

Hand Valves

A large 5/8" (16mm) bore, straight-through and roddable bi-directional flow valve for pressures to 3500 psig (241 barg)

General Application

The HM1C is suitable for severe service, high pressure/temperature applications and features a Cv rating of 9.8, which allows for high flow capacities. It is also ideal for process conditions where potential plugging is a concern.

TECHNICAL DATA

Materials

CS, 316 SS

Seats:

Soft

Connections
Inlet:

3/4" to 1" NPT

Outlet:

1/2" to 1" NPT

Pressure (max):

3500 psig (241 barg)

Temperature (min/max):

-70°F to 400°F
(-57°C to 204°C)



Features

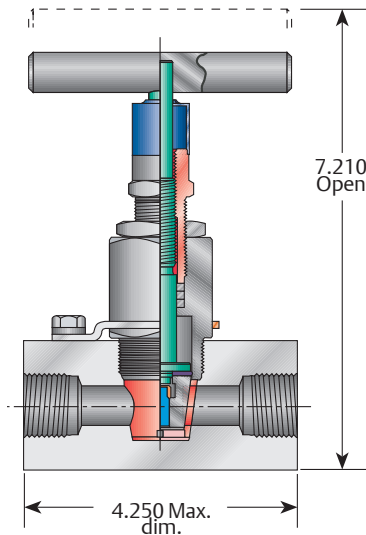
- Plug stem end provides bubble-tight shutoff and ensures long valve life.
- Replaceable/repairable seat ensures long, safe and economically installed valve life.
- Large handle ensures ease of operation.
- All valves pressure tested prior to shipment. Material traceability on body is standard on request.
- PTFE packing is easily adjustable in the field.
- All packing is below the threads to eliminate contamination by the process, ensure smooth valve operation and long service life.
- Safety back seating prevents accidental stem blowout and removal under pressure.
- Upgraded bonnet lock plate prevents accidental removal under pressure.
- Standard dust cover ensures long service.
- Wide variety of inlet and outlet configurations and materials.

HM1C SERIES

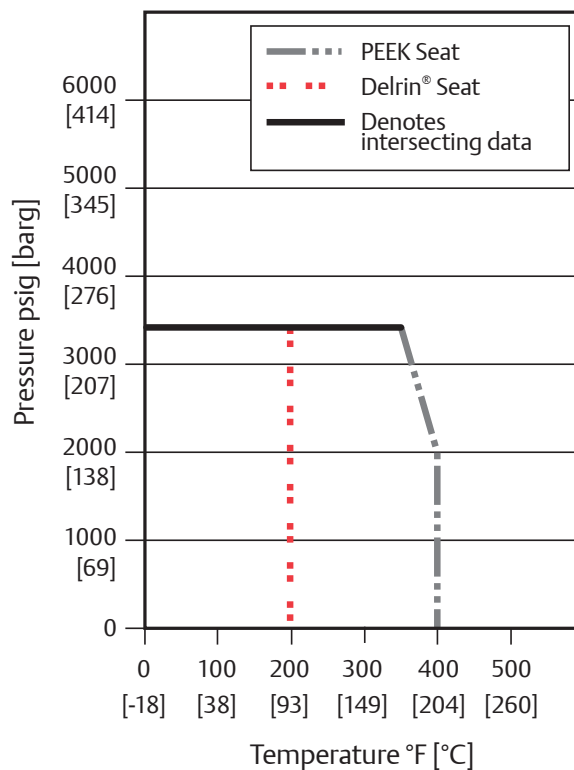
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Bonnet Assembly

The HM1C features a roddable soft seated design with replaceable seats, providing easy cleanout and replacement. All stem threads are rolled and lubricated to prevent galling and reduce operating torque. The bonnet assembly has a one-piece rotating stem and plug. The stem seal is a patented PTFE or graphite packing gland which is adjustable in service. All bonnets are assembled with a bonnet locking pin to prevent accidental removal while in service and a protective dust cap is fitted to contain stem lubricant and prevent the influx of contaminants.



Pressure vs. Temperature



NOTE

1. Minimum temperature: -70°F (57 °C).

Hand Valves

Selection Guide

HM1C	S	8	D	V	SG
BASIC SERIES	MATERIALS OF CONSTRUCTION	CONNECTIONS (INLET/OUTLET)	SEAT	PACKING	SPECIAL OPTIONS
HM1C	S SS- 316/31L	46 ¾" MNPT x ½" FNPT	GN Non rotating plug stem	V PTFE	OC00 Gaseous oxygen clean
	C CS - carbon steel (A108CS)	6 ¾" FNPT x ¾" FNPT	D Delrin® (minimum temperature -40°F (-40°C))		SS All 316 SS construction
		66 ¾" MNPT x ¾" FNPT	E PEEK		SCL Bonnet Lock
		8 1" FNPT x 1" FNPT			LG4 Long Handle for use with PEEK Seat
		88 1" MNPT x 1" FNPT			

NOTES

1. Call factory for optional materials.
2. Cv = 9.8 max.
3. 316/316L SS valves meet the requirements of NACE MR0175/ISO 15156 (for chloride conditions ≤ 50 mg/l (ppm)) and NACE MR0103-2005.