Flex Series Pumps

The Flex Series range of pumps brings years of design and manufacturing experience together with true customer benefiting innovation to create a heavy duty pump and gearbox combination that simplifies pump installation and flexibility to the fire apparatus OEM's, while enhancing performance, overall durability, and ease of service for end users.

Performance

- Standard offering of pumps with a wide range of performances from 250 gpm (946 lpm) up to 1500 gpm (5678 lpm)
- Engine Rotation and Opposite Engine Rotation (Opposite engine rotation not available on MBP)
- More Gear Ratios Available - All gears are helical for smooth, quiet operation
  - 2.33
  - 2.60
  - 2.91
  - 3.74
  - 1.14
  - 1.31
  - 1.64
  - 1.90

Durability

- Wrap around clearance ring enhances suction performance while extending the service life
- Secondary seal provides redundancy adding another level of serviceability to the design of the pump
- Stainless Steel Pump Shaft for superior corrosion resistance
- Silicon Carbide Mechanical Seal for extended life and thermal stability

Service

- Gearbox sight glass provides easy visual inspection of the oil condition and level
- Integrated oil fill and vent enables easier fill access
- Four distinct mounting surfaces allow for increased installation options and orientations in a compact design

<table>
<thead>
<tr>
<th>Flex Series Pumps</th>
<th>NFPA Rated</th>
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</thead>
<tbody>
<tr>
<td>CBP</td>
<td>250 gpm @150 psi (946 lpm @ 10 bar)</td>
</tr>
<tr>
<td>AP</td>
<td>500 gpm @ 150 psi (1893 lpm @ 10 bar)</td>
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<tr>
<td>MBP</td>
<td>1000 gpm @ 150 psi (3785 lpm @ 10 bar)</td>
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<tr>
<td>RSD</td>
<td>1500 gpm @ 150 psi (5678 lpm @ 10 bar)</td>
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Flex Series Defined

Features:
- Hard, fine grain bronze, mixed flow impeller design is hand ground and balanced for maximum performance and corrosion resistance
- For minimal maintenance, the spring-loaded mechanical seal is self-adjusting and self-lubricating
- Heavy duty precision ground, deep groove bearings used for long-life
- Heat treated, one piece stainless steel pump shaft has been designed for strength and to minimize pump deflection
- Bronze clearance rings are easily replaceable

Secondary O-ring for sealing redundancy

Silicon Carbide mechanical seal for long-life and thermal stability

Wrap around clearance ring for increased efficiency

Stainless steel pump shaft provides superior corrosion resistance

Sight glass for quick indication of oil level

Integrated oil fill and vent

Gearbox includes 4 mounting surfaces providing mounting versatility

Gearbox is available with 6 different orientations (Up, Down, Left, Right, Left 22.5° and Right 22.5°)

Hale Pumps are Designed, Machined, Assembled, and Tested in Ocala, FL. USA

Flex Series Defined

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