

# Sleeve & Cage Hydraulic Choke Valve

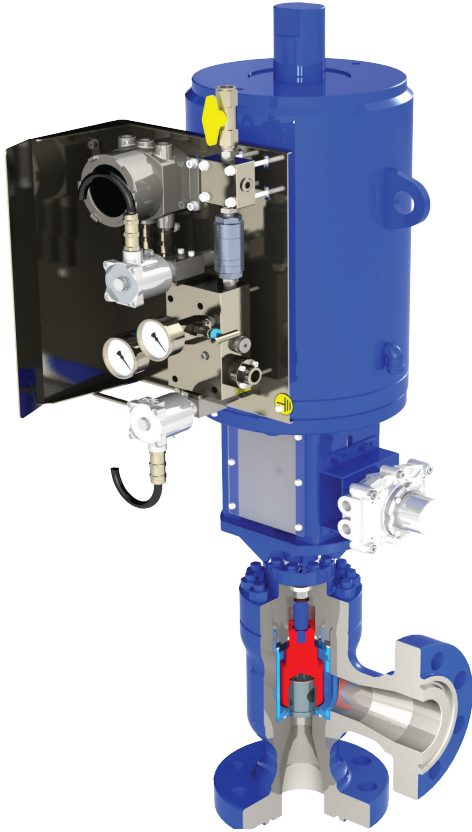
PCH Series



## DESCRIPTION

The QUAM **PCH Series** is an External **Sleeve & Cage Choke Valve** complete with Single Acting Hydraulic Actuator

## THE VALVE



## GENERAL APPLICATION

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

## KEY FEATURES

### Trim Design

Ported Cage with External Sleeve 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 retaining sleeve

### Erosion Resistant Trim

Valve Trim can be supplied in Hardened Stainless Steel or 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 Bean Size (1/64") scale, % opening, CV factor

### 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

### Actuator Characteristics

Hydraulic oil pressure is applied only to one side of the piston. In case of emergency the actuator goes in fail open or close position

### Exceed PR-2 Requirements

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

## TECHNICAL SPECIFICATIONS

**Valve Action** Hydraulic open or close spring return

**Operated** QUAM Hydraulic Actuator

**Valve Size Range** API-6A From 1 13/16" through 11"  
ANSI From 2" through 12"

**Valve Pressure Ratings** API-6A From 2.000 through 20.000 PSI  
ANSI From 150 through 2500 lbs

**Valve Connections** Flanged, Studded, Buttweld, Hub or Customized Connections, Hummer union

**Valve Operating Media** Oil, Natural Gas, Water and any combination of them

**Actuator Operating Media** Hydraulic Fluids as Mineral Oil.  
Water Based Fluid on Special Execution.  
(special media compatibility available on request)

**Operating Temperatures** -60 °C to +250 °C

**Shut-off Class** ANSI/FCI Class IV as standard  
Class V & VI available on request

## 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

PCH 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**