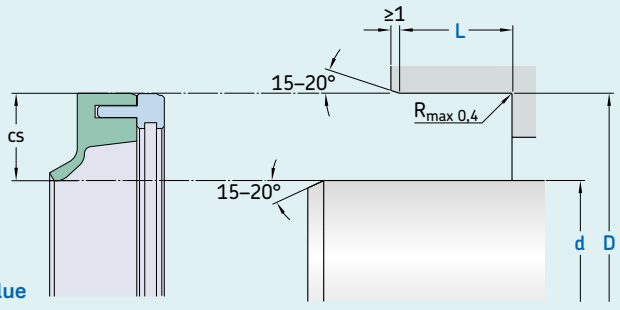
R11-VL



Ordering dimensions in **blue**

Surface roughness	R_{tmax}	R_a
	µm	
Sliding surface	≤ 2.0	0.05–0.2
Bottom of groove	≤ 6.3	≤ 1.6
Groove face	≤ 15	≤ 3

Hardness: Min 45 HRC (55 HRC recommended), hardened depth > 0,3 mm. Bearing area: 50–95% and a cutting depth of 0,5 Rz based on Cref = 0%

Standard dimensions [1]

d h11 over	*D H8 incl.*	*L*	*cs*	*Designation*	*ABAS* [2] *order no:*
mm					
10	**22**	*7*	*6,0*	*R11 VL - 10x22x7-M*	*2100315*
12	**22**	*7*	*5,0*	*R11 VL - 12x22x7-M*	*763148*
12	**28**	*7*	*8,0*	*R11 VL - 12x28x7-M*	*761914*
15	**30**	*7*	*7,5*	*R11 VL - 15x30x7-M*	*2100316*
15	**35**	*7*	*10,0*	*R11 VL - 15x35x7-M*	*2100317*
17	**35**	*7*	*9,0*	*R11 VL - 17x35x7-M*	*2100318*
18	**30**	*7*	*6,0*	*R11 VL - 18x30x7-M*	*2100319*
20	**30**	*7*	*5,0*	*R11 VL - 20x30x7-M*	*2100320*
20	**32**	*7*	*6,0*	*R11 VL - 20x32x7-M*	*2100321*
20	**35**	*7*	*7,5*	*R11 VL - 20x35x7-M*	*2100322*
20	**40**	*7*	*10,0*	*R11 VL - 20x40x7-M*	*2100323*
22	**40**	*7*	*9,0*	*R11 VL - 22x40x7-M*	*2100324*
25	**40**	*7*	*7,5*	*R11 VL - 25x40x7-M*	*2100325*
25	**42**	*7*	*8,5*	*R11 VL - 25x42x7-M*	*2100326*
28	**40**	*7*	*6,0*	*R11 VL - 28x40x7-M*	*2100327*
28	**47**	*7*	*9,5*	*R11 VL - 28x47x7-M*	*2100328*
30	**40**	*7*	*5,0*	*R11 VL - 30x40x7-M*	*2100329*
30	**42**	*7*	*6,0*	*R11 VL - 30x42x7-M*	*2100330*
30	**47**	*7*	*8,5*	*R11 VL - 30x47x7-M*	*2100333*
30	**52**	*7*	*11,0*	*R11 VL - 30x52x7-M*	*2100334*
32	**47**	*7*	*7,5*	*R11 VL - 32x47x7-M*	*2100335*
35	**47**	*7*	*6,0*	*R11 VL - 35x47x7-M*	*2100336*
40	**52**	*7*	*6,0*	*R11 VL - 40x52x7-M*	*2100337*
42	**62**	*8*	*10,0*	*R11 VL - 42x62x8-M*	*2100338*
45	**62**	*8*	*8,5*	*R11 VL - 45x62x8-M*	*758166*
45	**65**	*8*	*10,0*	*R11 VL - 45x65x8-M*	*2100339*

Standard dimensions [1]

d h11 over	*D H8 incl.*	*L*	*cs*	*Designation*	*ABAS* [2] *order no:*
mm					
50	**68**	*8*	*9,0*	*R11 VL - 50x68x8-M*	*2100340*
50	**72**	*8*	*11,0*	*R11 VL - 50x72x8-M*	*2100341*
55	**70**	*8*	*7,5*	*R11 VL - 55x70x8-M*	*2100342*
55	**80**	*8*	*12,5*	*R11 VL - 55x80x8-M*	*2100343*
60	**75**	*8*	*7,5*	*R11 VL - 60x75x8-M*	*2100344*
60	**80**	*8*	*10,0*	*R11 VL - 60x80x8-M*	*2100345*
60	**85**	*8*	*12,5*	*R11 VL - 60x85x8-M*	*2100346*
65	**85**	*10*	*10,0*	*R11 VL - 65x85x10-M*	*2100347*
65	**90**	*10*	*12,5*	*R11 VL - 65x90x10-M*	*2100348*
70	**90**	*10*	*10,0*	*R11 VL - 70x90x10-M*	*2100349*
70	**100**	*10*	*15,0*	*R11 VL - 70x100x10-M*	*2100350*
75	**95**	*10*	*10,0*	*R11 VL - 75x95x10-M*	*2100351*
75	**100**	*10*	*12,5*	*R11 VL - 75x100x10-M*	*2100352*
80	**100**	*10*	*10,0*	*R11 VL - 80x100x10-M*	*2100353*
80	**110**	*10*	*15,0*	*R11 VL - 80x110x10-M*	*2100354*
85	**100**	*12*	*7,5*	*R11 VL - 85x100x12-M*	*2100355*
90	**120**	*12*	*15,0*	*R11 VL - 90x120x12-M*	*2100356*
95	**120**	*12*	*12,5*	*R11 VL - 95x120x12-M*	*2100357*
100	**120**	*12*	*10,0*	*R11 VL - 100x120x12-M*	*2100358*
100	**130**	*12*	*15,0*	*R11 VL - 100x130x12-M*	*2100359*
110	**130**	*12*	*10,0*	*R11 VL - 110x130x12-M*	*2100360*
125	**150**	*12*	*12,5*	*R11 VL - 125x150x12-M*	*2100361*

[1] Due to our flexible manufacturing process we are able to produce other dimension on request.
[2] Order numbers refer to the material combination WSE-PTFE-5858 and 1.4571.

R11-VL

Operating parameters

Material		Approvals					Temperature[1]		Speed[2]	Pressure[3]
Seal	Clamping ring	FDA 21 §177.15 50	EG1935 2004	EG2023 2006	EU10 2011	USP Class VI	from	to	max	max
							°C		m/s	bar (MPa)
WSE PTFE 5858	1.4571	Yes	Yes	Yes	Yes	-	–50	+200	20	5 (0,5)
WSE PTFE 9594	1.4571	Yes	Yes	Yes	Yes	Yes	–50	+200	20	5 (0,5)
WSE PTFE 8914	1.4305	-	-	-	-	-	–50	+200	20	5 (0,5)

IMPORTANT NOTE: The stated operating conditions represent general indications. It is recommended not to use all maximum values simultaneously. More combinations of material are possible on request.

[1] Application temperature

[2] Surface speed limit values are valid only in the presence of a lubrication film.

[3] The R11-VL is primarily designed for unpressurised applications. The specific values for pressure, speed and temperature are maximum values. Special versions are available for the combination of these parameters.

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