PTX™ Steam Joint and Syphon System

For High-Performance Dryers

The PTX steam joint and cantilever stationary syphon are the ultimate in rotary joint and syphon technology for paper machine dryers. This modern system allows you to operate your steam and condensate system over a wide range of conditions, with flexibility and reliability.

Specifications

- Pressure: 160 psig (11 bar)
- Temperature: 400°F (204°C)
- Speed: 8000 fpm (2500 mpm)

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*With sight glass head.
Stationary Syphons Designed for Effective Condensate Removal

The PTX rotary joint is designed specifically for the cantilever stationary syphon. The rigid PTX ring bracket supports the syphon through a horizontal tube that passes through the dryer journal. The tube is held in the rotary joint with a taper lock and a specially designed hollow bolt. The syphon is positioned in the dryer and locked to the horizontal support tube. Following maintenance on the steam joint, the syphon can be put back into position without entering the dryer.

The support tube (A) provides the rigidity needed to resist the impact of condensate on the syphon shoe and the vortices that result.

This rigidity is further enhanced by the vertical support (B). This one-piece support strengthens and stiffens the vertical syphon pipe, to minimize its deflection and vibration. Decreased vibration allows the syphon shoe clearance to be accurately set, resulting in increased drying capacity and consistency of operation.

The syphon shoe (C) has a stainless steel clamp and a Teflon tip to further reduce the potential for dryer damage. It has a narrow profile to reduce flow resistance, loading stresses, and vibrations. The double-cut, double-bolt clamp and corrosion resistant material ensure long term performance.

Why the PTX Steam Joint
- Lightweight design for easy installation and maintenance
- Accommodates thermal expansion up to 20 mm
- Balanced seal design handles run-out and angular misalignment
- Large flow area for low pressure drop
- No shims required for set-up

Why the PTX Stationary Syphon
- Low operating pressure differentials for efficient operation at high speeds
- Rigid mounting for greatly improved high-speed reliability
- Controlled condensate levels for more efficient and consistent heat transfer
- Custom-engineered to avoid vibration harmonics