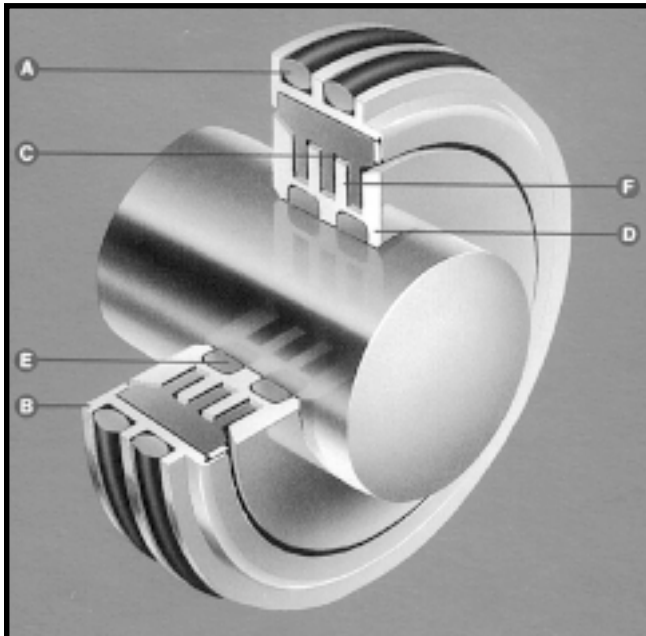


**John Crane Type 31 Series  
Labri-Seal Bearing Protectors**



- A. Outer ring O-rings when space permits
- B. Stationary outer ring
- C. Inward projecting PTFE "fingers"
- D. Moving/free-floating inner ring
- E. Shaft-side inner ring O-rings
- F. Outward projecting stainless steel "fingers"

- Exclusive "finger-locking" design traps and blocks oil leakage.
- Stationary outer ring projects special PTFE composition "fingers" inward. They mesh perfectly with outward projecting steel "fingers" of moving/free floating inner ring. The flexible labyrinth blocks bearing oil. Leakage is virtually *zero*. Drag is virtually *zero*.
- Contamination threats from outside are blocked, too.

**VERTIFLO Feature Selector**

**Standard**

- All iron construction
- 416 stainless steel shaft
- Semi-open impeller
- 316 stainless steel shaft sleeve
- Back pull-out design
- Packed stuffing box or mechanical seal
- External impeller adjustment
- Heavy duty power frame
- Regreaseable ball bearings
- Flanged suction and discharge on all sizes
- Dual volute casing 6x4x12 and larger

**Options**

- Labri-seal bearing protectors
- 316 stainless steel shaft
- 316 stainless steel impeller
- All 316 stainless steel or alloy 20 construction (all wetted parts)
- Teflon® packing (standard in s.s. and alloy units)
- Single or double mechanical seal (various materials)
- Product or fresh water flush to packing or mechanical seal
- Oil lubricated bearings with sight level indicator
- Coupling guard (recommended)
- ODP, TEFC, XP motors
- Flexible coupling
- Steel mounting base
- Cartridge mechanical seal

E.I DuPont registered®

**Design Details**

**Pump Shaft**

**Model 1434**

Rotation from driver end	CW
Diameter over shaft sleeve	2.125
Diameter between bearings	2.500
Diameter at coupling end	1.500
Coupling key - square	0.375
Bearing centers	9.750