



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

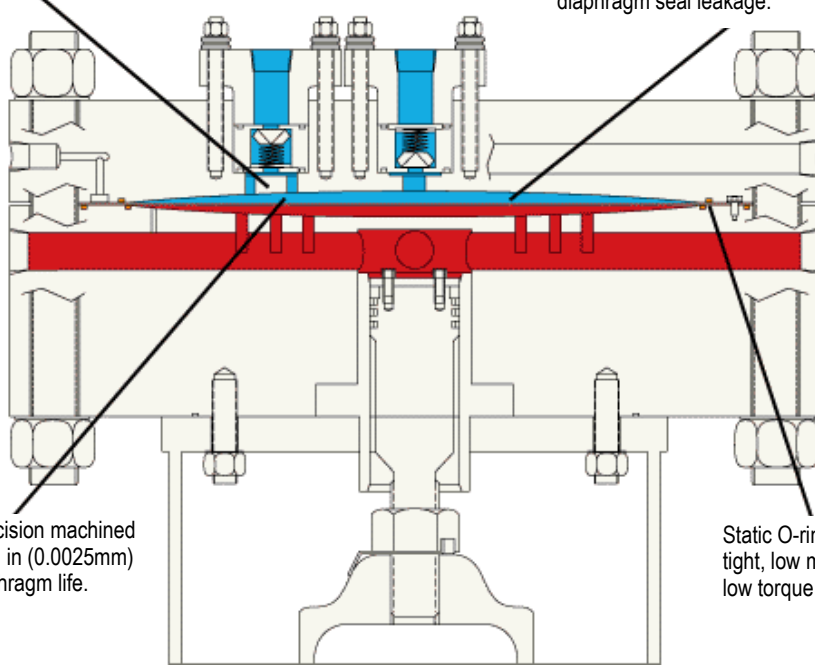
### Specifications

Maximum Working Pressure	6,250 psig	
Maximum Motor Size	200	149
Mounting	L or H configuration	
Maximum Displacement	110.9 ft <sup>3</sup> /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.

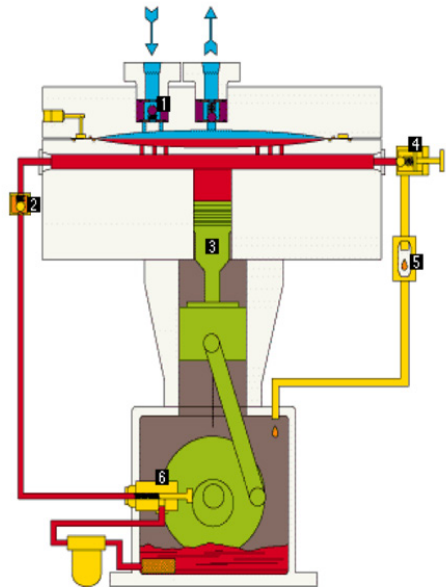
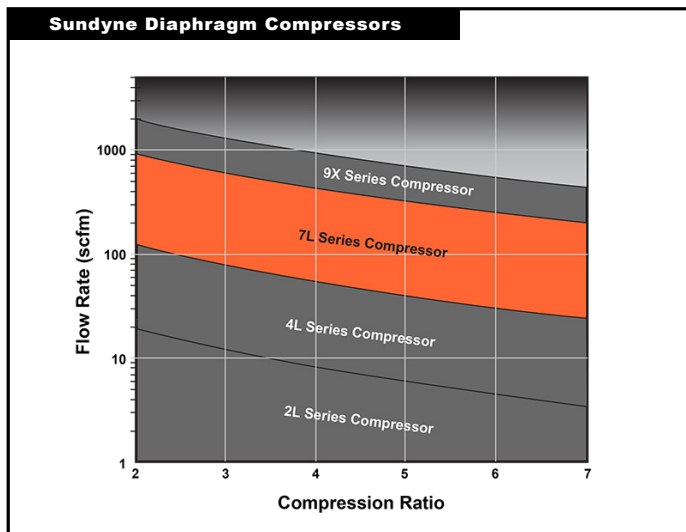
Triple diaphragm construction ensures non-contaminating compression and allows rapid detection of diaphragm and diaphragm seal leakage.



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



Visit our website at: [www.sundyne.com](http://www.sundyne.com)

Sundyne Headquarters: Sundyne, LLC 14845 W. 64th Ave. Arvada, CO 80007 USA 1-866-SUNDYNE (US and Canada) Ph: +1 303 425 0800 Fax: +1 303 425 0896

Sundyne China: Bldg. 1, No. 879 Shen Fu Road, XinZhuang Industrial Zone, Min Hang District, Shanghai, China 201108 Ph: +86 21 5055 5005 Fax: +86 21 5442 5265

Sundyne France: Sundyne International S.A. 13-15, Bld. Eiffel - B.P. 30 21604 Longvic Cedex France Ph: +33 (0)3 80 38 33 00 Fax: +33 (0)3 80 38 33 66

Sundyne Spain: Sundyne Marelli Bombas, S.R.L. Ctra. Madrid-Toledo, Km.30.8 45200 Illescas Toledo, Spain Ph: +34 925 53 45 00 Fax: +34 925 51 16 00

Sundyne United Kingdom: Sundyne HMDKontro Sealless Pumps, Ltd. Marshall Rd Hampden Park Industrial Estate Eastbourne East Sussex, BN22 9AN UK Ph: +44 1323 452000 Fax: +44 1323 503369

© 2013 Sundyne, LLC All rights reserved. Other logos and trade names are property of their respective owners. Series 7L Diaphragm Compressor\_A4\_DS\_POD\_v1.0\_052014