



Max. Operating Conditions	
Pressure (MPa)	without compression
Temperature (°C)	- 30 / + 110 / + 200
Speed (m/s)	≤ 12
Media: mineral and synthetic oils, air, water, emulsions and grease	

Recommended Surface Finish		
Surface roughness	$R_a$	$R_t$
Running surface	≤ 3,2 µm	≤ 16 µm

Material	
NBR	N
FKM (Viton®)	V

Technical Description
<p>The V-ring type <b>VL</b> is an axially acting shaft sealing ring made of elastomer, appropriate for sealing against water, oil, grease, dust and dirt. The ring is seated on the shaft and turns with the shaft. The sealing lip slides and seals on a counterrotation surface that is normal to the shaft. A secure sealing is given even if the shaft is slightly inclined or turning eccentrically.</p> <p>Die Bauform <b>VL</b> hat eine kleine Profilgeometrie und ist daher für Konstruktionen geeignet, in denen begrenzte Einbauträume zur Verfügung stehen. Die Profilgröße ist im angegebenen Durchmesserbereich gleich.</p> <p>From a peripheral speed of 8 m/s it is recommended to axially support the V-ring.            From 12 m/s the V-ring should be further secured with a strap retainer or through chambering.</p> <p>At high peripheral speeds of over 20 m/s the sealing lip clears the counterrotation surface. Then the V-ring acts as a centrifugal ring.</p>

Type designation		Ø d <sub>1</sub>	Profil- höhe <b>b</b>	Profilbreite vor Einbau / nach Einbau			Diameter max. min.	
	<b>d min. - max.</b>			<b>H<sub>1</sub></b>	<b>H</b>	<b>L</b>	Ø d <sub>2</sub>	Ø d <sub>3</sub>
VL - 140	135 - 145	126	6,5	6,0	10,5	8,0+/-1,5	d+5	d+20
VL - 150	145 - 155	135	6,5	6,0	10,5	8,0+/-1,5	d+5	d+20
VL - 160	155 - 165	144	6,5	6,0	10,5	8,0+/-1,5	d+5	d+20
VL - 170	165 - 175	153	6,5	6,0	10,5	8,0+/-1,5	d+5	d+20
VL - 180	175 - 185	162	6,5	6,0	10,5	8,0+/-1,5	d+5	d+20
VL - 190	185 - 195	171	6,5	6,0	10,5	8,0+/-1,5	d+5	d+20
VL - 200	195 - 210	182	6,5	6,0	10,5	8,0+/-1,5	d+5	d+20
VL - 220	210 - 233	198	6,5	6,0	10,5	8,0+/-1,5	d+5	d+20
VL - 250	233 - 260	225	6,5	6,0	10,5	8,0+/-1,5	d+5	d+20
VL - 275	260 - 285	247	6,5	6,0	10,5	8,0+/-1,5	d+5	d+20
VL - 300	285 - 310	270	6,5	6,0	10,5	8,0+/-1,5	d+5	d+20
VL - 325	310 - 335	292	6,5	6,0	10,5	8,0+/-1,5	d+5	d+20
VL - 350	335 - 365	315	6,5	6,0	10,5	8,0+/-1,5	d+5	d+20
VL - 375	365 - 385	337	6,5	6,0	10,5	8,0+/-1,5	d+5	d+20
VL - 400	385 - 410	360	6,5	6,0	10,5	8,0+/-1,5	d+5	d+20
VL - 425	410 - 440	382	6,5	6,0	10,5	8,0+/-1,5	d+5	d+20
VL - 405	440 - 475	405	6,5	6,0	10,5	8,0+/-1,5	d+5	d+20

Further dimension and in-between sizes upon request.

V-Ring Type	Dimension	Material
<b>Ordering example: V-Ring 140 for shaft</b>	<b>Ø 135 - 145</b>	<b>NBR</b>
<b>Order designation: VL -</b>	<b>140</b>	<b>- N</b>

**Designation of material:**  
**N** - NBR  
**V** - FKM (Viton®)