

LGT24 & LGT30 SERIES

Rotary Screw Gas Compressors

Benefits

LeROI Two-stage Rotary Screw Gas Compressors are very cost-effective for handling high volumes of gas in field gathering, vapor recovery, and other applications and delivering gas at high pressures. The work is divided between two-stages and reduces the forces on rotating elements such as bearings. Low maintenance and high reliability are inherent with rotary screws because they have few moving parts. There are no valves, rings or packings to wear out or cause loss of efficiency. The two-stage LeROI screw compressor line offers the same capacity and power modulation features as the single-stage screws. Versatrol is an available option providing the end user with maximum flexibility.

Smooth operation results from no unbalanced forces and no pressure pulsation. No foundation is required. There are no piping vibrations from pressure pulsation.

Direct coupled natural gas engine or electric motor drives are equally acceptable with the LGT24 and the LGT30 rotary screw. LeROI Rotary Screw Gas Compressors are available in various single-stage models covering a flow range of 20 to 15,000 MSCFD and horsepower from 10 to 900, and four two-stage models covering a flow of 1,000 MSCFD to 13,000 MSCFD and horsepower from 350 to 600.



LGT24 Compressor

Features

Two-stage operation from 40 PSIG to 150 PSIG maximum is possible with the LGT24 and LGT30 Series oil-flooded gas compressors. Compressor packages are simple, reliable and cost-effective. The gas differential pressure provides oil circulation for proper lubrication. Optional oil pumps are available for applications requiring specific oil regulation. All iron or steel construction with no copper or copper alloys makes these compressors compatible with natural gas, sweet or sour.

Performance

| | |
|--------------------|----------------------------------|
| Brake Horsepower | |
| LGT24 | 350 Max. |
| LGT30 | 575 Max. |
| Flow Range (MSCFD) | |
| LGT24 | 2,500 Max. |
| LGT30 | 5,000 Max. |
| Inlet Pressure | 20" Hg Vac. Min.* 0 PSIG Max. |
| Discharge Pressure | 40*-150 PSIG (MAWP) |
| Speed Range | |
| LGT24 | 500/Min. 3,600/Max. RPM |
| LGT30 | 350/Min. 2,400/Max. RPM |

* Consult Factory for use with lower vacuum inlet or discharge pressures.

LGT30 Compressor



Options & Specifications

Technical Specifications

- Model LGT24 and LGT30
- Rotor Diameter
 - LGT24 245 mm (9.65 inches) first stage
175 mm (6.89 inches) second stage
 - LGT30 309 mm (12.17 inches) first stage
245 mm (9.65 inches) second stage
- Rotor L/D 1.65
- Rotor Description
 - Each Stage: Twin Screw SRM Profile with Sealing Strips, 4 Lobe Male, 6 Lobe Female
- Shaft Seal(s) - Mechanical*
- Drive System
 - Internal Helical Speed Increasing Gears (AGMA 11)
 - LGT24 1.239-2.275 Gear Ratios available
 - LGT30 1.168-2.268 Gear Ratios available
 - Rotation - Facing Shaft - CW Drive Shaft
 - LGT24 2⁷/₈" Dia. with ³/₄ Square Key
 - LGT30 2 ⁷/₈" Dia. with ³/₄ Square Key
- Materials
 - Rotors - Ductile Iron 65-45-12
 - Castings - Ductile Iron 65-45-12/Cast Iron G3000
 - Bearings - Roller bearings on the inlet end and tapered roller bearings on the discharge end - alloy steel races, rolling elements and cages.

* LeROI's mechanical seals prevent air from entering the gas stream when operated with any attainable vacuum inlet gas pressure.

Options

- Versatrol Internal Bypass Valves:
 - Versatrol internal bypass valves are available for efficient capacity control from 100-50% of design flow. Control can be manual with four steps or stepless with a microprocessor. *Control system is not included.*
- Adjustable Vi
- Oil Pump
 - Integral oil pumps are available for low-pressure differential applications

Applications

- Gas Gathering
- Well Head Gas Compression
- Fuel Gas Boosting
- Vapor Recovery
- Inert Gas Boosting
- Landfill Gas

Gardner
Denver[®]

LeROI Gas Compressors

211 East Russell Road
Sidney, Ohio 45365 USA
+1 (937) 498-2555
sales@leroigas.com
www.leroigas.com



LeROI Gas Compressors by Gardner Denver policy is one of continuous improvement and we therefore reserve the right to alter specifications and prices without prior notice. All products are sold subject to the Company's conditions of sale.

©2017 Gardner Denver, Inc. Printed in U.S.A.
LRCS-LGT24-LGT30 1st Ed. 11/17

