PowerChokes®

Model SCB4 All-Purpose 4” Choke

The Model SCB is a forged body, all-purpose severe service choke which is available with electrical, hydraulic or manual actuation.

Features and benefits
- Accommodates 3” and 4” trim size. Extended stroke allows for large debris tolerance and higher Cv value that allows higher flow rates at lower pressures
- Worm gear drive actuator – eliminates backlash and provides precise control; self-locking to prevent movement even if actuation control is lost
- Quick change actuator – no need to disconnect hoses or cables for removal. Trim can be changed in 15 minutes or less without removing the choke from the line or breaking into the manifold
- Manual override capability provided on all worm gear-operated hydraulic and electric chokes in case of power loss
- Reversible gate and seat assembly – provides two uses per piece, saving parts, reducing operating costs and maximising efficiency. This can be reversed in the field
- Solid tungsten carbide gate and seat – field proven design allows maximum erosion resistance. Gate and seat are precision-ground to provide drop tight shutoff. Custom geometry allows excellent pressure control over larger stroke

Benefits
- Small footprint; compact design
- Fast response choke movement
- Low stroke time exceeding API requirements
- Easily retrofit from hydraulic to electric
- Less than + 0.1% choke control position

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

Adjustable Chokes supplied with:
- Bleeder port to bleed pressure from choke body prior to choke bonnet removal for inspection or maintenance
- Studded inlet flanged outlet standard. Flanged inlets available
- Position indication
- Hand wheel
- 4½” inlet X 5½” outlet standard for use in API 5M
- Other inlet and outlet sizes available

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Technical specifications
- Standard configuration: Reversible, balanced, erosion-resistant trim
- X & Y: 7,000 & 13,500
- Pressure ratings available: API 5,000
- Inlet size ranges: 41/16” (adapters available on request)
- Outlet size ranges: 5 1/8” (adapters available on request)
- Trim sizes available: 3” or 4”
- Debris clearance: 2”
- Specifications: API 6A, API 16C, ABS, DNV
- Hazardous area approvals: IECEx Z1, ATEX, Z1, US & Canada Class 1 Div 1
- Body material: API 75K, Impact tested, NACE MR01-75
- Throttling trim material: Tungsten carbide
- Seat material: Tungsten carbide
- Seat leakage: Drop tight
- Cv: 3” trim Cv 300, 4” trim Cv 450
- Hydraulic choke operating pressure: 1,500psi
- Electric choke power requirements: 230VAC or 460VAC 3 phase
- API temperature ranges
  - Standard: PU or PX, -20°F to +250°F or -20°F to +350°F
  - Material class: EE-360 or EE-NL
  - API 6A PSL: 1-4, 3G
  - API 6A PR: 1-2
  - Standard X & Y: 5.625” x 13”

API spools and adapters provided as required.

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