

GAS BARE SERIES

## Rotary Screw Gas Compressors

### Model SSMG99D

LeROI rotary screw gas compressors incorporate design features that meet the demands for efficient, flexible, durable operation placed on them by the Natural Gas Industry.

### Design Features

- O-Ring Flange Seals
- Large Rotors and Bearings for Low Speed Operation
- Cylindrical Roller Inlet Bearings
- Tapered Roller Discharge Bearings
- Automatic Turn Valve Capacity Control
- Stop-Limits for Fully Opened and Fully Closed Turn Valve Positions
- Turn Valve Indicator Standard on Turn Valve-Equipped Gas Ends
- 3 Axis Vibration Pick-up Points
- Available Frame-Mounted Oil Pump
- Available Vertical or Horizontal Inlet Valve

### Natural Gas Applications

LeROI rotary screw gas ends are well suited for natural gas compressor applications. All LeROI gas compressors are constructed of ferrous metal. No yellow metals are used in the gas end construction. This allows the LeROI rotary gas compressor to be used in virtually any natural gas application.

### Premium Features

LeROI offers more features per horsepower, more features for your dollar, more options to match your job, and more efficiency to save on your energy costs. The savings of owning and operating a LeROI rotary gas compressor begin to build the minute you turn it on - and keep building throughout its long, productive life.

### Exclusive LeROI Features

All LeROI rotary screw compressors contain a unique combination of outstanding features:

- Exclusive KYPHO rotor profile returns greater efficiency over its operating range and delivers a 3% to 5% operating efficiency advantage over standard rotor designs. Its asymmetrical rotor shape inherently provides a tighter seal between the grooves of the rotors to reduce slippage, eliminate vibration, and increases efficiency.
- Rotors, up to 41% larger in diameter than other compressor brands, allow our rotor operating speeds to be among the lowest in the industry. Low speeds extend compressor life, reduce compression heat and contribute to overall lower operating cost.
- Long-life bearings mean longer service. All LeROI gas screw compressors are designed with time-proven tapered roller bearings. LeROI uses bearings as much as 170% larger than competitive models.
- Standard features, such as tapered roller bearings and vibration pick-up points, as well as available options such as oil pumps and inlet valves, give LeROI gas compressors the versatility to match your demanding application.



## Durability Measured in Decades

Since 1859, LeROI has designed and built the industry's highest quality products. To better serve your needs, LeROI continues to build products that maximize efficiency and durability. Our rotary screw compressors for natural gas applications are no exception to this tradition. LeROI rotary gas compressors are constructed using advanced technology, careful engineering, micro-precision manufacturing, and total quality management. These inherent features make LeROI the choice when reliability and total value are the criteria.

## Engineering Data

BRAKE HORSEPOWER	INLET PRESSURE	DISCHARGE PRESSURE	RPM RANGE	V'S AVAILABLE
135 Max.	50 PSIG Max.	375 PSIG Max.	742-3245	1.8; 2.2; 3.0; 5.2

### Rotor Dimensions

MALE ROTOR O.D.	FEMALE ROTOR O.D.	LENGTH	L/D RATIO
8.1"	7.5"	13.5"	1.66

INPUT SHAFT			AUXILIARY SHAFT O.D.	MOMENT OF INERTIA ("R <sup>2</sup> ") [LB*FT <sup>2</sup> ]
O.D.	KEYWAY	STIFFNESS		
1.7490"-1.7495"	0.375"	3.07 x 10 <sup>6</sup> in*lb/rad	1.25"	7.24 lb * ft <sup>2</sup>

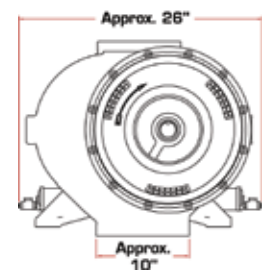
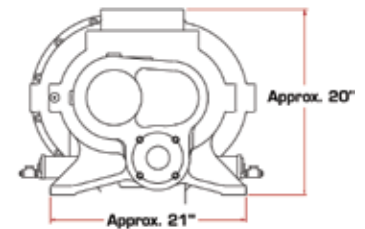
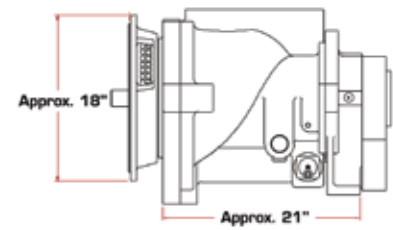
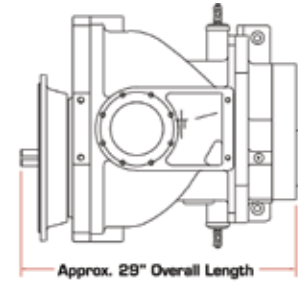
MOUNTING FLANGES AVAILABLE	DISCHARGE FLANGES AVAILABLE	INLET VALVE FLANGES AVAILABLE
SAE (3) "C" Flange; "D" Flange Plain (Foot) Mounting	2.5" 150# 2.5" 300#	5" 150# Vertical 4" 150# Horizontal

### Materials

ROTORS	BEARINGS	FRAME	SHAFT SEALS
Nodular Iron	Steel	Cast Iron	Mechanical

### Oil Pump (0 PSI, 1800 rpm, 200 SSU)

CAPACITY	HORSE POWER	WEIGHT (APPROX.)
37 GPM	1.2 HP	670#



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