Metal O Rings - External Pressure:

OE OVE OSE OGE

Seal dimension					Groove dimensions				Load	SB
AS			MT	DC	DG	GD	WG	R		
Axial section	Tolerance on AS (cross section)	Material code	Material thickness	Diame-trical clearance	Diameter Groove (range)	Groove Depth (min/max)	Width Groove (min)	Radius (max)	N/mm Circum-ference *	Spring Back in mm
0,89	+0,08 / -0,03	M	0,15	0,20	6,35-25	0,64-0,69	1,40	0,25	140	0,03
1,19	+0,08 / -0,03	H	0,20	0,25	10-50	0,94-1,02	1,78	0,30	100	0,03
1,57	+0,08 / -0,03	M	0,25	0,28	12-200	1,14-1,27	2,29	0,38	140	0,05
		H	0,36						200	0,04
2,39	+0,08 / -0,03	M	0,25	0,33	25-200	1,88-2,01	3,18	0,51	100	0,05
		H	0,46						200	0,04
3,18	+0,08 / -0,03	M	0,25	0,43	50-400	2,54-2,67	4,06	0,76	60	0,08
		H	0,51						180	0,05
3,96	+ 0,10	M	0,41	0,61	75-650	3,18-3,30	5,08	1,27	90	0,10
		H	0,51						135	0,08
4,78	+ 0,13	M	0,51	0,71	100-800	3,84-3,99	6,35	1,27	95	0,14
		H	0,64						200	0,10
6,35	+ 0,13	M	0,64	0,76	200-1200	5,05-5,28	8,89	1,52	100	0,20
		H	0,81						250	0,15
9,53	+ 0,13	M	0,97	1,02	300-2000	8,26-8,51	12,7	1,52	150	0,25
		H	1,24						300	0,20
12,7	+ 0,15	M	1,27	1,27	800-3000	11,05-11,43	16,51	1,52	200	0,30
		H	1,65						350	0,20

* Load and springback figures are based on Inconel X750 in the work hardened condition. 321 stainless steel will only generate 1/3 of the given Inconel figures. Actual load figures and to a lesser extend springback can differ hugely from the given data. Tolerances on groove depth, plating, diametrical clearance and differences in material batches can create differences of up to 100% for the smaller cross sections, down to 50% for the bigger cross section.