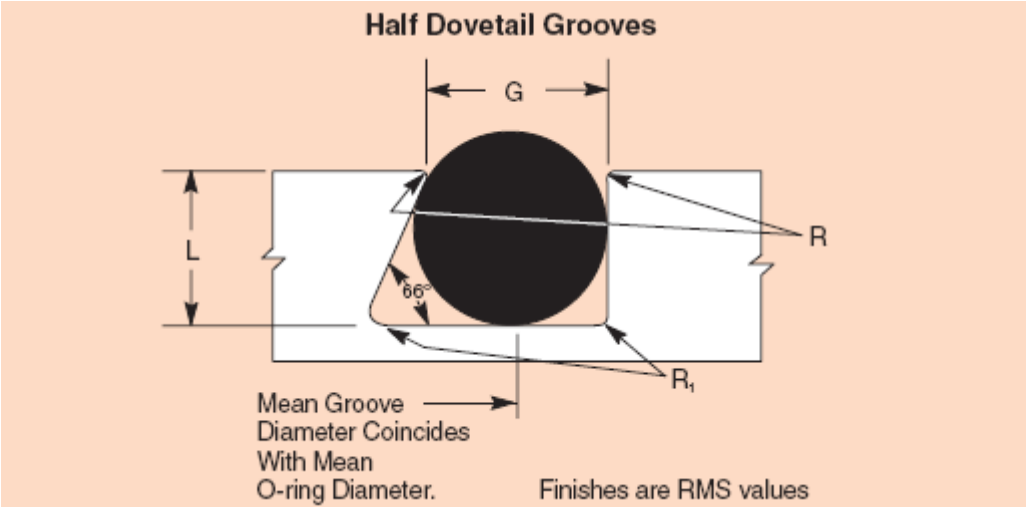
Half Dovetail Grooves



O-Ring Half Dovetail Grooves

Radius "R" is CRITICAL. Insufficient radius will potentially cause damage to the O-ring during installation, while excessive radius may contribute to extrusion.

O-Ring Size AS568A-	W Cross Section Nominal	W Cross Section Actual	L Gland Depth	Squeeze %	G Groove Width (To sharp corner)	R	R_1
004 through 050	1/16	.070 ±.003	.053 to .055	23	.064 to .066	.005	1/64
102 through 178	3/32	.103 ±.003	.083 to .085	19	.095 to .097	.010	1/64
201 through 284	1/8	.139 ±.004	.113 to .115	18	.124 to .128	.010	1/32
309 through 395	3/16	.210 ±.005	.173 to .176	17	.190 to .193	.015	1/32
425 through 475	1/4	.275 ±.006	.234 to .238	15	.255 to .257	.015	1/16
Special	3/8	.375 ±.007	.319 to .323	14	.350 to .358	.020	3/32

NOTE: These design recommendations assume metal-to-metal contact. In special applications, for example in the semiconductor industry, deviation from these recommendations may be necessary. When designing with Parofluor elastomers, one should take into consideration that perfluorinated elastomers may require more squeeze than an FKM material to obtain optimum sealing performance. To increase squeeze, modifications of the design recommendations shown above are necessary.

Design Chart 4-5: Half Dovetail Grooves