



MODEL TC-34

SUBMERGED MOTOR PUMP



Not suitable for O₂ service

SPECIFICATIONS

Flow Range	gpm	2 – 135
	lpm	8 – 510
NPSHR	feet	3 – 12
	meters	1 – 4
Differential Head	feet	50 – 1,600
	meters	15 – 488
Pump Design Rating	hp	10 up to 38
	kw	7.5 up to 34
RPM Range*	rpm	1,500 – 7,200

* See back page for details

FEATURES & BENEFITS

- Gastight design
- Pump and motor are fully submerged in liquid minimizing loss and guaranteeing quick response pumping
- Vacuum jacketed sump provides extremely low heat leak—ideal pumping conditions (optional)
- Sealless and submerged design minimizes maintenance requirements
- Vertical pump design provides greater stability and longer life
- Special design VFD motor provides broad range of operation

APPLICATIONS

- Use where product loss is not acceptable
- Liquid storage transfer
 - Mobile delivery transfer – LAR, LN₂
 - Vehicle fueling stations – LNG

LIQUIDS PUMPED

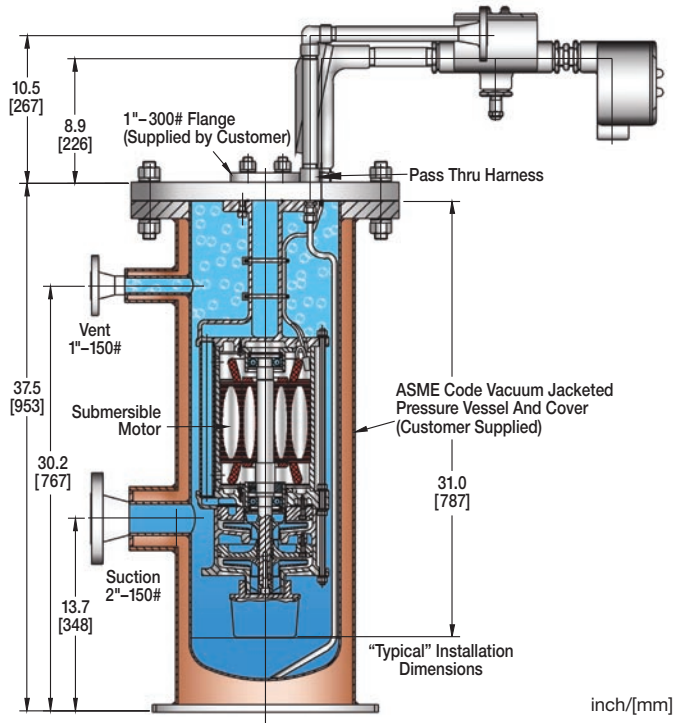
- Liquid nitrogen
- Liquid argon
- Methane (LNG)

OPTIONAL ACCESSORIES

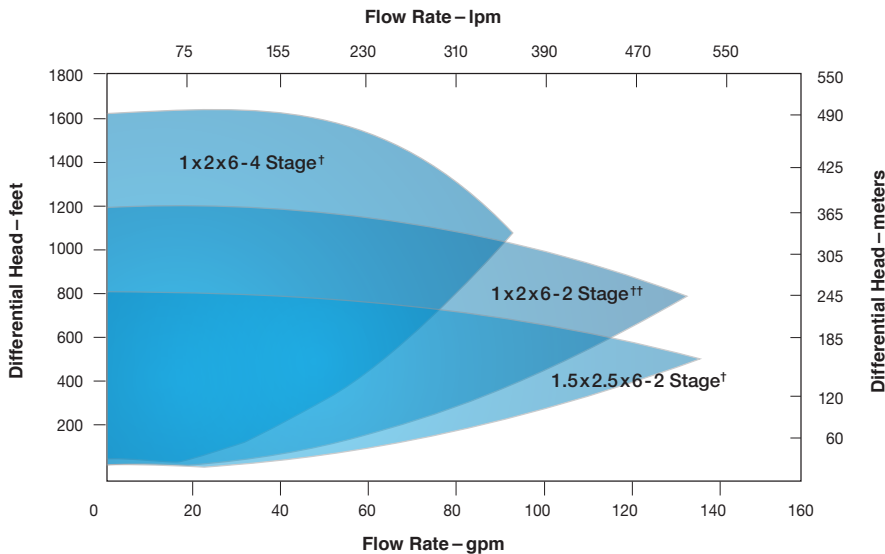
- Vacuum jacketed sump
- Variable frequency drive
- Differential pressure gauge
- Loss of prime detector (cavitation protection)
- Safety relief valve
- Dual conduit box per NFPA standards for LNG service

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OVERALL DIMENSIONS: SUCTION BARREL MOUNTED



PUMP PERFORMANCE CURVE



[†] Speed range – 1,500 to 6,000 rpm

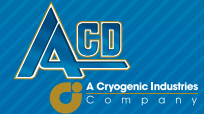
^{††} Speed range (KA) – 1,500 to 7,200 rpm

Note: Consult factory for LNG/LN₂/LAR pump speeds

TYPICAL SCOPE OF SUPPLY

- Pump and integral VFD designed motor with hermetically sealed lead through
- Mounting flanges for mating connections
- Junction box

MANUFACTURING



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