



Vulcan Seals Type N5  
NOV Mission®  
Technical Data Sheet



Product Description

The Vulcan Seals Type N5 NOV Mission® is specifically designed to suit the common Mission™ range of well-head service pumps, found in both onshore and offshore drilling duties as well as other mining slurry applications.

The innovative design provides a unique style of stationary ring with an elastomeric cup, with a profile that also allows for locating the stationary ring onto the existing anti-rotation provision in the pump housing. This seal type is also available with the traditional profile ‘O’-ring stationary, as is the Vulcan Seals Type N5J NOV Mission®.

Why Choose the Vulcan Seals Type N5 NOV Mission®?

Bellows torque-transfer disk - maximum reliability

- The A and N series includes a bellows disk, as a standard design feature. This component provides radial support to the bellows, ensuring no bellows/shaft contact, which could result in seal wear and possible hang-up. This component is routinely omitted in the Crane® USA designs but is included in UK/European Type 1A and 2. Without the disk, the bellows IDs are very close to the shaft and can be problematic, due to bellows extrusion and shaft contact/stiction.

Balanced seal design

- The A and N series seals are specially hydraulically balanced to a recognised industry standard, to reduce heat and friction at the seal interface. This allows for higher operating parameters to be achieved and prolongs seal life.

Pump Ranges

The NOV Mission® pump model includes the following pump ranges: 0635 size seals suit "250 Series" and "2500 Supreme®" models. 0889 size seals suit "Magnum XP®" series models.

Compliance & Certificates



Also available with built materials that adhere to the above compliance standards and certificates. Please enquire about your requirements.

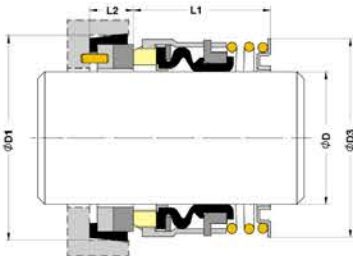
Standard Face Material Combinations

| Elastomers | Rotary Face           | Stationary Face       | Metals              | Complete Seal Code |
|------------|-----------------------|-----------------------|---------------------|--------------------|
| Viton™/FKM | VTN4 Tungsten Carbide | VTN3 Tungsten Carbide | 316 Stainless Steel | .V.HY.             |

Dimensional Data

| DØ (Imperial) | DØ (Metric) | Seal Size Code | D1 (in) | D1 (mm) | D3 (in) | D3 (mm) | L1 (in) | L1 (mm) | L2 (in) | L2 (mm) |
|---------------|-------------|----------------|---------|---------|---------|---------|---------|---------|---------|---------|
| 2.500         | 63.50       | 0635           | 3.375   | 85.73   | 3.210   | 81.54   | 2.500   | 63.50   | 0.567   | 14.40   |
| 3.500         | 88.90       | 0889           | 4.375   | 111.13  | 4.375   | 111.13  | 3.125   | 79.38   | 0.783   | 19.88   |

Dimensions in mm and inches  
\*Non-stock guarantee



® ™ All product names, brands and trademarks shown are property of their respective owners, are for identification purposes only, and do not imply affiliation nor endorsement.

\*\* All dimensional and identification information shown is given in good faith and is based on extensive experience gained in business. Performance data is not provided for this product range based on the Vulcan Seals design being a replacement of, or an improvement on, a design that has originally proved suitable for the equipment and service concerned.