



The Series 7L Diaphragm Compressor
for pressures up to 6,250 psig

Series 7L

Diaphragm Compressor



The Sundyne Series 7L Diaphragm Compressor is available in single and two stage configurations. Sub-series models are as follows:

- 5000, Single Stage
- 5L/H, Two Stage
- 7000, Single Stage
- 7L/H, Two Stage
- 9000, Single Stage
- 9L/H, Two Stage

APPLICATIONS

- Petrochemical
- Specialty and industrial gases
- Silicon manufacturing
- Cylinder filling
- Equipment cooling systems
- Gas blending & mixing
- Gas recycle systems
 - Gas transfer - hazardous, toxic, flammable or radioactive gasses
- Hydrogen & oxygen generator boost systems
- Hydrogenation processes
- Rare and specialty gas handling
- Semiconductor gas handling
- Sour gas processing
- Supercritical solvent extraction systems
- Vapor deposition

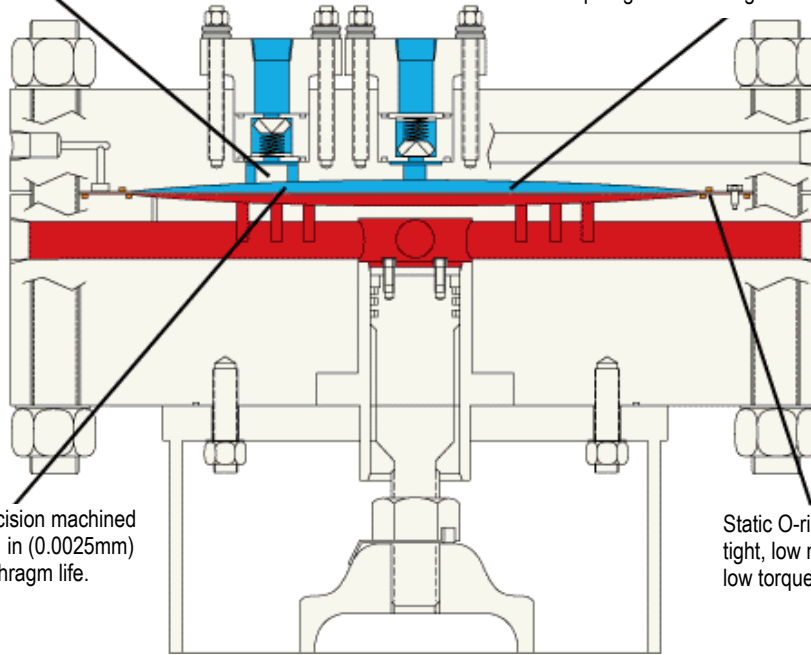
Specifications

Maximum Working Pressure	6,250 psig
Maximum Motor Size	200 149
Mounting	L or H configuration
Maximum Displacement	110.9 ft ³ /min
Speed Range	250 to 350 rpm
Maximum Discharge Temperature	450°F 232°C
Stroke Length	7 in.
Process Connection Flanges	1 to 2 in
Piston Range	0.9 to 10 in
Crankshaft Diameter	5.5 in
Crankpin Diameter	4 in
Main Bearing Type	Tapered Roller
Crank Bearing Type	Babbit Sleeve
Crank Pin Bearing Type	Roller
Lubrication-ISO	150
Lubrication Type	Forced
Sump Capacity-Quarts	34
Oil Cooler	Required
Cooling Type	Water Cooled
Materials of Construction	Process Side: SS Crankcase: Ductile Iron Connecting Rod: High Strength Ductile Crosshead: Cast Iron Cylinder: Ductile Iron Wrist Pin: Tool Steel



Process contacting parts are machined from corrosion-resistant metals for long life.

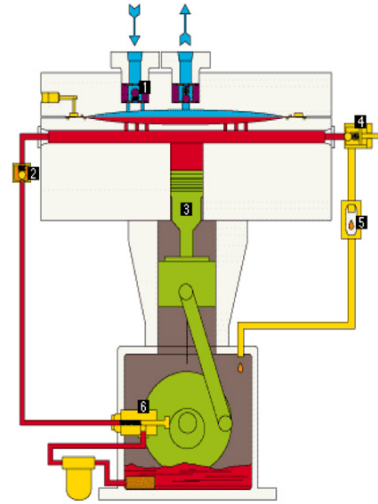
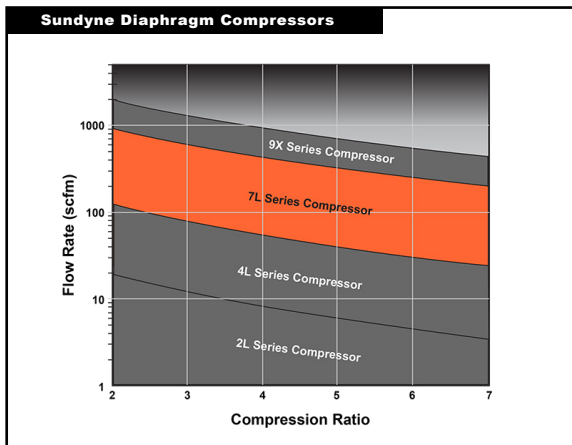
Triple diaphragm construction ensures non-contaminating compression and allows rapid detection of diaphragm and diaphragm seal leakage.



Cavity contours are precision machined and inspected to 0.0001 in (0.0025mm) to ensure optimum diaphragm life.

Static O-ring seals provide leak-tight, low maintenance closures and low torque requirements.

PERFORMANCE



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