NDPD Series
Specification Standards

<table>
<thead>
<tr>
<th>Bore x Stroke</th>
<th>in</th>
<th>1.2 x 1.26</th>
<th>1.2 x 0.79</th>
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<tbody>
<tr>
<td>mm</td>
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<td>30 x 32</td>
<td>30 x 20</td>
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<tr>
<td>Flow Rate</td>
<td>gpm</td>
<td>1.98 – 2.74</td>
<td>1.24–1.72</td>
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<tr>
<td></td>
<td>lpm</td>
<td>7.48 – 10.4</td>
<td>4.5–6.4</td>
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<tr>
<td>Pump Design Rating</td>
<td>hp</td>
<td>7.5/10/15</td>
<td>7.5/10</td>
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<td></td>
<td>kw</td>
<td>5.6/7.5/11</td>
<td>5.6/7.5</td>
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<tr>
<td>Working Pressure</td>
<td>psi</td>
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<tr>
<td></td>
<td>bar</td>
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<tr>
<td>NPSR</td>
<td>psi</td>
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<tr>
<td></td>
<td>bar</td>
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<tr>
<td>Maximum Suction Pressure</td>
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<tr>
<td></td>
<td>bar</td>
<td>20.7</td>
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<tr>
<td>Maximum Working Pressure</td>
<td>psi</td>
<td>up to 4,000</td>
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<tr>
<td></td>
<td>bar</td>
<td>up to 267</td>
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</table>

Consult ACD engineering for actual performance ratings.

Features & Benefits
- Vacuum jacketed cold end helps minimize heat leak and reduce product loss
- Monel suction strainer for oxygen compatibility
- “Dry” lubricated grease packed bearings with re-greasable fittings for extended operation
- Split drive end housing for easy maintenance access
- Extended stem vacuum port with positive seal for improved vacuum integrity
- Intermediate purge connection allows for extended packing life
- Positive locking drive coupling for improved safety operation
- N₂, O₂, Ar, H₂
- Methane (LNG)
- Cylinder filling
- Test stand

Applications & Benefits
- Cylinder filling
- Test stand
- N₂, O₂, Ar, H₂
- Methane (LNG)

Typical Scope of Supply
- Vacuum jacketed cold end and drive assembly
- Electric motor with belt drive and guard
- Hot dipped galvanized steel skid
- High pressure switch gauge (shipped loose)
- Control panel (NEMA 4) with combination motor starter and running time meter (shipped loose)
- High pressure relief valve with discharge line and surge chamber
- Vent line with manual valve and low pressure relief valve
- Monel suction strainer
NDPD SERIES

OVERALL DIMENSIONS: TYPICAL

| Pump Performance Map |

- Automatic control panel
- Loss of prime detector (cavitation protection)
- Over pressure switch
- Shaft seal leak detection
- Installation kits (based on supply tank)
- Bypass valve
- Auto cooldown temperature controller
- Vacuum jacketed suction adapter
- Foot mounted (vacuum jacketed cold end and drive assembly only) configurations
- Suction and tank return flex sections
- Liquid hydrogen configuration
- ASME high pressure relief valve

Contact ACD for construction dimensions.

PUMP PERFORMANCE MAP

Flow Rate [lpm]

60 HZ performance

Flow Rate [gpm]

Discharge Pressure [psi]

Discharge Pressure [bar]

60 HZ performance

Contact ACD for construction dimensions.