

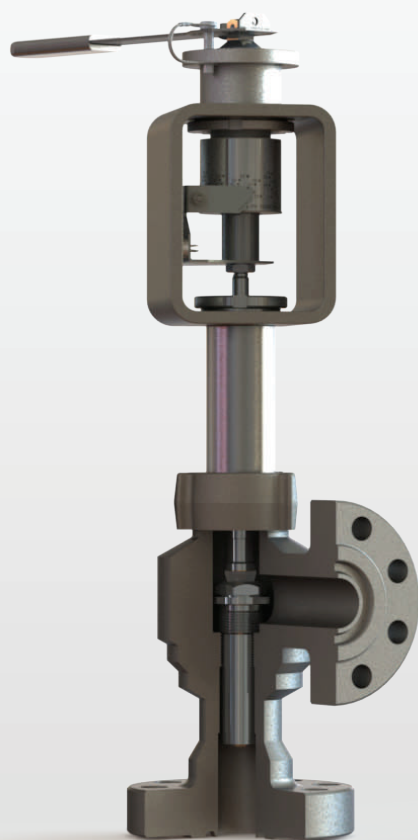
# LANCASTER

## FLOW AUTOMATION

### CH Series “Low Torque” Production and Flow-Back Choke

Lancaster Flow Automation is continually developing engineered products and solutions to meet the demands of our dynamic industry. The CH Series Production and Flow-Back Chokes offer the ability to remotely control well production flow at the wellhead with a more conventional type choke body. Our electric actuated chokes can be remotely controlled or monitored through your Smartphone, Tablet or PC. Lancaster uses a small lightweight electric actuator with a 100% duty cycle 24vDC motor that can be easily integrated into existing SCADA for precise accuracy and control. Our electrically controlled chokes can be programmed through SCADA systems to maintain a set pressure rating or flow rate. Throttling has never been easier than with Lancaster Automated Chokes. Contact Lancaster to have our technical sales staff size your next production choke requirements.

#### Manual Adjustable



#### Key Features:

##### CH Choke

- Extremely low operating torque
- Stainless steel micrometer style indicator
- Needle and Cage Trim with tungsten carbide
- 4130 or 410 stainless steel body
- Quick simple trim change
- Stem change requires no bonnet dissassembly
- Compatible with many actuators

##### Actuator:

- 12-24vDC
- 100% Duty Cycle Motor
- Solar Capable
- Very Accurate Command and Feedback Signal
- Declutch Manual Override
- Quick Simple Installation and Calibration
- Responds to 4 Analog Command and Feedback Signal (0-5 vDC, 0-10 vDC, 1-5 vDC or 4-20 mA)
- Digital Board
- High Resolution Controller
- Heavy Duty Cam Limit Switches
- Current Limit Switches
- Signal Loss Options

#### Electric Actuator Option



#### Available Sizes & Pressure Ratings:

- Standard API and ANSI Flange Sizes from 1-13/16" to 5-1/8"  
Other options available upon request
- Pressure Rating up to 15,000 PSI WP
- Orifice Sizes 3/4" up to 2.22"

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#### Key Safety and Operational Benefits:

- Approx 90% less operating torque than conventional and commonly used designs
- 1.8ft/lbs of operating torque required per 1,000 PSI
- Safely operate choke under pressure without the need of a “Cheater Bar” or “Pipe Wrench”
- Bearing Housing is isolated from flowing pressure
- Non-Threaded and Non-Rotating Stem
- Linear moving stem is not affected negatively by pressure in the Packing Housing
- Bonnet does not require disassembly to change stem as with conventional and commonly use designs
- Packing remains in Packing Housing during stem changes
- Quicker trim change and less downtime then conventional and commonly used designs
- You can safely convert from a manual to an automated choke by installing our electric actuator while the choke is in service.

