

## Anderson Greenwood Instrumentation Hand Valves

A globe pattern valve with a  $\frac{7}{16}$ " (11 mm) bore for pressures to 10000 psig (689 barg)

### General Application

The HM25D is suitable for severe service, high pressure/temperature applications and features a Cv rating of 1.95, which allows for high flow capacities. Its globe pattern construction allows for throttling of the most severe services.



### TECHNICAL DATA

**Materials**

CS, 316 SS

**Seats:**

Metal

**Connections**
**Inlet:**

$\frac{3}{4}$ " to 1" NPT or socket weld

**Outlet:**

$\frac{3}{4}$ " to 1" NPT or  $\frac{1}{2}$ " to 1" socket weld

**Pressure (max):**

10000 psig (689 barg)

**Temperature (min/max):**

-70°F to 1000°F  
(-56°C to 538°C)

### Features

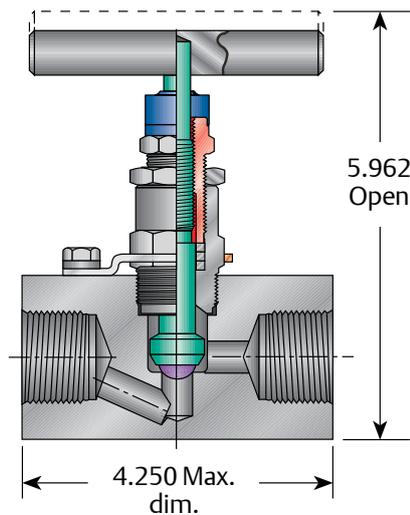
- Rotating ball stem tip provides bubble-tight shutoff and ensures long valve life.
- Large handle ensures ease of operation.
- All valves are hydrostatically tested prior to shipment. Material traceability on all wetted parts is standard.
- PTFE or graphite packing is easily adjustable in the field.
- 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.
- Standard bonnet lock plate prevents accidental removal under pressure.
- Wide variety of inlet and outlet configurations and materials.
- Factory configuration to a wide variety of manufacturers' tube fittings.

# HM25D SERIES

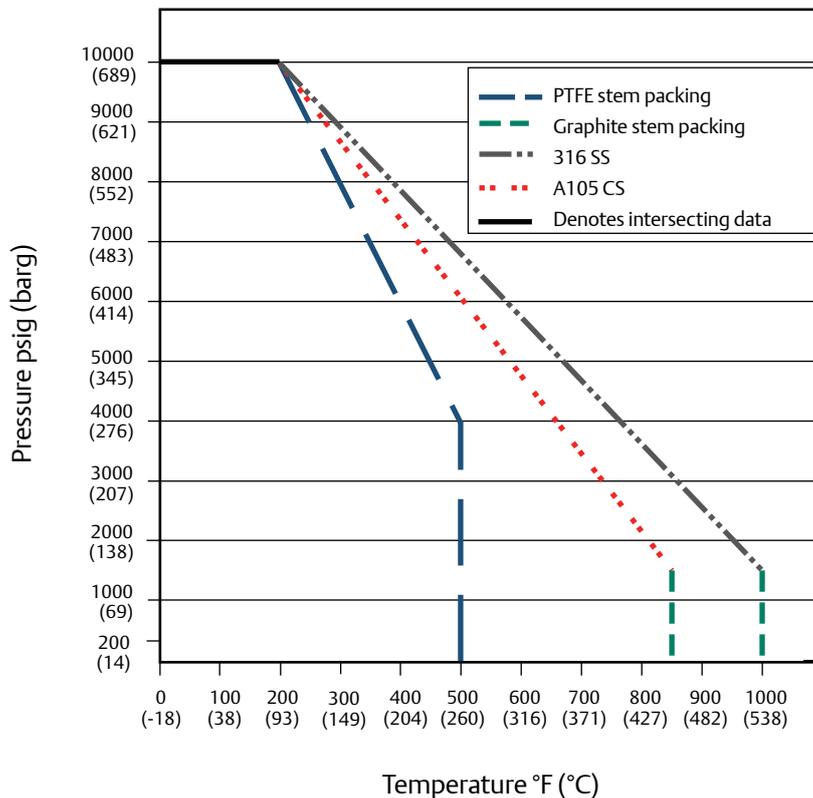
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### Bonnet Assembly

The metal-seated bonnet assembly has a strengthened rotating stem with a non-rotating ball stem tip for long service life. The stem threads are machined and lubricated to prevent galling and reduce operating torque. It incorporates adjustable Graphite packing and back-up pressure rings to ensure a leak-free stem seal as standard, with PTFE packing as an option. The specially hardened ball seat is ideal for both gas and liquid service. A protective dust cap is fitted to contain stem lubricant and prevent the influx of contaminants. All bonnets are assembled with a bonnet lock plate to prevent accidental removal while in service.



### Pressure vs Temperature Ratings



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### Selection Guide - Power Industry Applications<sup>[1]</sup>

HM25D	S	8	PID	H	SG			
BASIC SERIES	MATERIALS OF CONSTRUCTION	INLET/OUTLET CONNECTIONS	STEM TIP	PACKING	SPECIAL OPTIONS			
HM25D	<p><b>S</b> SS - 316/316L SS valves meet the requirements of NACE MR0175/ISO 15156 (for chloride conditions ≤ 50 mg/l (ppm)) and NACE MR0103-2005.</p> <p><b>C</b> CS - carbon steel (A108CS)</p>	<b>Standard threaded connections</b>		<b>PID</b> Rotating ball tip stem end	<b>V</b> PTFE	<b>SG</b> 316/316L SS valves meet the requirements of NACE MR0175/ISO 15156 (for chloride conditions ≤ 50 mg/l (ppm)) and NACE MR0103-2005.		
		<b>6</b>	¾" FNPT x ¾" FNPT				<b>H</b> Graphite	<b>OC00</b> Cleaned for oxygen service (Gaseous)
		<b>66</b>	¾" MNPT x ¾" FNPT					
		<b>8</b>	1" FNPT x 1" FNPT					
		<b>88</b>	1" MNPT x 1" MNPT				<b>SCL</b> Bonnet Lock	
		<b>Standard socketweld (pipe)</b>						
		<b>MS66S</b>	¾" MSW x ¾" FSW					
		<b>MS64S</b>	¾" MSW x ½" FSW					
		<b>FS66S</b>	1" FSW x 1" FSW					
		<b>MS88S</b>	1" MSW x 1" FSW					
<div style="border: 1px solid black; padding: 5px; width: fit-content;">                     Other construction materials available - consult factory                 </div>								

#### NOTE

1. All seats on HM25D Series are integral - no nomenclature designation required.