Commaseal® - Axial Pressure:
COE

Seal dimension						Groove dimensions						Load
AS		RS		MT	DC	SD range	Tol. SD	BD	Tol. BD	GD	R	Rad.
Axial section	Tolerance on AS (cross section)	Radial section	Material code	Material thickness	Diame-trical clearance MIN	Shaft Diameter (range)	+0	SD +	-0	Groove Depth (min/max)	Radius (max)	N/mm Circum-ference *
1,57	±0,03	1,79	M	0,15	0,15	20-150	-0,03	3,88	0,15	1,27-1,37	0,30	60
2,39	±0,05	2,73	M	0,25	0,19	35-200	-0,03	5,84	0,20	1,91-2,01	0,50	70
3,18	±0,08	3,63	M	0,38	0,23	45-200	-0,03	7,72	0,30	2,54-2,67	0,75	100
3,96	±0,08	4,52	M	0,41	0,26	60-200	-0,05	9,56	0,35	3,18-3,30	1,20	105
4,78	±0,10	5,46	M	0,51	0,31	100-200	-0,05	11,54	0,40	3,84-3,99	1,20	130

* Load and springback figures are based on Inconel 718 in the heat treated condition. 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.

Tightness

The tightness with a Commaseal® (COE) is more than with any other metal seal a function of the bore condition. The surface finish of the bore shall be mirror polished and the hardness shall be high enough so that the sliding motion of seal versus the bore does not detoriate either of them.
In addition we advise to silver plate Commaseal® for better tightness, reduced friction and wear.