

API Plan 23 Seal Support System (Closed-Loop Seal Chamber Cooling)

TYPE : API PLAN 23

Cooler Coil :

- SS 316 / Duplex SS / Hastelloy / Titanium

Shell / Vessel :

- Carbon Steel / Stainless Steel / SS 316 / Duplex SS

Piping & Fittings :

- SS 316 / SS 304 / Carbon Steel / Alloy Materials

Operating Limits :

Size : On request

Speed : On request

Pressure : Up to 62 bars (899 psi)

Temperature : Up to +180 °C (+356 °F)

Application :

- Boiler Feed Water Pumps
- Hot Water Circulation Pumps
- Refinery & Petrochemical Hot Hydrocarbon Pumps
- Clean, Non-Polymerizing Chemical Process Fluids
- High-Temperature Services Needing Vapor Margin
- Single Seals with Seal Chamber Cooling
- Services Needing Low Cooling Water Use



Illustrative rendering

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Features :

- **Closed-Loop Recirculation** through an internal pumping ring and cooler.
- **Localized Cooling** removes seal heat without cooling the full process stream.
- **Improved Vapor Margin** reduces flashing risk at the seal faces.
- **Compact Cooler Duty** reduces heat exchanger size and cooling water use.
- **Better Lubricity** and stable face film in hot water service.
- **Vent & Drain Provisions** for commissioning, air removal and maintenance.
- **Close-Clearance Throat Bushing** recommended to limit hot product mixing.
- **Heat Removal** up to 10.5 kW (35,826 BTU/hr).

➤ **DIMENSIONS AND CONNECTIONS ON REQUEST**