Boost Pumps

Features & Benefits

■ Compact design is lightweight and reduces installation time
■ Hydraulic drive allows operators to use truck PTO system
■ Bearing housing designed for well service, heavy duty applications
■ Composite Face Seal (CFS) more tolerant of cavitation

Pump Performance Curve

Flow Range: 5-500 GPM / 20-1,900 lpm
NPSHR: 3-35 Feet / 1-10 Meters
Differential Head: 40-780 Feet / 13-240 Meters
Pump Design Rating*: 1-85 hp / 0.75-60 kw
RPM Range:

1 x 2 x 4.5  2,000-10,200 RPM
1.5 x 2.5 x 6A  2,000-7,200 RPM
2 x 3 x 6  2,000-8,100 RPM
2 x 4 x 6  2,000-8,100 RPM

Pressure Testing

In some instances where hydrostatic testing may not be possible, systems or components may be tested with nitrogen. If considering this as an alternative, it is mandatory that the system design specifications be reviewed and a risk analysis be conducted before using a compressible medium for the test.

Pipe Freezing

The boiling point of liquid nitrogen is -320°F (-195°C) and as such it has an application as a coolant in indirect pipe freezing systems. Users of ACD’s cryogenic pumps have reported that on pipe-work compatible with cryogenic liquids, liquid nitrogen can be used as the direct cooling medium. The benefits of this approach over conventional methods reportedly are:

• More effective use of plant/platform personnel
• No interruptions to the process system while repairs are carried out
• There is “no draining operation” thus, saving time
• Liquid waste is limited resulting in cost savings
• Isolation for pressure or leak testing is provided
MODEL AC-18 (HD)

BOOST PUMP/TRAILER OFF LOAD

PERFORMANCE RANGE

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<thead>
<tr>
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<th>gpm</th>
<th>lpm</th>
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FEATURES & BENEFITS

- Compact design is lightweight and reduces installation time
- Hydraulic drive allows operators to use truck pto system
- Bearing housing designed for well service, heavy duty applications
- Shaft seal features CFS design, extending seal life

APPLICATIONS

- Well service
- Transfer boost pump
- Trailer off load

LIQUIDS PUMPED

- Nitrogen
- Methane
- Argon

OPTIONAL ACCESSORIES

- Purge kit (bearings)
- Mating flanges

TYPICAL SCOPE OF SUPPLY

- Pump, bearing housing and hydraulic coupling
- CFS mechanical seal
- Purge ports

液体泵送

- 氮气
- 甲烷
- 氩气

选配配件

- 清洗套件（轴承）
- 适配法兰

典型供应范围

- 泵、轴承壳体和液压联轴器
- CFS 机械密封
- 清洗口
**Model AC-18 (HD)**

**Overall Dimensions:** Typical 2 x 3 x 6 HD

- **Hydraulic Motor:** 17.8 hp at 2500 psi working pressure and 4700 RPM
- **Suction Flange:** Mates with STD 3" 150# ANSI Flat Face Flange
- **Discharge Flange:** Mates with STD 2" 150# ANSI Flat Face Flange

**Pump Performance Curve**

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