

# PowerChokes®

### **Automatic Back Pressure (ABP) System**

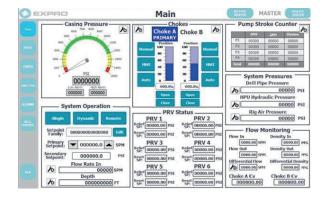
PowerChokes® ABP system uses field-proven Expro PowerChokes® technology and proprietary software for positioning accuracy, stability and reliability.

#### **Features**

- Touch screen Human Machine Interface (HMI). Capable of mounting anywhere on the rig for complete control
- Drilling connection mode feature for maintaining a constant pressure profile on the reservoir
- Automatic Back Pressure (ABP) can be used with Expro's PowerChokes – 1" to 4"
- Integration to rig systems and well modelling software
- Dual pressure sensor technology for safe operations
- Configurable with rig-up without the requirements for software updates
- Expro Pressure Relief Valve (PRV) system integration
- Electric and hydraulic choke options
- Flow meter integration
- Permanent installation or portable system design options
- Ramp tables available to automate drilling processes
- Manual or auto choke control

#### **Benefits**

- Faster connection time
- Reduces mud costs
- Mitigates and detects influxes and kicks
- Can increase the rate of penetration
- Fast response to system pressure fluctuations
- Accurate control over the entire flow range
- Extended drill equipment life (bit)
- Avoids well control issues
- Can reduce choke plugging during sand and debris producing wells
- Can manage surging and swab effects
- Training available for the end user to work with the system on their own
- Field proven technology since 2012 with an ethos of continuous improvement of the system









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# **Automatic Back Pressure (ABP) System**

Technical specificati	ions		
Automatic Back Pressure (ABP) system		ATEX, Zone 2	IECEX, US and Canada, Zone 1 / class 1 division 1 available on request
Choke models		Size: 1-4" trim	
		Application Programme Interface 6A 16C	
		ABS, DNV type approved and PED	
		ATEX and IECEX, Zone 1	
		API 5,000 - 20,000 pdi	
		Electric or hydraulic actuation available	
Conforms to:	Hydraulic controls	Electric or hydraulic pump	
	-	Designed for use in extreme high and low temperatures	
		Blind panels, local gauge, push button and level control and Human Machine Interface (HMI) control available	
		Zone 1 certification	
	Electric controls	Compact and low maintenance	
		Minimum IP65	
		Zone 1 certification	
		Local and remote electrical controls available	
Material information	 I	Chokes - H2S service - NACE MR0175	
		Application Programme Interface (API) material class up to EE-NL and temperature class PX	
		625 Inconel clad ring grooves and seal areas	(optional solid tungsten carbide trim and wear sleeve
		Hydraulic Power Unit (HPU) and electric control panels 316SS enclosure, NEMA 4X, IP65 ingress protection	

Note: Other sizes, configurations and pressure ratings are available to meet most applications, for more information contact your local Expro representative or email expro.powerchokes@exprogroup.com