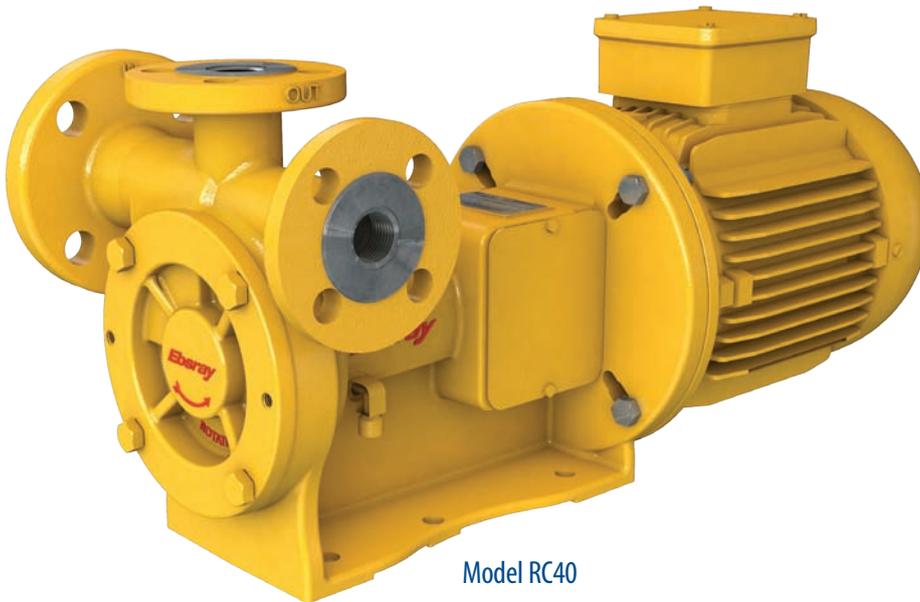


RC40 Series Regenerative Turbine Pump for Liquefied Gas Applications



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 model replaces model R10, enhancing performance by increasing flow rates and versatility while reducing overall pumpset costs. 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
- Driveway/vehicle filling
- 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 Screwed (NPT) ports all in one body design.

Features & Benefits

- One flange 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 200 L/min (52.8 US gpm)
- Maximum differential pressure to 14 bar (200 psi)
- Hydrostatic test pressure 70 bar (1,016 psi)

RC40 Series

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Operating Limits

Maximum Differential Pressure	Maximum Working Pressure	Hydrostatic Test Pressure	Minimum Temperature	Maximum Speed
bar	bar	bar	°C	rpm
14	40	70	-29	3800

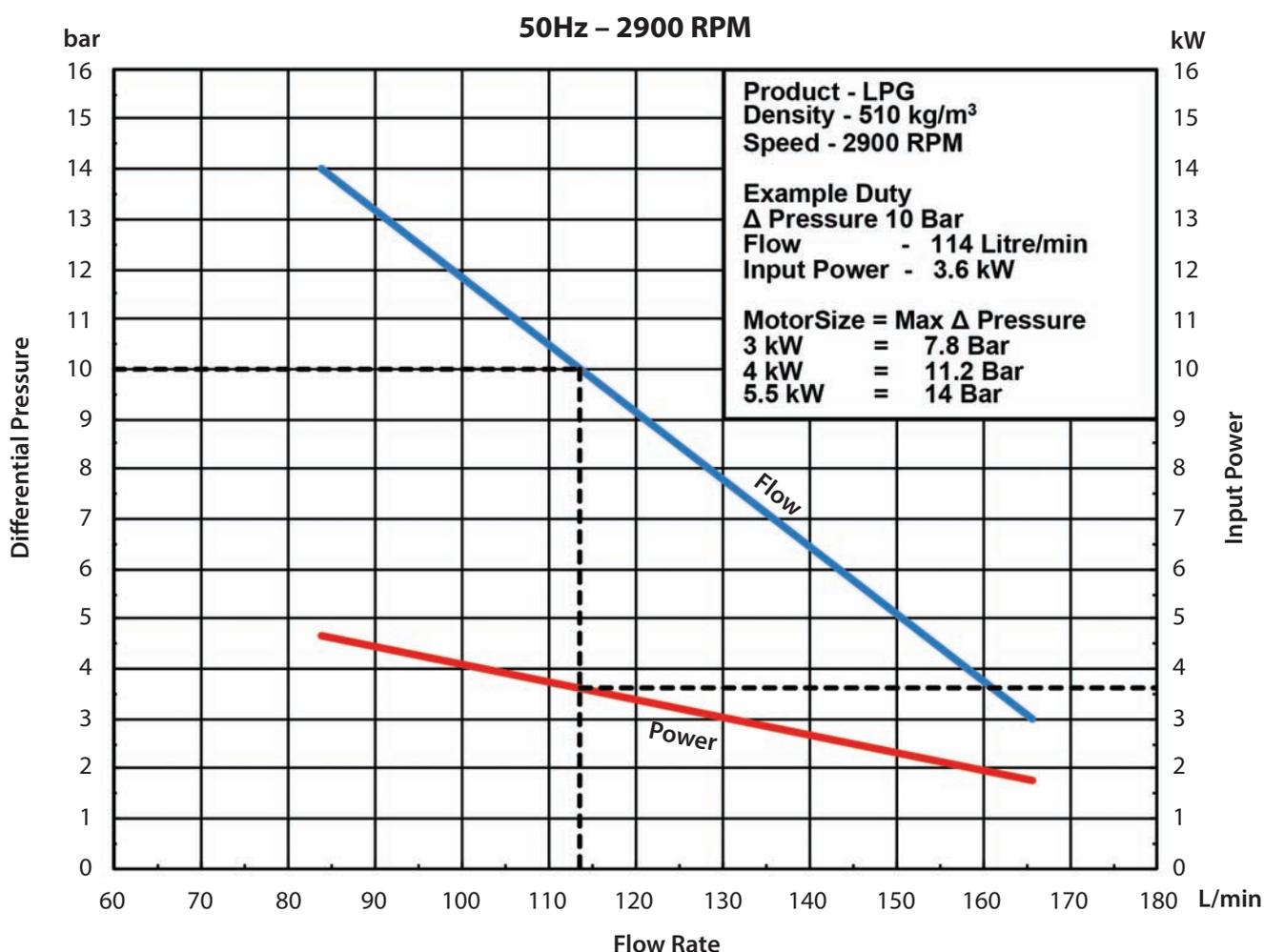
Porting:

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) performance chart available on website.



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