

# Plug & Cage Manual Choke Valve

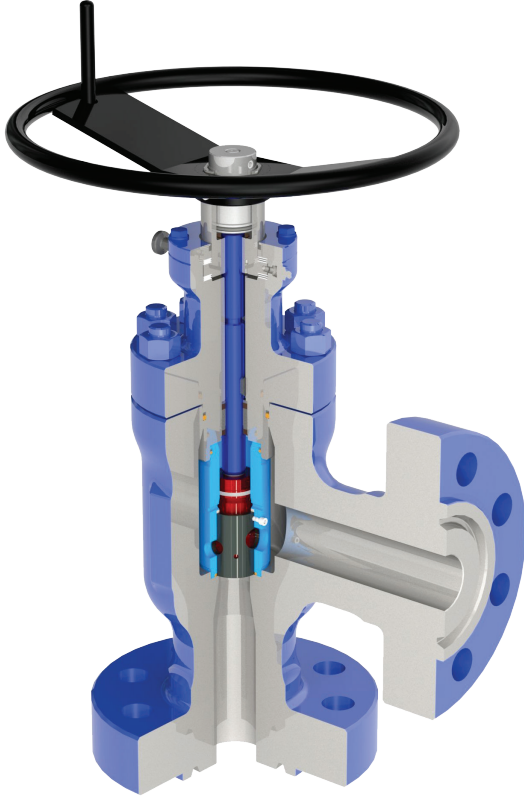
CCM Series



## DESCRIPTION

The QUAM **CCM Series** is an **Internal Plug & Cage Manual Choke Valve** complete with Handwheel Manual Override

## THE VALVE



## TECHNICAL SPECIFICATIONS

<b>Valve Action</b>	Clockwise to Reduce Flow
<b>Operated</b>	Handwheel / Gearbox
<b>Valve Size Range</b>	API-6A From 1 13/16" through 11" ANSI From 2" through 12"
<b>Valve Pressure Ratings</b>	API-6A From 2.000 through 20.000 PSI ANSI From 150 through 2500 lbs
<b>Valve Connections</b>	Flanged, Studded, Butt weld, Hub or Customized Connections
<b>Operating Media</b>	Oil, Natural Gas, Water and any combination of them
<b>Operating Temperature</b>	-60° C to +250° C
<b>Shut-off Class</b>	ANSI/FCI Class IV as standard Class V & VI available on request

## GENERAL APPLICATION

**CCM** is the Choke Valve suitable for installation on Christmas Trees, Choke & Kill or Production/Water injection Manifolds with High pressure Drop applications as well as suitable for Severe Service applications

## KEY FEATURES

### Trim Design

Ported Cage with Internal Plug trim design is available with Equal % or Linear characteristic. The flow passing across the cage impinges on itself and so turbulence and throttling wear are dissipated in the centre of the valve and not on valve outlet. The valve is provided with spacer

### Erosion Resistant Trim

Valve Trim in Solid Tungsten carbide to provide the best wearing resistance

### Metal To Metal Sealing

Without soft parts it is improved sealing performance with any process fluid

### Position Indicator

AISI 316 SS Engraved Position Indicator available in Micrometric or Bean Size (1/64") scale

### Locking Device

Stem Locking device provides safe valve positioning and holding the set point

### No Threads in Valve Body

Trim Components are not Screwed in the Valve Body in order to facilitate disassembly

### Proprietary Stem Packing Design

QUAM experience have been put in a special Stem Packing design for Smooth Operation, long life service and low emissions

### Heavy Duty Thrust Bearings

High performance Thrust Bearings allow less load on the handwheel and easy operation

### Exceed PR-2 Requirements

CCM Series Choke valves performance exceed API-6A PR-2 requirements

## BENEFITS

### Exceptional Flow Control

Valve Trim is designed to perform an accurate Flow Control

### Customized End To End Dimensions

The possibility to customize end to end dimensions allow the users an easy replacement without pipeworks

### Heavy Duty Construction

Valve is specially designed to improve reliability, Italian origin of Forging materials is the guarantee of Valve quality

### Easy & Safe Maintenance

Special considerations in design are made to permit a safe disassembly of the pressure containing components

### No Special Tools

CCM valves disassembly can be executed without any Special Tool, only Standard Wrenches are requested

### 100% ITALIAN MANUFACTURING

QUAM Valves are Engineered and Manufactured entirely in Italy

## CERTIFICATIONS

API-6A (Up to PSL-4)

PED 2014-68-EU

ATEX 2014-34-EU

MACHINERY DIRECTIVE 2006/42/EC

FIRE SAFE API-6FA (Available on request)