



# SHIELD PRESSURE CONTROL® MANAGED PRESSURE DRILLING (MPD) SERVICES

## APPLICATIONS

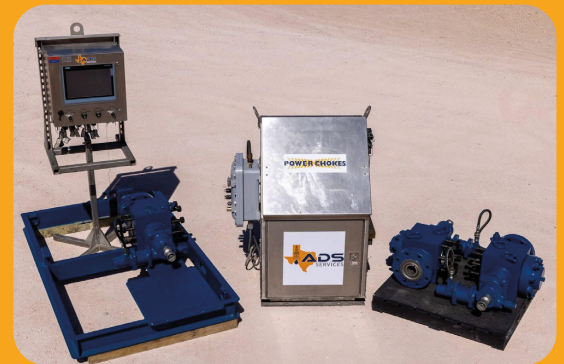
- Chokes and controls for manual operations
- Setpoint choke systems
- Full MPD services
- Coriolis and data acquisition services
- Well modeling services
- MPD and UBD operator and supervisors
- Training rig crew to run setpoint choke systems
- RCD's for closed-loop drilling
- Multi position orbit valves for low-pressure water flow

## FEATURES & BENEFITS

- Automation of drilling processes
- Ramp tables
- Pressure Relief Valve (PRV) integration
- Single or dual choke options
- Flow loop Training facility for MPD training and equipment familiarisation
- Dual sensor technology
- Data acquisition
- Rig integration

Shield Pressure Control® offers a cost-effective multi-tiered, solutions-based approach for MPD services while providing expertise and exceptional service quality.

- ✓ Shield Pressure Control® provides equipment ranging from a single manual choke to a full-scale MPD solution. Our services include: well-model engineers, experienced field technicians, well supervisors, and design engineers to provide optimally tailored solutions.
- ✓ Shield Pressure Control® designs and manufactures RCD's, Chokes, Manifolds, Pressure Relief Valves (PRVs), Multi-position ball valves, and automated control systems including our Automatic Back Pressure (ABP) System which allow us to deliver a dynamic, cost-effective, region-specific quality solution. Shield Pressure Control® equipment is designed modularly, allowing packages to be tailored for the customer, resulting in reduced footprint and cost.
- ✓ Since 2012, thousands of wells have been drilled using the Automatic Back Pressure (ABP) system throughout a variety of global locations. Shield Pressure Control® systems are reliable, and more importantly very user-friendly. The system is used to mitigate or reduce a multitude of pressure control and well issues. Our tailored solutions also acquire data for further analysis or can be integrated into the rig system to enable the sharing of data.



Shield-Lite® Package



Shield UltraMulti-position-lite



## TECHNICAL SPECIFICATIONS

| Chokes                                               | RCD's                                | ABP                                                       | Shield Ultra-Lite                                     |
|------------------------------------------------------|--------------------------------------|-----------------------------------------------------------|-------------------------------------------------------|
| API 6A & 16C Monogrammed COC and maintenance records | Single or Dual Element               | 15" touch screen HMI with optional additional remote HMIs | Pressure and position indication pneumatic controller |
| 1" to 4" trim                                        | 2,000 PSI static / 1,500 PSI dynamic | ATEX and IECEx Zone 2                                     | 1,500 PSI static / 500 PSI dynamic                    |
| API Pressure rating 2,000 to 20,000 PSI              | Lower Connection 13 5/8" 5,000 PSI   | Dual choke operation                                      | Multi position with linear pressure control           |
| H2S service                                          | Sealed bearing design                | Remote capabilities                                       | Class 1 Division 1 rated                              |
| ABS, DNV, ATEX, IECEx, NEC and CEC approvals         | API 16 RCD compliant                 | Ramp tables                                               | Designed for water flows                              |

For further questions or quotation requests, contact [Sales@Shield-PC.com](mailto:Sales@Shield-PC.com).

Visit [www.Shield-PC.com](http://www.Shield-PC.com) for chokes, controls, and PRV's, RCDs and MPD solutions.

## POWER CHOKES CAN PROVED SOLUTIONS FOR THE FOLLOWING:

- Managed Pressure Drilling (MPD)
- MPD cementing
- Drilling with casing
- Tight drilling window (pore pressure vs frac pressure)
- Increased ROP
- Lost Circulation
- Connection gas
- Mud cost reduction
- Wellbore Stability Issues
- Cross Communication / Interference
- Mitigate Mud Losses
- NPT time associated with well control issues
- Over Pressure Protection
- Ballooning
- Surge and swab effects
- Tripping pressure control issues
- Choke plugging issues
- Frac Hits (offsets)
- Assist drilling Longer laterals
- Formation mapping / Dynamic FIT / Influx test
- Water flows
- Reducing the amount of Casing string per well
- Drilling efficiency and equipment longevity
- Stuck Pipe