

# CM25A

Globe pattern, 3/16" (5mm) bore, 10000 psig - 689 barg hand valve

## Product Overview

The CM25A (10,000 psig - 689 barg) barstock construction needle valve is designed for multiple applications wherever throttling or bubble-tight shutoff is required. The CM25A is available in a wide variety of inlet & outlet configurations and materials. Specific CM25A models meet the requirements of NACE MR0175-2002. The CM25A is available with Teflon® or Grafoil® packing or an O-ring seal. To simplify installation requirements the CM25A series can be factory configured with various manufacturers tube fittings.

## Features:

- Available with either ball or needle stem ends, providing bubble-tight shutoff and ensuring long valve life. The non-rotating ball tip eliminates seat galling.
- All valves are available with a panel mount system option - consult factory.
- All valves are hydrostatically tested to rated pressure prior to factory shipment.

- Full material traceability is standard on each CM25A. All valves are shipped standard with full material documentation for wetted components.
- Either the Teflon® or Grafoil® packing is easily adjustable in field.
- All packing is below the threads which ensures the valve's actuation threads are not contaminated by the process. This feature ensures smooth valve operation and long service life.
- All CM25As feature safety back seating ensuring the prevention of both accidental stem blowout and removal under pressure.
- Standard dust covers ensure long service life by preventing the elements (rain, snow, dirt, etc.) access to the bonnet assembly.

## CM25A Ordering Code:

**CM25A 1 M44T C G SC**

### Materials:

- 1: SS - 316/316L (meets NACE MR0175-2002)  
 2: CS/SS - A105 CS Body w/ SS Trim (meets NACE MR0175-2002)  
 3: CS - A108 CS

(Other construction materials available - consult factory)

### Inlet / Outlet Connections:

#### Standard threaded connections:

- M22T: 1/4" MNPT x 1/4" FNPT  
 F22T: 1/4" FNPT x 1/4" FNPT  
 M44T: 1/2" MNPT x 1/2" FNPT  
 F44T: 1/2" FNPT x 1/2" FNPT  
 M64T: 3/4" MNPT x 1/2" FNPT

### Bonnet Assembly:

- A: O-ring, Needle tipped stem end  
 C: Adjustable packing, Rotating ball tipped stem end  
 CN: Adjustable packing, Needle tipped stem end  
 F: Adjustable packing, Rotating ball tipped stem end (required for 1/4" inlets only)  
 FN: Adjustable packing, Needle tipped stem end (required for 1/4" inlets only)

### Packing:

- A: Aflas® O-ring  
 V: Viton® O-ring  
 T: Teflon®, Adjustable packing  
 G: Grafoil®, Adjustable packing

### Special Construction Options:

- SC-L: Bonnet lock upgrade (in accordance with ANSI B31.1)  
 SG: Sour Gas (Valve to meet NACE MR0175-2002)  
 SC-O: Gaseous Oxygen Cleaned  
 SC: For other special requirements - consult factory

