

DWG. NO. CHF2001 ( SHEET 1 (REV. E			
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	ADDED BASE TORQUE VALUE	5/01/03	DRB
E	CHANGED INSTALLATION TORQUE NOTES	01/19/15	DRB

# TECHNICAL SPECIFICATION

## HF2001 10,000 PSI CHARGING VALVE

Classification: 0 to 10,000 psi. Maximum rated pressure.  
Standard o-rings = M83461/1.

Installation: Assemble into MS33649 boss 1/2 - 20 UNF 3B at 120±5"lbs. Note: A sealing surface of 32 Ra. minimum is required to prevent O-ring rupture due to movement.

- Open/close:
- 1) To close the valve requires 75-100 inch pounds @ 0 psi.
  - 2) Closing the valve under a charged system requires a greater amount of torque. Increase 10-20 inch lb increments until closed. Upon closing the HF2001 charging valve recap the stem with the MS20813-1 cap.
  - 3) Maximum Closing torque 250 inch pounds.

Temperature range: Temperature range is -65°F to + 275°F for standard valve only for use with Air or Nitrogen. Note: Contact Hydro Fitting when the application requires use of alternate gases or fluids.

Burst Pressure: 22,500 psi. Note : Failure of boss O-ring can occur at any pressure above 10,000 psi due to various conditions. The mechanical connection of threads of the HF2001 and MS33649 boss will meet or exceed the 22,500 psi burst threshold.

Cycle performance: In a controlled environment with proper installation, the HF2001 can exceed 500 cycles without failure.

Compatibility: The HF2001 meets or exceeds the pressure rating of the MS28889-2, M6164-12 and generic commercial valves of equal design to the aforementioned military parts.



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