

Garlock 3-D Seal

Cartridge design, high mis-alignment seal

The 3-D Seal is designed to be the foremost solution for high radial misalignment and high run out applications. By combining Garlock's proven P/S®-II and expansion joint technologies into a single solution, Garlock has developed a seal that leads the industry in solving applications plagued with high misalignment and run out. While this seal is typically used on agitators and mixers, Garlock's wide range of available materials make it possible to configure this seal to fit a virtually endless array of applications in various industries. Each seal is custom designed to your application, allowing Garlock to minimize the difficulty of retrofitting your equipment and through this, increase value and further minimize the total cost of ownership.



BENEFITS

- » Dry running capability up to 800 FPM; Overall speed rated to 2,000 FPM
- » Provides excellent sealing ability, while mitigating extreme shaft movement
- » Multi-lip design allows for various sealing stages and configurations (pressure/vacuum)
- » Can be tailored to each unique application

INDUSTRIES

- » Food & Beverage
- » Primary Metals
- » Chemical Processing

APPLICATIONS

- » Pan Mixers - Sugar Refining
- » Quench Tanks - Primary Metals
- » Dry Media Hopper
- » Mixers
- » Agitators

SPECIFICATIONS

Pressure:	up to 150psi / 10 bar
Vacuum:	Full vacuum
Temperature:	300°F (148°C)
Surface speed:	2,000 fpm (10.16 m/s)
Movement capability:	1" total indicated runout (TIR) 1" total axial movement (TAM)
(specific movements calculated per application)	

STANDARD MATERIALS OF CONSTRUCTION

- » 316SS housing/sleeve
- » Chrome oxide sleeve coating
- » PTFE expansion joint

*alternate materials available upon request

KLZ 2:119_12.2020