

## Hand / Gauge Valve & Manifold

### Low Temperature Bonnet Assembly Option – For Static Pressure on/off Instrumentation Applications:

Instrumentation hand, gauge, manifolds and primary isolation valve product solutions for low temperatures ranging from  $-57^{\circ}\text{C}$  to  $-191^{\circ}\text{C}$  ( $-70^{\circ}\text{F}$  to  $-313^{\circ}\text{F}$ ) in LNG, Gas Process, Refining, Chemical and Air Separation markets for process isolation (on/off) dead-end service with limited bleed or blowdown requirements.

For Low Temperature applications TESCO (Anderson Greenwood Instrumentation) is providing PTFE or Graphite stem packing valves with design Pressure classes up to 400bar (6000psi) & minimum temperature range down to  $-191^{\circ}\text{C}$  ( $-312^{\circ}\text{F}$ ). The bonnet designs are suitable for use with the P Series & H7 Series of valves & manifold bodies. Optional for H7 will be extended bonnet version where the application has the need for insulation of pipework



**Valve Bonnet assembly for Low Temp Applications Model code suffix 'LT' for standard & 'LT1' for extended H7 bonnet only**

#### **H7 Series (suffix : LT)**

**Screwed Bonnet** – Type 'V' PTFE Packing, Type 'H' Graphite Packing

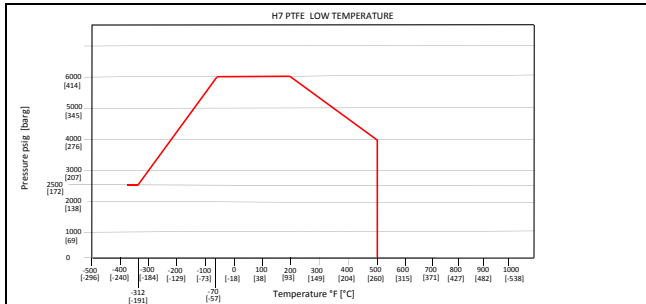
- 316 stainless steel only
- Bore Size 5 mm (3/16")
- Integral Valve Seat (globe pattern) – Metal to Metal Seated
- Free swivel Ball end stem
- Packing below Threads - Stem threads are protected from process media (non-wetted)
- Stem with rolled threads - helps to prevent stems from galling, improved strength & ease of operation.
- Back Seat – Metal to metal / for packing protection
- Color Coded Dust Cap for operating thread protection
- Max. allowable (Working) Pressure : 400 bar (6,000 psi)
- All non-wetted parts in 316 stainless steel
- Valve types also comply with the requirements of MSS SP99/105
- Extended bonnet Option 'LT1' available for 3"- 4" pipe insulation applications

# INSTRUMENTATION VALVE OPTION

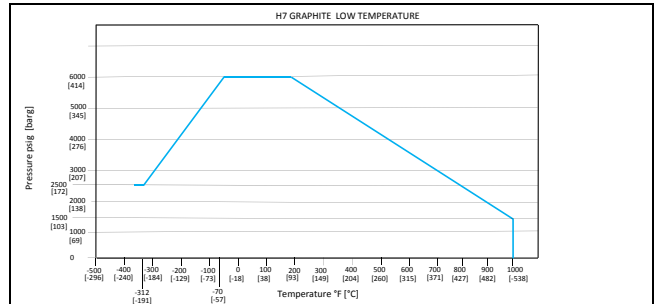
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### Low Temp H7 Series bonnet P/T data (product assemblies)

PTFE Type V



Graphite Type H:



**NOTE**

Above mentioned Pressure / Temperature rating is based on 316 Stainless Steel valve assembly with 'LT' bonnet option

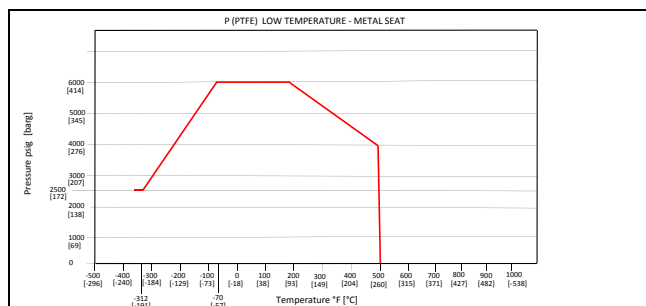
**P Series (suffix : LT)**

**Screwed Bonnet – Type 'V' PTFE Packing, Type 'H' Graphite Packing**

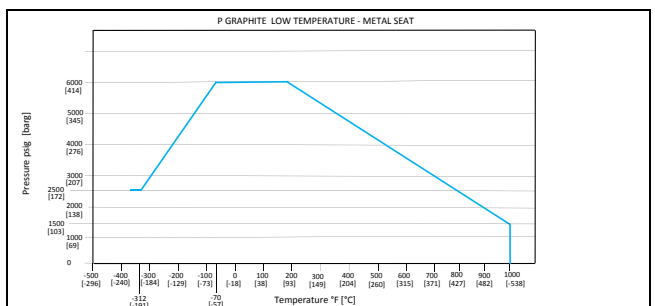
- 316 stainless steel only
- Bore Size 3/8" (9.5 mm)
- Non-Rotating 'plug style' tip, rising stem
- Engagement threads on outside of bonnet – threads not in contact with process media (non-wetted)
- Back Seat – Metal to metal / for packing protection
- Standard bolted bonnet lock plate – prevent accidental removal of bonnet
- Valve body Seat (Straight through bore) – replaceable Metal (Graphite packed)
- Max. allowable (Working) Pressure : 400 bar (6,000 psi)
- All non-wetted parts in 316 stainless steel
- Valve types also comply with the requirements of ASME B31.1, B31.3 & B16.34

### Low Temp P- Series bonnet P/T data (for assemblies)

PTFE Type V



Graphite Type H:



**NOTE**

Above mentioned Pressure / Temperature rating is based on 316 Stainless Steel valve assembly with 'LT' bonnet option

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### Low Temp Bonnet option available for the following Product families

- H7 Series (globe pattern) : Hand valves (H7), Gauge valves (M5, PT7, M25), Manifolds (M1, MB3, MB5, M4, MC)
- P Series (Straight through bore) : Hand valves (H70), Gauge valves (M50, M50DB)

\*\* Availability : FCA Harlingen, Texas

Leadtime: LT option

H7 type ... consult standard global delivery matrix

P type ..... consult standard global delivery matrix

LT1 extended bonnet (H7 only)

Consult Customer Services for specific requirements

Email : [ordersagip@emerson.com](mailto:ordersagip@emerson.com)

\*\* Qualification / Certification

Low Temp type test in accordance with procedure 05-9005-340 rev1

TESCOM self-certification – declaration of conformance