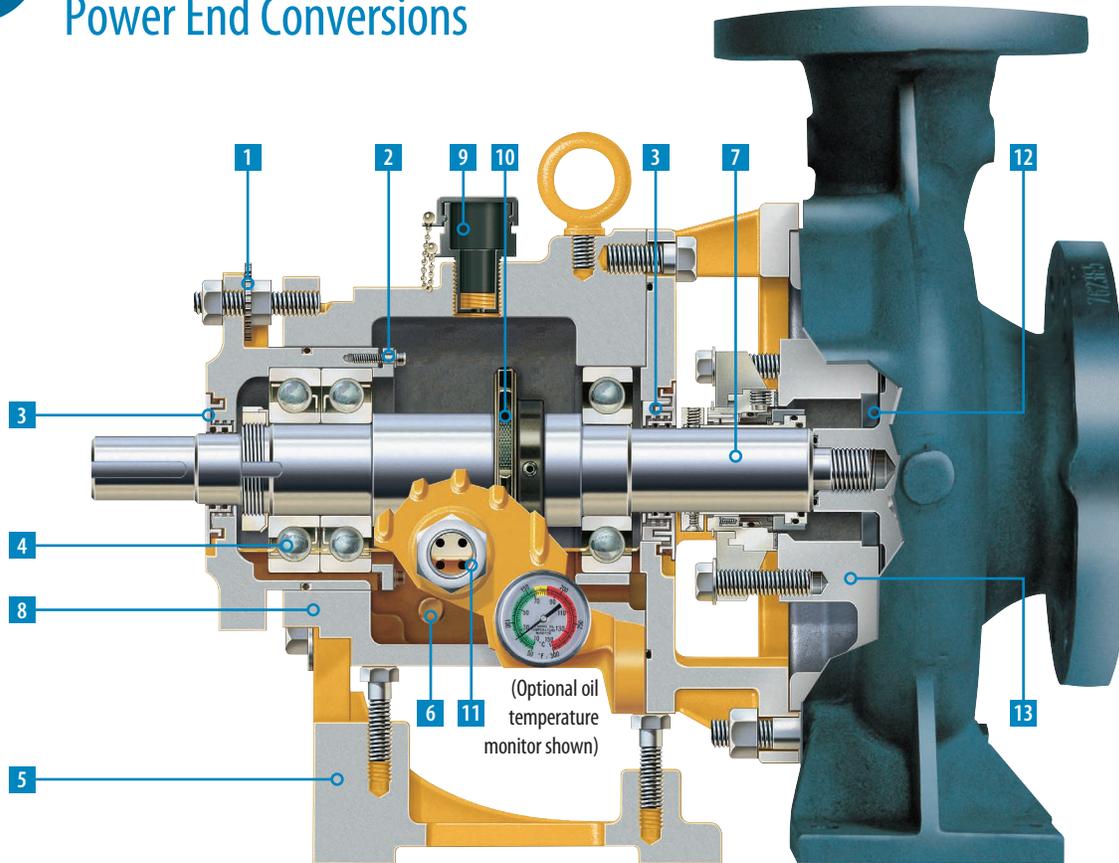




System One® Power End Conversions



LD23 and LD18 Power End Conversions

Designed for direct fitup to Goulds¹ and Durco² ANSI pumps

Provides superior LD ratio for maximum reliability

Construction

- 1** Micrometer adjustment nuts fine tune impeller setting for maximum efficiency
- 2** Positive locking thrust bearing retainer cover for maximum bearing holding power and minimum axial movement
- 3** Labyrinth Seals provide non-wearing lifetime protection for radial and thrust bearings

4 7310 (pair) angular contact bearings are standard for high thrust capability

5 Full support rear leg assures bearing frame remains upright during pump disassembly. Full adjustability aids in alignment

6 Two magnetic plugs are provided to maintain clean oil and are removable for insertion of cooling oil

7 Solid shaft (no sleeve) with minimal overhang provides superior resistance to deflection. Lowest L^3/D^4 stiffness ratio in the industry

8 Rabbit for C-Frame (NEMA) or D-Flange (IEC) motor adapter for rapid and precise motor alignment

9 Large oil inlet for easy filling of oil; the sealed cover minimizes dirt and moisture entry

10 Flinger filter constantly cleans oil during pump operation

11 Oil sight glass for constant monitoring of oil level and condition

12 Optional throat bushing available for specific seals

13 Optional System One taper bore back cover accepts most standard mechanical seals (OEM cover, if used, requires modification due to thicker shaft.)

¹ Goulds is a registered trademark

² Durco is a registered trademark



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L³/D⁴ and Bearing Comparison

Pump Model	System One LD23/LD18	Goulds MT ¹	Durco Group II ²	System One Frame S	Goulds ST ¹	Durco Group I ²	System One Frame M	Goulds XLT ¹	
Without sleeve	23 Gld/18 Dur (0.9/0.7)	62 (2.3)	37 (1.7)	46 (1.9)	64 (2.5)	127 (4.4)	19 (0.7)	25 (0.9)	
With sleeve	N/A	116 (4.4)	65 (2.5)	N/A	143 (4.5)	346 (14.3)	N/A	61 (2.3)	
Bearings:	radial	6310	6309	6310	6308	6207	6206.7	6314	313
	thrust	7310 (2)	5309	5310	5308	5306	5305.6	7314 (2)	5313
shaft diameter at seal	1.875 (48)	1.750 (45)	1.875 (48)	1.500 (38)	1.375 (35)	1.125 (29)	2.625 (67)	2.50 (64)	

Note: Some features of Frame S and Frame M power end conversions differ from LD23/18 described on page 1.

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Features

Stronger Shaft Resists Damaging Vibration

The System One power ends increase resistance to deflection and vibration. With a solid shaft (no sleeve) and shorter overhang, System One pumps offer the lowest LD ratio in the industry and are especially suited for maximizing seal/bearing life and operation off the BEP.

Superior Bearing Retention

Positive locking thrust bearing retainer cover for maximum bearing holding power and minimum axial movement.

Quality Motor Alignments

The System One power end features C-frame motor adaptor capability that provides precise alignment for quick and repeatable motor mounting and eliminates vibration. And, skill level, temperature concerns, and time constraints are all eliminated with the simplified motor mounting.



Optional Bearing Oil Temperature Monitors

Early warning helps prevent bearing failures and improve equipment reliability

Increase in oil temperature indicates bearing or lube failure

- Constant monitoring of lubrication environment
- Adapts to any type of oil-lubricated machinery by screwing into a 1/4" NPT connection
- Corrosion-resistant hermetically sealed stainless steel housing
- Polycarbonate lens and easy-to-read color coded dial
- Calibrated in both Fahrenheit and Celsius scales



C-Frame Motor Adaptor eliminates manual alignment problems

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