Fluid Automation Solutions | for Oil and Gas


www.asco.com
Presenting ASCO solutions

Getting great results for oil and gas
Our ever-evolving and expanding mix of products includes valves, cylinders, manifolds, and more. They all contribute to ultra-reliable solutions for original equipment manufacturers (OEMs), end users, and assemblers throughout North America and the world.

An acknowledged fluid automation leader, ASCO has provided high-performance products to the oil and gas industries for more than 125 years. Count on us to deliver utmost uptime and the most complete application coverage in the industry — today and tomorrow.

Comprehensive applications
ASCO provides dependable fluid automation solutions for every part of the industry, including:
- **Upstream exploration** and production — with the right materials of construction, plus superior durability and affordability
- **Midstream transportation** to refineries and distribution via pipeline, rail, barge, and truck — offering needed functionality, reliability, and constructions
- **Downstream refining** of crude oil and processing of natural gas, including distribution to consumers — providing reliability and functionality, plus ready availability

So you can rely on our valves and cylinders within important processes throughout the enterprise:
- Extraction
  — Wellhead automation (production and injection)
- Transmission (gathering and money lines)
  — Pipelines
- Refining
- Production/processing
  — Separation stations
  — Compression stations
- Distribution
  — Metering and distribution stations
- Storage

Unparalleled products
ASCO offerings meet applicable standards from UL in the U.S. to CSA in Canada to IECEx and ATEX for overseas projects. And our growing breadth of products and accessories meets all kinds of oil and gas industry requirements.

For example, our new spool valves have the high reliability that oil and gas use demands, plus unbeatable low-power options. These and other low-power valves (1.4 W to as low as 0.55 W) are critical for tasks such as piloting large process valves at remote solar-powered wellheads. Our low-temperature valves feature a wide range, including low ambient temperature capabilities down to -60˚C (-78˚F). Our stainless steel RCS demonstrates the reliability and safety necessary in emergency shutdown. And we’ve secured coveted global approvals for items including stainless steel encapsulated coils on those new spool valves — enabling interchangeable use worldwide.

As an extension of our fluid automation solutions, TopWorx™ and TESCOM™ further enhance our breadth of products for the oil and gas industry. The TopWorx discrete valve controllers enable automated on/off valves to communicate via Foundation Fieldbus, DeviceNet, Profibus, Hart or discretely with the use of the most reliable switch on the market, the GO™ Switch. They carry IECEx, ATEX, and UL certifications in a single model, making it easy for global customers to standardize across plants in multiple world areas. The TESCOM pressure regulators, capable of the highest inlet pressures in the industry, extend the life span and increase production in HPU and Wellhead control panels, artificial injection systems, and subsea pressure control.

Intensive testing
Valves in many common oil and gas applications must remain static (open or closed) for long intervals — thus risking “stick.” Our intensive latency testing makes sure that valves still function perfectly when energized or de-energized after these long latent periods.

Superior results on these and other stringent testing regimens are one reason our products achieve such long service lives.
ASCO SPOOL VALVES FOR WELLHEAD CONTROL
These compact, corrosion-resistant, 364 Series three-way stainless steel valves are ideal for drop-in replacement in both offshore and remote applications. They bring proven ASCO solenoid technology to upstream wellheads. Panel-mounted, they control operation of both surface-controlled subsurface safety valves (SCSSVs) and subsurface safety valves (SSVs). Options include low-power and NACE-compliant versions. Many popular constructions are available for quick shipment via ASCO Express.

ASCO SPOOL VALVES FOR VALVE AUTOMATION
Corrosion-resistant stainless steel models include the 362 Series three-way and the 562 Series four-way versions. All feature ultra-reliable ASCO solenoid technology. Extensive options — such as NACE-compliant versions and more — provide maximum flexibility in valve automation for upstream, midstream, and downstream applications. These solid performers are also used as wellhead overpressurization valves.

TOPWORX DISCRETE VALVE CONTROLLERS
The TopWorx D-Series offers spacious, rugged enclosures in aluminum, stainless steel, or resin. Suitable for use in SIL-3 applications, TopWorx ESD Valve Controllers provide a complete Partial Stroke Test Solution with unique features and functionality that enable partial stroke testing of emergency shutdown valves without disrupting or shutting down the process.

ASCO REDUNDANT CONTROL SYSTEMS (RCS)
Especially optimized for downstream applications, ASCO RCSs come in durable, corrosion-resistant 316 L stainless steel constructions. All are SIL 3 capable. Their proven reliability can be critical in reducing spurious trips.
ASCO THREE-WAY PROCESS VALVES
Corrosion-resistant, with durable 316L construction, these 316, 327, and 308 Series valves have the flexibility for upstream, midstream, or downstream applications. They maintain SIL 3 capability for ensured safety in use.

ASCO HARSH-ENVIRONMENT VALVES
With corrosion-resistant design and 316L construction, the 320 A Series valves have the durability to stand up to challenging locations. They’re particularly recommended for upstream use. Low-power options allow alternative energy sources, while factory-sealed leads reduce installation costs. UL, CSA, ATEX, and IECEx approvals make them suitable as global inventory solutions.

TESCOM HPU & WELLHEAD CONTROL PANEL REGULATORS
TESCOM 50-4000, 50-4100 and 50-4200 Series pressure reducing regulators, with their integrated bypass valve, decreases subsea system pressurization time, extends the life of the regulator, and lowers maintenance costs of water glycol based systems.

TESCOM CHEMICAL INJECTION - FLOW CONTROL VALVES
The TESCOM 56 Series flow control valve utilizes variable orifice flow control technology and an integrated microprocessor based PID controller to bring precise control to offshore chemical injection systems. This accuracy reduces chemical waste and ensures infrastructure is protected.

TESCOM DIVING REGULATORS
The uniquely robust designs of TESCOM 44-1300 and 44-4000 Series regulators, all meeting stringent cleaning methods, provide longevity and extended service life and promote exceptional operational efficiency ensuring the highest level of safety when lives are at stake.

ASCO FILTER REGULATORS
These 342 Series filter/regulators are ideal for a wide variety of oil and gas uses, including upstream, midstream, and downstream applications. They feature corrosion resistance and durable 316L construction. SIL 2 capable, they’re also NACE-compliant for unquestioned reliability.
Expect the highest level of customer service.

Our attentive, experienced local sales and technical support experts are easy to do business with, and provide fast responses to all your calls or queries.

Unmatched technical expertise
New prototype laboratory center
ASCO employs a large, experienced, knowledgeable product design/engineering group, plus a similarly qualified sales force. Both possess deep understanding of our technology — and how it meets the requirements of your applications. Both are readily available to help you select exactly the right fluid automation products. They understand your objectives, and can tailor just the right solution to achieve them.

For example, tap our knowledge of oil and gas safety and reliability challenges, or let us find solutions for your process valve automation and redundancy issues.

Unbeatable response
ASCO maintains a strong support presence around the globe. That includes exceptional local service in many of the prime oil-and-gas-producing areas of North America. So you get the right answers and assistance, with satisfyingly rapid response.

Need turnaround on a tight schedule? Thousands of our most popular products are available for quick shipment via our ASCO Express program. It all helps ensure your ultimate uptime and profitability.

Lowest cost of ownership
Our products’ long cycle lives and efficient performance lead to significant positive impacts on maintenance and downtime. Many of our oil and gas customers report substantial savings in their overall cost of ownership.

“ASCO helped us improve process efficiency and safety while greatly reducing overall cost and unplanned outages.”

Ensure you get the finest fluid automation solutions for your oil and gas application: call ASCO today or visit www.asco.com/oil-gas

Global leadership
ASCO, an Emerson company, offers comprehensive fluid automation solutions, including flow control and pneumatic products, for a wide range of industry-focused applications. When combined with our deep process expertise, these solutions provide lower cost of ownership, greater asset availability, and improved productivity. The ASCO line comprises more than 50,000 valves, an extensive selection of air preparation and control equipment, and a comprehensive line of motion control products. The company is the world’s leading manufacturer of solenoid valves.

Emerson (NYSE: EMR), headquartered in St. Louis, Missouri (USA), is a global technology and engineering company providing innovative solutions for customers in industrial, commercial, and residential markets. Our Emerson Automation Solutions business helps process, hybrid, and discrete manufacturers maximize production, protect personnel and the environment while optimizing their energy and operating costs. Our Emerson Commercial and Residential Solutions business helps ensure human comfort and health, protect food quality and safety, advance energy efficiency, and create sustainable infrastructure. For more information visit Emerson.com.