



# 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



The Vulcan Seals mechanical seal range can be supplied with material combinations designed to meet the compliance standards and certifications listed above. Additional compliance or regulatory requirements can also be considered upon request. Please enquire to discuss your specific application.

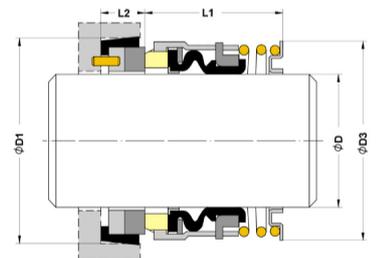
### Standard Face Material Combinations

Elastomers	Rotary Face	Stationary Face	Metals	Complete Material 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



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\*\* 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.