

200 Series choke valves

Choke valves that succeed for every need



Choke 200 Series

TechnipFMC's 200 Series Choke Valves are a high-performance family of choke valves expertly designed for a broad range of applications, including production, injection and manifolds.

The 200 Series choke valves are the result of our continued commitment to product research and development in the oil and gas industry. We have a proven track record of delivering technical solutions for our customer base stretching back decades. The 200 Series has evolved from years of product experience and incorporates the latest in material and manufacturing techniques. Each choke valve is designed, manufactured and tested in accordance with API 6A and can be fabricated to various material classes and product specification level.

A wide variety of product configurations are available to meet every client need.

Applications

- ▶ Production
- ▶ Injection (water/gas)
- ▶ Line heaters and separators
- ▶ Drilling Manifolds
- ▶ Well testing and clean-up
- ▶ Gas lift
- ▶ Pumps recirculation loop

Technology and benefits

- ▶ Patented non-elastomeric UV stem packing
- ▶ Qualified to API 6A Appendix F PR2
- ▶ Robust field proven technology
- ▶ Choke sizing tool for optimal configuration selection
- ▶ 6FA qualification
- ▶ Extensive testing program including erosion, sand slurry and CV testing
- ▶ Metal-to-metal seal technology
- ▶ Global service infrastructure
- ▶ Optimised supply chain and manufacturing



The 200 Series Choke Valves

- ▶ 200P positive choke
- ▶ 200N needle and seat choke
- ▶ 200C cage choke

Other choke products

- ▶ Actuated chokes
- ▶ Actuated with control systems
- ▶ Choke manifolds
- ▶ Weco® 1502 choke



200C cage
choke valve

Our choke products

200C cage choke valve

The 200C cage choke valve shares trim design with its subsea counterpart while being adapted to surface business needs.

This robust design offers superior flow management with its equal percentage flow characteristic trim. The cage and plug design uses solid tungsten carbide inserts which makes it capable of meeting the most demanding applications.

The 200C choke valve body flow gallery and trim has been optimised through extensive engineering and testing to maximise choke valve flow capacity.

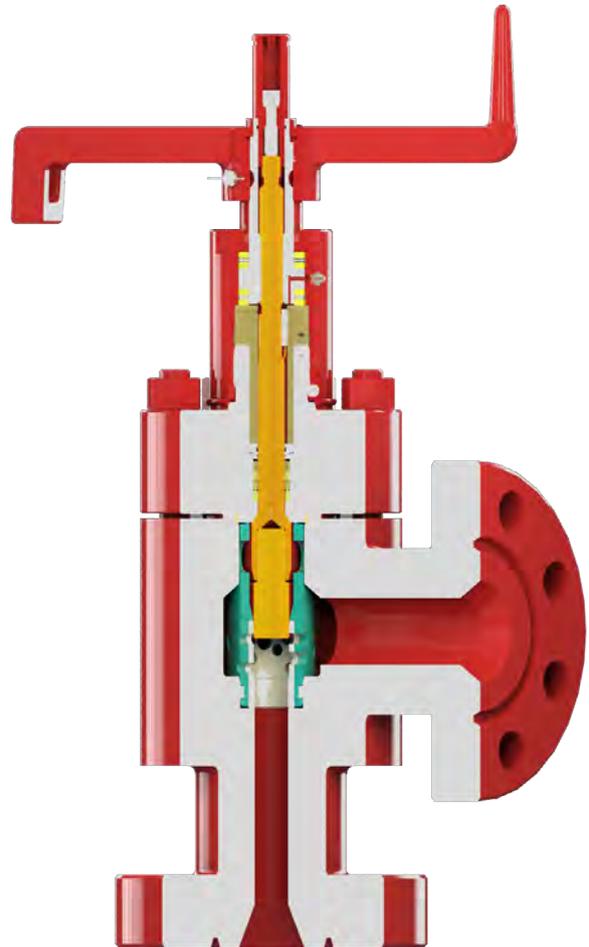
Choke valve cage or body end connection can be tailored to specific application needs. A wide range of actuation options are available.

Benefits

- ▶ Metal-to-metal sealing technology
- ▶ Superior erosion resistance and controllability
- ▶ Exceptional service life and operating reliability
- ▶ Suitable for actuation and remote control
- ▶ Patented UV stem seal packing

Options

- ▶ 6FA configurations available
- ▶ Outlet tungsten carbide sleeve
- ▶ Customised trim to meet specific application



200C specifications

Nominal size: 2" to 4"

Working pressure: Up to 10K

Temperature: -50°F to 350°F

PSL: PSL-1 to PSL-3G

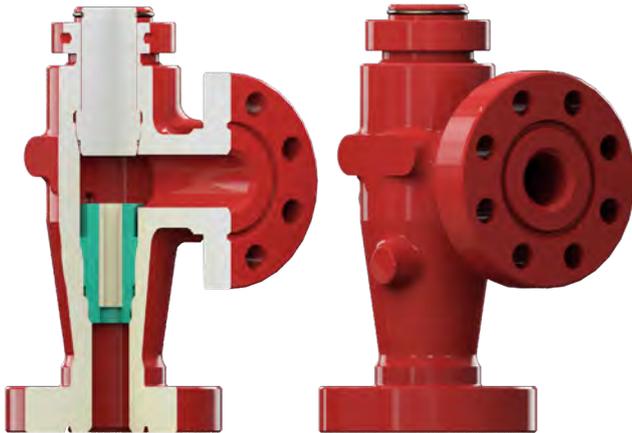
Material class: BB to HH

200P positive choke valve

The 200P positive choke valve is the initial design that was used to reduce pressure during hydrocarbons production. The simple design uses an angle body outfitted with a threaded replaceable bean with an orifice and capped by a blanking bonnet. The 200P positive choke valve is available in all standard sizes. It features an integral body, interchangeable beans and optional bonnet removal safety bracket

Benefits

- ▶ Cost effective
- ▶ Minimal field maintenance
- ▶ Easy bean replacement and field repair
- ▶ Easy conversion to adjustable configuration



200P specifications
Nominal size: 2" to 5"
Working pressure: Up to 15,000 PSI
Temperature: -20°F to 250°F*
PSL: PSL-1 to PSL3
Material class: BB to HH

*extended temperature option available

200N needle and seat choke valve

The 200N needle and seat choke valve is the adjustable version of the 200P positive choke valve. A rising and rotating stem operated through a handwheel will allow user to easily adjust the choke to the required setting. The 200N choke valve is available in all standard sizes and with various trims. Reduced operating torque and interchangeable seats are standard. The 200N features an integral body bleeder valve and optional bonnet removal safety bracket.

Benefits

- ▶ Cost effective
- ▶ Easy field repair
- ▶ Low-torque design
- ▶ Easy conversion from adjustable to positive configuration



200N specifications
Nominal size: 2" to 4"
Working pressure: Up to 10,000 PSI
Temperature: -20°F to 250°F*
PSL: PSL-1 to PSL3
Material class: BB to HH

*extended temperature option available

Other choke products

- ▶ Actuated choke valves with control system
- ▶ Choke manifolds
- ▶ Weco® 1502 choke

TechnipFMC's choke solutions range from individual chokes to integrated systems incorporating choke valves with our other industry leading technologies.

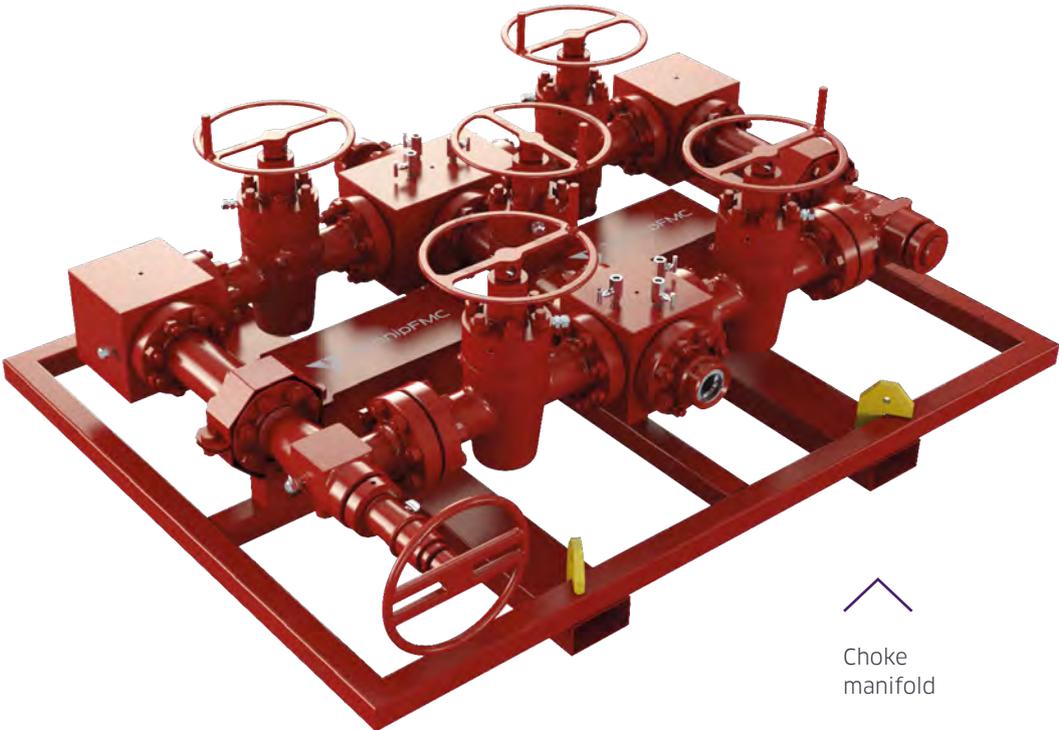
Contact a TechnipFMC representative for product configurations not listed here.



Electric actuated choke



Weco® hammer union choke



Choke manifold

Our global reach

Service has long been a key differentiator for TechnipFMC, supporting our clients around the world with a full range of services on a 24/7 basis. We support your operations from our strategically located field bases by providing responsive service, quality equipment and local expertise. Our commitment to HSE, quality and service excellence ensures our clients' success with no surprises.

Your committed local partner maximizing value through seamless execution and innovative solutions

Chokes service and aftermarket activities:

- ▶ Rig-up and rig-down on-site as required
- ▶ On-site operating services
- ▶ In-field maintenance during operations
- ▶ Refurbishment



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