

# PowerChokes®

Control system experts



PowerChokes has designed and manufactured controls systems for a wide variety of applications for 30+ years. Expro design, manufacture and package solutions from legacy system refurbishments and upgrades, which can optimise and automate your operations providing you with a safe and more cost effective solution.

We install permanent electrical and hydraulic hazardous area control systems. These can include third party certified designs, software monitoring, data acquisition and automation. Our varied expertise ranges from protecting millions of dollars of assets in the offshore drilling industry to providing small portable pumping HPU's. We have the ability to deliver cold climate and portable tailored solutions. PowerChokes has the expertise to support your needs and to design packaged solutions.



## Key applications

- Hazardous area control systems
- Automation and software
- HPU's
- Programmable PRV's
- Chokes with programmed flow and pressure control

## Features and benefits

- We can provide a range of support that suits your project's needs, from new design, engineering services, legacy system upgrades, software upgrades and inspection services
- Automation of everyday processes to increase your efficiencies, reducing your downtime, improving performance, reducing exposure and ultimately increasing safety
- Data logging and acquisition for analysis, which can lead to efficiencies in your operations. We monitor your equipment's performance to assist you in diagnosing equipment maintenance and failures, which will reduce your downtime
- With over 30+ years' experience in hydraulic unit design and manufacture, we have the ability to design units that are; cost effective, for permanent install, portable, trailer mounted, lightweight, designed for ease of maintenance and hazardous area compliant
- Our chokes and pressure relief valves can be programmed to allow for safe and efficient process automations allowing for different pressure set points to be held in different scenarios without user intervention
- Expro have an expert team of engineers, technicians and a worldwide fleet of field after sale technicians to support you
- With over 15 years in hazardous area design and certification for both onshore and offshore applications worldwide
- We can offer both bespoke and standardised designs to meet your needs
- We have a range of designs which are suitable for remote locations, cloud based monitoring and solar power solutions

# PowerChokes®

## Safe area and hazardous area capabilities

Hazardous area certifications	508a & 698a panel shop, NEC 500, NEC 505, CEC 505, IECEx, ATEX and more
Hazardous area protection concepts	Intrinsically safe, explosion proof, flame proof, increased safety , purged as more as required
Hazardous area capabilities	Designed to various class, zone, temperature, IP rating, NEMA enclosure, temperature class and gas groups as required
Optional 3rd party certifiers	ABS, DNV, SIL and other 3rd party certifiers options available on request

## Software capabilities

Monitoring and data acquisition	Pressures, temperature, levels, flow rates, densities, valve positions, timing, volumes, equipment performance and maintenance and many more
Controlling	Motors (servo, stepper, VFD etc.) pumps, valve actuators, levers, conveyors
Automation	Automated control of; Pressures, temperatures, flow rates, tank levels, sequencing of actuating valves, sequencing of operations, timing based operations
Software platforms	Siemens, Allen Bradley / Rockwell, GE, Mitsubishi, Yaskawa, Schneider Electric, Beckhoff, Omron and many more

## Quality

ISO9001
On API mongogram program
API Q1

For further information, please contact: [expro.powerchokes@exprogroup.com](mailto:expro.powerchokes@exprogroup.com) or visit: [www.exprogroup.com/powerchokes](http://www.exprogroup.com/powerchokes)

