



MPV profile

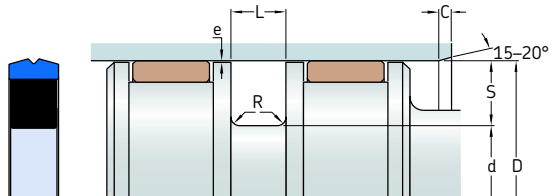
MPV profile data



Material codes	Slide ring: X-ECOPUR PS Energizer: N80/198 For additional information → page 26
Pressure	Up to 400 bar (5 800 psi)
Speed	Up to 1 m/s (3.2 ft/s)
Temperature range	-60 -50 -40 110 120 130 [°C] -75 -60 -40 230 250 265 [°F] For temperature limits depending on fluid compatibility → table 8, page 32 ■ Extreme low temperature range: may be intermittently exposed (e.g. cold start-up) without seal damage, but seal performance may be compromised while in this range ■ Temperatures below the recommended operating range: seal performance depends on system design (precision guiding arrangement recommended) ■ Recommended operating temperature range for this profile and material ■ Temperatures above the recommended operating range: acceptable only with reduced pressure, speed, and/or e-gap ■ Extreme high temperature range: only occasional short-term exposure (e.g. cylinder in curing oven of a powder coating process)
Dimension standards	Some sizes fit seal housings in accordance with ISO 7425-1.
Counter-surface	→ page 22

Maximum values of application parameters (e.g. pressure, speed, temperature, e-gap) should not be applied continuously nor simultaneously.

MPV profile piston seals, metric sizes
D 50 – 200 mm



Maximum extrusion gap e

Radial depth S	e _{max} at 80 °C (175 °F) for pressures		
	160 bar	250 bar	400 bar
mm	mm		
3,75	0,4	0,4	–
5,5	0,5	0,4	0,3
7,75	0,6	0,45	0,3
10,5	0,7	0,55	0,4

For additional information → [page 34](#)

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Dimensions						Designation
D H9	d h9	L +0,2	S	R max.	C min.	
mm						
50	34,5	6,3	7,75	1,3	5	• MPV-50x34.5x6.3
55	39,5	6,3	7,75	1,3	5	MPV-55x39.5x6.3
60	44,5	6,3	7,75	1,3	5	MPV-60x44.5x6.3
63	47,5	6,3	7,75	1,3	5	• MPV-63x47.5x6.3
65	49,5	6,3	7,75	1,3	5	MPV-65x49.5x6.3
70	54,5 59	6,3 4,2	7,75 5,5	1,3 1,3	5 5	MPV-70x54.5x6.3 MPV-70x59x4.2
75	59,5	6,3	7,75	1,3	5	MPV-75x59.5x6.3
80	59 64,5	8,1 6,3	10,5 7,75	1,8 1,8	6 6	MPV-80x59x8.1 • MPV-80x64.5x6.3
85	64	8,1	10,5	1,8	6	MPV-85x64x8.1
90	69	8,1	10,5	1,8	6	MPV-90x69x8.1
100	79	8,1	10,5	1,8	6	MPV-100x79x8.1
110	89	8,1	10,5	1,8	6	MPV-110x89x8.1
120	99	8,1	10,5	1,8	6	MPV-120x99x8.1
125	104	8,1	10,5	1,8	6	MPV-125x104x8.1
130	109	8,1	10,5	1,8	6	MPV-130x109x8.1
150	129	8,1	10,5	1,8	6	MPV-150x129x8.1
160	139	8,1	10,5	1,8	6	• MPV-160x139x8.1
180	159	8,1	10,5	1,8	6	MPV-180x159x8.1
200	179	8,1	10,5	1,8	6	• MPV-200x179x8.1

Other sizes are available on request

• Seal housing dimensions in accordance with ISO 7425-1

SKF