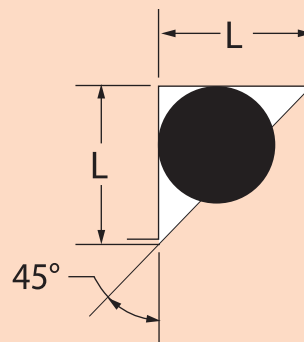


Triangular Grooves

This type of crush seal is used where cost and ease of machining are important. The O-Ring is confined in a triangular recess made by machining a 45 degree angle on the male cover. The OD of the ring should be about the same as the recess diameter. The same sealing principle applies to crush type seals used in recesses of straight thread tubing bosses. Pressures are limited only by clearances and the strength of the mating parts. The O-Rings are permanently deformed.



Static Crush Seal Grooves

Size Number	in	W O-Ring CS Actual			in	L Gland Depth		
		+/-	mm	+/-		⁺ (- 0.000)	mm	⁺ (- 0.000)
004 through 050	0.070	0.003	1.78	0.08	0.092	0.003	2.34	0.08
102 through 178	0.103	0.003	2.62	0.08	0.136	0.005	3.45	0.13
201 through 284	0.139	0.004	3.53	0.10	0.184	0.007	4.67	0.18
309 through 395	0.210	0.005	5.33	0.13	0.277	0.010	7.04	0.25
425 through 475	0.275	0.006	6.99	0.15	0.363	0.015	9.22	0.38
Various Sizes	0.059	0.003	1.50	0.08	0.078	0.003	1.98	0.08
	0.078	0.003	2.00	0.08	0.104	0.003	2.64	0.08
	0.098	0.003	2.50	0.08	0.130	0.005	3.30	0.13
	0.118	0.004	3.00	0.10	0.156	0.005	3.96	0.13
	0.157	0.005	4.00	0.13	0.208	0.007	5.28	0.18
	0.197	0.005	5.00	0.13	0.260	0.010	6.61	0.25
	0.236	0.006	6.00	0.15	0.312	0.010	7.93	0.25
	0.315	0.007	8.00	0.18	0.416	0.015	10.57	0.38
	0.354	0.007	9.00	0.18	0.468	0.015	11.89	0.38

Design Chart 4-6: Static Crush Seal Grooves