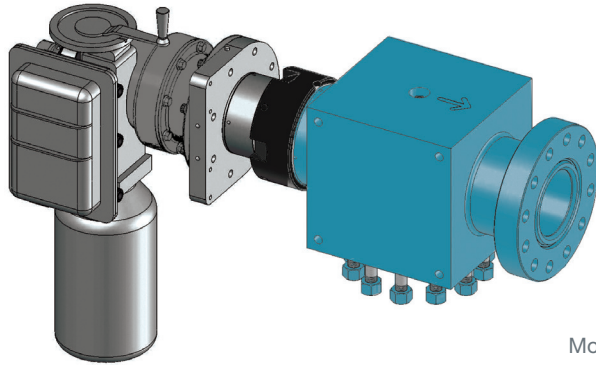
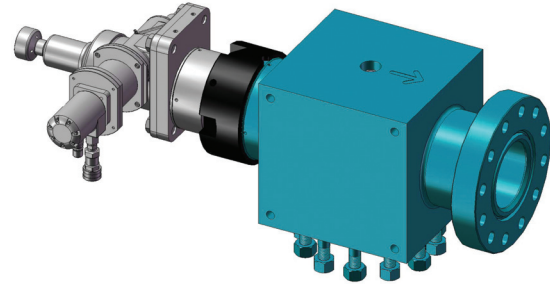


## Model SCE Large-Bore Drilling / Production Choke

The Model SCE is a forged body, large-bore drilling and production choke for severe service, available as an Adjustable or a Positive model.



Shown with an Electric Actuator



Model SCE Chokes

Shown with a Hydraulic Actuator

### Features:

#### Adjustable Choke

- Worm gear drive actuator – eliminates backlash and provides precise control; self-locking to prevent movement even if hydraulic pressure is lost.
- Quick change actuator – no need to disconnect hoses for removal. Trim can be changed in 15 minutes or less without removing the choke from the line or breaking into the manifold.
- Accommodates 4 3/8" – 6" trim size
- Manual override capability - provided on all worm gear-operated hydraulic chokes in case of power loss.
- Other types of actuator available – in addition to the exclusive modified worm gear actuator, our chokes are available with hydraulic piston, electric or manual actuators.
- Solid tungsten carbide gate and seat – proven design provides maximum erosion resistance. Gate and seat are precision-ground to provide drop tight shutoff.

#### All Chokes

- Pressure balanced trim – reduces operating forces, whether the choke is operated manually or automatically. Large balance ports provide protection against clogging.
- Downstream wear sleeve and retainer ring – extended-length solid tungsten carbide seat provides wear protection downstream and a smooth transition for fluid into the downstream piping.
- Large buffer cavity – slows velocity and distributes impact of solids, maximizing trim life.

#### Actuator Manipulator Option

- Allows one-man, in-line servicing of chokes
- No lifting device required
- 15-minute service time

#### Control Consoles

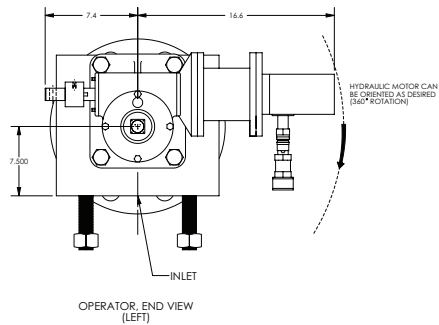
- Offer operation for one, two or more chokes and / or hydraulic control valves
- Speed adjusts to allow fast or slow choke movement
- One or two hydraulic pumps plus manual backup hydraulic pump
- Bourdon tube hydraulic pressure gauges or digital pressures gauges available
- Digital position indicator gauge standard
- Accumulators available for power backup or to smooth choke operation

#### Chokes supplied with:

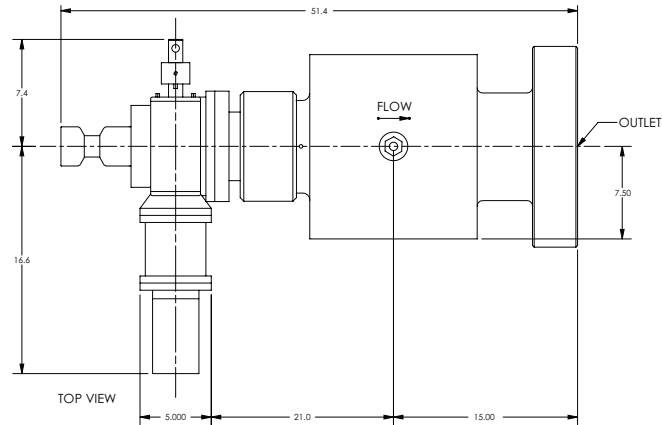
- Bleeder port to bleed pressure from choke body prior to choke bonnet removal for inspection or maintenance.
- Studded inlet X flanged outlet standard. Flanged inlets available.
- 4-1/16" inlet X 7-1/16" outlet standard for use in API 3M or 5M service.
- Other inlet and outlet sizes available.

## Model SCE Large-Bore Drilling / Production Choke

### Technical Data:



Hydraulic Actuator Model



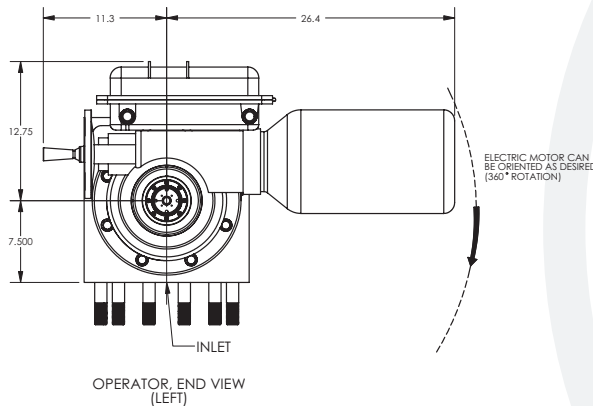
### Standard Configuration

Reversible, balanced, erosion-resistant trim

Pressure Ratings Available	API 3,000; 5,000 psi
Inlet Size Ranges	4-1/16" to 7-1/16"
Outlet Size Ranges	4-1/16" to 7-1/16"
Trim Sizes Available	4-3/8" to 6"
Testing	API 6A, API 16C
Body Material	API 75K, Impact Tested IAW NACE MR0175 / ISO 15156
Throttling Trim Material	Tungsten Carbide
Seat Material	Tungsten Carbide
Seat Leakage	Drop Tight
API Temperature Ranges	
Standard	-20°F to +250°F (-29°C to +121°C)
Optional	-75°F to +350°F (-60°C to +177°C)
API 6A PSL	1 - 3, 3G
API 6A PR	1 - 2

### General Design Specifications

Maximum Open for Controllability	85%
Minimum Open for Controllability	2%
Maximum Exit Velocity	1.0 Mach
Max. Downstream Velocity (Gas)	0.3 Mach
Max. Downstream Velocity (Liquid)	100 - 200 ft/sec
Hydraulic Operating Pressure	1,800 - 2,000 psig
Shut Off (Exceeds ANSI Class V)	Drop Tight
Electrical Parameters for Electric Actuator Model Only	380 / 460 / 480 VAC, 3-phase, 50 / 60 Hz, Atex Certification
Throttling Pressure Drop	Full-Rated Pressure



Electric Actuator Model

