

TYPE 5610D/5620D

WET/DRY RUNNING SEAL

Technical Specification

WORLD SEAL
 Mechanical Seals

- A** – Seat/Mating Ring
B – Face/Primary Ring
C – Spring
D – Retainer



Product Description

The specially engineered, fully interchangeable wet/dry running seal head extends the functionality of the 5600 product line for standard ANSI and large bore pumps.

The exact combination of face loading and material selection incorporated into this optimized design permits operation in both wet and dry conditions.

The Type 5610D is a single cartridge using the special O-ring pusher wet/dry running seal head.

The Type 5620D is a dual cartridge arrangement having a standard Type 5600 seal inboard and the special O-ring pusher dry running containment seal outboard.

Design Features

Type 5610D:

- Wet/dry running capabilities for batch operations and unloading duties
- Retrofits existing 5600 seal heads

Type 5620D:

- Provides the safety of dual seal without an external lubrication system.
- Retrofits existing liquid lubricated 5600 outboard seal heads.
- May be used as a quench seal.

Performance Capabilities

- Temperature: -30°C to 205°C/-20°F to 400°F
- Pressure:
 - 5610D: dry running - 0.7 bar g/10 psig max.
 - wet running - 10.5 bar g/150 psig max.
 - 5620D: dry running - 0.7 bar g/10 psig max.
 - containment 1.000" to 3.000" - 21 bar g/300 psig max.
 - containment 3.125" to 4.000" - 14 bar g/200 psig max.
- Size range: shaft sizes from 1.000" through 4.000"
- Speed: up to 25 m/s / 5000 fpm
- End play/axial float allowance: 0.13mm/0.005"
- Runout/out of squareness: 0.05mm/0.002"

Typical Applications

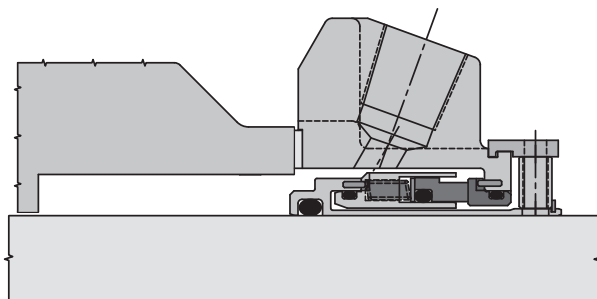
- Chemical
- Light hydrocarbons
- Caustics
- Unloading pumps
- Aqueous solutions
- Batch operations
- Crystallizing fluids

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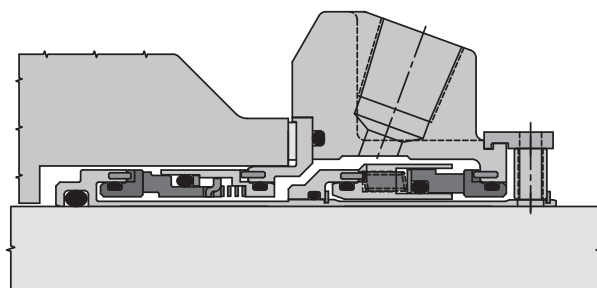
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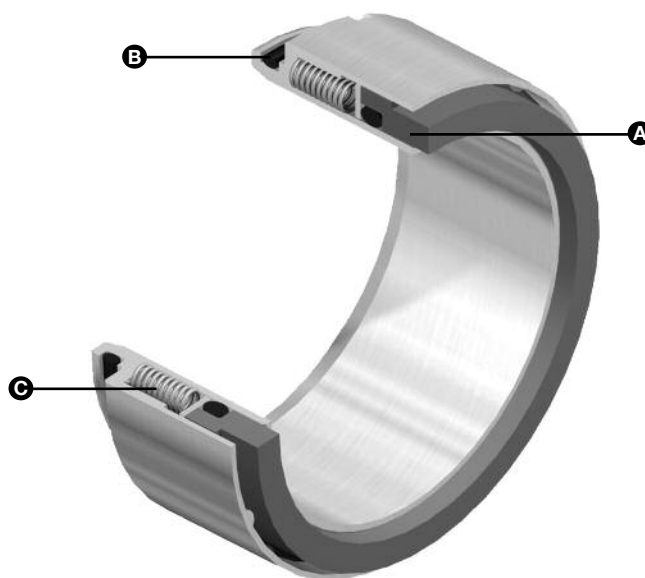
Type 5610D



Type 5620D



Wet/Dry Running Seal Head



- A** – Primary ring - enables up to 1/4" wear
- B** – Seal head interchangeable with standard 5600 seal heads
- C** – Low load coil springs accurately compensate for up to 1/4" primary ring wear

Materials of Construction

SEAL COMPONENTS	MATERIALS	
Description	Standard	Options
Primary Ring	Premium Carbon	—
Mating Ring	Sintered Silicon Carbide	—
Spring	Alloy C-276	—
Retainer Disc	316 Stainless Steel	Alloy 20CB3 SS Alloy C-276 Titanium
O-ring	Fluoroelastomer Ethylene Propylene	Perfluoroelastomer Buna-N Neoprene

- Notes:
1. Materials of construction pertain to the wet/dry running seal head only.
 2. Consult the 5610 and 5620 data sheet for material options of other seal components.
 3. For secondary containment arrangement, refer to drawing DSK-11722 for recommended piping schematic.



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