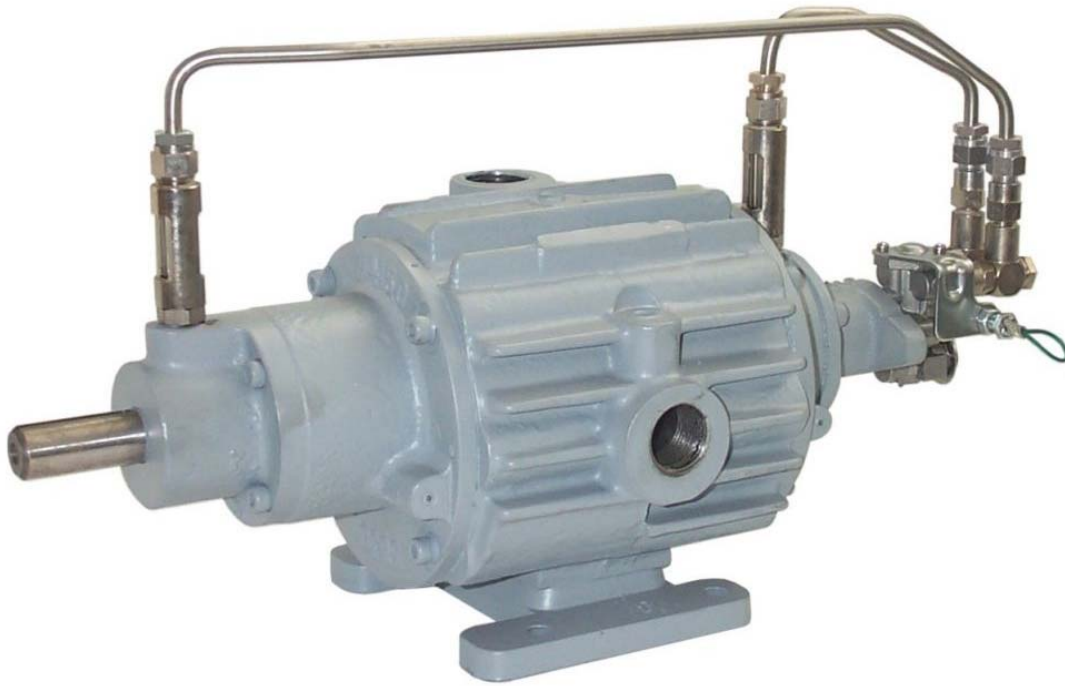


LG series

Rotary Gas Compressors for Gas Boosting & Vapour Recovery



SPECIFICATION

The LG series of aircooled gas compressors has been designed to work continuously at pressures upto 25 psig or 75 psig as the second stage in a two-stage compressor system.

Rugged construction coupled with many years of development ensures long life and high efficiency for these compressors that are available as bareshaft or complete packaged units.

The simple design of the rotary vane compressor with few moving parts ensures operational reliability, low noise levels and minimal maintenance.

FEATURES

The sealed bearing housings with individual oil feeds, ensure complete reliability when on vapour recovery or handling aggressive gases. The bearing housings are completely isolated against the gas by mechanical shaft seals and viton bearing seals, allowing the bearings to always run in clean oil.

- ◆ The shaft is mounted on roller bearings at both ends and the rotor is axially located at the drive end by a ball bearing.
- ◆ Deep fins are cast into the cylinder to assist cool running and the cylinder is bored to a fine finish to ensure long vane life, and low noise levels.
- ◆ The sliding vanes are manufactured from a Kevlar based material having excellent wearing properties.
- ◆ A mechanical lubricator at the rear end provides lubrication for the cylinder and bearings.
- ◆ Special tools are not required to replace or inspect the vanes for wear.
- ◆ Cylinders, coverplates and rotors are manufactured in Ductile Iron.

DIMENSIONS AND PERFORMANCES

PERFORMANCE

| MODEL | | LGA 12 | | | | LGA 18 | | | | LGB 32 | | | |
|-------|--------|--------|------|------|------|--------|------|------|------|--------|------|------|------|
| PSIG | RPM | 1000 | 1400 | 1800 | 2200 | 1000 | 1400 | 1800 | 2200 | 1000 | 1400 | 1800 | 2200 |
| 5 | MSCF/D | 9.5 | 13.1 | 16.8 | 20.6 | 13.8 | 19.6 | 25.2 | 30.8 | 24.6 | 35.4 | 46.8 | 57.6 |
| | CFM | 6.6 | 9.1 | 11.7 | 14.3 | 9.6 | 13.6 | 17.5 | 21.4 | 17.1 | 24.6 | 32.5 | 40.0 |
| | BHP | 0.5 | 0.7 | 0.9 | 1.1 | 0.8 | 1.1 | 1.4 | 1.8 | 1.2 | 1.6 | 2.0 | 2.4 |
| 10 | MSCF/D | 8.8 | 12.2 | 15.8 | 19.4 | 13.1 | 18.6 | 23.9 | 29.1 | 23.7 | 33.8 | 43.3 | 53.4 |
| | CFM | 6.1 | 8.5 | 11.0 | 13.5 | 9.1 | 12.9 | 16.6 | 20.2 | 16.5 | 23.5 | 30.1 | 37.1 |
| | BHP | 0.8 | 1.0 | 1.2 | 1.4 | 1.0 | 1.4 | 1.8 | 2.2 | 1.6 | 2.2 | 3.0 | 3.7 |
| 15 | MSCF/D | 8.2 | 11.5 | 14.7 | 17.8 | 12.5 | 17.6 | 22.5 | 27.4 | 22.7 | 32.0 | 41.0 | 50.1 |
| | CFM | 5.7 | 8.0 | 10.2 | 12.4 | 8.7 | 12.2 | 15.6 | 19.0 | 15.8 | 22.2 | 28.5 | 34.8 |
| | BHP | 0.9 | 1.2 | 1.5 | 1.8 | 1.3 | 1.8 | 2.4 | 2.9 | 2.1 | 3.0 | 3.8 | 4.6 |
| 20 | MSCF/D | 7.6 | 10.7 | 13.7 | 16.7 | 11.8 | 16.4 | 21.0 | 25.5 | 21.7 | 30.4 | 38.9 | 47.4 |
| | CFM | 5.3 | 7.4 | 9.5 | 11.6 | 8.2 | 11.4 | 14.6 | 17.7 | 15.1 | 21.1 | 27.0 | 32.9 |
| | BHP | 1.0 | 1.4 | 1.8 | 2.2 | 1.6 | 2.2 | 2.8 | 3.4 | 2.6 | 3.6 | 4.6 | 5.6 |
| 25 | MSCF/D | 7.0 | 9.9 | 12.7 | 15.5 | 10.9 | 15.3 | 19.7 | 24.0 | 20.3 | 28.5 | 36.7 | 44.9 |
| | CFM | 4.9 | 6.9 | 8.8 | 10.8 | 7.6 | 10.6 | 13.7 | 16.7 | 14.1 | 19.8 | 25.5 | 31.2 |
| | BHP | 1.3 | 1.7 | 2.1 | 2.5 | 1.8 | 2.5 | 3.3 | 4.0 | 3.1 | 4.3 | 5.5 | 6.7 |

Note: All units are factory tested. Volumes listed are based on standard conditions measured on AIR at sea level, 14.7 psia and 60°F. Actual volumes will vary with changes in elevation, inlet pressure and ambient temperature.

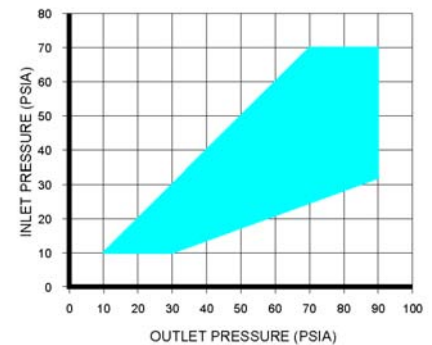
ACCESSORIES

We also manufacture and supply a wide range of equipment to complement these compressors.

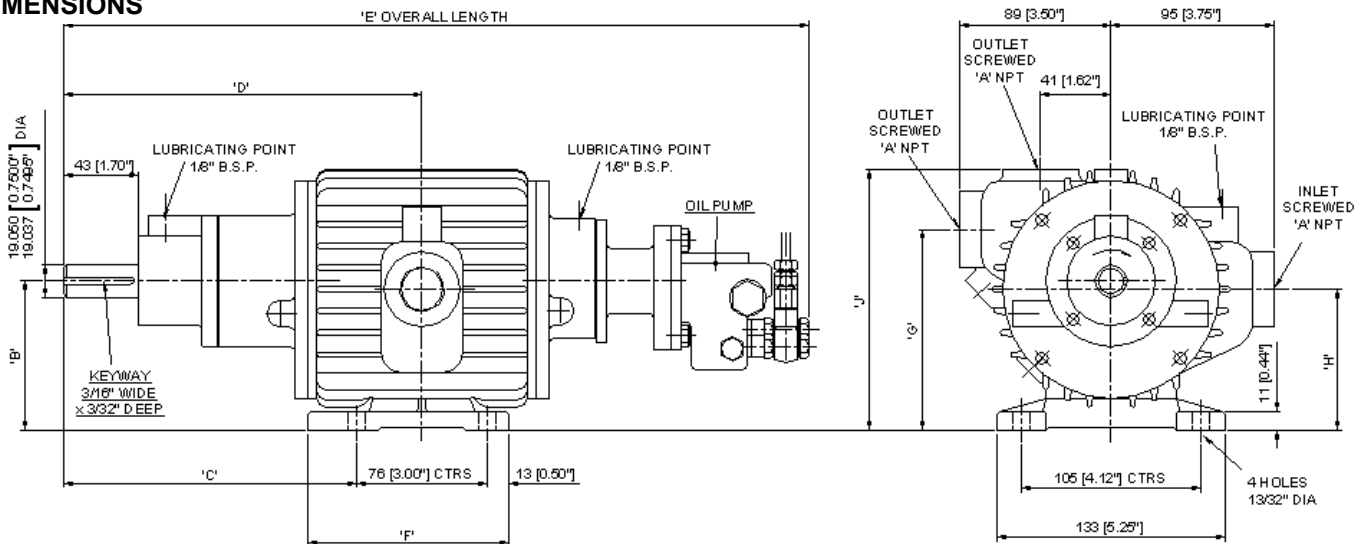
Contact us for details of:

Relief valves, bypass heat exchangers, check valves, filters, oil and moisture separators, aftercoolers and all your other requirements.

PRESSURE LIMITATIONS



DIMENSIONS



| MODEL | A | B | C | D | E | F | G | H | J | Kgs [lbs] |
|--------|-------------|------------|-------------|-------------|--------------|-------------|-------------|------------|-------------|-----------|
| LGA 12 | 1/2" - 14 | 87 [3.44"] | 149 [5.87"] | 187 [7.38"] | 386 [15.18"] | 117 [4.63"] | 117 [4.63"] | 83 [3.25"] | 152 [6.00"] | 13 [29] |
| LGA 18 | 3/4" - 14 | | 171 [6.75"] | 210 [8.25"] | 430 [16.94"] | | | | | 16 [35] |
| LGB 32 | 1" - 11 1/2 | 95 [3.75"] | 194 [7.63"] | 240 [9.13"] | 475 [18.68"] | 102 [4.00"] | 124 [4.88"] | 89 [3.50"] | 165 [6.50"] | 19 [42] |

All dimensions in millimetres with inches in brackets. Inlet and outlet screwed sizes in inches NPT.

Whilst the details contained in this leaflet are representative of the machines, the actual products may differ from the illustrations due to improvements in design. Certified copies and performance curves will be supplied on request.

The Utile Engineering Co. Ltd

IRTHLINGBOROUGH, NORTHAMPTONSHIRE. NN9 5UG. ENGLAND
 TEL: +44 (0)1933 650216 FAX: +44 (0)1933 652738
 E-mail: sales@utileengineering.com Website: www.utileengineering.com