

# FMD Small Volume Provers For Cryogenic Applications



## A Complete Line of Small Volume Provers for Cryogenic Applications

Flow Management Devices provides a comprehensive range of Unidirectional Captive Displacement Provers that are specifically engineered to prove flow meters under process conditions with extremely low temperatures. FMD's line of Cryogenic Provers are ideal suited for applications involving liquefied gases, even in temperatures as low as  $-320^{\circ}\text{F}$ .

### Applications:

- Cryogenic Fluid Allocations
- Custody Transfer
- Marine Loading Terminals

### Process Fluids:

- Butane
- Propane
- Ethane
- Methane
- Propylene
- Ethylene
- LNG
- NGL's

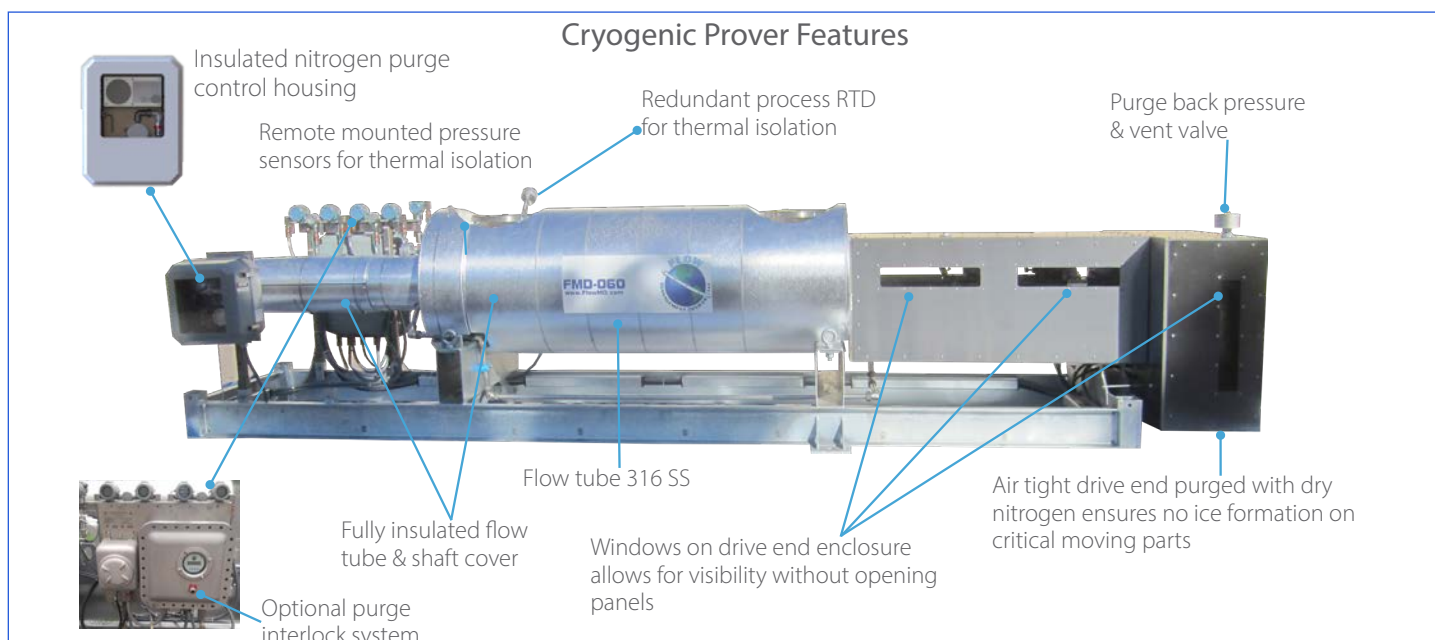


### Cryogenic Prover Features:

- Process Temperature Range to  $-320^{\circ}\text{F}$  ( $-196^{\circ}\text{C}$ )
- 316 L Stainless Wetted Materials
- Temperature Isolation
- Redundant Temperature Instrumentation
- Thermal Isolation of Key Components
- Static Elimination
- Air-Tight Dry Nitrogen Purge
- Smart Lock out Safety Feature
- Operates at Ambient Conditions for Water Draw

**SERVICE, EXPERIENCE,  
INNOVATION & EXCELLENCE**

The FMD Cryogenic Prover provides a multitude of features designed specifically for cryogenic applications where precise and dependable measurement is needed.



## Specifications:

- FMD Prover Models - FMD-015 - FMD-200
- Flow Ranges:
  - 2,100 BPH - 28,500 BPH
  - 330 M<sup>3</sup>HR - 4,500 M<sup>3</sup>HR
  - 1,500 GPM - 20,000 GPM
- Wetted Parts: 316 Stainless
- Pressure Containing Material: 316 Stainless
- Seal Material: Proprietary Material Blend
- Enclosure Type: Nitrogen Purged
- Polyisocyanurate Insulation
- Designed and manufactured per ASTM B31.3
- Full material traceability for wetted parts
- CSA / UL Class 1 Div 1 Groups C & D



Three FMD130 Cryogenic Provers for liquid Propane staged for shipment to Houston, Texas.