

## Vulcan Stock O.E.M. Pump Seals



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## **VULCAN® O.E.M. SEALS**

## We are the seal manufacturer most likely to have what you need direct from our stock

Vulcan are renowned for our complete range of Seal designs and guaranteed stocks. We can supply the vast majority of global seal requirements from stock. The following Section 11 gives an indication of the most commonly requested special dimension seals supplied ex-stock by Vulcan. Section 11A covers general industrial seals, Section 11b focuses on food, beverage and dairy industry seals. Seal identification is simplified by the images, dimension table, pertinent O.E.M. information and alphabetical listing by O.E.M. marque. In addition, extensive further information is readily available on our O.E.M. section price list and in the massive O.E.M data-base within our Web Portal.

Therefore, if you cannot see what you require, or are unsure of your requirement, please contact us, or your supplier.

The Vulcan range of O.E.M. specific seals is constantly expanding and this brochure section is thus dated and particularly, it only covers the "Guaranteed Stock" portion of our wider existing, tooled, designed and produced previously, range, (or those in future development).

Vulcan are leading providers of seals for O.E.M. Equipment due to the following principal advantages;

- Ability to design and manufacture, almost any, seal style to customer requirements.
- ( In-house production of practically all materials, components and the tools/moulds for the same.
- Mortically integrated, in-house design, production and quality control, allows small runs and fast turn-around.
- A Can-Do Philosophy linked to a commercial readiness to produce specials.
- Agreements to produce a specific design/detail, that are then not made available for sale to anybody else.
- The best Range, Quality, Service and Price available from any one manufacturer.

O.E.M. Index For Section 11—This section is in O.E.M. Alphabetical order

OTELINIC INGOVERS OF SOCIOUS FT	11115 50011011 15 11	O . E					
O.E.M.	PAGE	O.E.M.	PAGE	O.E.M.	PAGE		
A.B.S. ®	93	Fristam ®	119	Osbourne Craig ®	116		
A.P.V. ®	114	G.E.A. Tuchenhagen ®	127	Puma ®	115		
Alfa Laval ®	110	Godwin ®	98	Rosista ®	116		
Allweiler ®	94	Grundfos ®	99	Sarlin ®	99		
Andritz ®	94	Haigh ®	101	S.P.P. ®	105		
C.S.F. Inox ®	113	Hidrostal ®	102	Sterling Sihi ®	105		
D.D.M.M. ®	117	Hilge ®	124	Tetra-Pak ®	110		
Ebara ®	95	I.M.O. ®	101	Thune-Eureka ®	95		
E.M.U. ® (Wilo ®)	106	Inoxpa ®	125	Tri-Clover ®	112		
Eureka ®	95	Johnson S.P.X. ®	126	Tsurumi ®	105		
I.T.T. Flygt ®	97	Kolmeks ®	101	Viking ®	106		
I.T.T. Jabsco ®	125	K.S.B. ®	104	Wild Indag ®	117		
I.T.T. Lowara ®	103	National Oilwell ®	105	Wilo ®	106		

## GUARANTEED STOCK MATERIALS KEY

The guaranteed stock materials for the O.E.M. and food sections are shown utilising a key system; for example;

All letters shown are the Vulcan standard elastomer and face combination codes, please refer to Pages 18 / 19 for more information.

KEY ICON	WHAT THE KEY ICON REPRESENTS						
X	Circular icons indicate which elastomers are guaranteed in stock, i.e. "V" for Viton, "N" for Nitrile and "E" for E.P.						
NEV	more than one elastomer is guaranteed, all the relevant code letters are shown.						
X	Hexagonal icons indicate the rotary and stationary face combination codes which are guaranteed in stock, i.e.; "C" for Carbon vs Ceramic.						
(D)(Q)	Seals with multiple guaranteed stock face materials are shown with two or more hexagonal icons.						
316	Rectangular icons indicates the metallurgy utilised within the guaranteed stock seals.						

The materials codes shown, on each page in this Section 11a following, are solely for our equivalents to the most popular known O.E.M. original seal specifications. Other materials are usually, also in stock or, are readily available.

## **VULCAN® SEALS TO SUIT A.B.S.® PUMPS**

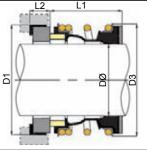
## TYPE 195 TO SUIT AFP- SERIES PUMPS (N SS) 304



Elastomeric bellows seals for lower position in many common submersible pumps, including "AFP"-ranges. Each is supplied with a back-washer, unless stated. Commonly paired with either Type 282, Type 1577 or Type 1632 upper seals, details of which are below. For identification purposes, please cross-reference the O.E.M. part number shown below, or enquire.

The first table shows those size assemblies stocked and supplied with a Boot Mounted Stationary. Whilst the second table shown is for those with an 'O'-Ring Mounted Stationary.

#### **VULCAN STANDARD SIZES**



SHAFT SIZE DØ	SIZE CODE	D1	D3	L1	L2	O.E.M. PART NUMBER
15.00	0150	35.00	28.00	17.00	4.00	11110172
20.00	0200	35.00	36.00	21.50	7.50	11110001
25.00	0250	40.50	41.00	22.50	8.50	11110095
30.00	0300	50.80	47.00	24.00	9.50	11110096
40.00*	0400.B	58.00	60.00	33.50	11.00	11110144
45.00	0450	65.50	64.30	30.50	12.50	11110093
55.00*	0550	76.20	78.00	37.50	13.50	11110135
80.00	0800	104.00	106.50	40.00	15.00	11110051

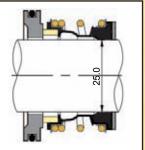
# 8

#### **VULCAN STANDARD SIZES**

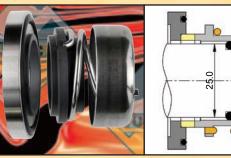
SHAFT SIZE DØ	SIZE CODE	D1	D3	L1	L2	O.E.M. PART NUMBER
40.00	0400	58.00	60.00	33.50	11.00	11110055
48.00	0480	67.00	69.00	30.50	10.00	11110003
65.00	0650	86.00	90.00	39.00	12.00	11110050
90.00	0900	114.00	125.00	46.30	13.00	11110052
100.00	1000	123.30	130.00	46.00	13.30	11110053

## TYPE 195P (UPPER SEAL) N Q 304



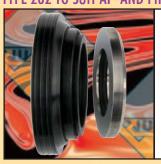


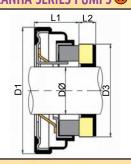
## TYPE 820 (LOWER SEAL) VN S 304



Upper and lower 25 mm shaft size seals for use together, but available separately, to suit various A.B.S.® submersible pumps, including certain "JUMBO", "SP" and "RP" series, which were previously supplied as the "Pumpex®" brand.

#### TYPE 282 TO SUIT AF- AND PIRANHA SERIES PUMPS N P 304





Rubber-encased upper seals primarily for "Piranha-M or -S" range submersible pumps. The lower seal is normally 25mm or 30mm Type 195 seal, detailed above. For identification purposes, please cross-reference the O.E.M. part number, or enquire.

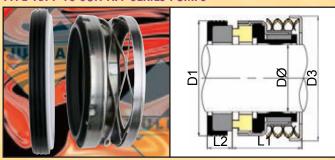
SHAFT SIZE DØ	SIZE CODE	D1	D3	L1	L2	O.E.M. PART NUMBER
25.00	0250	52.00	41.30	12.00	5.00	11100027 & 28
30.00	0300	57.00	41.30	12.00	5.50	11100029

## **VULCAN®SEALS TO SUIT A.B.S.® PUMPS**



Vulcan offer a wide range of seals to suit A.B.S.® pumps and mixers, especially submersible pumps.

#### TYPE 1577 TO SUIT AFP SERIES PUMPS



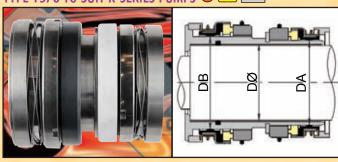
Elastomer diaphragm seals with sinusoidal wave-springs. 50mm size is routinely used as upper seal in certain "AFP" range submersible pumps, with 45mm Type 195 as the lower seal.

The 65mm Type 1577 is a lower seal, and is normally paired with the FF mm Type 105. For identification pumpers allowers are presented to the first the form Type 105.

with the 55mm Type 195. For identification purposes, please cross-reference the O.E.M. part number shown below, or enquire.

SHAFT SIZE DØ	SIZE CODE	D1	D3	L1	L2	O.E.M.	GUARANTEED STOCK MATERIALS
50.00	0500	72.00	66.10	19.00	10.00	11100083	N A 304
65.00	0650	85.00	86.50	27.00	13.00	11110173	NS 304

#### TYPE 1578 TO SUIT K-SERIES PUMPS WWA 304

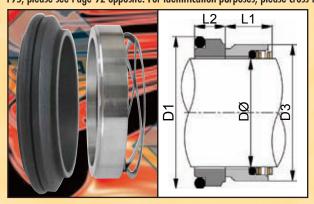


Elastomer diaphragm seals with sinusoidal wave-springs, supplied as upper and lower seals, ready mounted on a shaft sleeve, for installation directly into the bell-chamber style housing of A.B.S.® / Pumpex® "K" series pumps. For 25mm, 32mm or 35mm shaft sizes, please enquire.

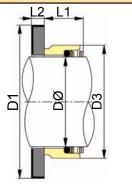
SHAFT SIZE DØ	SIZE CODE	DA	DB
50.00	0500	55.00	60.00

#### TYPE 1632 TO SUIT AFP- SERIES PUMPS

'O'-Ring mounted wave-spring seals, routinely utilised in the upper-position of "AFP" series submersible pumps. The lower seal will normally be of Type 195, please see Page 92 opposite. For identification purposes, please cross-reference the O.E.M. part number, or enquire.







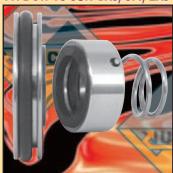
NB:- SHAFT SIZE 20mm (image above) HAS BOOT MOUNTED STATIONARY

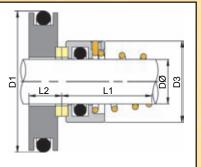
SHAFT SIZE DØ	SIZE CODE	D1	D3	L1	L2	O.E.M.	GUARANTEED STOCK MATERIALS
20.00	0200	52.00	31.00	13.50	6.00	11100066	NQ 304
48.00	0480	67.00	62.00	15.80	14.50	11100058	N P 304
65.00	0650	86.00	79.00	17.80	15.30	11100059	N P 304
80.00	0800	104.00	98.00	19.50	16.30	11100053	N P 304
90.00	0900	114.00	105.00	19.50	16.30	11100055	N(P) 304
100.00	1000	123.00	116.00	21.00	17.10	11100052	N P 304

## **VULCAN® SEALS FOR ALLWEILER® PUMPS**

Vulcan manufacture and stock a wide range of seals to suit Allweiler® pumps, including many standard range seals, such as the Type 8DIN and 8DINS, Type 24 and Type 1677M seals. The following are examples of specific dimensions seals designed to suit the internal dimensions of certain Allweiler® pumps only.

TYPE 8W TO SUIT BAS, SPF, ZAS AND ZASV SERIES PUMPS W (H) (D) 304

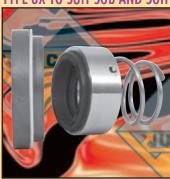


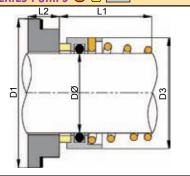


'O'-Ring mounted conical spring seals with distinctive stationaries, to suit the seal chambers of "BAS, SPF, ZAS and ZASV" series spindle or screw pumps, commonly found in ship's engine rooms on oil and fuel duties. Clockwise rotation springs are standard.

SHAFT SIZE DØ	SIZE CODE	D1	D3	L1	L2
15.00	0150	38.00	24.00	15.00	8.00
20.00	0200	45.00	31.00	19.50	8.50

TYPE 8X TO SUIT SOB AND SOH SERIES PUMPS W (D) 304



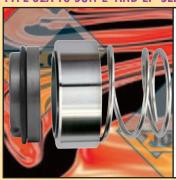


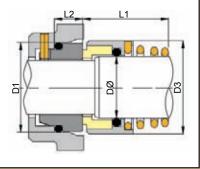
'O'-Ring mounted conical spring 22mm seals with distinctive gasket mounted seat rings, to suit "SOB" and "SOH" series pumps, commonly found in ship's engine rooms.

Clockwise rotation springs are standard.

SHAFT SIZE DØ	SIZE CODE	D1	D3	L1	L2
22.00*	0220	44.00	33.00	21.50	11.25

TYPE 82A TO SUIT L- AND LV- SERIES PUMPS © (D) 304





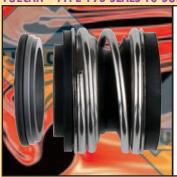
SHAFT SIZE DØ	SIZE CODE	D1	D3	L1	L2
28.00*	0330	43.00	46.00	39.50	8.5
30.00*	0350	45.00	49.00	39.50	9.0
45 00*	0500	63.00	66.00	55 00	9.0

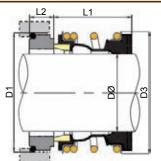
'O'-Ring mounted conical spring, stepped shaft, balanced seals with 'O'-Ring mounted stationaries, to suit specific dimensions of commonly marine-application "L and LV" series pumps."LV" pumps have vertical shafts and only require one clockwise rotation seal, but "L— "series are horizontal, double-ended pumps and require one clockwise and one anti-clockwise seal per pump.

Many Allweiler pumps accept Vulcan standard range seals, such as types 8DIN and 8DINS. Some of the seals, are detailed here or in earlier sections of the catalogue, if you can not find what you require, please contact us with the O.E.M. details for cross-reference on our database.

## VULCAN® TYPE 198 SEALS TO SUIT ANDRITZ® PUMPS







'O'-Ring mounted rubber bellows seals to DIN24960 / EN12756 dimensions, but with a balanced rotary face profile and special stationary profiles, to suit service in Andritz® "S-"series centrifugal pumps, commonly found in paper and cellulose processing.

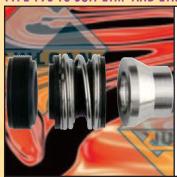
SHAFT SIZE DØ	SIZE CODE	D1	D3	L1	L2
38.00	0380	56.00	57.30	36.00	9.00
48.00	0480	66.00	69.00	36.00	9.00
53.00	0530	73.00	76.00	36.50	11.00
65.00*	0650	85.00	90.00	41.50	11.00
90.00*	0900	115.00	126.00	51.00	14.00

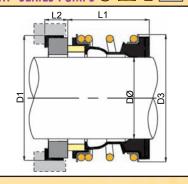
## **VULCAN® SEALS FOR EBARA® PUMPS**



Vulcan offer a wide range of seals to suit Ebara® pumps, especially European models, including many standard range seals such as the Type 13, 13DIN and Type 126 seals. The following are specific dimension seals designed to suit the internal dimensions of certain Ebara® pumps.

TYPE 198 TO SUIT EVM- AND EVMW- SERIES PUMPS (V SS D) 316



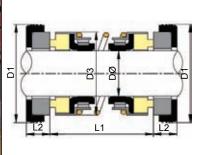


Rubber-bellows seals with boot mounted stationaries and Stainless Steel spacer-rings, to suit internal dimensions of Ebara® "EVM" and "EVMW" vertical multi-stage pumps.

SHAFT SIZE DØ	SIZE CODE	D1	D3	L1	L2
0.500	0127	23.00	24.00	15.00	8.60
16.00	0160	26.00	27.10	17.00	10.00
20.00	0200	35.00	36.00	21.50	11.50
28.00*	0280	43.00	47.00	26.50	10.00

TYPE 260A TO SUIT BEST-, RIGHT- AND DW- SERIES PUMPS WWA 304





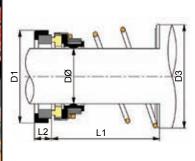
Rubber diaphragm double-ended seals with boot mounted stationaries, to suit the internal dimensions of Ebara® "Best-", "Right-" and "DW-" series, small submersible pumps. This common seal type is also utilised by other pump manufacturers for small portable submersible pumps.

SHAFT SIZE DØ	SIZE CODE	D1	D3	L1	L2
14.00	0140	30.00	20.00	26.00	5.00
15.00	0150	30.00	20.00	26.00	5.00
16.00	0160	30.00	20.00	26.00	5.00

## **VULCAN® SEALS TO SUIT EUREKA® PUMPS**

TYPE 277 TO SUIT CG- SERIES PUMPS NC 304



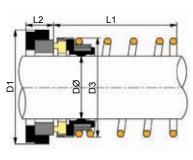


Vulcan manufacture and stock a variety of standard range seals to suit various Eureka® pumps (now part of Hamworthy®, formerly Thune-Eureka®). Type 277 is an elastomer diaphragm seal, with reverse taper seal to specifically suit the "CG-" series centrifugal pumps, widely used in marine applications.

SHAFT SIZE DØ	SIZE CODE	D1	D3	L1	L2	O.E.M. REF.
29.00	0290	47.63	46.00	32.00	11.99	CGA
35.00	0350	53.98	53.00	31.50	11.99	CGB
41.00	0410	60.35	59.30	32.50	11.99	CGC
48.00	0480	66.70	66.00	38.50	11.99	CGD
54.00	0540	73.05	70.00	41.00	13.50	CGE

TYPE 278 TO SUIT CAC. CAV AND CAX SERIES PUMPS NC 304





Elastomer diaphragm seals to 2.3/8" shaft size, with extended taper coil, to suit internal dimensions of Eureka® "CAC, CAV and CAX-" series centrifugal pumps, widely used in marine applications.

	SHAFT SIZE DØ	SIZE CODE	D1	D3	L1	L2
ı	2.375	0603	79.40	82.00	82.60	13.50

## **TYPE 06 RANGE FOR FLYGT® PUMPS**

The Vulcan range of Type 06 seals are designed as superior replacement seals for Flygt® and Grindex® submersible pumps and mixers, with no pump modifications necessary. The Type 06 designs require no additional fitting tool and most types have pre-set working lengths, operated by a removable setting clip for easy installation. All Vulcan Type 06 seals are stocked and fitted with optimal Nitrile elastomers and Carbon vs. T.C or SiC faces for Upper Seals and optimum Viton® elastomers with T.C vs. T.C or SiC faces for the lower seals. The stock codes tabulated below are for a complete seal and stationary.

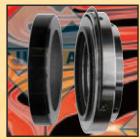
Vulcan also stock Lip Seals and sets of 'O'-Rings for Flygt® pumps to complement our Type 06 range. The contents of each set is dependent upon pump model. The Vulcan code is constructed from the shaft size of the upper seal, our type code "06", and the Flygt® pump model preceded by a "V", and the material letter for the 'O'-rings, either "N" or "V". e.g; To order Vulcan 'O'-Ring set for pump model "2102-040", use Vulcan code "0220.06.N.V2102-000".

## **EXAMPLE UPPER SEAL DESIGNS AND CODES**









0200.06G.U.N.E.

0350.06M.U.N.E

0450.060.U.N.E.

0600.06Q.U.N.E

0200.000.U.N.L.	003	O.OOM.O.N.L.	0730.000.U.N.L.		000.00Q.O.N.L.	
Flygt® Pump	Seal	Vulcan Upper Seal	Vulcan Lower	Vulcan 'O'-Ring	Vulcan Additional	
Model Series	Shaft Sizes	Stock Code	Seal Stock Code	Set Code	Parts Code	
2004, 2008, 2012, 2016	15mm	Lower Seal Only	0150.06D.N.Z.			
2024	20mm	0200.06A.U.N.E.	0200.06A.L.V.H.			
2050, 2052	15mm	Lower Seal Only	0150.06D.N.Z.			
2060	20mm	0200.06G.U.N.E.	0200.06G.L.V.H.			
2066	20mm	0200.06A.U.N.E.	0200.06A.L.V.H.	0200.06.N.V2066-000		
2070	22mm	0220.06E.U.N.E.	0220.06E.L.V.H.	0220.06.V.V2070-000		
2071	22mm	0220.06F.U.N.E.	0220.06F.L.V.H.	0220.06.V.V2070-000		
2075	20mm	0200.06A.U.N.E.	0200.06A.L.V.H.	0200.06.N.V2075-000		
2082 330	28mm	0280.06I.U.N.E.	0280.06I.L.V.H.	0280.06.N.V2082-330		
2084	35mm	0350.06K.U.N.E.	0350.06L.L.V.H.	0280.06.N.V2084-000		
2090, 2125, 2140	28mm	0280.06I.U.N.E.	0280.06I.L.V.H.	0280.06.N.V2125-000		
2135	35mm	0350.06K.U.N.E.	0350.06L.L.V.H.	0280.06.N.V2135-000		
2101	20mm	0200.06A.U.N.E.	0200.06A.L.V.H.			
2102	22mm	0220.06C.U.N.E.	0220.06C.L.V.H.	0220.06.V.V2102-000		
2151-010, -011, -050	35mm	0350.06K.U.N.E.	0350.06L.L.V.H.	0350.06.N.V2151-000	0350.06.LIP	
2201-010	45/35mm	0450.06O.U.N.E.	0350.06K.L.V.H.	0450.06.V.V2201-000	0000.00.2	
2201-011 HT or MT	45/35mm	0450.06O.U.N.E.	0350.06N.L.V.H.	0450.06.V.V2201-000	0450.06.LIP	
2201-011 LT	45/35mm	0450.06O.U.N.E.	0450.06O.L.V.H.	0450.06.V.V2201-000	0.100.00.2.11	
2201-080, -320, -430,						
-480, -590, -690	45/35mm	0450.06O.U.N.E.	0350.06N.L.V.H.	0450.06.V.V2201-000		
2250, 2290	60mm	0600.06P.U.N.E.	0600.06P.L.V.H.			
2400	60mm	0600.06R.U.N.E.	0600.06R.L.V.H.	0600.06.N.V2400-000	0600.06.LIP	
3041 (NOT -250 SIZE)	20mm	0200.06G.U.N.E.	0200.06G.L.V.H. OR 0200.06H.L.V.H.			
3057	20mm	0200.06G.U.N.E.	0200.06G.L.V.H. OR 0200.06H.L.V.H.	0200.06.N.V3057-000		
3065	20mm	0200.06A.U.N.E.	0200.06A.L.V.H.			
3067	20mm	0200.06G.U.N.E.	0200.06G.L.V.H. OR 0200.06H.L.V.H.	0200.06.V.V3067-000		
3068	20mm	0200.06G.U.N.E.	0200.06G.L.V.H. OR 0200.06H.L.V.H.	0200.06.V.V3068-000		
3080 (NOT -330 SIZE)	20mm	0200.06A.U.N.E.	0200.06A.L.V.H.	0200.06.V.V3080-000		
3080-330	35mm	0350.06K.U.N.E.	0350.06K.U.N.E.			
3082	22mm	0220.06E.U.N.E.	0220.06E.L.V.H.	0220.06.N.V3082-000		
3085	20mm	0200.06G.U.N.E.	0200.06G.L.V.H. OR 0200.06H.L.V.H.	0200.06.N.V3085-000		
3101	28mm	0280.06B.U.N.E.	0280.06B.L.V.H.	0280.06.N.V3101-000		
3102	25mm	0250.06J.U.N.E.	0250.06J.L.V.H.	0250.06.N.V3102-000		
3126-090, 3126-180	35mm	0350.06K.U.N.E.	0350.06K.L.V.H.	0350.06.N.V3126-000	0350.06.LIP	
3126-091, -180, -280, -290, -998	35mm	0350.06K.U.N.E.	0350.06M.L.V.H.	0350.06.N.V3126-000		
3126-181	35mm	0350.06M.U.N.E.	0350.06M.L.V.H.	0350.06.N.V3126-000		
3127	35mm	0350.06M.U.N.E.	0350.06M.L.V.H.	0350.06.N.V3126-000		
3140 (NOT -980 SIZE)	45mm	0450.06O.U.N.E.	0450.06O.L.V.H.		0450.06.LIP	
3152	45mm	0450.06O.U.N.E.	0450.06O.L.V.H.	0450.06.N.V3152-000	0450.06.LIP	
3170	60mm	0600.06Q.U.N.E.	0600.06Q.L.V.H.	0600.06.N.V3170-000	0600.06.LIP	
3200	60mm	0600.06P.U.N.E.	0600.06P.L.V.H.			
3201	60mm	0600.06Q.U.N.E.	0600.06Q.L.V.H.	0600.06.N.V3170-000	0600.06.LIP	
3230, 3305, 3357	90/80mm	0900.06S.U.N.H.	0800.06S.L.V.H.			
3231, 3306, 3356	90/80mm	0900.06S.U.N.H.	0800.06S.L.V.H.	0900.06.N.V3231-000		
3170	60mm	0600.06Q.U.N.E.	0600.06Q.L.V.H.	0600.06.N.V3170-000	0600.06.LIP	
3171	45mm	N/A	NOT AVAILABLE	0450.06.N.V3171-000		

All seal assemblies in the materials coded above are guaranteed ex-stock. For any other seals, or identification by X-reference, please refer to the on-line O.E.M. database, or contact us with your requirements.

## **TYPE 06 RANGE FOR FLYGT® PUMPS**



Robust, superior replacement mechanical seal designs, with Stainless Steel parts and Monolithic Carbide faces, provide higher seal capability, performance, reliability and pro-longed operating life. Pre-set, easy to install, with no pump modifications necessary.

No plastic working seal parts, no brazed nor inserted faces, no wave-springs nor any other design features or material which are prone to wear and failure, particularly in such arduous applications. Highly successful, proven designs, with over a decade of service, have now been even further developed

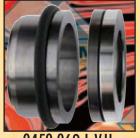
The Vulcan Type 06 Flygt Seal® design and material improvements reduces the costs of purchase and installation and most especially, provides increased seal performance, reliability and service life.

with the enhancements of improved setting clips, change to cup-ended grub-screws mounted at 90 degrees to the shaft and with the option of SiC faces.

#### **EXAMPLE LOWER SEAL DESIGNS AND CODES**









0200.06G.L.V.H.

0350.06M.L.V.H

0450.060.L.V.H.

0600,06Q,L,V,H,

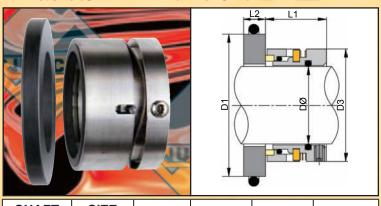
Seal	Vulcan Upper			Vulcan Additional
Shaft Sizes	Seal Stock Code	Vulcan Lower Seal Stock Code	Vulcan 'O'-Ring Set Code	Parts Code
60mm	0600.06P.U.N.E.	0600.06P.L.V.H.		
60mm	0600.06Q.U.N.E.	0600.06Q.L.V.H.	0600.06.N.V3170-000	0600.06.LIP
60mm	N/A	NOT AVAILABLE	0600.06.V.V3202-000	
90/80mm	0900.06S.U.N.H.1	0800.06S.L.V.H.		
90/80mm	0900.06S.U.N.H.1	0800.06S.L.V.H.	0900.06.N.V3231-000	
90/80mm	0900.06S.U.N.H.	0800.06S.L.V.H.	0900.06.N.V3300-000	
90/120mm	0900.06S.U.N.H.1	1200.06T.L.V.H.		
90/120mm	0900.06S.U.N.H.1	1200.06T.L.V.H.	1200.06.N.V3311-000	
90/120mm	0900.06S.U.N.H.1	1200.06T.L.V.H.	0900.06.N.V3400-000	
90/80mm	0900.06S.U.N.H.1	0800.06S.L.V.H.	1200.06.N.V3311-000	
90mm	0900.06S.U.N.H.1	0900.06U.L.V.H.1	0900.06.N.V3400-000	
90/120mm	0900.06S.U.N.H.1	1200.06T.L.V.H.	1200.06.N.V3500-000	
90/120mm	0900.06S.U.N.H.1	1200.06T.L.V.H.	1200.06.N.V3800-000	
20mm	0200.06G.U.N.E.	0200.06H.L.V.H.		
60mm	Lower Seal Only	0600.06Q.L.V.H.	0600.06.N.V4410-000	0600.06.LIP
35mm	Lower Seal Only	0350.06M.L.V.H.		
60mm	Lower Seal Only	0600.06Q.L.V.H.		0600.06.LIP
60mm	0600.06Q.U.N.E.	0600.06Q.L.V.H.		0600.06.LIP
35mm	0350.06M.U.N.E.	0350.06M.L.V.H.		
45mm	0450.06O.U.N.E.	0450.06ON.L.V.H.		
60mm	0600.06Q.U.N.E.1	0600.06Q.L.V.H.	0800.06.N.V7045-000	
90/80mm	0900.06S.U.N.H.1	0800.06S.L.V.H.	0800.06.N.V7045-000	
90/80mm	0900.06S.U.N.H.1	0800.06S.L.V.H.	0800.06.N.V7045-000	
90/80mm	0900.06S.U.N.H.1	0800.06S.L.V.H.	0800.06.N.V7045-000	
90/80mm	0900.06S.U.N.H.1	0800.06S.L.V.H.		
90mm	0900.06S.U.N.H.1	0900.06U.L.V.H.	0900.06.N.V7081-000	
90/120mm	0900.06S.U.N.H.1	1200.06T.L.V.H.		
90/120mm	0900.06S.U.N.H.1	1200.06T.L.V.H.		
90mm	0900.06S.U.N.H.1	N/A	0900.06.N.V605-000	
90mm	0900.06S.U.N.H.1	N/A	0900.06.N.V705-000	
105mm	CONTACT US	N/A	1050.06.N.V805-000	
105mm	CONTACT US	N/A	1050.06.N.V905-001	
	I.T.T. GRINDE	X® MODELS		
25/24mm	0250.06Z.U.N.E.1	0240.06Z.L.V.H.		
25/24mm	0250.06Z.U.N.E.1	0240.06Z.L.V.H.		
25/24mm	0250.06Z.U.N.E.1	0240.06Z.L.V.H.		
45/35mm	0450.06O.U.N.E.	0350.06N.L.V.H.		
45mm	0450.06O.U.N.E.	0450.06O.L.V.H.		
25/24mm	0250.06Z.U.N.E. <sup>1</sup>	0240.06Z.L.V.H.		
25/24mm	0250.06Z.U.N.E.1	0240.06Z.L.V.H.		
25/24mm	0250.06Z.U.N.E.1	0240.06Z.L.V.H.		
25/24mm	0250.06Z.U.N.E. <sup>1</sup>	0240.06Z.L.V.H.		
25/24mm	0250.06Z.U.N.E.1	0240.06Z.L.V.H.		
25/24mm	0250.06Z.U.N.E.1	0240.06Z.L.V.H.		
15mm	Lower Seal Only	0150.06D.N.Z.		
20mm	0200.06A.U.N.E.	0200.06A.L.V.H.		
28mm	0280.06I.U.N.E.	0280.06I.L.V.H.		
20mm	0200.06G.U.N.E.	0200.06G.L.V.H.		
	60mm 90/80mm 90/80mm 90/80mm 90/80mm 90/80mm 90/120mm 90/120mm 90/120mm 90/120mm 90/120mm 90/120mm 90/120mm 30/120mm 60mm 35mm 60mm 60mm 35mm 45mm 90/80mm	60mm	60mm	60mm

FOR ANY PUMP MODELS NOT LISTED ABOVE; PLEASE CONTACT US; AS MODELS CONTINUALLY EVOLVE.
FOR ALL SEAL CODES ANNOTATED WITH "1", THE STOCK CODES STATED FOR THIS MODEL ARE AS SHOWN IN THE VERY LARGE MAJORITY OF INSTANCES.
HOWEVER, SOME ALTERNATIVES DO EXIST; PLEASE CHECK THE PART NUMBERS FOUND ON THE O.E.M SEAL WITHIN OUR O.E.M. DATABASE.

All seal assemblies in the materials coded above are guaranteed ex-stock. For any other seals, or identification by X-reference, please refer to the on-line O.E.M. database, or contact us with your requirements.

## **VULCAN® SEALS FOR GODWIN® PUMPS**

## TYPE 1653 TO SUIT DRI-PRIME® SERIES PUMPS NV S 304



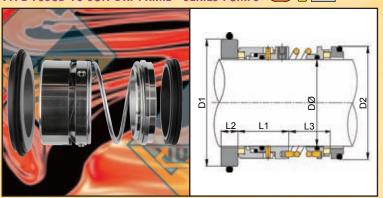
SHAFT SIZE DØ	SIZE CODE	D1	D3	L1	L2
40.00	0400	69.90	56.00	32.00	7.50
50.00	0500	89.90	71.00	34.00	13.00

Vulcan manufacture and stock a range of specific seal types to suit Godwin® "Dri-Prime®" pumps, in materials suitable for all clean and dirty water transfer duties.

40mm and 50mm sizes normally operate as single seals. Please contact is if you require 60mm size seals.

The Type 1653 is a robust heavy-duty design for more abrasive medias, for lower solid content fluids, the Type 1724P can be used, please see details below.

## TYPE 1653D TO SUIT DRI-PRIME® SERIES PUMPS NV Z 304

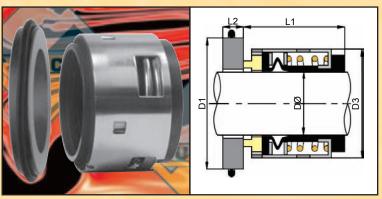


For larger "Dri-Prime®" pumps with 75mm shaft sizes, a double seal is required. The most common arrangement is directly replaced by the Vulcan Type 1653D, which shares a similar construction to the Type 1653 but with an additional single-spring component seal assembly to seal the oil-bath.

For all Godwin® pumps, please contact us with the O.E.M. details for cross-reference and identification.

SHAFT SIZE DØ	SIZE CODE	D1	D2	L1	L2	L3
75.00	0750	109.90	98.00	45.50	14.90	37.00

#### TYPES 1724P AND 1725P TO SUIT DRI-PRIME® SERIES PUMPS N 3 304



SHAFT SIZE DØ	SIZE CODE	D1	D3	L1	L2	VULCAN TYPE
40.00	0400	69.90	56.00	32.00	7.35	1725P
50.00	0500	64.50	66.00	34.50	10.30	1724P

Vulcan Types 1724P and 1725P are designed to suit smaller models of "Dri-Prime®" pumps, and offer an easy to install elastomer bellows seal that is designed to suit the length of the seal chamber, removing the need to set the seal on the shaft with set screws. Type 1724 uses a standard Vulcan rotary, Type 1725 has the same design but with a reduced working length.

For a heavy-duty alternative design, please see the Type 1653 detailed at the top of the page.

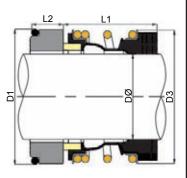
## **VULCAN® SEALS FOR GRUNDFOS® PUMPS**

Vulcan manufacture and stock a wide range of standard range and specific seal types to suit all types of Grundfos® pumps, including former Sarlin® submersible pumps and Hilge® sanitary pumps. Vulcan seals for Grundfos® Hilge® sanitary pumps are dealt with in the following Food and Dairy Seals section. Please contact us with the O.E.M. details and part numbers for cross-reference and identification, if your requirement is not shown.

TYPE 192G SEALS TO SUIT GRUNDFOS® PUMP RANGES (EV (E) (H) 304







Vulcan manufacture and stock Type 192G elastomer bellows seals designed to replace the Grundfos® seal styles "A-" and "B-" with a single, superior performing and easier to install seal design, in the majority of their centrifugal pump ranges.

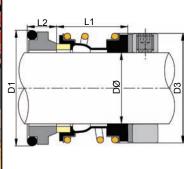
JULCA

SHAFT SIZE DØ	SIZE CODE	D1	D3	L1	L2
12.00	0120	23.00	24.00	25.90	15.00
16.00	0160	27.00	28.00	28.40	12.30
22.00	0220	37.00	36.50	30.00	11.10
33.00	0330	48.00	51.00	35.00	7.50

TYPE 196 16MM SEALS TO SUIT CP-SERIES PUMPS (D) 304





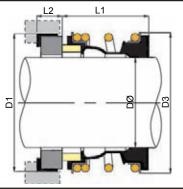


Vulcan manufacture and stock 16mm elastomer bellows seals with spacer and clamp ring to suit the Grundfos® "CP" series pumps. Widely utilised in building service applications.

SHAFT SIZE DØ		D1	D3	L1	L2
16.00	0160	31.50	28.50	21.50	10.50

TYPE 196 22MM SEALS TO SUIT LP-SERIES PUMPS (E) (H) 304





Vulcan manufacture and stock 22mm elastomer bellows seals with special profile boot mounted seats to suit Grundfos® "LM", "LP, LPD and LPE" series pumps. Widely utilised in building service applications.

SHAFT SIZE DØ		D1	D3	L1	L2
22.00	0220	37.00	36.00	33.00	12.00

TYPES 953 AND 954 SEALS TO SUIT CR-SERIES PUMPS (U) (H) 316



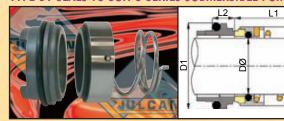
Vulcan manufacture and stock 12mm and 16mm Type 953 screw-fit semi-cartridge seals and 22mm Type 954 push-fit semi-cartridge seals to replace Grundfos® "H-" code seals installed in CR, CRI, CRIE series vertical multi-stage pumps. Type 953 and 954 are intended for all standard dockwise rotation pumps. 16mm Type 953 is also available in "953L" format specifically for "CR15SF" models with anti-clockwise rotation shafts.



## **VULCAN® SEALS FOR GRUNDFOS® PUMPS**

The following Types are designed for Grundfos® submersible pump ranges formerly branded as Sarlin®.

#### TYPE 81 SEALS TO SUIT S-SERIES SUBMERSIBLE PUMPS (S) (D) 304



Vulcan manufacture and stock 'O'-Ring mounted conical spring seals with positive drive, specifically designed to suit Grundfos® "S-" series pumps, with the older generation seal style installed. The O.E.M. older style seal is a conical single spring seal. For newer style seals, being multiple-spring, please see Types 40S8 and 42, at the foot of this page.

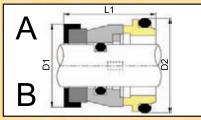
SHAFZT SIZE DØ	SIZE CODE	D1	D3	L1	L2
25.00	0250	38.00	36.00	26.50	10.00
32.00	0320	48.00	46.00	28.50	11.00
38.00	0380	55.00	53.00	33.50	11.50

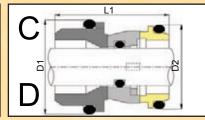
## TYPE 86 SEALS TO SUIT SE- AND SV-SERIES PUMPS VZ N/A

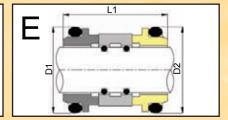
Vulcan manufacture and stock 'O'-Ring mounted double seals with varying face profiles, specifically designed for Grundfos® "SE-" and "SV-" series submersible pumps. Each size has a unique face profile, particularly relating to the central rotary face. Inboard seal and stationary faces are Monolithic Silicon Carbide, whilst the oil-bath side stationary is Monolithic Carbon.



DIAGRAM	SHAFT SIZE DØ	SIZE CODE	TYPE CODE	D1	D2	L1
Α	16.00	0160	86B	28.00	35.00	30.00
В	16.00	0160	86	28.00	35.00	30.00
С	24.00	0240	86	48.00	45.00	50.00
D	24.00	0300	86	48.00	45.00	50.00
Е	38.00	0380	86	53.00	56.00	65.50





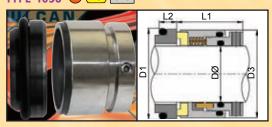


#### TYPES 40S8 AND 42 SEALS TO SUIT S— SERIES PUMPS

Vulcan manufacture and stock 'O'-Ring mounted multi-spring, balanced seals, specifically designed for Grundfos® "S-" series submersible pumps; upper and lower positions. Type 40S8 is for the upper, oil bath position, and Type 42 with the distinctive stationary profile, is for the lower, impeller position.
65mm Size Type 42 lower seal has a distinctive extended barrel with two 'O'-Rings to seal inside impeller recess, as per the original O.E.M. seal.

#### TYPE 40S8 (V) (DS) 316

TYPF 47 (S) 304



SHA SIZE		SIZE CODE	TYPE CODE	D1	D3	L1	L2
38.0	00	0380	40S	56.00	53.00	34.00	11.00
50.0	00	0500	40S8	70.00	65.60	34.50	9.50
65.0	00	0650	40S8	85.00	84.20	36.50	11.00

Please refer to our extensive O.E.M. Database in our Web Portal or contact us with the O.E.M. details or part numbers for cross-reference and identification.

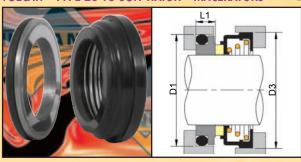
2	L2 L1
L	

SHAFT SIZE DØ	SIZE CODE	D1	D3	L1	L2
32.00	0320	48.00	46.00	34.00	11.00
38.00	0380	55.00	53.00	34.00	11.50
50.00	0500	70.00	65.60	34.50	14.00
65.00	0650	85.00	84.20	66.00	15.00

## VULCAN® SEALS TO SUIT HAIGH® / I.M.O.®



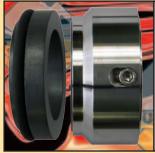
## VULCAN® TYPE 28 TO SUIT HAIGH® MACERATORS (N) F) 304

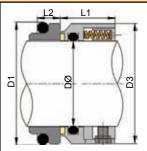


Vulcan manufacture and stock 1.1/4" rotaries, and 1.3/4" complete seals, to suit Haigh® macerators. Rotaries have Carbon faces with Nitrile elastomers, complete seals have a Ni-Resist cast iron stationary with a Nitrile 'O'-Ring.

SHAFT SIZE DØ	SIZE CODE	D1	D3	L1
1.500	0317	N/A	57.50	N/A
1.750	0444	67.00	70.00	7.50

## VULCAN® TYPE 1620 TO SUIT HAIGH® MACERATORS **V** S 304



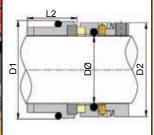


Vulcan manufacture and stock 42mm complete multi-spring 'O'-Ring mounted seals with 'O'-Ring mounted seats to suit Haigh® macerators.

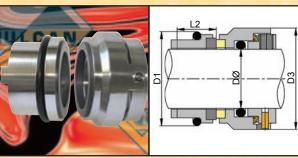
SHAFT SIZE DØ	SIZE CODE	D1	D3	L1	L2	
42.00	0420	62.00	65.00	30.15	14.10	

## VULCAN® TYPE 1689 TO SUIT I.M.O.® PUMPS **(VS)** 304





## VULCAN® TYPE 1690 TO SUIT I.M.O.® PUMPS VS 304



35.00

D2

33.00

L2

23.50

#### VULCAN® SEALS TO SUIT I.M.O.® PUMPS

Vulcan manufacture and stock a wide range of standard dimension seals to suit I.M.O.® pumps, commonly found in marine applications.

To replace the five-part O.E.M. seal supplied for ACE series pumps, generations 3 and above, Vulcan have designed the following seals, which offer a standard configuration seal with a rotary and a stationary, which is far easier to install than the original O.E.M. seal.

SHAFT

SIZE DØ

22.00

SIZE

CODE

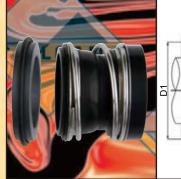
0220

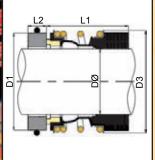
To replace O.E.M. seal types "T" and "Q" please use Vulcan Type 1689.

To replace O.E.M. seal types "U" and "V" please use Vulcan Type 1690.

For other I.M.O.® requirements, please contact us with details.

#### VULCAN® TYPE 144 TO SUIT KOLMEKS® PUMPS (D) 304





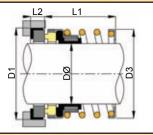
Vulcan manufacture and stock a range of rubber bellows seals with distinctive 'O'-Ring mounted stationaries, to suit Kolmeks® A—, L—, N— and T— series circulating pumps. These pumps are also seen with other brand names, such as Armstrong®, Pullen® and I.T.T. Flygt®.

SHAFT SIZE DØ	SIZE CODE	– I D1 I D3		L1	L2
12.00	0120	22.22	22.00	25.40	5.50
18.00	0180	30.15	32.00	24.50	8.00
25.00	0250	36.73	39.00	25.40	8.00
32.00	0320	46.00	46.00	30.15	8.50
40.00	0400	58.00	56.00	36.00	9.00

## **VULCAN® SEALS FOR HIDROSTAL® PUMPS**

TYPE 11 NV (C) 304





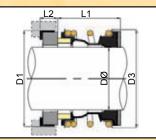
Vulcan standard Type 11 diaphragm seals to replace O.E.M. "C-" and "V-" type seals. NB:- Size code 0250 is a Type 20 not our Type 11. These seals are fitted in the inner oil bath position.

Product side seals are either a rubber bellows type seal, as per our Type 194, shown below. Or rubber encased seals which can be replaced by our Type 41, as detailed below.

SHAFT SIZE DØ		SIZE	D1		D	D3		.1	L2		O.E.M. SEAL
IMPERIAL	METRIC	CODE	IMPERIAL	METRIC	IMPERIAL	METRIC	IMPERIAL	METRIC	IMPERIAL	METRIC	CODE
0.875	22.23	0222	1.500	38.10	1.315	33.400	0.937	23.80	0.405	10.28	C0.6 , V0.6
0.984	25.00	0250	1.594	40.50	1.543	39.200	1.000	25.40	0.406	10.32	C025
1.125	28.58	0286	1.750	44.44	1.823	46.300	1.062	26.97	0.437	11.10	C1.1 , V1.1
1.375	34.93	0349	2.000	50.80	2.071	52.600	1.125	28.58	0.437	11.10	C1.3
1.500	38.10	0381	2.125	53.98	2.197	55.800	1.125	28.58	0.437	11.10	C1.5
2.000	50.80	0508	2.750	69.85	2.874	73.000	1.500	38.10	0.500	12.70	C2.0
2.500	63.50	0635	3.375	85.73	3.343	84.900	1.812	46.02	0.562	14.28	C2.5
3.000	76.20	0762	3.875	98.43	4.043	102.700	2.062	52.37	0.625	15.88	C3.0

TYPE 194 (V) (SS) 304





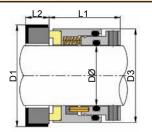
Vulcan Type 194 robust rubber bellows seals to replace O.E.M."G-" type seals. Seal sizes from 0286 and up are supplied with steel back-washer, to separate the seal bellows from the shaft circlip. Size code 0200 to replace O.E.M. "G020K" is standard Vulcan Type 19B seal.

Usually fitted in tandem with our Type 11 seals, detailed above, or our Type 41 seals, shown below.

SHAFT SIZE DØ		SIZE	D1		D	D3		L1		2	O.E.M. SEAL
IMPERIAL	METRIC	CODE	IMPERIAL	METRIC	IMPERIAL	METRIC	IMPERIAL	METRIC	IMPERIAL	METRIC	CODE
0.625	15.88	0158	1.187	30.14	1.102	28.00	0.875	22.23	0.405	10.28	G016 , M0.6
0.787	20.00	0200	1.500	38.10	1.417	36.00	1.181	30.00	0.394	10.00	G020
0.787	20.00	0200	1.378	35.00	1.594	40.50	0.846	21.50	0.295	7.50	G020K
1.125	28.58	0286	1.750	44.44	1.850	47.00	1.062	26.97	0.437	11.10	G1.1
1.500	38.10	0381	2.125	53.98	2.283	58.00	1.125	28.58	0.437	11.10	G1.5
2.000	50.80	0508	2.750	69.85	2.795	71.00	1.500	38.10	0.500	12.70	G2.0
2.500	63.50	0635	3.375	85.73	3.543	90.00	1.812	46.02	0.562	14.28	G2.5
3.000	76.20	0762	3.875	98.43	4.016	102.00	2.062	52.37	0.625	15.88	G3.0
3.740	95.00	0950	4.876	123.85	5.157	131.00	2.375	60.33	0.752	19.10	G095
3.937*	100.00	1000	4.876	123.85	5.157	131.00	2.375	60.33	0.752	19.10	G100

**TYPE 41** 





Vulcan Type 41 is a unitised, highly robust, balanced multi-spring seal to replace 0.E.M. "M-" and "X-" type seals. Type 41 is designed to replace the single-spring rubber-encased 0.E.M. seals, that can often fail when the rubber loses its bond with the seal faces and metal parts. Seal size 0950 has an 'O'-Ring type stationary, not boot mount. Usually fitted in tandem with either our Type 11 or Type 194 seals, shown above.

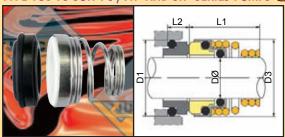
SHAFT	SIZE DØ	SIZE	D	1	D	3	L	1	L2		O.E.M.	GUARANTEED STOCK
IMPERIAL	METRIC	CODE	IMPERIAL	METRIC	IMPERIAL	METRIC	IMPERIAL	METRIC	IMPERIAL	METRIC	SEAL CODE	MATERIALS
1.125	25.58	0286	1.750	44.44	1.732	44.00	1.181	30.00	0.319	8.10	M1.1	<b>V</b> 1 316
1.500	38.10	0381	2.125	53.98	2.157	54.80	1.244	31.60	0.319	8.10	M1.5	<b>V 1</b> 316
2.000	50.80	0508	2.750	69.85	2.661	67.60	1.500	38.10	0.500	12.70	M2.0 , X2.0	<b>V</b> S 316
2.500	63.50	0635	3.375	85.73	3.082	78.30	1.812	46.20	0.562	14.28	M2.5 , X2.5	<b>V</b> S 316
3.000*	76.20	0762	3.875	98.43	3.689	93.70	2.063	52.40	0.625	15.88	M3.0 , X3.0	<b>V</b> S 316
3.740	95.00	0950	4.876	123.85	5.039	128.00	2.477	62.90	0.649	16.50	X095	<b>V</b> S 316

JULCA

## **VULCAN® SEALS FOR LOWARA® PUMPS**

Vulcan offer a wide range of seals to suit I.T.T. Lowara® pumps, especially centrifugal circulation pumps. Many I.T.T. Lowara® pumps use standard range seals, especially Type 13 and Type 13DIN, the following Types are specific dimension seals to suit certain ranges where a standard seal cannot be installed. For other I.T.T. Lowara® requirements, please contact us with details.

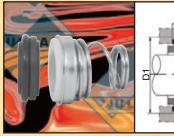
## TYPE 130 TO SUIT FC-, FH- AND SH- SERIES PUMPS (B) 304

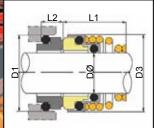


Vulcan manufactures a range of 'O'-Ring mounted conical spring seals to EN12756/DIN24960 "L1K" dimensions, to suit "FC-, FH-, SH-" series pumps.

				•	
SHAFT SIZE DØ	SIZE CODE	10   13		L1	L2
14.00	0140	25.00	24.00	22.20	7.00
22.00	0220	37.00	36.00	27.50	10.00
28.00	0280	43.00	42.00	32.50	10.00
33.00*	0330	48.00	46.50	32.50	10.00

## TYPE 131 TO SUIT CE- AND CO- SERIES PUMPS NEV B 1 H 304

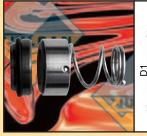


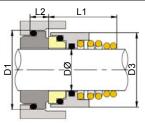


Vulcan manufacture and stock a 14mm Type 131 seal to suit the reduced length seal chamber of various circulating pumps, such as "CE-" and "CO-" ranges with newer "A" suffix motors. The Type 131 is the same dimensions to Vulcan Type 13, except for the reduced rotary working length.

SHAFT SIZE DØ	SIZE CODE	D1	D3	L1	L2
14.00	0140	23.10	24.00	16.60	6.00

## TYPE 135 TO SUIT SV- AND SVI- SERIES PUMPS [V] 304

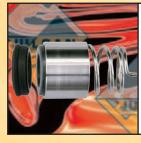


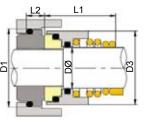


Vulcan manufacture and stock a range of 'O'-Ring mounted, robust conical spring seals to EN12756 / DIN24960 "L1K" dimensions, to suit "SV- and SVI-" series pumps. 12mm and 16mm also suit certain "e-SV-" series models

	SHAFT SIZE DØ	SIZE CODE	D1	D3	L1	L2
ı	12.00	0120	23.00	21.00	25.50	7.00
ı	16.00	0160	27.00	26.00	28.00	7.00
1	25.00	0250	40.00	36.00	30.00	10.00

## TYPE 139 TO SUIT e-SV SERIES PUMPS (R) (SC) 316





Vulcan manufacture and stock a 20 / 18mm step-balanced, '0'-Ring mounted, robust conical spring seal with positive drive from the coil, to suit certain models of "e-SV-" series pumps.

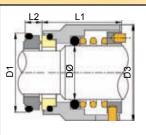
Vulcan Stock Codes; W-0200.139.R.V.R. - SiC vs SiC

W-0200.139.R.V.SC. - SiC vs Carbon

SHAFT SIZE DØ	SIZE CODE	D1	D3	L1	L2	
16.00	0200	26.90	29.50	34.00	7.00	

### TYPE 822 TO SUIT SV AND e-SV SERIES PUMPS (S) 316





Vulcan manufacture and stock a 22/26mm step-balanced, 'O'-Ring mounted, robust single spring seal with positive drive from three drive studs on the coil base, to suit larger models of "SV- and e-SV-" series pumps.

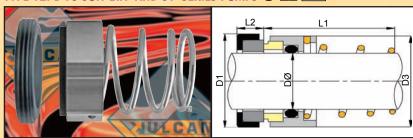
Vulcan Stock Code: W-0220.822.E.S. - SiC vs SiC

SHAFT SIZE DØ	SIZE CODE	D1	D3	L1	L2	
26.00	0220	37.00	43.00	38.00	7.00	

## **VULCAN® SEALS FOR K.S.B.® PUMPS**

Vulcan offer a wide range of seals from stock and to special order, to suit K.S.B.® equipment, especially centrifugal and waste-water pumps. Please contact us with O.E.M. details for cross reference and identification.

TYPE 127B TO SUIT ETA- AND SY- SERIES PUMPS (SAS) 316

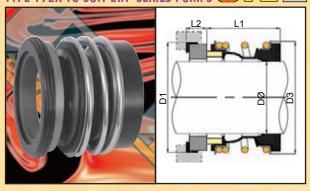


conical spring rotaries with Type 19B boot mounted stationaries, to give operating dimensions to EN12756/DIN24960 L1N, for "ETA-" series pumps with "SY-, SYA-, SYN-, or SYT-" designations. These seals are available from stock in materials especially suitable for hot water duties.

Vulcan manufacture and stock 'O'-Ring mounted

SHAFT SIZE DØ	SIZE CODE	D1	D3	L1	L2
28.00	0280	43.00	40.00	42.50	7.50
38.00	0380	56.00	53.00	46.00	9.00
48.00	0480	66.00	64.00	51.00	9.00

## TYPE 192K TO SUIT ETA- SERIES PUMPS (EV) (D) (SS) 304

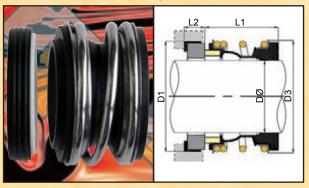


Vulcan manufacture and stock a range of elastomer bellows seals to suit the common types of K.S.B.® "ETA-" series centrifugal pumps commonly found thought-out the fluid industry.

Contact us with O.E.M. details for cross reference and identification.

SHAFT SIZE DØ	SIZE CODE	D1	D3	L1	L2
16.00*	0160	27.00	26.00	22.20	12.10
22.00	0220	37.00	36.00	25.50	12.10
28.00	0280	43.00	47.00	36.50	14.40
38.00	0380	56.00	58.00	42.00	13.20
48.00	0480	66.00	69.00	50.50	9.60

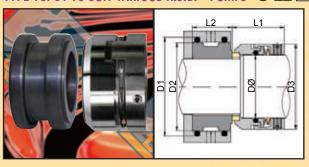
## TYPE 197 TO SUIT AMA-, KRT-, AND SEWA- SERIES PUMPS



Vulcan manufacture and stock a range of elastomer bellows seals to suit the specific dimensions of K.S.B.® "AMA-", "KRT-" and "SEWA-" series waste-water pumps with "SU-" prefix seals installed. 25mm size is commonly used in the 'oil bath' position, with 22mm Type 19B found on page 45 in the 'outer' position, 33mm sizes are used in pairs in the same pump series. 28mm is commonly used in "Vitachrom" pumps in tandem with Type 127B

SHAFT SIZE DØ	SIZE CODE	D1	D3	L1	L2	GUARANTEED STOCK MATERIALS
25.00	0250	38.00	41.00	23.00	7.50	<b>V C</b> 304
28.00*	0280	43.00	47.00	26.50	9.00	<b>V</b> SS 304
33.00	0330	48.00	51.00	27.50	11.00	<b>V</b> SS 304

## TYPE 1678Y TO SUIT VARIOUS K.S.B.® PUMPS [AD] 304



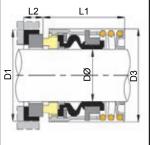
Vulcan manufacture and stock two sizes of step-balanced, 'O'-Ring mounted wave-spring seals, with specific stationary design to replace O.E.M. seal type "H75G115". These seals are available from stock in materials especially suitable for hot water duties.

SHAFT SIZE DØ	SIZE CODE	D1	D2	D3	L1	L2
28.00	0330	55.20	48.80	47.00	38.50	25.00
33.00	0380	59.20	52.80	54.00	38.50	29.00

## **VULCAN® SEALS FOR VARIOUS PUMPS**

VULCAN® TYPE N5 TO SUIT NATIONAL OILWELL® MISSION MAGNUM® PUMPS. ♥ ⊕ 316

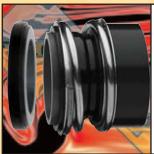


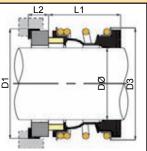


Vulcan hydraulically balanced elastomer diaphragm seals of 2.500" shaft size, with improved design to suit the adverse conditions associated with "mud" pumps, commonly found in oil extraction applications, such as drilling rigs. Vulcan's design, specifically created for these applications provides the seal performance benefits of a machined head retainer, hydraulic balance and a full boot mounted seat. As 'O'-Ring mounted seats are less able to seal the frequently pitted, corroded housings. Vulcan also supplies the replacement shaft sleeves to suit these pumps, on stock code 0635.N5.V.X.SLEE.

SHAFT S	IZE DØ	SIZE	D	1	D	3	L	1	L	2
IMPERIAL	METRIC	CODE	IMPERIAL	METRIC	IMPERIAL	METRIC	IMPERIAL	METRIC	IMPERIAL	METRIC
2.500	63.50	0635	3.375	85.73	3.210	81.54	2.500	63.50	0.567	14.40

#### VULCAN® TYPE 196 32MM TO SUIT S.P.P.® PUMPS. © (D) 304



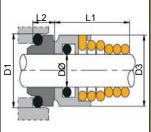


Vulcan manufacture and stock 32mm elastomer bellows seals with smooth-boot stationaries, to suit the extended seal chamber of S.P.P.® Eurostream® centrifugal pumps, commonly associated with large building service applications, such as heating and fire systems.

SHAFT SIZE DØ	SIZE CODE	D1	D3 L1		L2
32.00	0320	48.00	46.00	40.00	7.50

## VULCAN® TYPE 121 TO SUIT STERLING SIHI® PUMPS. NEV (P) 304





Vulcan manufacture and stock 38mm 'O'-Ring mounted conical spring seals, in clockwise and anti-clockwise rotation, to suit the housing dimensions of common Sterling Sihi® pumps.

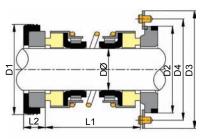
SHAFT SIZE DØ	SIZE CODE	D1	D3		
38.00	0380	53.50	53.00	42.00	9.50

Vulcan stocks many standard range seals to suit Sterling Sihi® pumps, such as Type 12, Type 12DIN, Type 192S, Type 40L and Type 1677M.

Please contact us with the O.E.M. details for cross reference and identification.

VULCAN® TYPE 260B TO SUIT TSURUMI® PUMPS. WWA 304





Vulcan manufacture and stock a range of elastomer diaphragm double-ended seals, with boot stationaries at oil side and bezel seats at impeller side, to suit the seal chamber of various Tsurumi® submersible pumps.

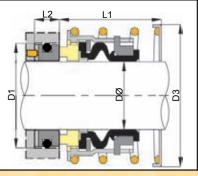
Type 260B seals are supplied complete with bezel plates for the inboard seat.

	1						
SHAFT SIZE DØ	SIZE CODE	D1	D2	D3	D4 P.C.D.	L1	L2
20.00	0200	38.00	44.00	72.00	60.00	8.00	34.00
25.00	0250	44.00	50.00	72.00	60.00	8.00	34.00
30.00	0300	50.00	57.00	82.00	70.00	8.00	42.00
35.00	0350	58.00	65.00	94.00	80.00	9.00	42.00
40.00	0400	64.00	70.00	100.00	85.00	9.00	44.50
45.00	0450	66.00	70.00	105.00	90.00	9.00	45.00
50.00	0500	72.00	80.00	109.00	95.00	9.00	49.50

## **VULCAN® VIKING® / WILO® PUMPS SEALS**

## VULCAN® TYPE V4 TO SUIT VIKING® PUMPS. (AN) 304



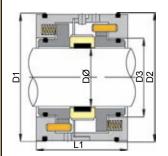


Vulcan manufacture a wide range of differing elastomer diaphragm seals with 'O'-Ring or boot mounted stationaries, to suit the specific dimensions required by various Idex® Viking® pumps, of which the Vulcan Type V4 1.1/4" shaft size is a common example. Please contact us with O.E.M. details for cross reference and identification, for any other seal assembly required for this popular brand of pumps.

SHAFT SIZE DØ		SIZE	D1		D3		L1		L2	
IMPERIAL	METRIC	CODE	IMPERIAL	METRIC	IMPERIAL	METRIC	IMPERIAL	METRIC	IMPERIAL	METRIC
1.250	31.70	0317	1.875	47.50	2.027	51.50	1.000	25.40	0.381	9.65

## VULCAN® TYPE 1640 AND 1642 TO SUIT WILO® E.M.U. SUBMERSIBLE PUMPS. VZS 304

Vulcan manufacture and stock several standard range seals to suit Wilo® E.M.U. Submersible pumps, as well as Type 1640 and 1642 seals to replace the O.E.M. "EBU" enclosed-block seals.



The Vulcan Type 1640 is a direct replacement for the older-generation "EBS" O.E.M. seals. Newer pumps have a slightly modified seal installed, which is directly replaced by the Vulcan Type 1642. Please check the outer dimensions of the seat housing for correct identification, utilising the table below, D3 dimension.

Type 1640 is available as complete mechanical seal assemblies or in repair kit form. The kits comprise both stationary faces, with 'O'-Rings, central rotary with elastomer diaphragm, anti-rotation pins and springs for stationaries, and retaining pins for the collets. Specify .KIT as a suffix on the stock code.

## Type 1640 Dimensions VZS 304



	SHAFT SIZE DØ	SIZE CODE	D1	D2	D3	L1
	35.00	0350	72.00	72.00	47.00	47.50
	50.00	0500	92.00	90.00	63.00	52.00
	75.00	0750	130.00	128.00	95.50	75.00

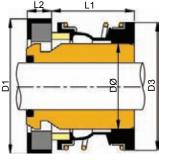
## Type 1642 Dimensions WZS 304

SHAFT SIZE DØ	SIZE CODE	D1	D2	D3	L1
35.00	0350	72.00	72.00	49.00	47.00
50.00	0500	92.00	90.00	65.00	52.00

#### VULCAN® TYPE 191 TO SUIT WILO® CENTRIFUGAL PUMPS. O

Vulcan manufacture and stock two sizes of Type 191 elastomer bellows seals to suit common Wilo® centrifugal pumps, commonly utilised in heating pumps applications. Vulcan stocks the brass shaft sleeves the seals are mounted onto. Vulcan also offers other standard range seals, such as 17mm Type 19B, and 18mm, 24mm or 32mm Type 192B seals, to suit Wilo® pumps.





SHAFT SIZE DØ	SIZE CODE	D1	D3	L1	L2
32.00	0320	50.80	51.00	33.34	11.99
55.00	0550	76.20	78.00	41.00	13.50



Brass Shaft Sleeves. Please use codes; 0320.191.E.X.SLEE 0550.191.E.X.SLEE For ordering relevant Shaft Sleeves

## **VULCAN® SEALS FOR COMPRESSORS**



## **VULCAN® MECHANICAL SEALS TO SUIT REFRIGERATION O.E.M. APPLICATIONS**

Vulcan have extensive sealing experience within the refrigeration industry, and have developed a wide range of seals, with the specific elastomers and advanced face materials required to suit the refrigerants and synthetic lubricating oils the mechanical seals are routinely exposed to.

As there are a wide range of compressor models, and generally each compressor has model specific seal arrangements, Vulcan have developed many seal designs to suit compressor applications. The following list merely illustrates our main guaranteed stock lines. Please enquire with any other requirement.

Furthermore, these seals can be installed in the equipment without any amendment to the existing housings or shafts. The Vulcan designs, excellent materials, wide stock range and the ability to manufacture to any industry design or requirement, complement the Vulcan Refrigeration Seal range.

#### **VULCAN® GUARANTEED EX-STOCK SEAL RANGE**



J & E Hall® HS18-20 Screw

Howden® WRV205

Howden® WRV225 Mk1

Sabroe® TCM028

A.P.V. Hall® HS18-20 Screw
A.P.V. Hall® V54 6 And 8 Cylinder
A.P.V. Hall® V92 Range
A.P.V. Hall® V127 Range
Bitzer® 4F, 6F And 6G
Bitzer® 4N, 4P, 4T And 4U

Bock® F And FK Ranges

Bock® AM And BFO Ranges

Carrier® 05K
Carrier® 05G

Carrier® 05G Emergency Clutch

Carrier® 05H

Copeland® 2, 4 And 6 Cylinder

Copeland® 8 Cylinder

Daikin® C55 4, 6 And 8 Cylinder

Daikin® C75 4, 6 And 8 Cylinder

Dunham Bush® Big 4

Frick® RDB Range
Frick® RWB Range

Frick® TDSH/GDSH Range

Gram® HC075

Gram® HC100

Grasso® RC9 Non-bellows

Grasso® RC11 Non-bellows

Howden® WRV163 And XRV163

Howden® WRV204 Mk4
Howden® WRV204 Mk5

Howden® WRV204 Mk6

Howden® WRV205

Howden® WRV255 Mk1 To 4F

Howden® WRV255 Mk5

Howden® WRV321

Sabroe® CM018

Sabroe® CM024, 026 And 028

Sabroe® SAB 128 Non-bellows
Sabroe® SAB 163 Non-bellows

Sabroe® SMC100 To 104

Sabroe® TCM024, 026 And 028

Sabroe® TSMC108 To 165

Sabroe® VMY225

Sabroe® VMY236

Sabroe® VMY325
Sabroe® VMY336

Sabroe® VMY447

Sabroe® VMY525

Sabroe® VMY536
Stal® P24 And PK24

Stal® P42

Stal® PK6, PK8

Stal® S50, S51, S56 And S57

Stal® \$70, \$71, \$73 And \$75

Thermo-King® "22-0777" Seal

Thermo-King® "22-0778" Seal

Thermo-King® "22-0899" Seal

Thermo-King® "22-1100" Seal

Thermo-King® "22-1101" Seal

Vilter® 320VMC to 350VMC

Vilter® 440 With 2.500" Crank

Vilter® 450 With 2.500" Crank

Witt® GP42 Pump
Witt® GP51 Pump

Vulcan Seals for all of the above Compressor Models shown are Guaranteed Ex-Stock. For further information and any other types, please view our Web Portal and / or our Compressor Seal Price List, or enquire.



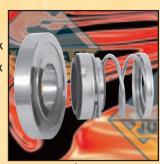
Copeland® 4CC



Carrier® 05G



J & E Hall® V54



Stal ® P24