



ANDERSON GREENWOOD SERIES HM1C HAND VALVES

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



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.

GENERAL APPLICATION

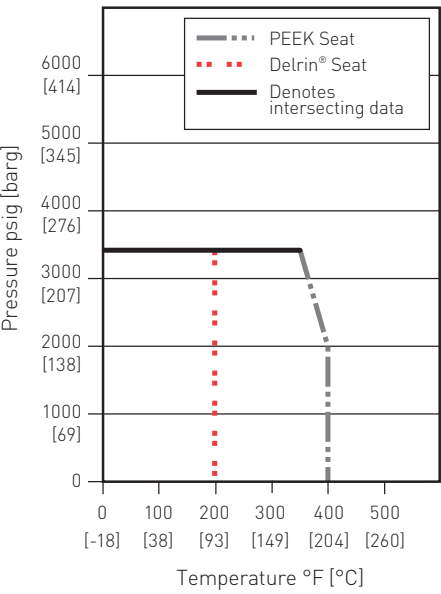
The HM1C is suitable for severe service, high pressure/temperature applications and features a C_v rating of 9.8, which allows for high flow capacities. It is also ideal for process conditions where potential plugging is a concern.

TECHNICAL DATA

Materials:	CS, SS
Seat:	Soft
Connections	
Inlet:	$\frac{3}{4}$ " to 1" NPT
Outlet:	$\frac{1}{2}$ " to 1" NPT
Pressure (max.):	3500 psig (241 barg)
Temperature:	-70° to 400°F (-57° to 204°C)

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PRESSURE VS TEMPERATURE



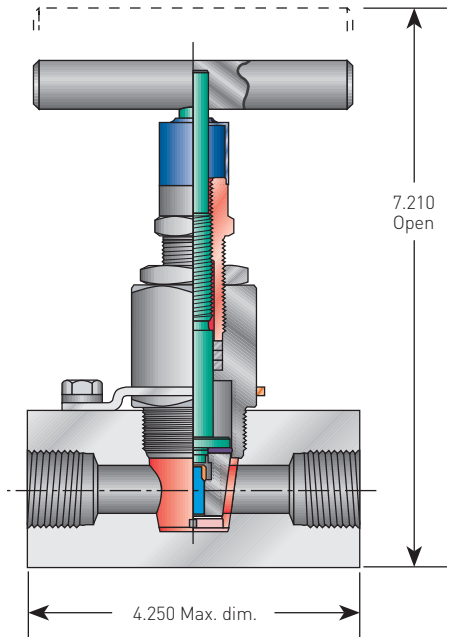
NOTE

Minimum temperature: -70°F (57 °C).

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.



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SELECTION GUIDE

Example:	HM1C	S	8	D	V	SS
Materials of construction						
S		SS - 316/31L				
C		CS - carbon steel (A108CS)				
Connections (inlet/outlet)						
46		¾" MNPT x ½" FNPT				
6		¾" FNPT x ¾" FNPT				
66		¾" MNPT x ¾" FNPT				
8		1" FNPT x 1" FNPT				
88		1" MNPT x 1" FNPT				
Seat						
D		Delrin®				
E		PEEK				
Packing						
V		PTFE				
Options						
OC00		Gaseous oxygen cleaned				
SS		All 316 SS construction				

NOTES

1. Call factory for optional materials.
2. $C_v = 9.8$ 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.

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