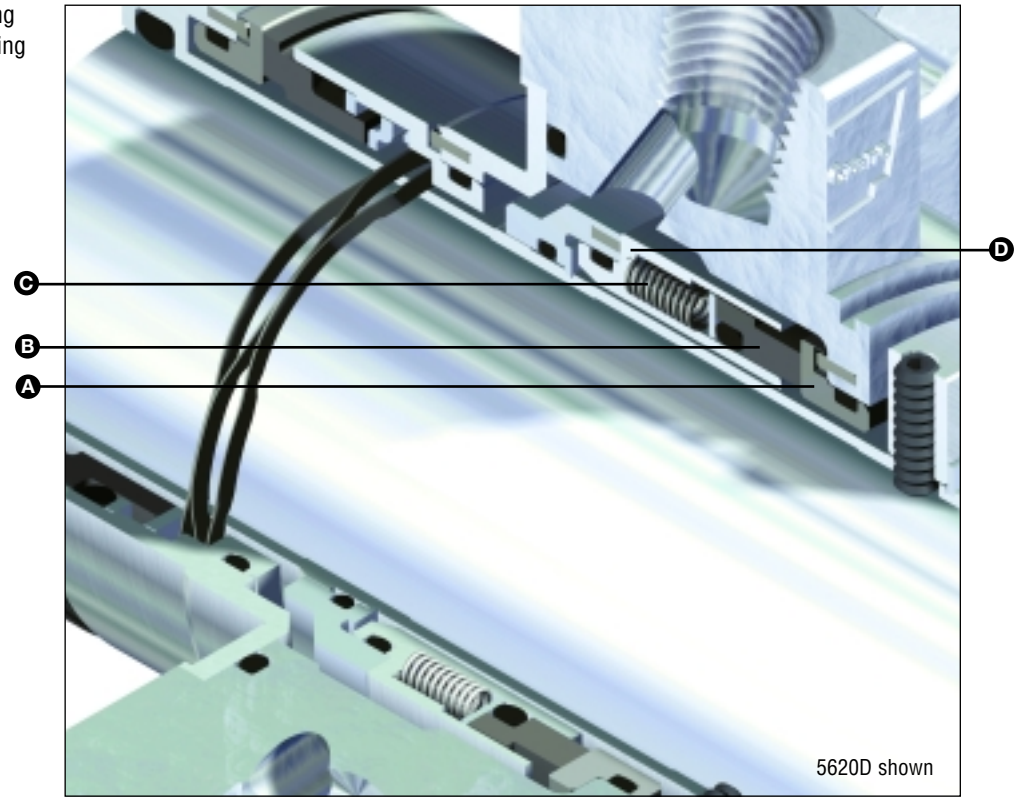
TYPE 5610D/5620D

Universal Cartridge Wet/Dry Running Seal

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



5620D shown

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 24mm - 75mm/1.000" - 3.000" - 21 bar g/300 psig max.
  Containment 80mm - 100mm/3.125" - 4.000" - 14 bar g/200 psig max.
- Size Range:
  For shaft sizes from 24mm - 100mm/1.000" - 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
- Caustics
- Aqueous Solutions
- Crystallizing Fluids
- Light Hydrocarbons
- Unloading Pumps
- Batch Operations

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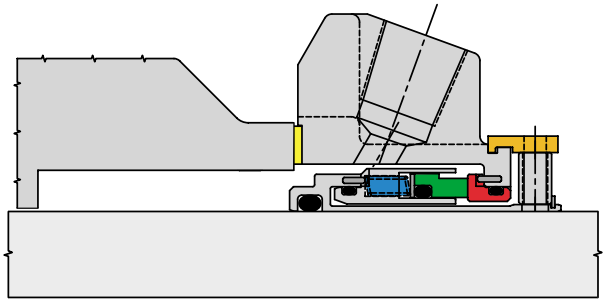
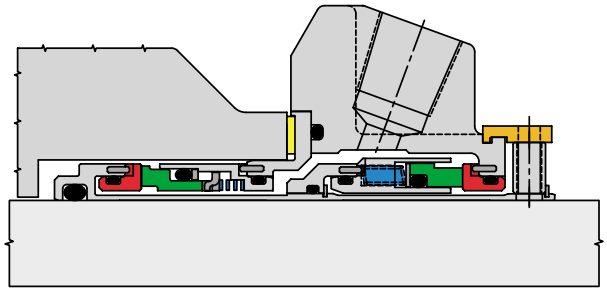
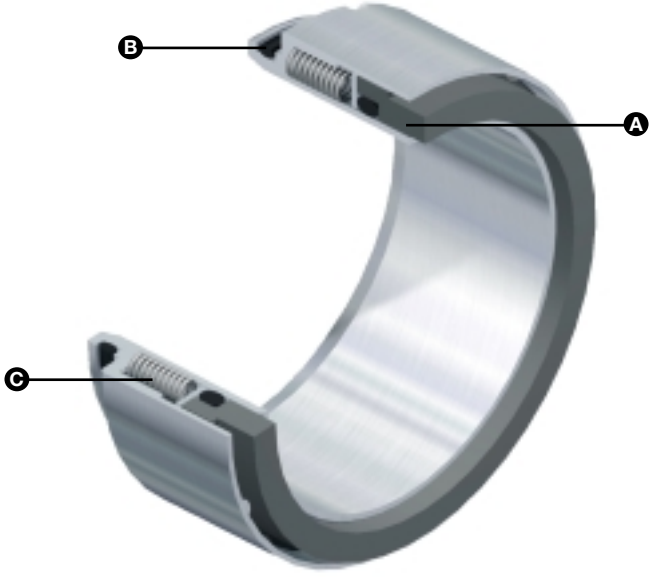
Type 5610D



Type 5620D



Wet/Dry Running Seal Head



A – Primary Ring - Enables Up To 6mm/1/4" Wear
B – Seal Head Interchangeable With Standard 5600 Seal Heads
C – Low Load Coil Springs Accurately Compensate For Up To 6mm/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 & 5620 data sheet for material options of other seal components.
3. For secondary containment arrangement, refer to drawing DSK-11722 for recommended piping schematic.

Europe
Slough, UK
Tel: 44-1753-224000
Fax: 44-1753-224224

North America
Morton Grove
Tel: 1-847-967-2400
Fax: 1-847-967-3915

Houston
Tel: 1-713-944-6690
Fax: 1-713-946-8252

Latin America
São Paulo, Brazil
Tel: 55-11-3371-2500
Fax: 55-11-3371-2599

Middle East & Africa
Dubai, United Arab Emirates
Tel: 971-4-3438940
Fax: 971-4-3438970

Asia
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Tel: 65-6512-5200
Fax: 65-6512-5233

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