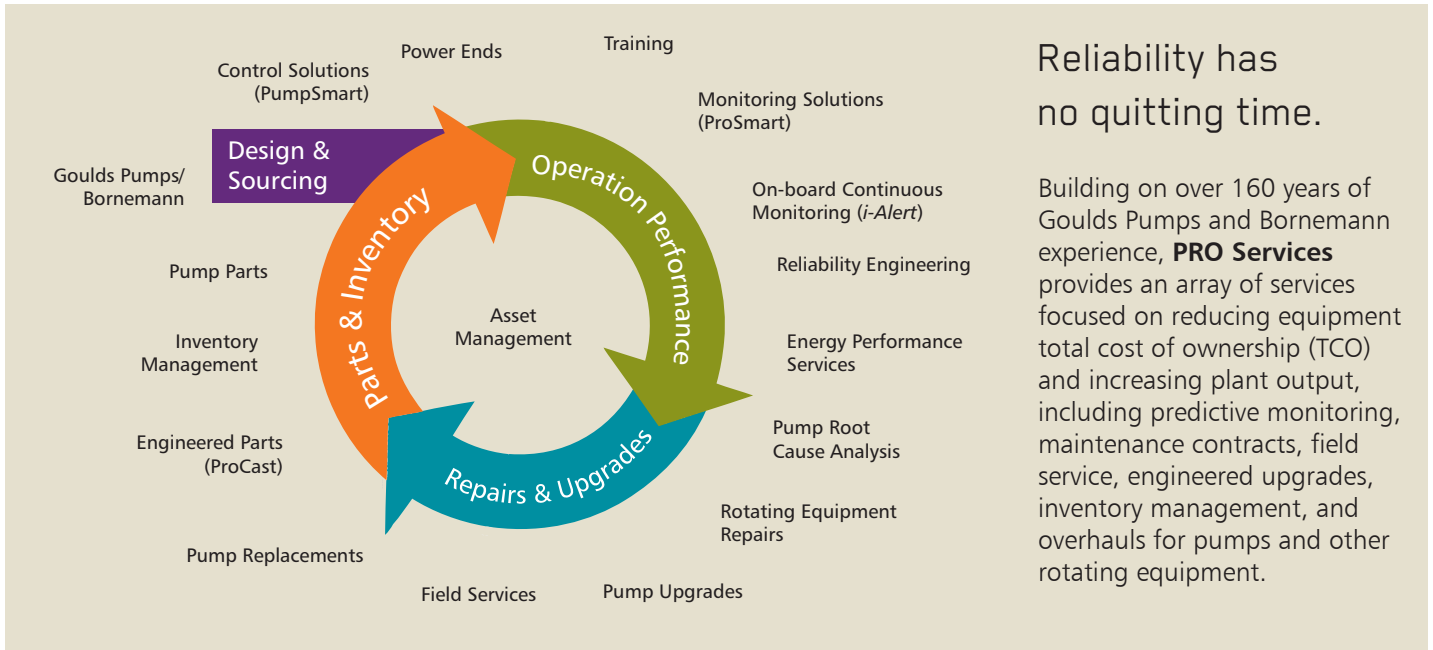
# Hydraulic Coverage

## Hydraulic Coverage





## Your Total Solution For Equipment Life Cycle Optimization



Reliability has no quitting time.

Building on over 160 years of Goulds Pumps and Bornemann experience, **PRO Services** provides an array of services focused on reducing equipment total cost of ownership (TCO) and increasing plant output, including predictive monitoring, maintenance contracts, field service, engineered upgrades, inventory management, and overhauls for pumps and other rotating equipment.



PRO Services provides OEM parts for Goulds Pumps, Bornemann Pumps, AC, Morris, Goyne, CB, HVC, UXN and ROV in a timely manner to meet end user requirements. Significant levels of inventory and quick response capability provide the necessary programs to meet all repair needs.

PRO Services provides programs of reliability services, energy assessments, asset management and training. These can be deployed as stand-alone or integrated solutions, tailored to the needs of your company.

PRO Services provides an array of repairs and upgrades services to extend equipment life. PRO Services helps customers develop effective maintenance and asset management programs to lower maintenance costs, improve uptime, reduce inventory costs and extend equipment life.



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