



OX

O-Ring Teflon PFA + Spring STAINLESS STEEL

For your most severe low temperature and pharma-biotech applications.

Rev.1 6/2016



Material:

The OX seal is made of 301 stainless steel flat wound ribbon spring encapsulated in Teflon PFA tube thickness 0,5mm to form an o-ring.

ASTM TYPE 301

Temperature Range:

Teflon PFA: - 250C to +260C (- 420F to + 500F)



Dimensions:

The following chart provides dimensions of standard product that is readily available. Specials are of course possible if the cost of setting up is acceptable, apply in each instance to our sales office. Also shown is the maximum amount of compression recommended for successful sealing which is lighter than conventional Orings.

CS Ø mm	CS tolerance ±	Compression/mm	Min Inside Ø possible/mm	Max Inside Ø possible/mm
1,78	0,13	0,43	12,70	254,00
1,91	0,13	0,46	12,70	254,00
2,40	0,13	0,56	15,24	381,00
2,62	0,13	0,61	15,24	No upper Limit
2,79	0,13	0,64	15,24	No upper Limit
3,00	0,13	0,64	19,05	No upper Limit
3,18	0,15	0,64	19,05	No upper Limit
3,53	0,15	0,64	19,05	No upper Limit
3,76	0,15	0,69	24,13	No upper Limit
3,99	0,18	0,69	29,21	No upper Limit
4,50	0,18	0,79	38,10	No upper Limit
5,00	0,20	0,89	38,10	No upper Limit
5,33	0,20	0,97	38,10	No upper Limit
5,72	0,20	1,02	38,10	No upper Limit
6,35	0,25	1,09	63,50	No upper Limit
6,99	0,25	1,09	63,50	No upper Limit
7,49	0,25	1,19	69,85	No upper Limit
8,00	0,30	1,27	76,20	No upper Limit
8,40	0,30	1,45	101,60	No upper Limit

Stretching:

The OX-Oring should have a split housing design that does not require the stretch of the part on fitting. A small amount of stretch can be tolerated but never greater than 4% of the seals inside diameter. Standard static groove conditions apply with a minimum surface finish of 20 micro-inches.

Pressure Venting:

For pressures greater than 60 bar we recommend that the jacket of the Spring-Oring is vented. This is a series of small holes through the wall of the encapsulating jacket and prevent any pressure rupture.