

CM1B

Hard or soft seat, straight-through (roddable),
 3/8" (9.5mm) bore, 6000 psig - 414 barg hand valve
 • With optional API FIRESAFE 607 rating



**Century Valve
 Instrumentation
 Products**

**Large Bore Severe
 Service Isolation Valves**

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Introduction

The CM1B (6000 psig - 414 barg) barstock construction valve features a straight-through (roddable) 3/8" (9.5mm) bore. This bi-directional valve has a high flow capability. The CM1B is ideally suited for severe process conditions (eg. high-temperature steam) or in applications where valve plugging is a concern. Furthermore, the CM1B is available with an optional API FIRESAFE 607 / BS6755 Part 2, rating, making it the valve of choice for hazardous services. The CM1B features replaceable soft or metal seats, which can be easily removed and replaced, eliminating the need for valve removal should the seat become damaged by process conditions.

The CM1B is available in a wide variety of inlet & outlet configurations and materials. Specific CM1B models meet the requirements of NACE MR0175-2002. The CM1B is available with either Teflon® or Grafoil® packing. To simplify installation requirements the CM1B series can be factory configured with a variety of various manufacturers tube fittings.

Features:

- Large bore (3/8" - 9.5mm), high-pressure, high-temperature, severe service isolation valve. This valve is ideally suited for the varying requirements of the power industry.

- API 607 FIRESAFE Addition 4, BS6755 Part 2 upgrade available. 
- Needle (plug type) stem end provides bubble-tight shutoff and ensures long valve life. Replaceable / repairable seat ensure long, safe and economical installed valve life.
- Upgraded large handle ensures ease of operation while actuating valve.
- All valves are hydrostatically tested to rated pressures prior to factory shipment. Full material traceability is standard on each CM1B. All valves are shipped standard with complete material documentation for wetted components.
- Either the Teflon® or Grafoil® packing is easily adjustable in field.
- All packing is below the threads (rotating version), which ensures the process does not contaminate the valve's actuation threads. This feature ensures smooth valve operation and long service life.
- All CM1B's in the severe service series feature upgraded bonnet lock plate with 'P' bonnets assembly to ensure accidental removal under pressure does not occur.
- Temperatures up to 1200°F with 316SS with 0.04% minimum carbon content.

CM1B Ordering Code:

CM1B 1 F88T P 1 G SC

Materials of Construction

- 1: SS - 316/316L (meets NACE MR0175-2002)
 3: CS - A108 CS

(Other construction materials available - consult factory.)

Inlet / Outlet Connections:

Standard threaded connections:


- M44T: 1/2" MNPT x 1/2" FNPT
 F44T: 1/2" FNPT x 1/2" FNPT
 M64T: 3/4" MNPT x 1/2" FNPT
 M66T: 3/4" MNPT x 3/4" FNPT
 F66T: 3/4" FNPT x 3/4" FNPT
 M88T: 1" MNPT x 1" FNPT
 F88T: 1" FNPT x 1" FNPT

Standard socketweld connections:

- MS44S: 1/2" MSW x 1/2" FSW
 FS44S: 1/2" FSW x 1/2" FSW
 MS64S: 3/4" MSW x 1/2" FSW
 MS66S: 3/4" MSW x 3/4" FSW
 FS66S: 3/4" FSW x 3/4" FSW
 MS88S: 1" MSW x 1" FSW
 FS88S: 1" FSW x 1" FSW

Optional buttweld connections available - consult factory.

Bonnet Assembly:

- H: Adjustable packing, Needle tipped stem end, (plug) rotating
 P: Adjustable packing, Needle tipped stem end (plug) non-rotating stem – meets API 607 / BS6755 Part 2 requirements 

Seat:

- 1: 316SS (Requires 'P' Bonnet option)
 15: PEEK
 16: Delrin

Packing:

- 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
 SC-H: 316SS with 0.04% minimum Carbon

