Pipelines
Oil & Gas Products for Transportation
From pump systems used to transport and refine petroleum, to watermakers used on offshore rigs, ITT fluid handling technologies are used in all areas of the Oil and Gas Industry.

**Expertise**
For over 160 years, our engineers have worked closely with major energy producers worldwide to develop innovative products and technologies that optimize the life cycle of equipment required by this demanding industry. ITT is recognized as the premier supplier of pumps, valves, controls and monitoring, offshore RO desalination, and services to the Oil and Gas Industry.

**Reliability**
ITT is recognized worldwide for our brands such as Goulds Pumps®, Bornemann, PRO Services, Engineered Valves, Blakers, and C’treat®. We have developed engineered products for Oil and Gas applications and offer custom designs for critical services. The latest foundry and manufacturing technologies, combined with demanding quality control processes and procedures, ensure the highest quality products. We provide the greatest value in life cycle cost and performance.

**Innovation**
ITT is the world leader in technology and engineering expertise, utilizing capabilities such as:

- Computational fluid dynamics
- Materials science
- Manufacturing technology
- Finite element analysis
- Efficiency optimization
- Controls and monitoring
- Rapid prototyping
- Hydraulic design
- Mechanical design

PumpSmart® controls and ProSmart® monitoring systems keep processes reliably on line by automatically adjusting pump output to meet system needs, detecting and correcting problems before they disrupt the process.

**Environment, Safety & Health**
ITT is proud to be a leader in protecting our employees, customers and the communities where we operate. The ITT Environment, Safety and Health Management System provides for the systematic control of environmental, safety and health (ESH) risks. Using this system, operational, administrative and cultural ESH processes are standardized and applied to continually improve environmental and occupational safety and health performance.
Global Coverage
ITT’s family of industrial brands - Goulds Pumps, Bornemann, PRO Services, Engineered Valves, Compact, Turn-Act, and C’treat have the global coverage needed to serve multinational companies in any region.

Industry Leading Hydraulic Coverage
We offer extensive hydraulic coverage to meet your process needs. Better hydraulic fits can mean improved efficiency, and long-term reliability and parts life.

8000 HP / 6000 kW Testing Capability
Our expanded centrifugal and multiphase pump test facilities can meet any of your test requirements. This allows us to test at rated speeds, which is critical to assess the impact of dynamic conditions including vibration.

API Engineering Expertise
We are experts in packaging engineered pumps that meet your demanding applications – with true conformance to the latest API specifications. ITT is a world leader in technology and engineering, including hydraulics, materials science, mechanical design and fluid dynamics. We have extensive experience in nearly every type of driver, bearing, seal, piping configuration, nozzle configuration, flange and baseplate design to meet your application needs.

ITT Commitment
ITT is committed to the Oil and Gas market, which is the largest segment of our business. We have been investing in technology to continuously improve our products to meet increasingly demanding industry requirements.

Proven API Leadership
ITT is a proven leader in API pumps with over 25,000 units installed.

40+ years of API expertise participating member on API 610, API 676 and API 682 committees.

Complete Portfolio of API Pumps
ITT Goulds Pumps and Bornemann have a complete portfolio of proven API pumps:

- Overhung pumps
- Single and two-stage between-bearing pumps
- Multistage between-bearing pumps – axially split
- Barrel Multi-Stage pumps
- Vertical, double casing pumps
- Specialty pumps
- Twin screw pumps
- Multiphase pumps
- Progressive cavity pumps

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Model 3600 BB3 pump

Model 3610 BB1 mainline pump for pipelines
**3700 (OH2)**
Single-Stage, Overhung
- Capacity: 8,500 GPM (1930 m³/h)
- Head: 1,200 feet (360 m)
- Temperature: 800˚F (425˚C)
- Pressure: 870 PSIG (60 Bar)

**3610P (BB1)**
Axial Sump, Double Suction
- Capacity: 30,000 GPM (6813 m³/h)
- Head: 1,500 feet (457 m)
- Temperature: 400˚F (204˚C)
- Pressure: 2,200 PSIG (152 Bar)

**3600 (BB2)**
Heavy-Duty Multi-Stage Axially Split Pumps
- Capacity: 8,500 GPM (1930 m³/h)
- Head: 9,000 feet (2740 m)
- Temperature: 400˚F (204˚C)
- Pressure: 4,000 PSIG (276 Bar)

**3200CB (BB5)**
Barrel Multi-Stage Pumps
- Capacity: 4,000 GPM (910 m³/h)
- Head: 9,000 feet (2740 m)
- Temperature: 800˚F (425˚C)
- Pressure: 4,000 PSIG (276 Bar)

**3171 AF (V54)**
Vertical Sump
- Capacity: 3,180 GPM (1364 m³/h)
- Head: 710 feet (213 m)
- Temperature: 700˚F (371˚C)
- Pressure: 375 PSIG (26 bar)

**3196 i-FRAME™ / IC (OH1)**
Process Pumps (ANSI / ISO)
- Capacity: 7,000 GPM (1364 m³/h)
- Head: 710 feet (213 m)
- Temperature: 600˚F (315˚C)
- Pressure: 375 PSIG (26 bar)

**VIC/VCDS (V56/V57)**
Vertical Can / Double Suction
- Capacity: 12,000 GPM (4760 m³/h)
- Head: 3,500 feet (1067 m)
- Temperature: 500˚F (260˚C)
- Pressure to 900 PSIG (62 bar)

**3171 AF (V54)**
Vertical Sump
- Capacity: 3,180 GPM (1364 m³/h)
- Head: 710 feet (213 m)
- Temperature: 700˚F (371˚C)
- Pressure: 375 PSIG (26 bar)

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**PUMPSMART PROSMART**
Ensuring pumps operate at BEP with lower energy consumption! Our patented systems provide the visibility to operators and increased pump protection (Dry Run/ MCSF/Runout/NPSH) and longer life.

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Whether you are talking short distances between storage tank and truck, or long barren stretches between pumping stations, ITT has the right solution.

Transporting crude or refined product demands absolute care. ITT has dependable, efficient products that are crucial to managing your pipelines and transport requirements.

ITT’s offerings include:
- Booster pumps
- Mainline pumps
- Pumps for terminals and tank farms
- Twin screw pumps for loading and unloading of ships, tank wagons, tanker trucks as well as storage tanks and pipeline
- Hydraulic rerates of existing pumps
- Remote monitoring

We are experts in packaging engineered pumps that meet your demanding applications – with true conformance.

Ethanol railcar unloading pumps in Albany NY

Heavy crude oil transfer pumps with viscosities ranging from 50 to 900 cSt. When “frozen,” this pipeline relies on ITT Bornemann twin screw pumps.
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.

Reliability has no quitting time.

**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.

**Parts & Inventory**

Significant levels of inventory and quick response capability provides the necessary programs to meet all repair needs. Rotating elements can be stored at locations close to pump stations and be available on site within 24-72 hours.

**Operation Performance**

**Repairs & Upgrades**

**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.

*Vertical pump being serviced.*

*Provides operations with a “window” into real time pump performance and operation. Dynamic pump flow/head/power curve changes with speed.*
Upgrade and Improve your standard Medium Voltage VFD Pumping System!

- PumpSmart MV has the ability to analyze existing VFD controlled systems and give operators visibility of pumping systems
- Provides better operation and less down-time due to process pump visibility
- Patented logic can improve overall system visibility and predictive monitoring
- More than just AMPS and SPEED; real-time pump performance equates to better operation and protection of high energy pumps

Intelligent and Powerful monitoring or control for your Medium Voltage industrial process pumping system is finally here. PumpSmart MV systems combines the experience and knowledge of over 160 years of pump system design and support, with the latest in monitoring and control. ITT PRO services can engineer and integrate your pumping mechanical, hydraulic and electrical system for advanced system monitoring and control.

Wherever you are, we’re there too.

ITT’s family of industrial brands:

ITT
ENGINEERED FOR LIFE

240 Fall Street
Seneca Falls, NY 13148
www.itt.com