



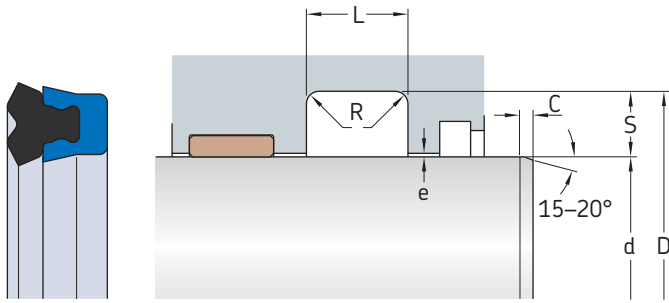
DZ profile data



Material codes	Primary sealing ring: A-8504 Secondary sealing ring: U-1003
Pressure	Up to 400 bar (5 800 psi)
Speed	Up to 1 m/s (3.2 ft/s)
Temperature range	<div style="display: flex; align-items: center;"> <div style="margin-right: 10px;">-60</div> <div style="margin-right: 10px;">-50</div> <div style="margin-right: 10px;">100</div> <div style="margin-right: 10px;">110</div> <div style="margin-right: 10px;">120 [°C]</div> </div> <div style="margin-top: 10px;"> <p>■ Extreme low temperature range: seal performance depends on system design (precision guiding arrangement recommended)</p> <p>■ Recommended operating temperature range for this profile and material</p> <p>■ Temperatures above the recommended operating range: acceptable only with reduced pressure, speed, and/or e-gap</p> <p>■ Extreme high temperature range: only occasional short-term exposure (e.g. cylinder in curing oven of a powder coating process)</p> </div>

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

DZ profile rod seals, metric sizes
d 25 – 105 mm



Maximum extrusion gap e

Radial depth S	e_{max} at 60 °C (140 °F) for pressures		
	160 bar	250 bar	400 bar
mm	mm		
4	0,35	0,2	–
5	0,45	0,25	0,1
7,5	0,5	0,3	0,15

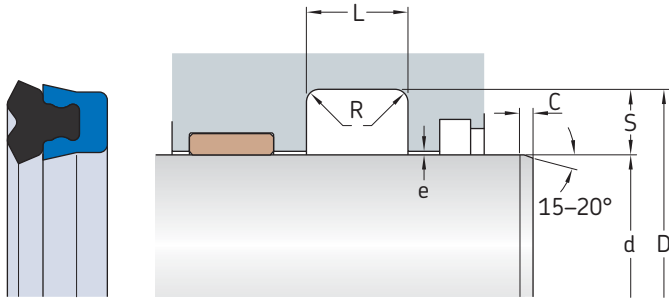
Dimensions

Designation

d f8 or h9	D H10	L +0,2	S	R max.	C min.	
mm						–
25	33	7,2	4	0,2	6	DZ-25x33x7.2-E2F
30	40	9,9	5	0,2	6	DZ-30x40x9.9-E2F
35	45	9,9	5	0,2	6	DZ-35x45x9.9-E2F
40	50	8	5	0,2	6	DZ-40x50x8-E2F
	50	9,9	5	0,2	6	DZ-40x50x9.9-E2F
45	55	9,9	5	0,2	6	DZ-45x55x9.9-E2F
50	60	9,9	5	0,2	6	DZ-50x60x9.9-E2F
55	65	9,9	5	0,2	6	DZ-55x65x9.9-E2F
60	70	9,9	5	0,2	6	DZ-60x70x9.9-E2F
65	75	9,9	5	0,2	6	DZ-65x75x9.9-E2F
70	80	9,9	5	0,2	6	DZ-70x80x9.9-E2F
75	85	9,9	5	0,2	6	DZ-75x85x9.9-E2F
80	90	9,9	5	0,2	6	DZ-80x90x9.9-E2F
85	100	13,8	7,5	0,5	8,5	DZ-85x100x13.8-E2F
90	105	13,2	7,5	0,5	8,5	DZ-90x105x13.2-E2F
100	115	13,2	7,5	0,5	8,5	DZ-100x115x13.2-E2F
105	120	13,2	7,5	0,5	8,5	DZ-105x120x13.2-E2F

Other sizes are available on request

DZ profile rod seals, inch sizes
d 0.187 – 3.25 in.



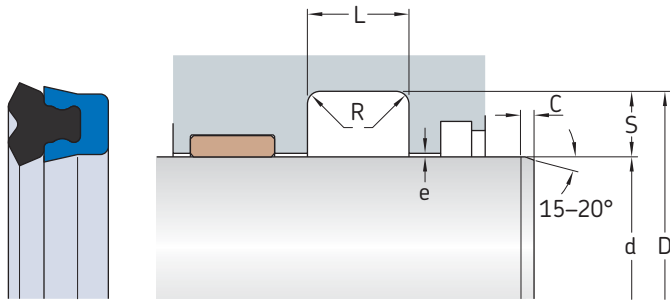
Maximum extrusion gap e

Radial depth S	e _{max} at 60 °C (140 °F) for pressures		
	2 300 psi	3 600 psi	5 800 psi
in.	in.		
0.125	0.008	0.004	–
0.156 to 0.187	0.014	0.008	–
0.25	0.018	0.01	0.004
0.312 to 0.375	0.02	0.012	0.006
0.5	0.024	0.012	0.008

Dimensions								Designation
d	Tolerance	D	Tolerance	L +0.01	S	R max.	C min.	
in.								–
0.187	–0.001	0.437	+0.002	0.213	0.125	0.015	0.25	DZ125-187-187-E2F
	–0.001	0.437	+0.002	0.275	0.125	0.015	0.25	DZ125-187-250-E2F
0.375	–0.002	0.875	+0.003	0.413	0.25	0.02	0.312	DZ250-375-375-E2F
0.5	–0.001	0.75	+0.002	0.275	0.125	0.015	0.25	DZ125-500-250-E2F
	–0.002	0.875	+0.002	0.343	0.187	0.015	0.25	DZ187-500-312-E2F
0.625	–0.001	0.937	+0.002	0.275	0.156	0.015	0.25	DZ156-625-250-E2F
0.75	–0.001	1	+0.002	0.213	0.125	0.015	0.25	DZ125-750-187-E2F
	–0.001	1	+0.002	0.275	0.125	0.015	0.25	DZ125-750-250-E2F
	–0.002	1.125	+0.002	0.343	0.187	0.015	0.25	DZ187-750-312-E2F
0.875	–0.001	1.125	+0.002	0.275	0.125	0.015	0.25	DZ125-875-250-E2F
1	–0.001	1.25	+0.002	0.275	0.125	0.015	0.25	DZ125-1000-250-E2F
	–0.002	1.375	+0.002	0.343	0.187	0.015	0.25	DZ187-1000-312-E2F
1.125	–0.001	1.375	+0.002	0.275	0.125	0.015	0.25	DZ125-1125-250-E2F
	–0.002	1.5	+0.002	0.343	0.187	0.015	0.25	DZ187-1125-312-E2F
	–0.002	1.625	+0.003	0.413	0.25	0.02	0.312	DZ250-1125-375-E2F
1.187	–0.002	1.562	+0.002	0.343	0.187	0.015	0.25	DZ187-1187-312-E2F
1.25	–0.001	1.5	+0.002	0.275	0.125	0.015	0.25	DZ125-1250-250-E2F
	–0.002	1.625	+0.002	0.343	0.187	0.015	0.25	DZ187-1250-312-E2F
	–0.002	1.75	+0.003	0.413	0.25	0.02	0.312	DZ250-1250-375-E2F
	–0.002	1.75	+0.003	0.618	0.25	0.02	0.312	DZ250-1250-562-E2F
	–0.002	2	+0.005	0.688	0.375	0.03	0.5	DZ375-1250-625-E2F
1.375	–0.001	1.625	+0.002	0.343	0.125	0.015	0.25	DZ125-1375-312-E2F
	–0.002	1.75	+0.002	0.343	0.187	0.015	0.25	DZ187-1375-312-E2F
	–0.002	1.875	+0.003	0.413	0.25	0.02	0.312	DZ250-1375-375-E2F

Dimensions								Designation
d	Tolerance	D	Tolerance	L +0.01	S	R max.	C min.	
in.								-
1.5	-0.001	1.75	+0.002	0.275	0.125	0.015	0.25	DZ125-1500-250-E2F
	-0.001	1.812	+0.002	0.343	0.156	0.015	0.25	DZ156-1500-312-E2F
	-0.002	1.875	+0.002	0.343	0.187	0.015	0.25	DZ187-1500-312-E2F
	-0.002	1.875	+0.002	0.413	0.187	0.015	0.25	DZ187-1500-375-E2F
	-0.002	2	+0.003	0.413	0.25	0.02	0.312	DZ250-1500-375-E2F
	-0.002	2	+0.003	0.618	0.25	0.02	0.312	DZ250-1500-562-E2F
1.625	-0.002	2	+0.002	0.343	0.187	0.015	0.25	DZ187-1625-312-E2F
	-0.002	2	+0.002	0.413	0.187	0.015	0.25	DZ187-1625-375-E2F
	-0.002	2.125	+0.003	0.413	0.25	0.02	0.312	DZ250-1625-375-E2F
1.75	-0.001	2	+0.002	0.275	0.125	0.015	0.25	DZ125-1750-250-E2F
	-0.002	2.125	+0.002	0.343	0.187	0.015	0.25	DZ187-1750-312-E2F
	-0.002	2.125	+0.002	0.413	0.187	0.015	0.25	DZ187-1750-375-E2F
	-0.002	2.25	+0.003	0.413	0.25	0.02	0.312	DZ250-1750-375-E2F
	-0.002	2.5	+0.005	0.413	0.375	0.03	0.5	DZ375-1750-375-E2F
	-0.002	2.5	+0.005	0.825	0.375	0.03	0.5	DZ375-1750-750-E2F
1.875	-0.002	2.25	+0.002	0.343	0.187	0.015	0.25	DZ187-1875-312-E2F
2	-0.002	2.375	+0.002	0.343	0.187	0.015	0.25	DZ187-2000-312-E2F
	-0.002	2.375	+0.002	0.413	0.187	0.015	0.25	DZ187-2000-375-E2F
	-0.002	2.5	+0.003	0.413	0.25	0.02	0.312	DZ250-2000-375-E2F
	-0.002	2.5	+0.003	0.618	0.25	0.02	0.312	DZ250-2000-562-E2F
2.25	-0.002	2.625	+0.002	0.343	0.187	0.015	0.25	DZ187-2250-312-E2F
	-0.002	2.625	+0.002	0.413	0.187	0.015	0.25	DZ187-2250-375-E2F
	-0.002	2.75	+0.003	0.413	0.25	0.02	0.312	DZ250-2250-375-E2F
2.375	-0.002	2.75	+0.002	0.343	0.187	0.015	0.25	DZ187-2375-312-E2F
	-0.002	2.875	+0.003	0.413	0.25	0.02	0.312	DZ250-2375-375-E2F
2.5	-0.002	2.875	+0.002	0.343	0.187	0.015	0.25	DZ187-2500-312-E2F
	-0.002	2.875	+0.002	0.413	0.187	0.015	0.25	DZ187-2500-375-E2F
	-0.002	3	+0.003	0.413	0.25	0.02	0.312	DZ250-2500-375-E2F
	-0.002	3.125	+0.004	0.55	0.312	0.02	0.312	DZ312-2500-500-E2F
	-0.002	3.25	+0.005	0.688	0.375	0.03	0.5	DZ375-2500-625-E2F
2.625	-0.002	3.125	+0.003	0.413	0.25	0.02	0.312	DZ250-2625-375-E2F
2.75	-0.002	3.125	+0.002	0.343	0.187	0.015	0.25	DZ187-2750-312-E2F
	-0.002	3.25	+0.003	0.413	0.25	0.02	0.312	DZ250-2750-375-E2F
	-0.002	3.5	+0.005	0.688	0.375	0.03	0.5	DZ375-2750-625-E2F
2.875	-0.002	3.375	+0.003	0.413	0.25	0.02	0.312	DZ250-2875-375-E2F
3	-0.002	3.375	+0.002	0.343	0.187	0.015	0.25	DZ187-3000-312-E2F
	-0.002	3.375	+0.002	0.413	0.187	0.015	0.25	DZ187-3000-375-E2F
	-0.002	3.5	+0.003	0.413	0.25	0.02	0.312	DZ250-3000-375-E2F
	-0.002	3.5	+0.003	0.618	0.25	0.02	0.312	DZ250-3000-562-E2F
	-0.002	3.625	+0.004	0.55	0.312	0.02	0.312	DZ312-3000-500-E2F
	-0.002	3.75	+0.005	0.688	0.375	0.03	0.5	DZ375-3000-625-E2F
	-0.002	3.75	+0.005	0.965	0.375	0.03	0.5	DZ375-3000-875-E2F
	-0.002	3.625	+0.003	0.413	0.25	0.02	0.312	DZ250-3125-375-E2F
3.187	-0.002	3.562	+0.002	0.413	0.187	0.015	0.25	DZ187-3187-375-E2F
3.25	-0.002	3.625	+0.002	0.343	0.187	0.015	0.25	DZ187-3250-312-E2F
	-0.002	3.75	+0.003	0.413	0.25	0.02	0.312	DZ250-3250-375-E2F
	-0.002	3.875	+0.004	0.55	0.312	0.02	0.312	DZ312-3250-500-E2F
	-0.002	4	+0.005	0.688	0.375	0.03	0.5	DZ375-3250-625-E2F

DZ profile rod seals, inch sizes
d 3.375 – 12 in.



Maximum extrusion gap e

Radial depth S	e _{max} at 60 °C (140 °F) for pressures		
	2 300 psi	3 600 psi	5 800 psi
in.	in.		
0.125	0.008	0.004	–
0.156 to 0.187	0.014	0.008	–
0.25	0.018	0.01	0.004
0.312 to 0.375	0.02	0.012	0.006
0.5	0.024	0.012	0.008

Dimensions

Designation

d	Tolerance	D	Tolerance	L +0.01	S	R max.	C min.	Designation
in.								–
3.375	-0.002	3.875	+0.003	0.413	0.25	0.02	0.312	DZ250-3375-375-E2F
	-0.002	4	+0.004	0.55	0.312	0.02	0.312	DZ312-3375-500-E2F
3.5	-0.002	4	+0.003	0.413	0.25	0.02	0.312	DZ250-3500-375-E2F
	-0.002	4.125	+0.004	0.55	0.312	0.02	0.312	DZ312-3500-500-E2F
	-0.002	4.25	+0.005	0.688	0.375	0.03	0.5	DZ375-3500-625-E2F
	-0.003	4.5	+0.007	0.825	0.5	0.03	0.625	DZ500-3500-750-E2F
3.625	-0.002	4.375	+0.005	0.688	0.375	0.03	0.5	DZ375-3625-625-E2F
	-0.002	4.375	+0.005	0.965	0.375	0.03	0.5	DZ375-3625-875-E2F
3.75	-0.002	4.25	+0.003	0.413	0.25	0.02	0.312	DZ250-3750-375-E2F
	-0.002	4.25	+0.003	0.618	0.25	0.02	0.312	DZ250-3750-562-E2F
	-0.002	4.375	+0.004	0.413	0.312	0.02	0.312	DZ312-3750-375-E2F
	-0.002	4.375	+0.004	0.55	0.312	0.02	0.312	DZ312-3750-500-E2F
	-0.002	4.5	+0.005	0.688	0.375	0.03	0.5	DZ375-3750-625-E2F
3.875	-0.002	4.375	+0.003	0.413	0.25	0.02	0.312	DZ250-3875-375-E2F
4	-0.002	4.375	+0.002	0.413	0.187	0.015	0.25	DZ187-4000-375-E2F
	-0.002	4.5	+0.003	0.413	0.25	0.02	0.312	DZ250-4000-375-E2F
	-0.002	4.5	+0.003	0.618	0.25	0.02	0.312	DZ250-4000-562-E2F
	-0.002	4.75	+0.005	0.688	0.375	0.03	0.5	DZ375-4000-625-E2F
	-0.002	4.75	+0.005	0.825	0.375	0.03	0.5	DZ375-4000-750-E2F
	-0.003	5	+0.007	0.825	0.5	0.03	0.625	DZ500-4000-750-E2F
4.25	-0.002	4.75	+0.003	0.413	0.25	0.02	0.312	DZ250-4250-375-E2F
	-0.002	4.875	+0.004	0.618	0.312	0.02	0.312	DZ312-4250-562-E2F
	-0.002	5	+0.005	0.688	0.375	0.03	0.5	DZ375-4250-625-E2F
4.5	-0.002	5	+0.003	0.413	0.25	0.02	0.312	DZ250-4500-375-E2F
	-0.002	5	+0.003	0.618	0.25	0.02	0.312	DZ250-4500-562-E2F
	-0.002	5.25	+0.005	0.688	0.375	0.03	0.5	DZ375-4500-625-E2F
	-0.002	5.25	+0.005	0.825	0.375	0.03	0.5	DZ375-4500-750-E2F
4.625	-0.002	5.125	+0.003	0.618	0.25	0.02	0.312	DZ250-4625-562-E2F
4.75	-0.002	5.125	+0.002	0.413	0.187	0.015	0.25	DZ187-4750-375-E2F
	-0.002	5.25	+0.003	0.618	0.25	0.02	0.312	DZ250-4750-562-E2F
	-0.002	5.5	+0.005	0.688	0.375	0.03	0.5	DZ375-4750-625-E2F

Dimensions								Designation
d	Tolerance	D	Tolerance	L +0.01	S	R max.	C min.	
in.								
5	-0.002	5.5	+0.003	0.413	0.25	0.02	0.312	DZ250-5000-375-E2F
	-0.002	5.5	+0.003	0.618	0.25	0.02	0.312	DZ250-5000-562-E2F
	-0.002	5.75	+0.005	0.688	0.375	0.03	0.5	DZ375-5000-625-E2F
5.25	-0.002	5.75	+0.003	0.618	0.25	0.02	0.312	DZ250-5250-562-E2F
5.375	-0.002	5.875	+0.003	0.413	0.25	0.02	0.312	DZ250-5375-375-E2F
5.5	-0.002	5.875	+0.002	0.413	0.187	0.015	0.25	DZ187-5500-375-E2F
	-0.002	6	+0.003	0.618	0.25	0.02	0.312	DZ250-5500-562-E2F
	-0.002	6.25	+0.005	0.688	0.375	0.03	0.5	DZ375-5500-625-E2F
5.75	-0.002	6.25	+0.003	0.413	0.25	0.02	0.312	DZ250-5750-375-E2F
	-0.002	6.5	+0.005	0.688	0.375	0.03	0.5	DZ375-5750-625-E2F
6	-0.002	6.5	+0.003	0.413	0.25	0.02	0.312	DZ250-6000-375-E2F
	-0.002	6.5	+0.003	0.618	0.25	0.02	0.312	DZ250-6000-562-E2F
	-0.002	6.75	+0.005	0.688	0.375	0.03	0.5	DZ375-6000-625-E2F
	-0.003	7	+0.007	0.825	0.5	0.03	0.625	DZ500-6000-750-E2F
6.375	-0.002	6.875	+0.003	0.55	0.25	0.02	0.312	DZ250-6375-500-E2F
6.5	-0.002	7	+0.003	0.413	0.25	0.02	0.312	DZ250-6500-375-E2F
	-0.002	7	+0.003	0.618	0.25	0.02	0.312	DZ250-6500-562-E2F
	-0.002	7.25	+0.005	0.688	0.375	0.03	0.5	DZ375-6500-625-E2F
6.75	-0.002	7.25	+0.003	0.618	0.25	0.02	0.312	DZ250-6750-562-E2F
7	-0.002	7.5	+0.003	0.413	0.25	0.02	0.312	DZ250-7000-375-E2F
	-0.002	7.75	+0.005	0.688	0.375	0.03	0.5	DZ375-7000-625-E2F
	-0.003	8	+0.007	0.825	0.5	0.03	0.625	DZ500-7000-750-E2F
7.25	-0.002	7.75	+0.003	0.55	0.25	0.02	0.312	DZ250-7250-500-E2F
7.5	-0.002	8.25	+0.005	0.688	0.375	0.03	0.5	DZ375-7500-625-E2F
7.75	-0.002	8.5	+0.005	0.55	0.375	0.03	0.5	DZ375-7750-500-E2F
8	-0.002	8.75	+0.005	0.688	0.375	0.03	0.5	DZ375-8000-625-E2F
	-0.003	9	+0.007	0.825	0.5	0.03	0.625	DZ500-8000-750-E2F
8.125	-0.002	8.625	+0.003	0.413	0.25	0.02	0.312	DZ250-8125-375-E2F
	-0.002	8.625	+0.003	0.55	0.25	0.02	0.312	DZ250-8125-500-E2F
	-0.002	8.625	+0.003	0.618	0.25	0.02	0.312	DZ250-8125-562-E2F
8.25	-0.002	9	+0.005	0.688	0.375	0.03	0.5	DZ375-8250-625-E2F
8.5	-0.003	9.5	+0.007	0.825	0.5	0.03	0.625	DZ500-8500-750-E2F
8.875	-0.002	9.5	+0.004	0.55	0.312	0.02	0.312	DZ312-8875-500-E2F
9	-0.002	9.75	+0.005	0.688	0.375	0.03	0.5	DZ375-9000-625-E2F
	-0.003	10	+0.007	0.825	0.5	0.03	0.625	DZ500-9000-750-E2F
9.25	-0.002	10	+0.005	0.618	0.375	0.03	0.5	DZ375-9250-562-E2F
10.5	-0.002	11.25	+0.005	0.688	0.375	0.03	0.5	DZ375-10500-625-E2F
10.75	-0.002	11.5	+0.005	0.688	0.375	0.03	0.5	DZ375-10750-625-E2F
11	-0.003	12	+0.007	0.825	0.5	0.03	0.625	DZ500-11000-750-E2F
12	-0.003	13	+0.007	0.825	0.5	0.03	0.625	DZ500-12000-750-E2F

Other sizes are available on request



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