

Jetax®

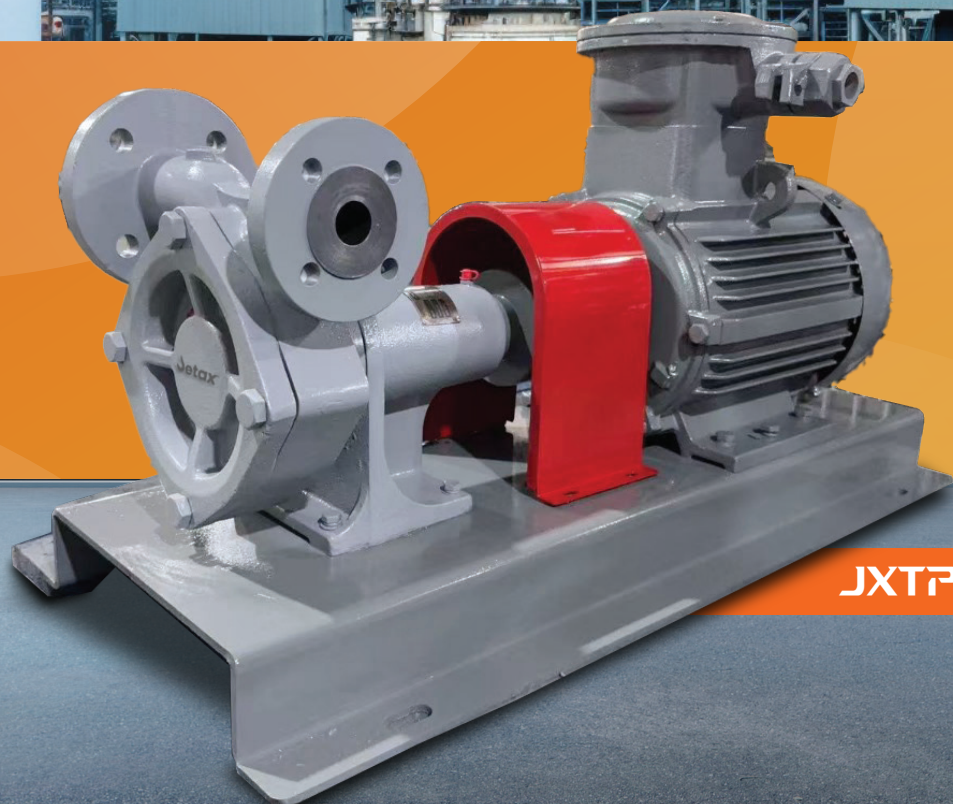
Regenerative

TURBINE

PUMPS



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JXT P150



# Regenerative Turbine Pump

## Description

**Jetax JXTP150 MODEL** is a regenerative turbine pump engineered for high-pressure applications. Liquid enters through the inlet port, where it is channeled into dual passage-ways flanking the impeller. As the impeller rotates, the fluid undergoes continuous recirculation between its precisely machined teeth and the surrounding channels. This regenerative action allows the fluid to complete a full energy-transfer cycle within the pump housing before being discharged through the outlet port.

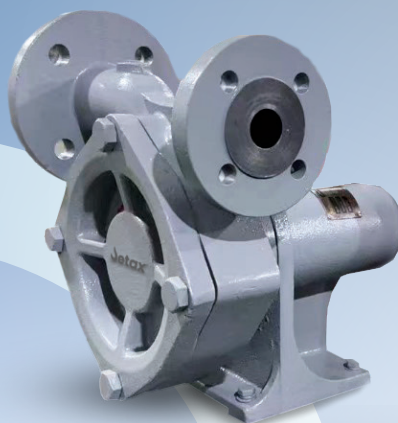
Many autogas applications use underground tanks, which require higher differential pressures. Since some turbine pump designs are not suitable for such conditions, JETAX has developed this high differential pressure pumps to meet global demands for both above-ground and underground tank applications



Under and above ground autogas dispensing



Multiple cylinder filling stations



JXTP150

APPLICATIONS



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**Jetax®**

# Regenerative Turbine Pump

## Features & Benefits

High strength metric fasteners

Case and cover are ASTM A536 ductile iron, providing maximum thermal shock protection

Self-aligning, free-floating precision machined impeller, incorporating proprietary design, optimizes flow and provides quiet non-pulsating transfer of LPG

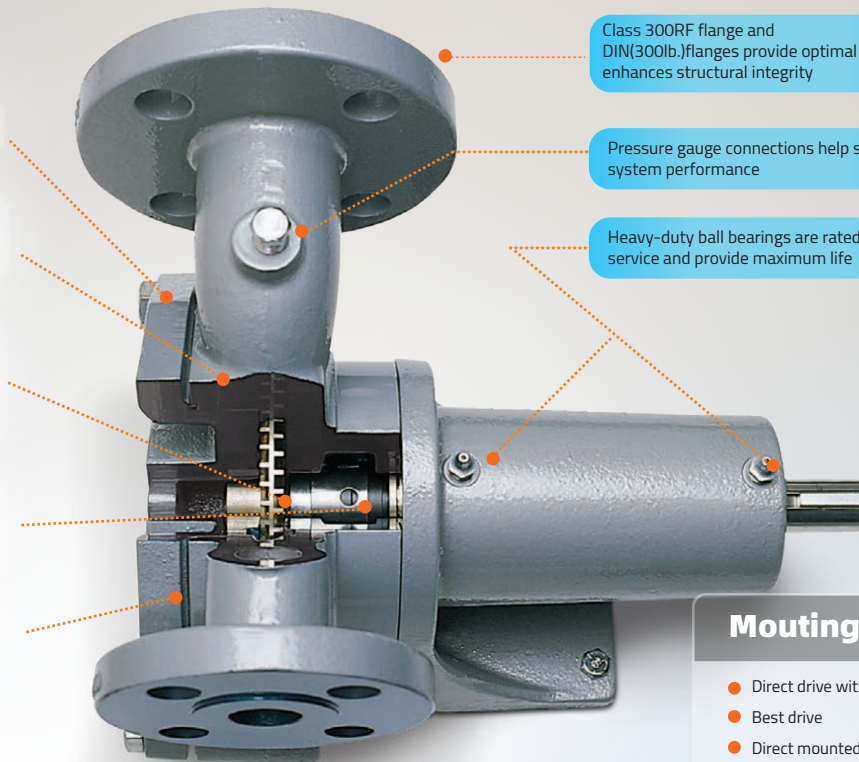
Single balances, precision lapped, mechanical seal and silicon carbide seal seat provide an exceptional seal.

By simply removing the cover, the seal can be replaced in minutes.

Class 300RF flange and DIN(300lb.) flanges provide optimal leak control and enhances structural integrity

Pressure gauge connections help simplify analysis of system performance

Heavy-duty ball bearings are rated for continuous duty service and provide maximum life



### Mounting Options

- Direct drive with coupling
- Best drive
- Direct mounted with C-face electric motor

Regenerate turbine type	Able to handle liquefied gases without flashing
High flows and differential pressures	Ideal for dual hose dispensers and multiple dispensers
Heavy duty bearings	Long bearing life
Single mechanical seal	Silicon carbide seal seat requires less maintainance
Floating impeller	Minimizes wear and lasts longer
ASME OR DIN, metric fasteners optional	Usability for US or overseas applications
Runs at 50 or 60 cycle(HZ)	Usability for US or overseas applications
Motor specification	Ex d IIB T4 Gb IP55
Two mounting options	Installation versatility

# Regenerative Turbine Pump

## Material Specifications

Part	Standard Material
Case, cover	Ductile iron ASTM A536
Impeller	Copper alloy CA-836
Impeller key	Steel, zinc plated
Seal seat	Silicon carbide
Seal rotor	Carbon
Seal metal parts	Stainless steel
Seal sleeve	Stainless steel
Seal housing	Stainless steel
Shaft	Steel
Frame	Ductile iron ASTM A536
Bearing cap	Ductile iron ASTM A536
O-rings	Buna-N
Retainer rings	Steel
Bearings	Ball

## Operating Specifications

Inlet: 1-1/2" ASME Class 300 RF (DIN optional)

Outlet: 1" ASME Class 300 RF (DIN optional)

RPM: 3450 @ 60 Hz, 2880 @ 50 Hz

Maximum working pressure: 400 psig (27.6 bar)

Maximum driver: 20 hp (15 kW)

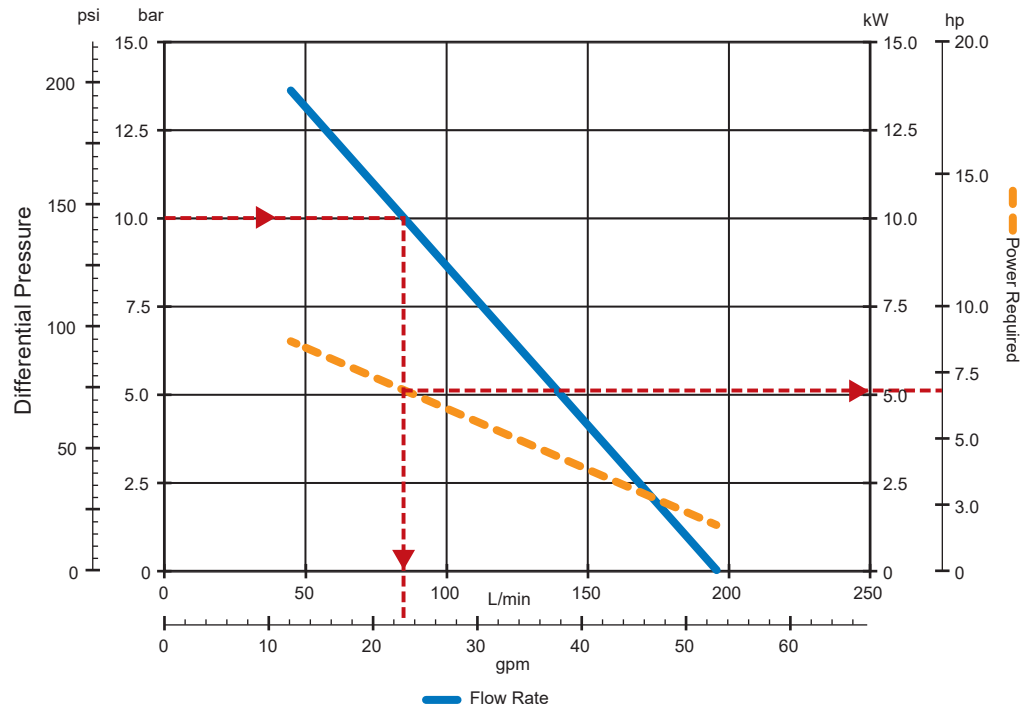
Temperature range: -25° to 225°F (-32° to 107°C)



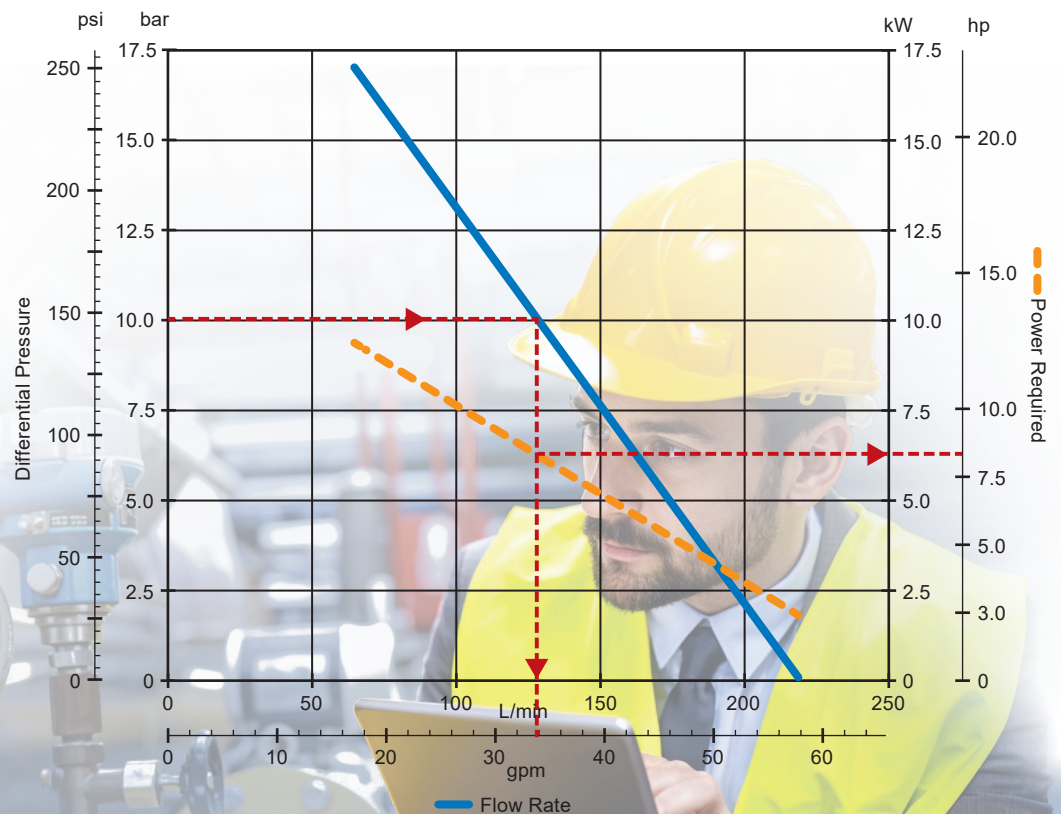


## Performance Curves

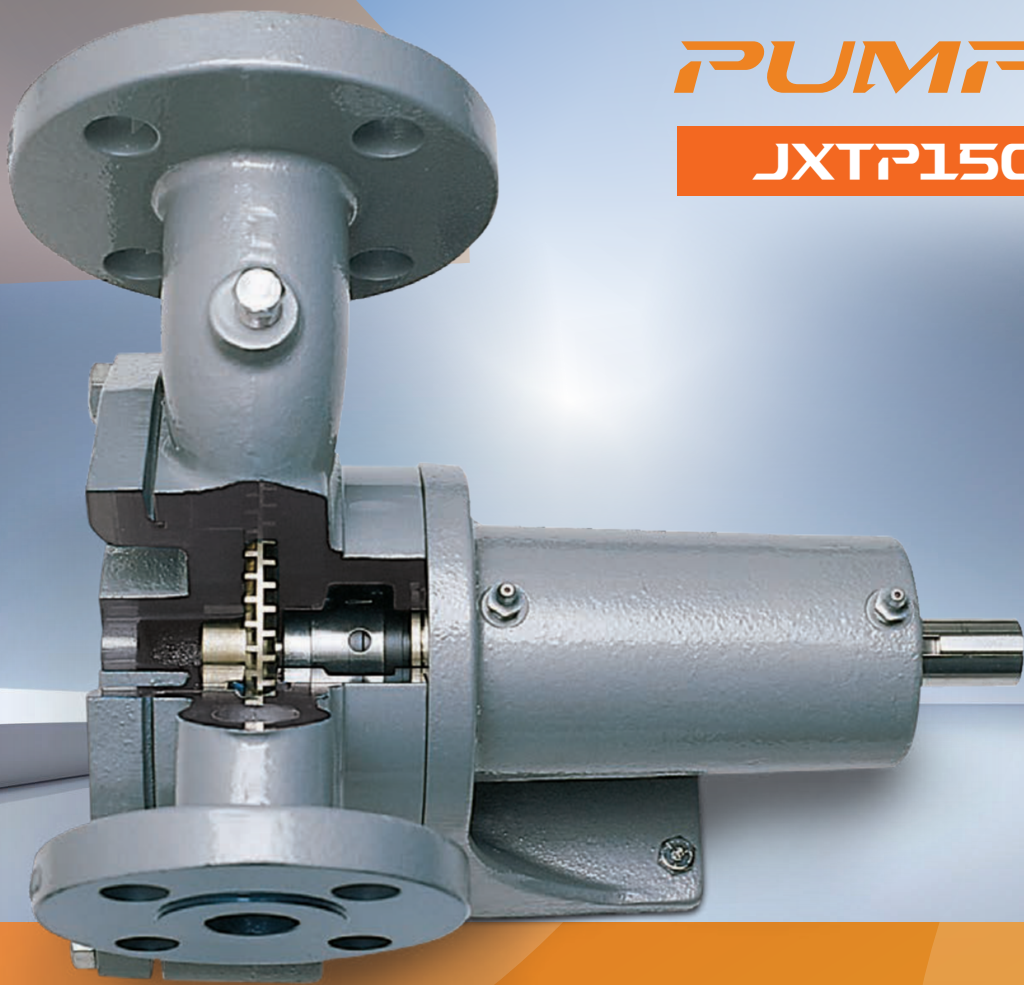
2880 RPM @ 50 Hz	
Differential pressure	
10.0 bar	
145.0 psi	
Flow	
85 L/min	
22.5 gpm	
Power required	
5.1 kW	
6.8 hp	



3450 RPM @ 60 Hz	
Differential pressure	
10.0 bar	
145.0 psi	
Flow	
128 L/min	
33.8 gpm	
Power required	
6.3 kW	
8.4 hp	



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JETAX Field Equipments Development and Design LLC

8300 Duben Ave, Anchorage, Alaska 99504, USA

info@jetax.com

+1 907 4445311