

Introduction

2 The CM1 (6000 psig - 414 barg) barstock construction, straight-through, hand valve is designed for a safe, in-line repairable, long service life. The CM1 is a soft seated valve, ensuring repetitive bubble-tight sealing in both standard and dirty process conditions and is available in a wide variety of inlet & outlet configurations and materials. Specific CM1 models meet the requirements of NACE MR0175-2002. The CM1 is standardly equipped with a Delrin® seat and is available with either Teflon® or Grafoil® packing or an O-ring seal. To simplify installation requirements, the CM1 series can be factory configured with a wide variety of various manufacturers tube fittings.

Features:

- Utilizes needle stem ends, which provide repetitive bubble-tight shutoff in a variety of process conditions.
- All valves are available with a panel mount system option - consult factory.
- Either the Teflon® or Grafoil® packing is easily adjustable in field.

- All valves are hydrostatically tested to rated pressure prior to factory shipment. Full material traceability is standard on each CM1. All valves are shipped standard with full material documentation for wetted components.
- All packing is below the threads, which ensures the process does not contaminate the valve's actuation threads. This feature ensures smooth valve operation and long service life.
- All CM1's feature safety back seating ensuring the prevention of both accidental stem blowout and removal under pressure.
- Soft seats are in-line replaceable / repairable ensuring the CM1 provides economical, long service life. Standard seat material is Delrin. Readily available seat options include PEEK®.
- Standard dust covers ensure long service life by preventing the elements (rain, snow, dirt, etc.) access to the bonnet assembly.

CM1 Ordering Code:

CM1 1 M44T CN 16 T SC

Materials of Construction:

- 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 M64T: 3/4" MNPT x 1/2" FNPT
 F22T: 1/4" FNPT x 1/4" FNPT M66T: 3/4" MNPT x 3/4" FNPT
 M44T: 1/2" MNPT x 1/2" FNPT F66T: 3/4" FNPT x 3/4" FNPT
 F44T: 1/2" FNPT x 1/2" FNPT

Optional socketweld or buttweld connections available - consult factory.

Bonnet Assembly:

- A: O-ring, Needle tipped stem end
 CN: Adjustable packing, Needle tipped stem end

Seat:

- 16: Delrin
 15: PEEK

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

