

19.A. Gland Design for Quad™-rings

Quad™-rings Gland Design Static/Dynamic (METRIC)

The following table shows the groove dimensions for Quad™-rings.

- If the Quad™-ring swells in the application, the groove width can be enlarged up to 15% max.
- For the Quad™-rings not listed, the groove dimensions are available upon request.

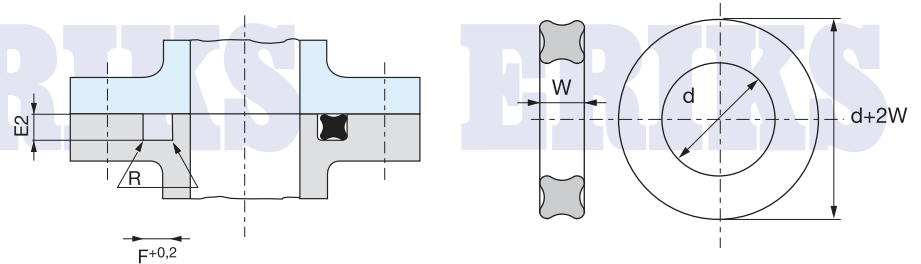
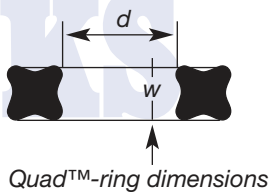
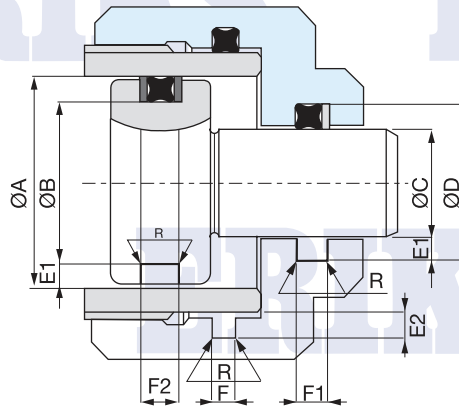


Table AS.8A Gland Dimensions (millimeters)

Quad™-ring Size	Cross section *** W	Depth		Width **			Radius R	Max. Ø Clearance S max.
		Dynamic E1	Static E2	No backup ring F+ 0,2	With Backup ring F1+ 0,2	With Backup ring F2 + 0,2		
4001	1,02 + 0,08	0,8 + 0,025	0,75 + 0,025	1,2	-	-	0,1	0,05
4002	1,27 + 0,08	1,0 + 0,025	0,9 + 0,025	1,4	-	-	0,15	0,05
4003	1,52 + 0,08	1,3 + 0,025	1,2 + 0,025	1,7	-	-	0,25	0,08
4003 1/2	1,02 + 0,08	0,8 + 0,025	0,75 + 0,025	1,2	-	-	0,1	0,05
4004 - 4050	1,78 + 0,08	1,55 + 0,025	1,4 + 0,025	2,0	3,5	5,0	0,25	0,10
4102 - 4178	2,62 + 0,08	2,35 + 0,025	2,25 + 0,025	3,0	4,4	5,8	0,4	0,15
4201 - 4284	3,53 + 0,1	3,25 + 0,025	3,0 + 0,025	4,0	5,4	6,8	0,4	0,15
4309 - 4395	5,33 + 0,13	4,95 + 0,05	4,75 + 0,05	6,0	7,8	9,5	0,6	0,20
4425 - 4475	7,00 + 0,15	6,50 + 0,05	6,2 + 0,05	8,0	10,5	13,0	0,6	0,20

Other dimensions and elastomers are available upon request.

Note:

(**) In case of exceptional bending of the rod or shaft, the diameter of the bottom of the groove can be adjusted both in case of vacuum and high pressure.

(***) Similar to O-rings, the Quad™-rings need a squeeze of 10 to 15%.

For critical applications in combination with small cross sections it is recommended to compare squeeze with the actual dimensions and tolerances.