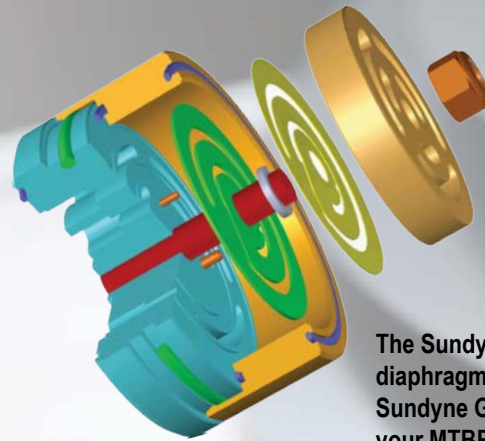




## Sundyne Genuine Parts For Reciprocating Sealless Diaphragm Compressors



The Sundyne sealless line of diaphragm compressors features Sundyne Genuine Parts to extend your MTBR and keep your operations up and running.





- ✓ HIGHER EFFICIENCY
- ✓ LONGER BEARING LIFE
- ✓ LONGER FLUID LIFE
- ✓ IMPROVED COMPONENT LIFE
- ✓ ONLY PARTS SPECIFICALLY DESIGNED FOR DIAPHRAGM COMPRESSION DUTY

### Sundyne Genuine Parts For Diaphragm Compressors Maintain The Reliability Of Your Sealless Gas Compressor

Sundyne sealless diaphragm compressors deliver total assurance of non-contaminating gas compression. Boasting a leak tight mechanism that features static seals which do not need to be purged or vented, these compressors present absolutely zero leakage threat to the atmosphere, providing an ideal solution for safely handling ultra-pure, corrosive and volatile gases.

Engineered to isolate the process media from the piston or piston rings with a set of metallic diaphragms, these designs completely eliminate the risk of cross contamination; most models are built to meet API 618 standards where applicable to diaphragm compressors, as well.

**WARNING:** The safety and reliability of your Sundyne sealless diaphragm compressor is compromised if non-OEM parts and spares are used. We provide a full range and ease of ordering for all Sundyne diaphragm compressor replacement parts.



#### Fast, Easy Maintenance

Sundyne exclusively delivers what we believe to be are the essential components required for your most demanding service work. There is no more cost effective way to keep your Sundyne sealless diaphragm compressor operating at peak efficiency.

- O-ring Kits
- Check Valves
- Overpump Valves
- Diaphragms

Realize reliability AND cost savings in your process with an inventory of Sundyne parts, today!



◀ All process contacting parts are made from corrosion resistant alloys.

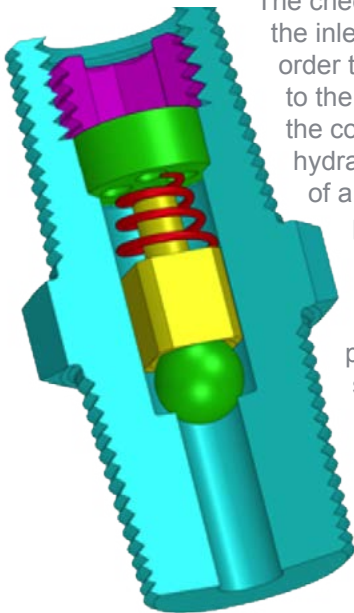
### Sundyne Check Valves For Sealless Diaphragm Compressors – Valves To Match Your Unique Process Conditions

Commercially available valves are not engineered for long-term reliability under high frequency cyclic response and higher operating pressures, making them unreliable for use in sealless diaphragm compressor designs.

Sundyne takes a comprehensive view at all key process variables while designing check valves for our diaphragm compressor line, selecting materials that minimize wear, improve sealing and reduce corrosive effects.

Additionally, process conditions dictate the style of valve we select for a given process. For instance, elastomeric sealed poppet valves are used for discharge pressures of around 5000 psi (345 bar), metal sealed ball valves are preferred for higher pressure applications, and plate-type designs are generally selected for high capacity compressors.

### Hydraulic Inlet Check Valves

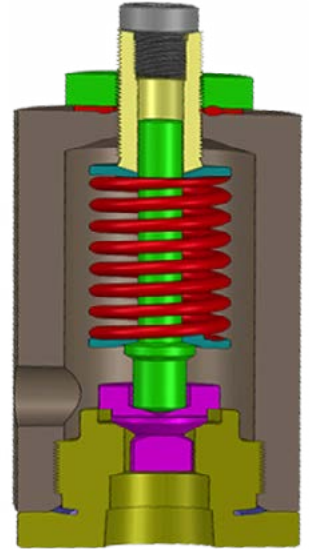


The check valve is located at the inlet of the hydraulic head, in order to prevent back-flow of oil to the injection pump during the compression stroke. The hydraulic inlet check valve is of a simple, sturdy ball-type, purpose-designed for service on the hydraulic system of diaphragm compressors. Field proven to provide reliable service over a long period, it features all-metal construction, using heat treated materials for high durability and long life.

▲ The hydraulic inlet check valve for Sundyne sealless diaphragm compressors is field proven to provide reliable extended service.

### Hydraulic Overpump Valves

The Sundyne hydraulic overpump valve controls the oil pressure for the compressor's hydraulic system. It maintains sufficient hydraulic pressure to achieve the specified process gas discharge pressure. Featuring a robust construction using a heat treated metal-to-metal, low-lift poppet and seat that relieves on every stroke.



▶ The hydraulic overpump valve for Sundyne sealless diaphragm compressors is field proven to provide thousands of hours of reliable operation.

### The Diaphragm – Enhanced Material Engineering For Maximum Performance

All aspects of the diaphragm design are intended to enhance component life and improve operation, while simultaneously simplifying and reducing the need for maintenance. Because of this, Sundyne sealless diaphragm compressors will run for years with routine maintenance and oil changes.



Constructed from special materials that provide enhanced strength, elasticity and durability, the Sundyne genuine diaphragm is engineered to perform to well over  $10^8$  cycles, giving you the peace of mind, trust and security you demand.

For more information, contact your local Sundyne Channel Partner today to ensure your compressor is operating at its peak!



At Sundyne, Environmental Health and Safety (EH&S) is integral to our culture of excellence. Providing a 100% safe work environment through the manufacturing and installation phases is a core priority for each project we deliver.

**Backed By Global Support**

Sundyne is more than just a manufacturer of high quality compressors and pumps...much more. Not only do we offer some of the fastest delivery times in the industry, we also back each and every product shipped with a full range of aftermarket support services, extending the value of our highly engineered machines well beyond the point of sale.

With our training services, worldwide presence and compact designs, installation and maintenance has never been more efficient.

The Sundyne service team is here to help protect your investment and provide a trouble-free customer experience at every turn. That's **RELIABILITY REALIZED.**

**Our aftermarket programs include:**

- Expedite Programs
- Maintenance Kits
- Conversion Programs
- Gearbox Exchanges
- Service Schools / Training
- On-Site Service
- Overhaul and Repair Services



To learn more about our extended service offerings and specific application references, visit [www.sundyne.com](http://www.sundyne.com) or contact us toll-free at 1-866-SUNDYNE.

**RELIABILITY  
REALIZED.**

**COMPRESSORS**

**PUMPS**

**GENUINE PARTS**

**SERVICE**

**Sundyne, LLC**  
14845 West 64th Avenue  
Arvada, Colorado 80007  
USA  
1-866-Sundyne  
Phone: 1 303 425 0800  
Fax: 1 303 425 0896  
[www.sundyne.com](http://www.sundyne.com)

**Sundyne PPI**  
201 Ivyland Rd.  
Ivyland, Pennsylvania 18974  
USA  
Phone: 1 215 675 1600

**SundyneHMD/Kontro Sealless Pumps, Ltd.**  
Marshall Road  
Hampden Park Industrial Estate  
Eastbourne East Sussex, BN22 9AN  
United Kingdom  
Phone: +44 1323 452000  
Fax: +44 1323 503369

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

**Sundyne China**  
Building 1, No. 879 Shen Fu Road  
XinZhuang Industrial Zone  
Min Hang District  
Shanghai, China 201108  
Phone: +86 21 50555005  
Fax: +86 21 54425265

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



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