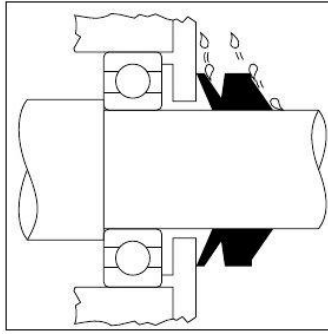


< INTRODUCE V-RINGS >



The function of a V-ring is to exclude dirt, water, or other aggressive media from entering bearing housings while also retaining grease. The V-ring stretches over the shaft and assumes a tight interference fit.

V-ring shaft seals utilize centrifugal slinger action to provide effective protection against dry and wet contamination. In combination with an metal-cased radial seal, the V-ring reduces wear and extends the service life of the oil seal and bearings.

The V-ring also performs well in dry running applications. Because it is all rubber and very elastic, it can be stretched over flanges or other components for easy installation with minimal unit disassembly. It has very low torque drag and heat build up, and does not require expensive countersurface preparation.

The key benefits :

- Technical simplicity - Low friction and minimal loss of power. In smaller power units this can be significant. The pressure of the lip against the counterface is very light.
- Economical - Wide machining tolerances-little or no shaft finishing. No housing required. No shaft wear. Seals resist damage during installation. One size covers many shaft sizes.
- Versatile application - Works equally well on rotating or oscillating shafts and at high speeds over 3000 FPM. At high speeds the lip lifts away from the counterface and acts as a clearance slinger.

< MATERIAL SPECIFICATION >

Standard materials : Nitrile and Fluoroelastomer .

Non-standard materials : Hydrogenated nitrile, Silicone, Chloroprene and Ethylene propylene.

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< TYPE >



VA



VS



VL



VE

VA type : The most common style available in the widest range of sizes from .110" (2.7mm) shaft to 79.530" (2020mm) nitrile and fluoroelastomer. Ideal for protecting gearboxes, electric, motors and drives.

VS type : The original V-ring designed with a wide body and tapered heel to firmly hold the ring on the shaft. Available in sizes from .180" (4.5mm) shaft to 8.270" (210mm). Commonly used in agricultural and automotive applications

VL type : Very compact axial cross-section commonly used in confined spaces to replace labyrinth seals. Available in nitrile and fluoroelastomer for shaft sizes from 4.134" (105mm) shaft to 78.745" (2000mm) and beyond.

VE type : A heavy-duty large diameter style commonly used in rolling mills as a secondary seal for heavy duty applications where the primary seal has to be protected against water and or particulate contamination. VR4 is the preferred heavy duty. Available in both nitrile and fluoroelastomer for shafts from 11.811" (300mm) to over 78" (2000mm).

< Installation >

Where the V-ring is used as a grease seal/contaminant excluder, the V-ring is normally mounted on the outside of a bearing housing with axial support when required.

In the case of mass production, it is always advisable to use an assembly tool. Where small quantities are involved the V-ring may be fitted by using a blunt instrument, such as a screw driver, to manipulate the seal into the correct position.

General rules:

1. The V-ring, the counterface and the shaft should be clean.
2. The shaft should preferably be dry and free from grease or oil.
3. The lip of the V-ring should be lubricated with a thin film of grease or silicone oil.
4. Ensure that the V-ring is mounted with a uniform stretch around the shaft.

< V-RINGS SIZE LIST >

Type : VA



VA NO.	SHAFT RANGE	INSIDE DIAMETER	WIDTH	HEIGHT
VA-3	2.7-3.5	2.5	1.5	3
VA-4	3.5-4.5	3.2	2	3.7
VA-5	4.5-5.5	4	2	3.7
VA-6	5.5-6.5	5	2	3.7
VA-7	6.5-8	6	2	3.7
VA-8	8-9.5	7	2	3.7
VA-10	9.5-11.5	9	3	5.5
VA-12	11.5-13.5	10.5	3	5.5
VA-14	13.5-15.5	12.5	3	5.5
VA-16	15.5-17.5	14	3	5.5
VA-18	17.5-19	16	3	5.5
VA-20	19-21	18	4	7.5
VA-22	21-24	20	4	7.5
VA-25	24-27	22	4	7.5
VA-28	27-29	25	4	7.5
VA-30	29-31	27	4	7.5
VA-32	31-33	29	4	7.5
VA-35	33-36	31	4	7.5
VA-38	36-38	34	4	7.5
VA-40	38-43	36	5	9
VA-45	43-48	40	5	9
VA-50	48-53	45	5	9
VA-55	53-58	49	5	9
VA-60	59-63	54	5	9
VA-65	63-68	58	5	9
VA-70	68-73	63	6	11
VA-75	73-78	67	6	11
VA-80	78-83	72	6	11
VA-85	83-88	76	6	11
VA-90	88-93	81	6	11
VA-95	93-98	85	6	11
VA-100	98-105	90	6	11

VA-110	105-115	99	7	12.8
VA-120	115-125	108	7	12.8
VA-130	125-135	117	7	12.8
VA-140	135-145	126	7	12.8
VA-150	145-155	135	7	12.8
VA-160	155-165	144	8	14.5
VA-170	165-175	153	8	14.5
VA-180	175-185	162	8	14.5
VA-190	185-195	171	8	14.5
VA-199	195-210	180	8	14.5
VA-200	190-210	180	15	25
VA-220	210-235	198	15	25
VA-250	235-265	225	15	25
VA-275	265-290	247	15	25
VA-300	290-310	270	15	25
VA-325	310-335	292	15	25
VA-350	335-365	315	15	25
VA-375	365-390	337	15	25
VA-400	390-430	360	15	25
VA-450	430-480	405	15	25
VA-500	480-530	450	15	25
VA-550	530-580	495	15	25
VA-600	580-630	540	15	25

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Type : VS



VS NO.	SHAFT RANGE	INSIDE DIAMETER	WIDTH	HEIGHT
VS-5	4.5-5.5	4	2	5.2
VS-6	5.5-6.5	5	2	5.2
VS-7	6.5-8	6	2	5.2
VS-8	8-9.5	7	2	5.2
VS-10	9.5-11.5	9	3	7.7
VS-12	11.5-13.5	10.5	3	7.7
VS-14	13.5-15.5	12.5	3	7.7
VS-16	15.5-17.5	14	3	7.7
VS-18	17.5-19	16	3	7.7
VS-20	19-21	18	4	10.5
VS-22	21-24	20	4	10.5
VS-25	24-27	22	4	10.5
VS-28	27-29	25	4	10.5
VS-30	29-31	27	4	10.5
VS-32	31-33	29	4	10.5
VS-35	33-36	31	4	10.5
VS-38	36-38	34	4	10.5
VS-40	38-43	36	5	13
VS-45	43-48	40	5	13
VS-50	48-53	45	5	13
VS-55	53-58	49	5	13
VS-60	58-63	54	5	13
VS-65	63-68	58	5	13
VS-70	68-73	63	6	15.5
VS-75	73-78	67	6	15.5
VS-80	78-83	72	6	15.5
VS-85	83-88	76	6	15.5
VS-90	88-93	81	6	15.5
VS-95	93-98	85	6	15.5
VS-100	98-105	90	6	15.5
VS-110	105-115	99	7	18
VS-120	115-125	108	7	18
VS-130	125-135	117	7	18
VS-140	135-145	126	7	18

VS-150	145-155	135	7	18
VS-160	155-165	144	8	20.5
VS-170	165-175	153	8	20.5
VS-180	175-185	162	8	20.5
VS-190	185-195	171	8	20.5
VS-199	195-210	180	8	20.5

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Type : VL



VL NO.	SHAFT RANGE	INSIDE DIAMETER	WIDTH	HEIGHT
VL-0120	115-125	108	6.5	10.5
VL-0130	125-135	117	6.5	10.5
VL-0140	135-145	126	6.5	10.5
VL-0150	145-155	135	6.5	10.5
VL-0160	155-165	144	6.5	10.5
VL-0170	165-175	153	6.5	10.5
VL-0180	175-185	162	6.5	10.5
VL-0190	185-195	171	6.5	10.5
VL-0200	195-210	182	6.5	10.5
VL-0220	210-233	198	6.5	10.5
VL-0250	233-260	225	6.5	10.5
VL-0275	260-285	247	6.5	10.5
VL-0300	285-310	270	6.5	10.5
VL-0325	310-335	292	6.5	10.5
VL-0350	335-365	315	6.5	10.5
VL-0375	365-385	337	6.5	10.5
VL-0400	385-410	360	6.5	10.5
VL-0425	410-440	382	6.5	10.5
VL-0450	440-480	405	6.5	10.5
VL-0500	480-530	450	6.5	10.5
VL-0550	530-580	485	6.5	10.5
VL-0600	580-630	540	6.5	10.5

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Type : VE



VE NO.	SHAFT RANGE	INSIDE DIAMETER	WIDTH	HEIGHT
VE-450	450-455	439	30	65
VE-455	455-460	444	30	65
VE-460	460-465	448	30	65
VE-465	465-470	453	30	65
VE-470	470-475	458	30	65
VE-475	475-480	463	30	65
VE-480	480-485	468	30	65
VE-485	485-490	473	30	65
VE-490	490-495	478	30	65
VE-495	495-500	483	30	65
VE-500	500-505	488	30	65
VE-505	505-510	493	30	65
VE-510	510-515	497	30	65
VE-515	515-520	502	30	65
VE-520	520-525	507	30	65
VE-525	525-530	512	30	65
VE-530	530-535	517	30	65
VE-535	535-540	521	30	65
VE-540	540-545	526	30	65
VE-545	545-550	531	30	65

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