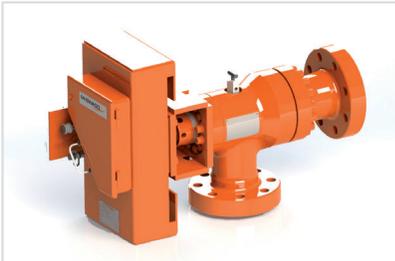


# SUPERCHOKE AND SUPERCHOKE CONSOLE



## FEATURES

- Built for the oilfield
- Precision engineered
- Handles 5,000 to 15,000 psi (345 to 1,034 bar)
- Unique choke-plate design
- Provides positive closure
- Tungsten-carbide wear sleeves extend in-service life
- Versatile for onshore and offshore applications

## BENEFITS

- Delivers precise well control
- Seal actually improves under pressure
- Controls can be operated from either remote or onsite consoles

The M-I SWACO 5,000-psi (345-bar), 10,000-psi (689-bar) and 15,000-psi (1,034-bar) SUPERCHOKE<sup>†</sup> drilling chokes are the most widely used and respected well-killing and high-pressure-control drilling chokes in the industry.

Since 1965, these chokes have been especially effective when used during well kicks, well testing and well cleanup operations. They are designed and manufactured for H<sub>2</sub>S and abrasive-fluid applications and in accordance with API and NACE standards.

## How it Works

### High-pressure rating

Built to handle 5,000 to 15,000 psi (345 to 1,034 bar), the M-I SWACO SUPERCHOKE is precision engineered for precise well control.



### Unique choke-plate design

Heavy-duty, diamond-lapped tungsten-carbide plates are honed to a flatness measured by light bands and feature unique half-moon-shaped orifices. Rotation of the actuator fork allows finite regulation of the size of the opening from full open to full close.

### Positive closure

A 17° dead band overlap beyond the full-close position is designed to ensure closure even if the plates become worn following extended exposure to abrasive- laden fluid flow. Pressure drops or surges don't affect the quality of the seal in the plate-to-plate design. In fact, the seal improves under pressure.

### Tungsten-carbide trim

Tungsten carbide wear sleeves increase in-service life. The extended wear sleeve absorbs the effects of abrasive downstream turbulence, especially during underbalanced drilling operations.

### **Versatile**

Ideal for onshore and offshore applications. Controls can be operated from either remote or onsite consoles.

### **Three Methods of Operation**

- Normal operations: Activation is rig-air operated.
- If rig air is lost: Activation is manual with hydraulic pump located on remote-control skid.
- If hydraulic lines are severed: Activation is manual with bar provided on the choke indicator head.

### **Compliance**

M-I SWACO designs, manufactures and monograms in accordance with API 6A, API 16C, and NACE MR0175.

### **SUPERCHOKE Control Consoles**

M-I SWACO SUPERCHOKE choke-control consoles are available as single- or dual-choke-control units and with standard pressure gauges or digital gauges.

The single-choke-control console is precision-built to provide accurate control of your operation, yet is built to withstand the harshest conditions. It operates either hydraulically or manually and is self-contained and skid-mounted for easy installation on or near the rig.

A key feature of the console is the large easy-to-read gauges which monitor critical drill- pipe and casing pressure. A choke position indicator shows relative plate opening from "full open" to "full close." The dual-choke-control console provides a separate valve to regulate chokes from independent hydraulic systems during special applications. An operator has full command of both chokes without switching controls. The dual unit offers all the benefits of the single-choke-control console. For greater space efficiency, it features the same footprint as the single-choke-control console.



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