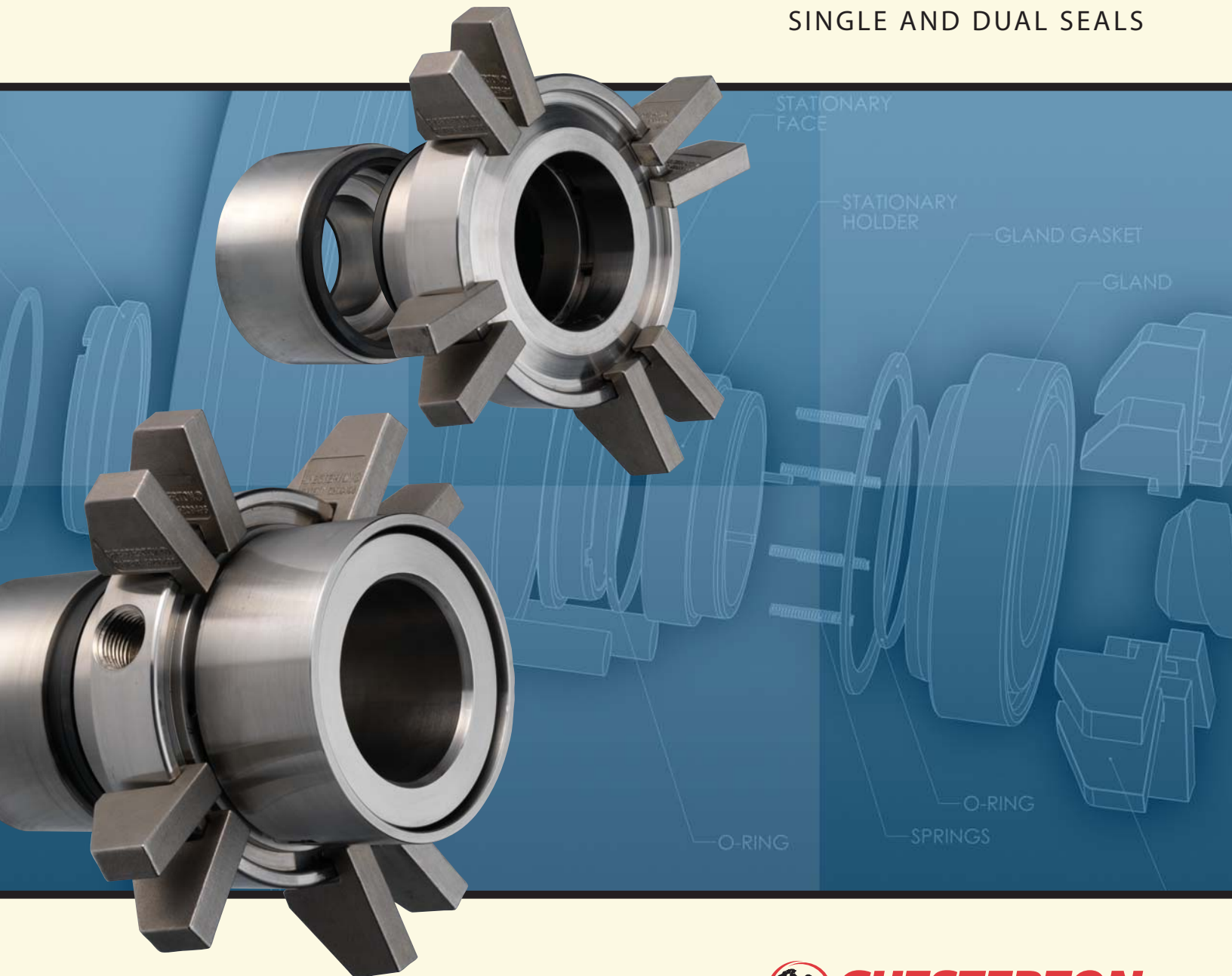


DIRECTFIT™

CHESTERTON SEALS DESIGNED TO FIT
SULZER APP/NPP PUMP MODELS

SINGLE AND DUAL SEALS



SINGLE AND DUAL SEALS

DIRECTFIT™

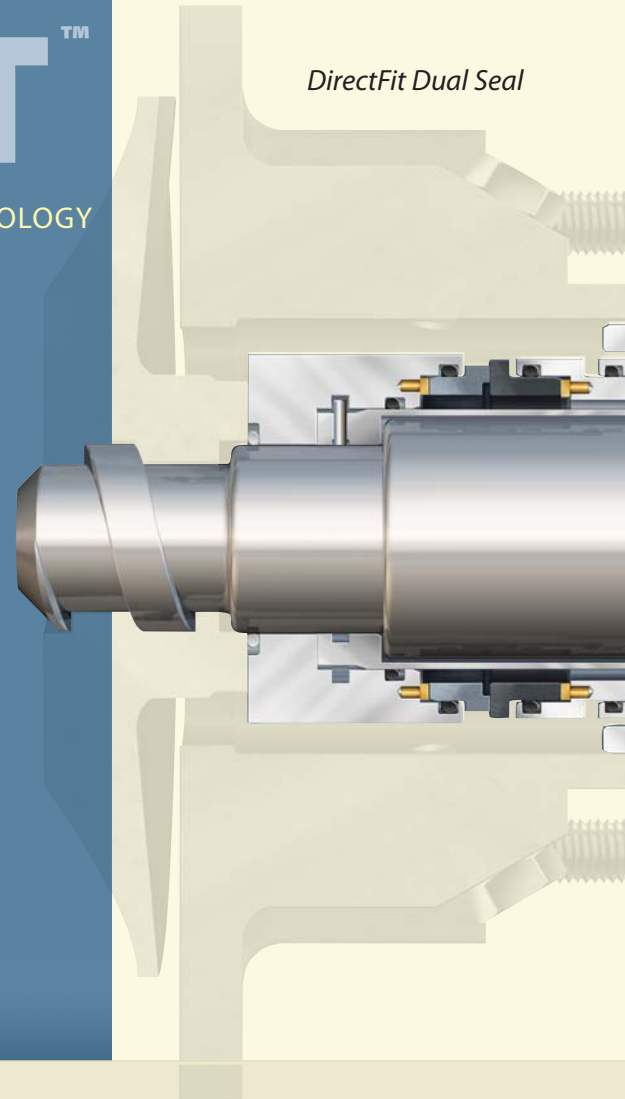
EASY TO INSTALL • FIELD REPAIRABLE • MONOLITHIC FACE TECHNOLOGY

DirectFit Series Next Generation mechanical seals are designed to fit the Sulzer APP/APT and NPP/NPT series process pumps,* providing an easy and convenient upgrade in sealing performance without modification. These seals incorporate the latest in seal face design technology to minimize heat generation and optimize performance in the most difficult process services. The DirectFit seal series is ideal for paperstock, hot condensate, liquors, solvents, and evaporation services in a variety of industries.

The integrated seal design protects the equipment shaft from aggressive chemical attack. Springs are located out of the process fluid in the non-rotating seal element to avoid damage or hang up due to mis-alignment.

*Sulzer is in no way associated or affiliated with A.W. Chesterton Company. This reference to Sulzer pumps is intended solely to identify products of this other manufacturer for which A.W. Chesterton Company designed its DirectFit seals to be compatible.

DirectFit Dual Seal



DirectFit Single and Dual Seals Key Features

Simple, Quick Installation Process

DirectFit seals mount directly to the pump shaft against the shaft shoulder—with no measurements needed or centering clips to remove—to reduce the risk of error during installation. The DirectFit dual seal installs without set screws.

Fits Directly to All Bearing Frames

The DirectFit seals' patented adjustable gland is designed to fit Sulzers' APP/APT and NPP/NPT mechanical seal and packing chambers. The DirectFit seal series is the ultimate upgrade from the original equipment mechanical seals.

Field Repair Kit

Chesterton's repair kits allow in-field repair or upgrade, avoiding costly downtime and expensive vendor repairs.

Next Generation Seal Face Design

Chesterton uses Finite Element Design to create monolithic and micropolished seal faces to maintain flatness and reduce drag for maximum responsiveness. Seal face hang-up is minimized when exposed to high pressure, high temperature, or both. These thermally stable seal faces deliver performance at temperatures up to 180°C/350°F.

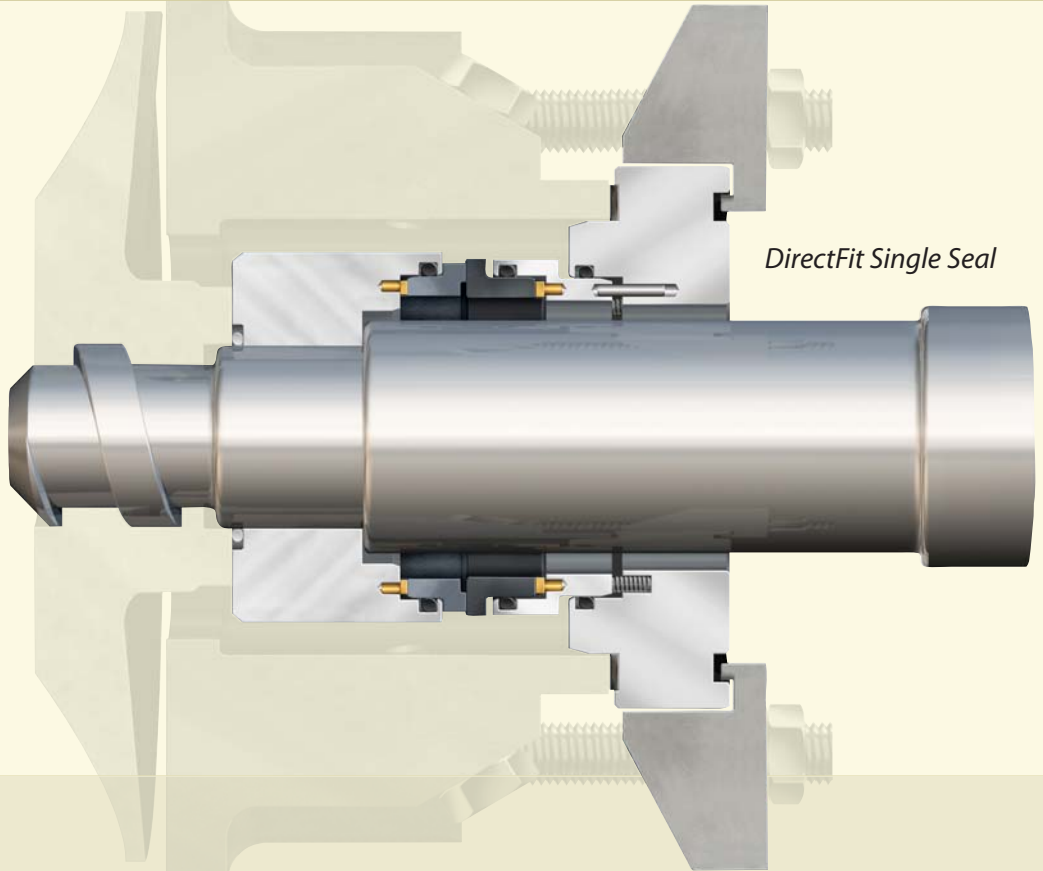
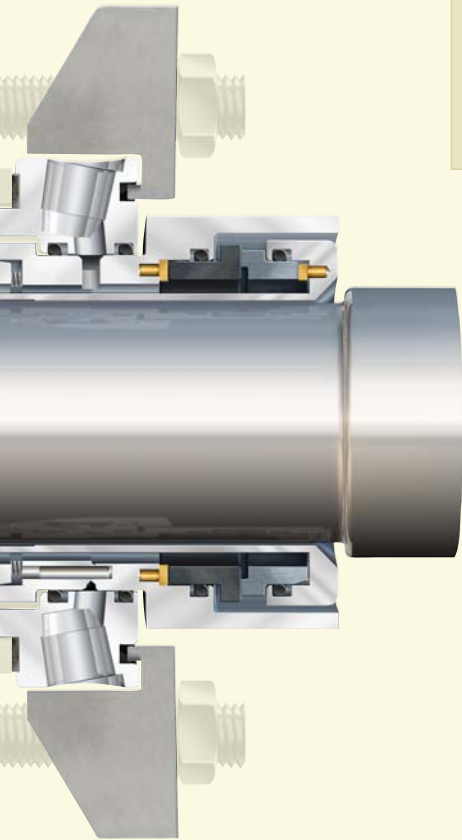


Operating Parameters

Pressure Limit	20 bar g (300 Psig)
Barrier Fluid Pressure Limit	17 bar g (250 Psig)
Temperature Limit	180°C/350°F
Available Sizes	30mm, 40mm, 50mm, 60mm, 80mm, 90mm

Materials of Construction

Available Seal Faces	Silicon Carbide, Tungsten Carbide, and Carbon Seal Faces
Available Elastomers	Aflas®, FKM, EPR, and Chemlast™



DirectFit Single Seal

High Torque Cushioned Drives

Cushioned drives minimize shock and vibration by avoiding metal-to-seal-face contact on all DirectFit seal faces. High strength drive pads resist shear load in tough applications.

Balanced and Double-Balanced

The DirectFit single seal is balanced to minimize the effects of pressure at the primary seal. The DirectFit Dual seal is double balanced to insure the inboard seal faces remain together during pressure reversals.

One Piece Cassette Dual Seal (Patent Pending)

The DirectFit dual seal is a one-piece, unitized design for ease of installation. The seal centers on the bore of the stuffing box and is driven from the shoulder of the pump shaft.

Angled and Adjustable Barrier or Buffer Fluid Ports

Dual seal angled barrier/buffer fluid ports can be rotated to avoid interference from the pump's bearing frame to ease piping to the seal.



GLOBAL SOLUTIONS, LOCAL SERVICE

Since its founding in 1884, Chesterton has successfully met the critical needs of its diverse customer base. Today, as always, customers count on Chesterton solutions to increase equipment reliability, optimize energy consumption, and provide local technical support and service wherever they are in the world.

Chesterton's global capabilities include:

- Servicing plants in over 100 countries
- Global manufacturing operations
- More than 500 Service Centers and Sales Offices worldwide
- Over 1200 trained local Service Specialists and Technicians

Visit our website at
www.chesterton.com

Chesterton ISO certificates available on www.chesterton.com/corporate/iso



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Seal performance is closely associated with the process operating conditions and equipment conditions. Technical data reflects results of laboratory tests and is intended to indicate general characteristics only. A.W. CHESTERTON COMPANY DISCLAIMS ALL WARRANTIES EXPRESSED, OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE OR USE. LIABILITY, IF ANY, IS LIMITED TO PRODUCT REPLACEMENT ONLY.



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