VULCAN SEALS

Phone : +44 (0) 114 249 3333
Email : contact@vulcanseals.com

Vulcan Seals Type 226

Technical Data Sheet

Product Description

The Vulcan Seals Type 226 is a resilient, rubber diaphragm-mounted parallel spring seal design with a self-adjusting head to accommodate minor shaft misalignment and run-out.

The seal drive is provided by the diaphragm bellows tightly gripping the shaft and providing positive drive to the seal head and sealing face. The Vulcan Seals diaphragm seal designs are bi-directional "pusher" seals that minimise shaft fretting as the spring is constantly providing energising force to the shaft contact point and sealing face.

Supplied with a Vulcan Seals Type 226 boot-mounted stationary to suit common compact Asian market metric dimension seal chambers.

Why Choose the Vulcan Seals Type 226?

- Proficient diaphragm bellows design with dimensions to suit common Asian market compact length metric seal chambers.
- Boot-mounted stationary provides maximum elastomer sealing contact to the housing surface.
- The base plate fitted at the spring drive end provides firm contact against a shaft step or circlip that sets the seal's operating height. This component can be removed if not required.
- A widely utilised mechanical seal type highly suited to general light to medium duties and capable of long service life.

Standard Face Material Combinations

Rotary Face	Stationary Face	Complete Seal Code
VCP1 Carbon	VAW1 Ceramic	C
VCP1 Carbon	VSR1 Silicon Carbide	D
VSR1 Silicon Carbide	VSR1 Silicon Carbide	S

Guaranteed Stock/Material Elastomers: Viton™/FKM, EP, Nitrile and Metallurgy 304SS
*Non-stock guarantee

Elastomer Temperature Capabilities

	Minimum	Maximum
Nitrile	-30°C	+120°C
EP	-40°C	+140°C
Viton™/FKM	-30°C	+180°C

Pressure: Up to 14 bar (203 psi)

Mechanical Seal Replacement Range

Vulcan Seals Type 226 is a dimensional replacement mechanical seal for the following seal ranges:

- Burgmann® | Type EA560*

**Rotary Face | **Stationary Face*

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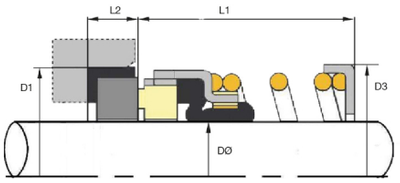

Dimensional Data

DØ (Metric)	Seal Size Code	D1 (mm)	D3 (mm)	L1 (mm)	L2 (mm)	L Total (mm)
8	0080	21.00	18.00	13.00	5.00	18.00
9	0090	24.00	19.00	16.50	6.50	23.00
10	0100	24.00	21.80	16.50	6.50	23.00
11	0110	24.00	21.80	16.50	6.50	23.00
12	0120	26.00	21.80	17.50	6.50	24.00
13	0130	26.00	22.80	17.50	6.50	24.00
14	0140	28.00	24.40	18.50	6.50	25.00
15	0150	28.00	27.00	18.50	6.50	25.00
16	0160	32.00	27.00	20.00	7.00	27.00
17	0170	32.00	30.10	20.00	7.00	27.00
18	0180	35.00	30.10	18.50	7.50	26.00
19	0190	35.00	30.10	18.50	7.50	26.00
20	0200	38.00	33.40	20.00	8.00	28.00
22	0220	40.00	33.40	19.50	8.50	28.00
25	0250	44.00	39.20	20.50	8.50	29.00
28	0280	46.00	41.70	21.50	8.50	30.00
30	0300	50.00	44.00	21.50	9.50	31.00
32	0320	54.00	45.60	23.50	9.50	33.00
35	0350	58.00	49.30	25.50	10.50	36.00
38	0380	60.00	52.10	26.50	10.50	37.00
40	0400	64.00	56.10	27.00	11.00	38.00
45	0450	66.00	60.80	29.00	11.00	40.00
50	0500	72.00	66.80	31.00	11.00	42.00

Dimensions in mm
DØ = Metric size shaft
*Non-stock guarantee

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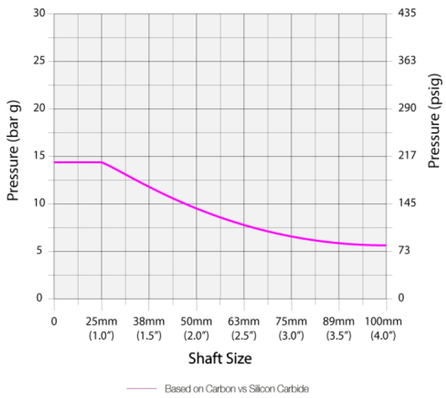
Maximum Operating Pressure

The PV Chart shows the maximum operating pressures of this Vulcan Seals type, based on the seal face materials used. Different lines on the chart indicate different material combinations, as shown underneath.

It also assumes stable operation in a clean, cool, lubricating and nonvolatile fluid with an adequate flush rate.

For more in-depth pressure rating calculations based on specific material combinations and application conditions, please consult us.

PV Chart



Application Conditions

	Criteria	Multiplier
Product Fluid	Lubricating fluids	X 1.00
	Aqueous solutions / Water	X 0.85
Temperature	Below 70°C (158°F)	X 1.00
	71°C to 120°C (160°F to 248°F)	X 0.85
	121°C to 175°C (250°F to347°F)	X 0.75
	Over 176°C (349°F)	X 0.60
Speed	Up to 1750 rpm	X 1.00
	1750 to 3600 rpm	X 0.80

Face and Seat Materials

Combination	Multiplier
Carbon vs Ceramic	x 0.50
Carbon vs Silicon Carbide	x 1.00
Silicon Carbide vs Silicon Carbide	x 0.50

Example Calculation for Vulcan Seals Type 226

A. Shaft size: 38mm therefore pressure is 12 bar (from PV Chart)
B. Media: Water (multiplier = 0.85)
C. Temperature: 50°C (multiplier = 1.00)
D. Speed: 1450 rpm (multiplier = 1.00)
E. Face combination: Carbon vs Silicon Carbide (multiplier = 1.00)

For this particular Vulcan Seals Type 226 seal size, the calculation for the approximate guidance maximum operating pressure would be:

A x B x C x D x E
12 bar x 0.85 x 1.00 x 1.00 x 1.00 = 10.20 bar

Guidance Only

Please note that due to the many operational and application variables that affect seal performance, the information given on this page is for guidance only.

We therefore strongly recommend careful individual testing and monitoring of all seals and related equipment for any proposed application.

Our policy is one of continuous technical and efficiency improvement. As such, all specifications may be subject to change without prior notice.

** Important: These limits are the theoretical elastomer or design limitations. For maximum theoretical operating pressure for your specific size and application please refer to calculation example within this data sheet. All performance information given is for guidance only and is dependent on material, operating and application factors that affect seal performance.