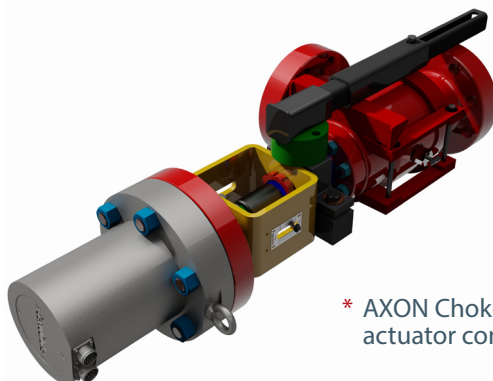


Chokemaster™ Drilling Choke

Available in manual, hydraulic and electric servo motor actuation, AXON's Chokemaster™ Drilling Choke features a modular design that can be customized to specific rig requirements, as well as adapted when these requirements evolve. This ability to configure a basic valve platform with à la carte operation selections, in addition to maintaining complete spares interoperability within the equipment fleet, allows for ultimate flexibility. Featuring industry-leading, low-range controllability, the gate and seat assemblies are also reversible for two complete seal and wear areas. Furthermore, our drilling choke's improved bonnet design allows for increased wear life.



* AXON Chokemaster™ shown with electric actuator configuration and optional davit arm

SPECIFICATIONS

Certifications

- Designed and manufactured per ISO 10423 (API 6A) for Wellhead and Christmas Tree Equipment
- Available in all temperature, material classes, and PSL levels according to ISO 10423 (API 6A)
- Forged materials rated for H₂S service per ISO 15156-1 (NACE MR-0175)
- Choke control consoles are designed to API Specification 16C for Choke and Kill Systems

Technical Details

- Inlet and outlet sizes 3-1/8", 3-1/16", or 4-1/16" bore in a 90° body configuration
- 5,000 to 20,000 psi (34.5 to 138.0 MPa) maximum working pressures
- Orifice sizes available in 1.75", 2", and 3" nominal diameters
- Base valve assembly interchangeable between all manual and remote actuation options
- Reversible gate and seat provides double wear surfaces

FEATURES / BENEFITS

Manual Actuation

- Thrust bearings reduce torque, even with full-rated bore pressure in the body cavity
- Non-rotating stem utilizes actuation from threaded members protected from the bore fluids
- Grease fitting on manual actuator facilitates lubrication of the bearings and threaded members
- Standard manual actuator features position-locking device to allow precise gate to seat location control
- Optional gear reduced manual actuator available

Chokemaster™ Drilling Choke

FEATURES / BENEFITS

Remote Actuation

- Available actuation options include: double-acting piston, hydraulically-driven worm gear, or electric
- Conventional piston hydraulic actuators available in 300 or 1,500 psi to match existing choke control system operating pressures
- Choke control consoles available in single or dual choke operation
- Choke control consoles include enhanced features for fine position control
- Battery-operated pump stroke counters, choke position indicator, remote manifold pressure transmitter gauge, and manual pump back up are provided in the choke control consoles
- Choke gate position is relayed to choke console by a low-pressure air signal from the actuator of the choke
- Optional electronic remote position indication signals are available per customer requirements

Valve Assembly

- Solid tungsten carbide gate and seat are reversible for two complete seal and wear areas, resulting in superior economic value in service
- Enhanced trim offers increased controllability over legacy trim designs
- Optional davit arm allows for quick, one-person change out of trim
- Operator surfaces exposed to flow are hard-faced to reduce erosive wear
- Bonnet/nose can be rotated to any position for increased wear life
- Single valve platform utilized for all types of actuation; common parts are used for all manual and remotely-actuated chokes
- Removal and replacement of actuator (or conversion to alternate type) can be accomplished quickly and without removing choke from service or de-energizing seals
- Visual position indication is standard with all actuation options (manual or remote)
- Included standard bleeder valve allows complete venting of body pressure prior to service
- Fewer specialized tools required for field service, resulting in easier maintenance
- Includes feature to protect valve from backflow damage

Flow Capacity Performance Chart

