

GAS BARE SERIES

Rotary Screw Gas Compressors

Model SSYG99C

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 All Gas Ends
- 3 Axis Vibration Pick-up Points
- Available Frame-Mounted Oil Pump
- Available Horizontal Inlet Valve
- Field-Changeable Vi, With Four Settings From 2.8 to 4.6

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 power 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 Gas 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 increase efficiency.
- Rotors, up to 41% larger in diameter than other gas 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 a total cost of ownership.
- Long-life bearings mean longer service. All LeROI gas compressors are designed with large, cylindrical roller bearings at the inlet and time-proven tapered roller bearings at the discharge. LeROI uses bearings as much as 170% larger than competitive models.
- New “Quick Change Vi” feature (available on SSU & SSY models) allows the user to choose from four Vi ratios at which to operate, using a quick and easy method of changing the arrangement of spacers and plugs at the discharge end. The right Vi for your application means maximum efficiency, meaning no additional parts to buy or keep in stock.



Durability Measured in Decades

LeROI has designed and built the industry's highest quality products. To better serve your needs, LeROI continually builds products to 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	GEAR RATIOS AVAILABLE
660 max.	50 psig max.	250 psig max.	/01 (0.846), /02 (0.959), /03 (1.18), /04 (0.745), /06 (1.042), /07 (1.0), /08 (1.133), /09 (1.4), /11 (1.461) 65 psig max.

Rotor Dimensions

MALE ROTOR O.D.	FEMALE ROTOR O.D.	LENGTH	L/D RATIO
14.6"	11.8"	22.8"	1.56

INPUT SHAFT				MOMENT OF INERTIA ("R") [LB-FT ²]
O.D.	KEYWAY	STIFFNESS	END-PLAY	
2.9990" - 2.9995"	0.75"	23.646 x 10 ⁶ in-lb/rad	0.002" - 0.007"	"01" - 95.2, "02" - 120.3, "03" - 178.6, "04" - 75.3, "06" - 140.8, "07" - 130.2, "08" - 165.9, "09" - 255.7, "11" - 279.0

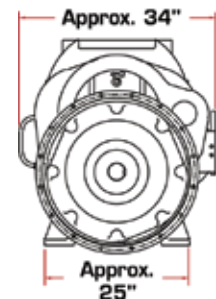
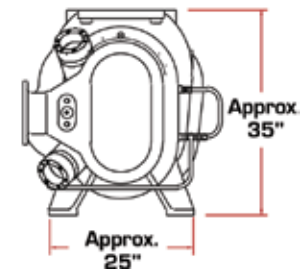
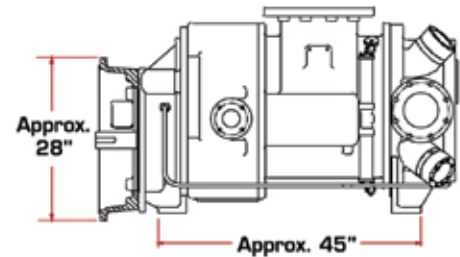
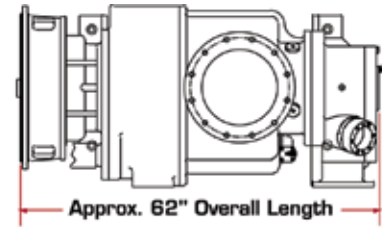
MOUNTING FLANGES AVAILABLE	DISCHARGE FLANGES AVAILABLE	INLET VALVE FLANGES AVAILABLE
SAE 0 "D" Flange Plain (Foot) Mounting	6" 150# 6" 300#	12" 150#

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.)
84 GPM	3.5 HP	4,000#



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