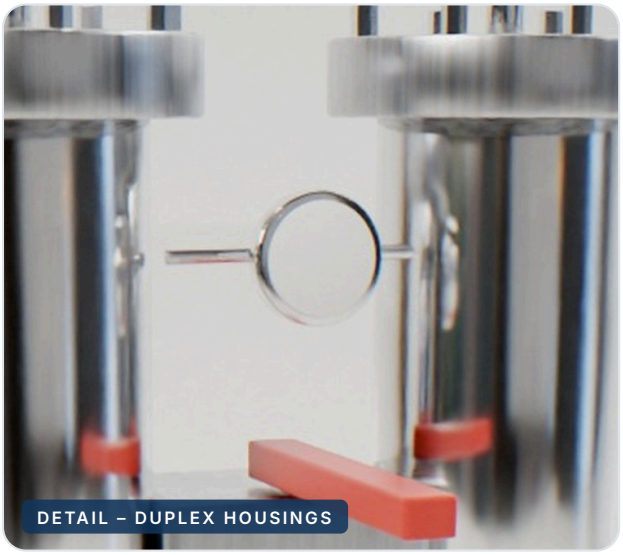
PRODUCT DATASHEET

Seal Gas Filter Elements

Coalescing and particle elements for dry gas seals





DETAIL – DUPLEX HOUSINGS

OVERVIEW

The Tech Inc. Seal Gas Filter Elements keep the gas fed to compressor dry gas seals clean and dry. Most modern centrifugal compressors run on dry gas seals that ride on a thin film of filtered gas, and contaminated seal gas is the leading cause of seal failure.

MODELS AND CONFIGURATIONS

- **Seal-gas coalescing elements** – remove liquid aerosols from the primary seal-gas supply.
- **Particle elements, 3 µm** – fine particle filtration for the seal-gas supply.
- **Particle elements, 1 µm** – finer filtration where the seal design calls for it.

TYPICAL DESIGN DATA

Particle ratings	3 µm and 1 µm, with others to client specification
Element types	Coalescing, particle, booster and separation-gas
Fit	Interchangeable replacement for common OEM designs, with dimensions and seals measured from reference elements
Housings	Duplex arrangements allow element change while running
Service	Process gas, nitrogen or air used as seal, booster or separation gas
System standard	For dry gas seal support systems designed to API 692 or client specification
Operating limits	Pressure, temperature and differential pressure to the housing rating and client specification

APPLICATIONS

Primary seal gas, seal-gas booster circuits and separation gas on hydrogen recycle, wet gas, refrigeration, export and reinjection compressors.

KEY ADVANTAGES

- **Protects the seal** – clean, dry seal gas is the first defence against dry gas seal failure
- **Change while running** – elements suit duplex housings, with one side serviced while the other stays on line
- **Drop-in fit** – interchangeable with common OEM housings, with dimensions and seals taken from reference elements
- **Full set from one source** – coalescing, particle, booster and separation-gas elements in one catalogue

Designed and built by Tech Inc. · **Part of the Davey Group since 1990**

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