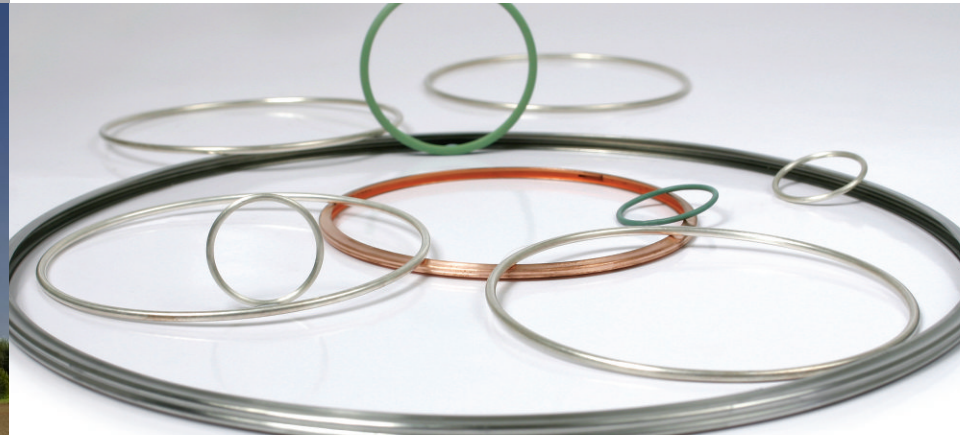




FLUOROCARBON

Metal Sealing Rings



World leading innovations in
fluoropolymer processing



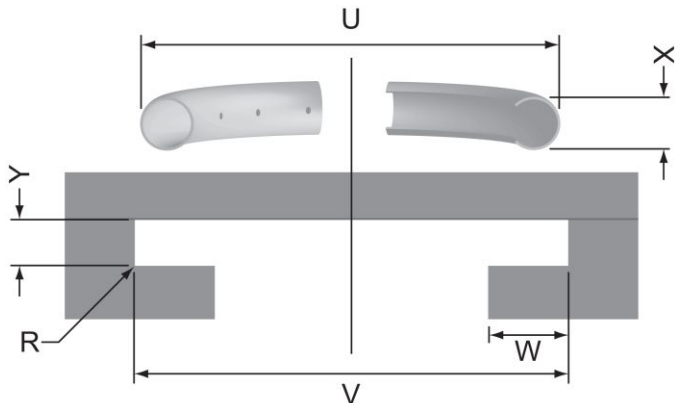
Installation Details

Installation

Metal sealing rings are usually installed between flanges, located in either a groove or counterbore. The groove depth is calculated to ensure correct compression loading of the ring.

Alternatively, the ring can be installed between two flat flanges and located with a support plate. The thickness of the support plate is equal to the groove depth specified.

Internal System Pressure



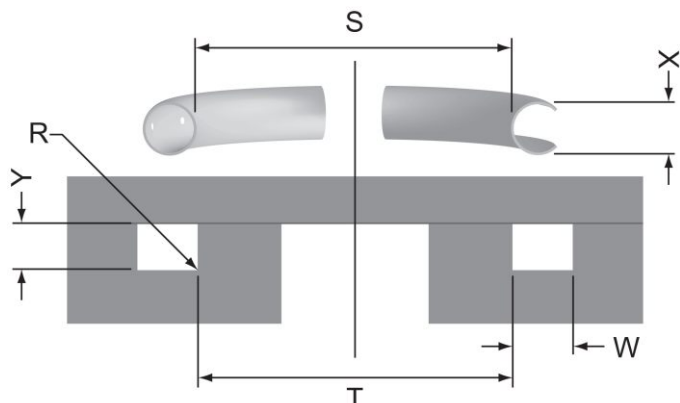
Recommended Surface Finish

0.2 μ m (8 μ in.) RMS for plated rings in high vacuum (10^{-4} ~ 10^{-10} torr.)
 0.4 μ m (16 μ in.) RMS for plated rings in gas, vacuum or low viscosity fluids.
 0.8 μ m (32 μ in.) RMS for plated rings in medium to high viscosity fluids.
 0.4 μ m (16 μ in.) RMS for unplated rings in medium to high viscosity fluids.

All machining marks on sealing surfaces must be concentric.

Tube section 'X'	Ring diameter 'U'	Groove diameter 'V'	O ring groove depth 'Y'	C ring groove depth 'Y'	W min	R max
0.9	6~100	U+0.10/0.15	0.60/0.65	N/A	1.4	0.3
1.6	12~250	U+0.10/0.15	1.05/1.15	1.24/1.30	2.4	0.5
2.4	25~500	U+0.15/0.25	1.65/1.75	1.80/1.96	3.6	0.7
3.2	45~1000	U+0.20/0.30	2.30/2.40	2.46/2.62	4.8	1.0
4.0	70~1500	U+0.20/0.35	2.90/3.05	3.12/3.28	6.0	1.3
4.8	90~2000	U+0.25/0.35	3.70/3.80	3.75/3.91	7.2	1.6
6.4	120~3000	U+0.30/0.50	4.95/5.05	4.98/5.18	9.6	2.1

External System Pressure



Tube section 'X'	Ring diameter 'S'	Groove diameter 'T'	O ring groove depth 'Y'	C ring groove depth 'Y'	W min	R max
0.9	4~100	S-0.10/0.15	0.60/0.65	N/A	1.4	0.3
1.6	8~250	S-0.10/0.15	1.05/1.15	1.24/1.30	2.4	0.5
2.4	20~500	S-0.15/0.25	1.65/1.75	1.80/1.96	3.6	0.7
3.2	40~1000	S-0.20/0.30	2.30/2.40	2.46/2.62	4.8	1.0
4.0	60~1500	S-0.20/0.35	2.90/3.05	3.12/3.28	6.0	1.3
4.8	80~2000	S-0.25/0.35	3.70/3.80	3.75/3.91	7.2	1.6
6.4	100~3000	S-0.30/0.50	4.95/5.05	4.98/5.18	9.6	2.1

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