

Ebsray RC Series – Model RC40

Regenerative Turbine Pump for Liquefied Gas Applications



Model RC40


 Model RC40
with Bypass Valve

Market

The Ebsray RC Series Regenerative Turbine Pumps are single-stage regenerative turbine pumps designed for handling LPG and other gaseous liquids. The RC40 is suitable for the transfer of a wide variety of liquefied gases, including LPG, Autogas, DME, Aerosols, CO₂, Industrial refrigerants and Anhydrous ammonia.

Applications

- Transfer and industrial dispensing
- Cylinder filling
- Fleet refueling
- Forklift refueling
- Direct burner and vaporizer feed
- Above ground and underground tanks

Construction

The RC40 features a single-stage impeller providing high performance with low maintenance requirements. The close-coupled flange design mounts to both 50Hz and 60Hz (NEMA and IEC) electric motors. The unique 3-ported design (two discharge ports) allows flexibility with lowered installation costs. Featuring next-generation hydraulic design, the RC40 optimizes its class-leading performance and efficiency by using the same sized motor for better performance than its leading competitors. Cartridge design mechanical seals and bearings are interchangeable with RC20 and RC25. Flanged (ANSI #300 & DIN PN40) and NPT ports all in one body design.

Features & Benefits

- C-Face motor bracket fits NEMA and IEC B5 and B14 Motors
- Close-coupled design can also be long-coupled
- Three-ported design (two discharge ports)
- Simple single-stage design
- Ductile iron pressure retaining parts (Body/cover)
- Shaft: High tensile alloy steel
- Unique cartridge design mechanical seal
- Complies with ATEX, UL51, and AS1596 codes
- Versatile flange options: NPT, ANSI or DIN
- Motor speeds up to 3,500 rpm
- Flow rates to 52.8 gpm (200 L/min)
- Maximum differential pressure to 200 psi (14 bar)
- Hydrostatic test pressure 1,016 psi (70 bar)

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Operating Limits

Pump Model	Maximum Differential Pressure		Maximum Working Pressure		Hydrostatic Test Pressure		Minimum Temperature		Maximum Speed
	psi	bar	psi	bar	psi	bar	°F	°C	
RC40	203	14	400	27.6	1015	70	-20.2	-29	3800

Porting:

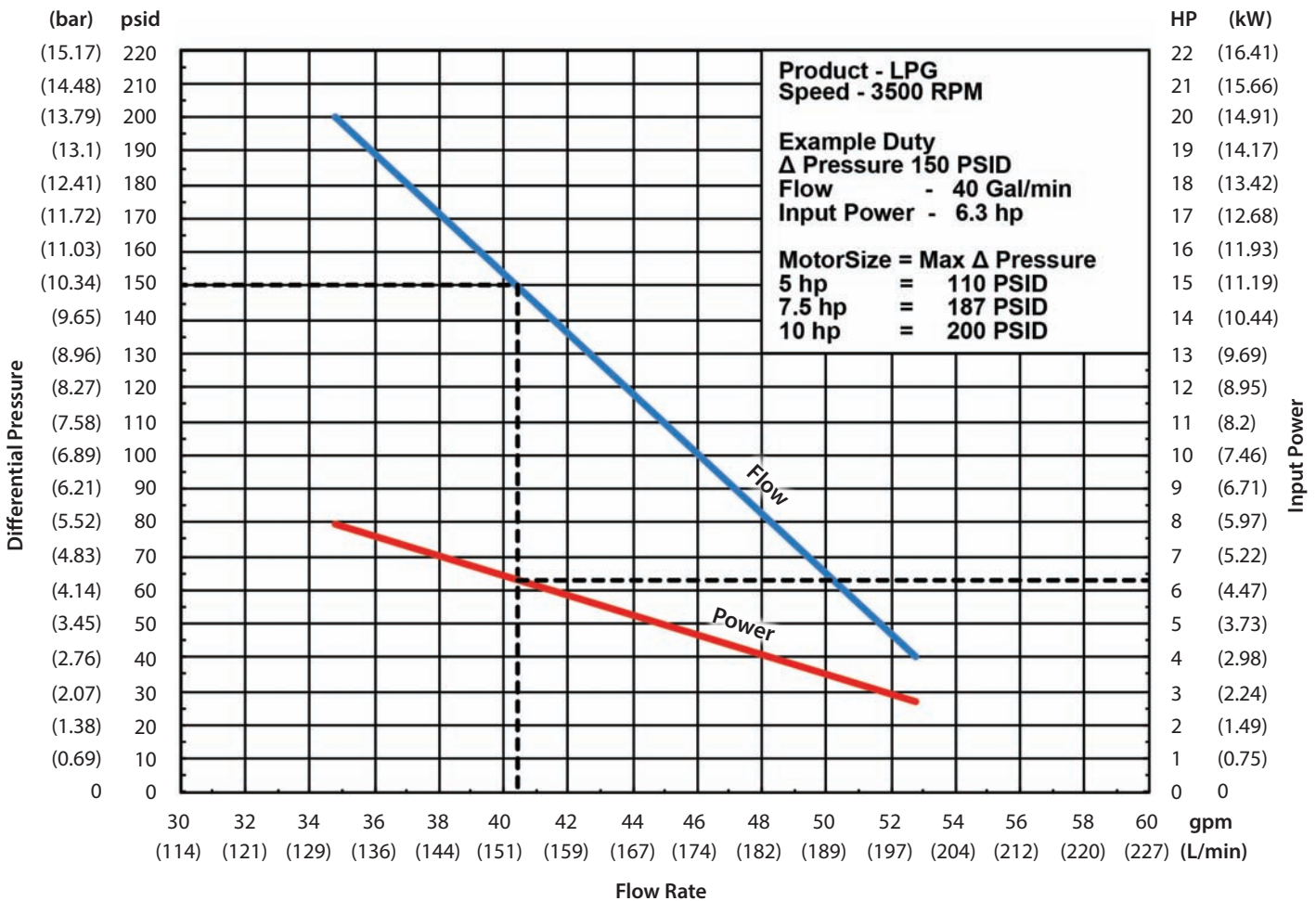
Inlet: 1-1/2" NPT, Flanged to suit 1-1/2" ANSI Class 300 and DN40 DIN PN40

Outlet: 1" NPT, Flanged to suit 1" ANSI Class 300 and DN25 DIN PN40

Gauge: 1/4" NPT

Performance

60Hz – 3500 RPM



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