

Product Overview

The CM2 (6000 psig - 414 barg) barstock construction needle valve is designed for multiple applications wherever throttling or bubble-tight shutoff is required. The CM2 is available in a wide variety of inlet & outlet configurations and materials. Specific CM2 models meet the requirements of NACE MR0175-2002. The CM2 is available in both hard and soft seat configurations, and is available with Teflon® or Grafoil® packing or an O-ring seal. To simplify installation requirements the CM2 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 CM2. 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 CM2's 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.

CM2 Ordering Code:

CM2 1 M44T D 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

Optional socketweld or buttweld connections available - consult factory.

Bonnet Assembly:

- B: O-ring, Needle tipped stem end
- D: Adjustable packing, Rotating ball tipped stem end
- DN: Adjustable packing, Needle tipped stem end

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

