

NX1 WELL CONTROL/ EXTREME SERVICE CHOKE

CORTEC is setting industry standards with field adaptable choke designs. CORTEC Well Control/Extreme Service Chokes are engineered and manufactured to offer the oilfield operator increased service life and cost savings in high-pressure applications where substantial amounts of solids and abrasives are present. CORTEC manufactures a complete line of extreme service chokes that are designed to maximize performance within abrasive applications like well control, drilling, frac flowback, coil tubing, and snubbing.

The CORTEC NX1 Well Control/Extreme Service Choke is a field-proven hydraulic choke model designed to increase service life while providing a significant amount of cost savings and efficiencies during harsh drilling applications. We are thrilled to be able to offer our customers this unique compact choke and control solution that requires minimal maintenance in the field.

CORTEC uses only the highest quality materials to manufacture some of the most innovative yet easy to use choke designs known today. Each design is adaptable to meet changing well flow conditions over the life in the field.

APPLICABLE INDUSTRY STANDARDS

- API-6A, PSL-3, PR-2, TC-PU, MC-EE Standard
- NACE MR0175, Latest Edition
- ABS-CDS *(available upon request)*
- DNV-OS-E101 *(available upon request)*

CHOKE MODEL OVERVIEW

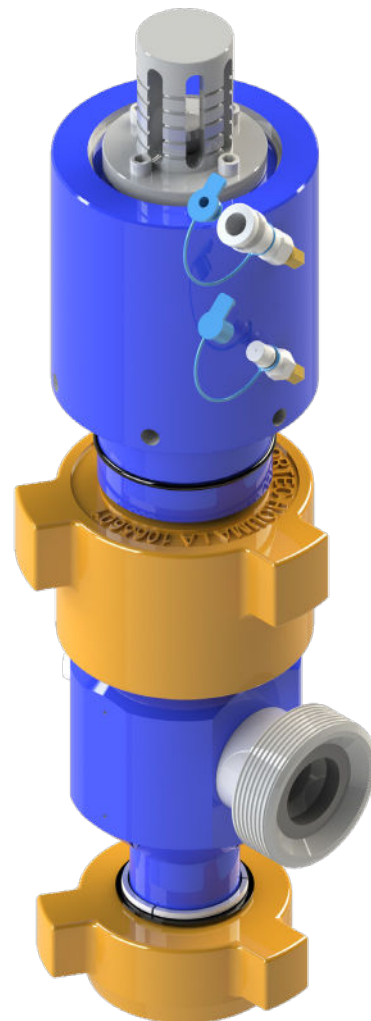
- Available in the following Operator Configurations
 - Double Acting Hydraulic Piston
- Standard applications: up to 15K
- NACE applications: up to 10K
- End Connections: 1502 Hammer Union *(additional options available upon request)*
- Utilizes plug and seat trim design to achieve desired flow characteristics
- Tungsten Carbide plug and lined seat for wear prevention and sustainable life
- Available in 1.00" orifice configuration
- Ease of serviceability
 - Ability to replace components when needed in a quick and easy manner
 - Service tools available to reduce field service time
- Wear resistant nose cone for extended wear protection
- Local visual indicator or optional digital indication
 - Digital feedback= 4-20 mA

HYDRAULIC CONFIGURATION DETAILS

- Max Hydraulic Input: 1,500 PSI
- Double Acting Piston: *Swept Volume = 35 cu./in.*
0.30 GPM [0.57 Liters @ 1.14 LPM] capable of closing within 30 seconds
- DNV-OS-E101 *(available upon request)*

TECHNICAL DETAILS

- Mechanical Stroke Length: 1.875" Full Stroke in either direction
- 0.87" Maximum Debris Clearance



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CORTEC MODEL NX1 CHOKE

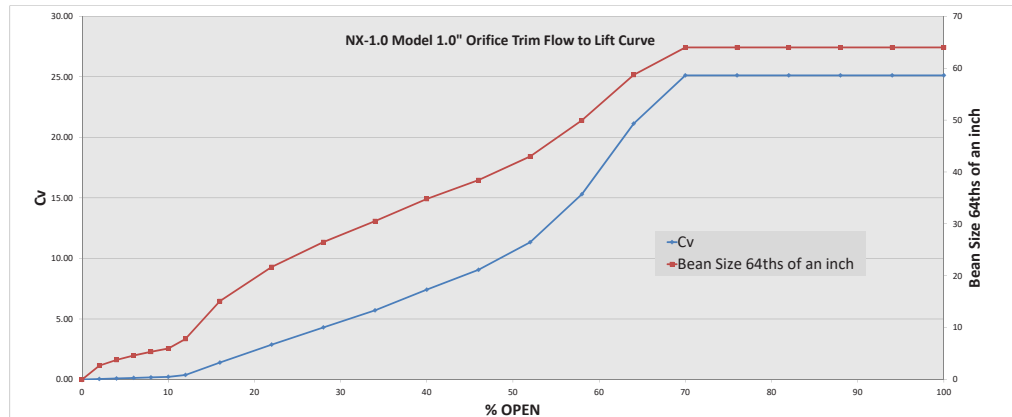
REMOTE OPERATION AND INCREASED SERVICE LIFE

The NX1 choke offers a compact, 2-inch, 1502 choke layout and is an ideal option to control pressure and flow rates for drilling applications via remote operations. With a lightweight design, the NX1 is easily adapted into existing manifolds and offers a range of union or flanged end connections.

Field tested and proven to increase service life when compared with other OEM choke options, the NX1 is rated up to 15,000 PSI CWP and has a 1-inch maximum orifice. During testing, the NX1's internal trim components performed twice as long as other OEM brands. Additional features include both digital and local visual trim position indication and a wide range of hydraulic choke control console options.

FLOW TO LIFT FLOW CURVE

1.00" Orifice Trim



NX1 CHOKE FIELD TEST COMPLETED

CORTEC has successfully completed the field trial of the new remotely operated NX1 model hydraulic choke. The NX1 is an ideal option for applications requiring a compact 2" 1502 choke layout where remote operation is preferred. Designed to fit within the place of a standard 1502 Choke Tee, the NX1 is easily adapted into existing manifolds. The Choke is offered with a range of union or flanged end connections. This lightweight design offers a 1" maximum orifice and is rated up to 15,000 PSI CWP.

Field testing has confirmed substantial increased service life during harsh flowback operations when compared with other OEM choke options where CORTEC internal trim components have lasted more than 2X longer during the same testing period. Additional features include both digital and local visual trim position indication and a wide range of hydraulic choke control console options.

This design requires minimal maintenance and can be easily serviced by the end user in the field.



Contact our expert **Sales Team** today for more info at **985-223-1966** or **sales@uscortec.com**

No other manufacturer strives to exceed their customers' needs and expectations more than CORTEC.



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