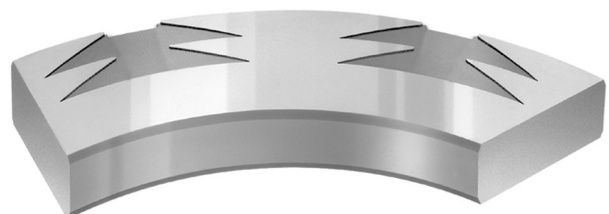


Unidirectional Groove Design



Bidirectional Groove Design



Product Description

The Aura range represents the next generation of John Crane gas seals, that reduces seal operating and transaction costs, extends maintenance intervals and reduces spares inventory. Utilizing John Crane's patented groove patterns, these seals are non-contacting in operation.

- Simplified and common global design
- Increased reliability
- Improved performance envelope

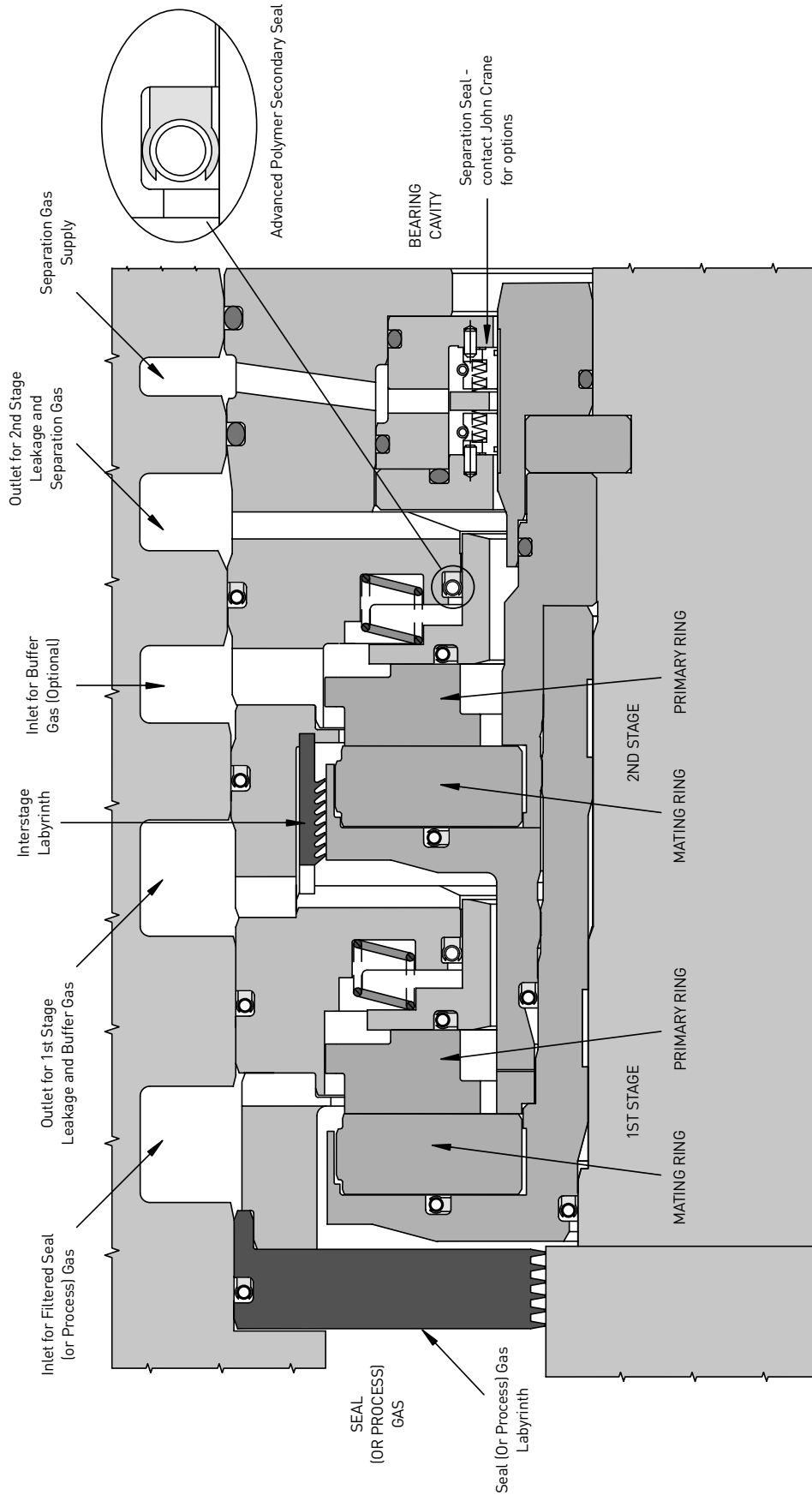
Design Features

- Optimized common rotor design with silicon carbide mating rings
- Balance diameter sealing - patented design includes component to seal retainer housing and carrier
- Polymers behind face and seat - for reduced emissions and wider performance envelope

Performance Capabilities

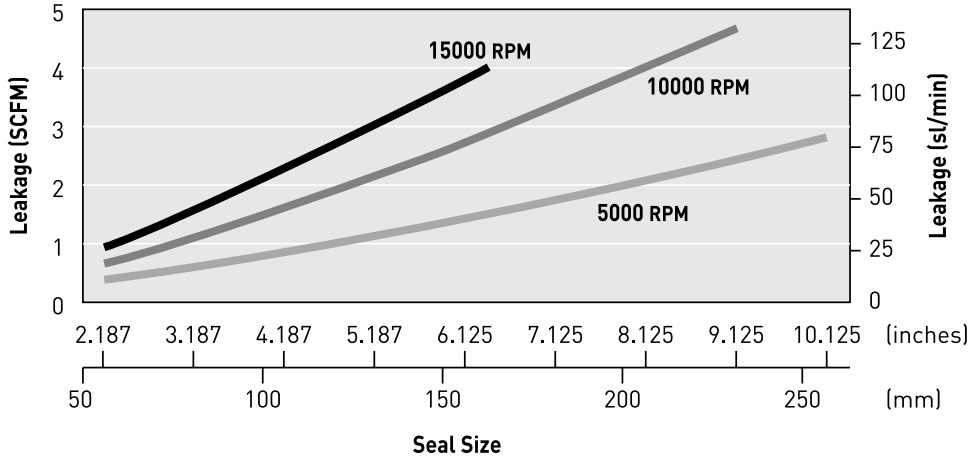
- Temperature: -58°F- 392°F/-50°C -200°C
- Static pressure: up to 3190 psi/220 bar
- Speed: up to 459ft/s/140m/s at balance diameter
- Size limits: shaft sizes up to 10.25"/260mm, corresponding to seal sizes up to 12.125"/307.9mm

Aura Typical Tandem Arrangement



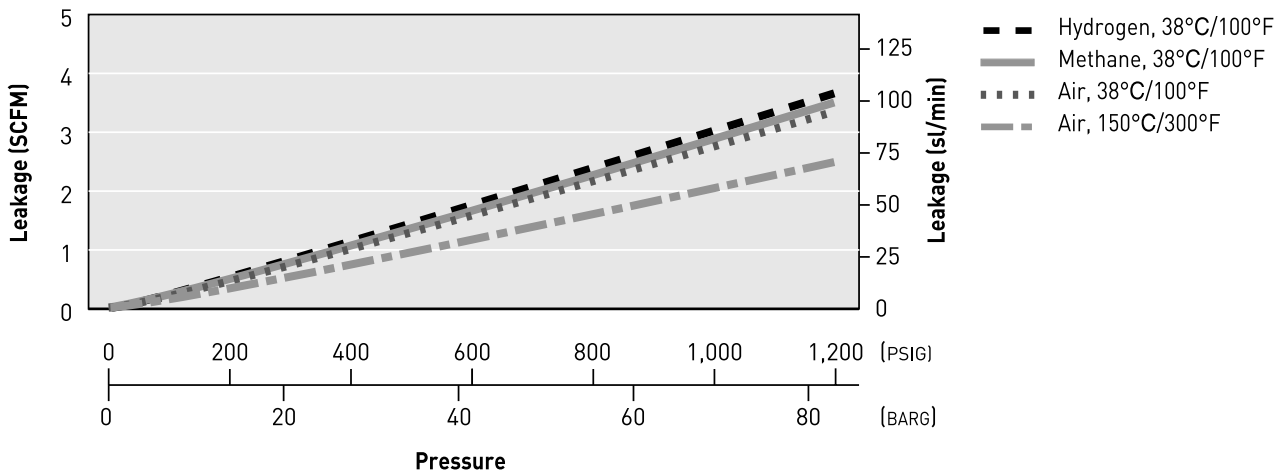
Illustrative Size and Speed Effect on Leakage

Conditions: Air, 83 BARG/1,200 PSIG



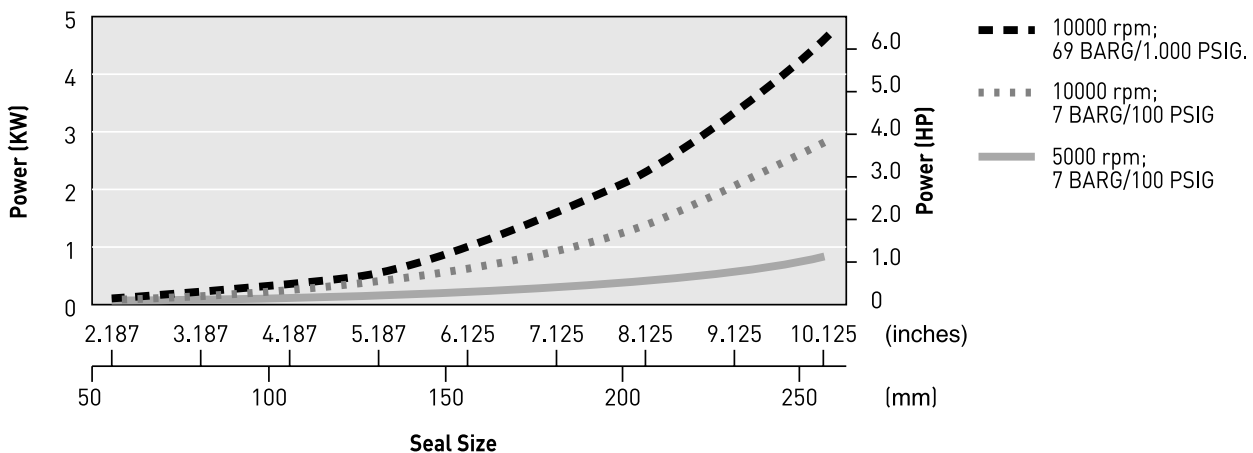
Pressure, Temperature and Gas Effect on Leakage

Conditions: 6.187-inch Diameter Seal, 14,000 rpm



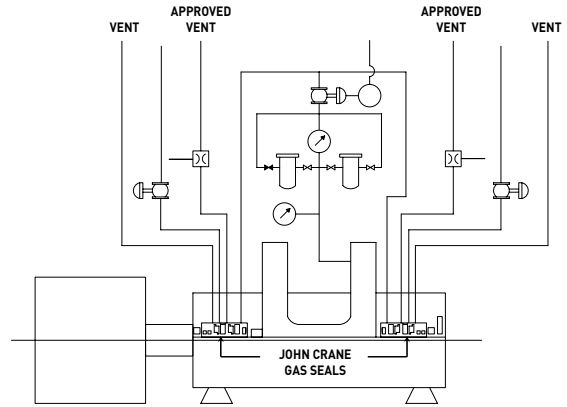
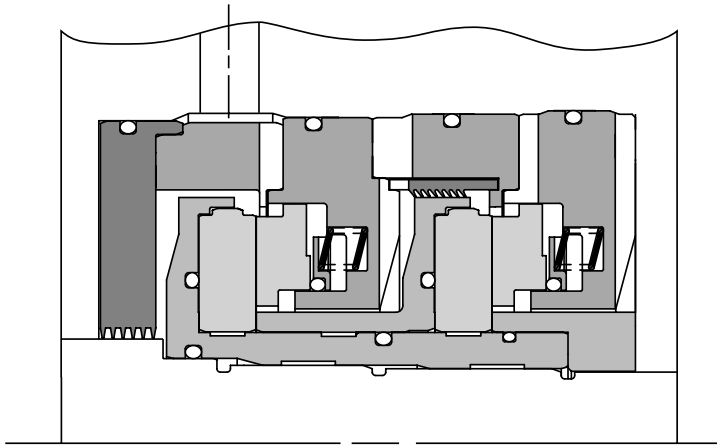
Gas Seal Power Consumption

Conditions: Air, 140°F/60°C



*This information should not be used for specification purposes. Contact John Crane for more information about exact application requirements.

Typical Tandem Seal Arrangement and Seal Support System



*Tandem Seal Arrangement for applications requiring a safety back-up seal.



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