



Low Outgassing Solutions

CF Flange Catalog 2013



LOS Vacuum provides vacuum technology innovators with the industry's lowest outgassing solutions--ideal for applications in semiconductor, spectroscopy, atomic physics research, particle acceleration, and microscopy. LOS vacuum components are the alternative to the standard. Superior titanium, stainless steel, and aluminum alloy processing allow for quick evacuation of vacuum chambers. Advanced LOS technology makes attaining UHV and XHV levels simple and easy.

LOS flanges are ultrasonically cleaned and packaged with pure dry nitrogen gas for ultimate vacuum performance--right out of the box.



Vacuum's Gold Standard



1.33" Mini CF Product Family

Product Number	Flange OD	Tube Size	Description
133-1-C	1.33"	N/A	Blank fixed, .172" clearance holes
133-2-C	1.33"	.50"	Rotatable weld neck, .172" clearance holes
133-3-C	1.33"	.75"	Rotatable weld neck, .172" clearance holes
133-4-C	1.33"	.50"	Fixed weld neck, .172" clearance holes
133-5-C	1.33"	.75"	Fixed weld neck, .172" clearance holes
133-1-TUS	1.33"	N/A	Blank fixed, threaded 8-32 UNF
133-2-TUS	1.33"	.50"	Rotatable weld neck threaded 8-32 UNF
133-3-TUS	1.33"	.75"	Rotatable weld neck threaded 8-32 UNF
133-4-TUS	1.33"	.50"	Fixed weld neck threaded 8-32 UNF
133-5-TUS	1.33"	.75"	Fixed weld neck threaded 8-32 UNF
133-1-TMM	1.33"	N/A	Blank fixed, threaded M4x.7
133-2-TMM	1.33"	.50"	Rotatable weld neck threaded M4x.7
133-3-TMM	1.33"	.75"	Rotatable weld neck threaded M4x.7
133-4-TMM	1.33"	.50"	Fixed weld neck threaded M4x.7
133-5-TMM	1.33"	.75"	Fixed weld neck threaded M4x.7



2.75" CF Product Family

Product Number	Flange OD	Tube Size	Description
275-1-C	2.75"	N/A	Blank fixed, .265" clearance holes
275-2-C	2.75"	1.25"	Rotatable, .265" clearance holes
275-3-C	2.75"	1.50"	Rotatable, .265" clearance holes
275-4-C	2.75"	1.25"	Fixed, .265" clearance holes
275-5-C	2.75"	1.50"	Fixed, .265" clearance holes
275-1-TUS	2.75"	N/A	Blank fixed, threaded 1/4-28 UNF
275-2-TUS	2.75"	1.25"	Rotatable, threaded 1/4-28 UNF
275-3-TUS	2.75"	1.50"	Rotatable, threaded 1/4-28 UNF
275-4-TUS	2.75"	1.25"	Fixed, threaded 1/4-28 UNF
275-5-TUS	2.75"	1.50"	Fixed, threaded 1/4-28 UNF
275-1-TMM	2.75"	N/A	Blank fixed, threaded M6x1.0
275-2-TMM	2.75"	1.25"	Rotatable, threaded M6x1.0
275-3-TMM	2.75"	1.50"	Rotatable, threaded M6x1.0
275-4-TMM	2.75"	1.25"	Fixed, threaded M6x1.0
275-5-TMM	1.50"	1.50"	Fixed, threaded M6x1.0

All rotatable bolt rings are made from 6061-T6 aluminum standard

For material designation please place the proper designator at the end of the product number.

304 (304 stainless steel)

316 (316 stainless steel)

TiG2 (Grade 2 CP Titanium)



4.5" CF Product Family

Product Number	Flange OD	Tube Size	Description
450-1-C	4.47"	N/A	Blank fixed, .332" clearance holes
450-2-C	4.47"	2.00"	Rotatable, .332" clearance holes
450-3-C	4.47"	2.50"	Rotatable, .332" clearance holes
450-4-C	4.47"	2.00"	Fixed, .332" clearance holes
450-5-C	4.47"	2.50"	Fixed, .332" clearance holes
450-1-TUS	4.47"	N/A	Blank fixed, threaded 5/16-24 UNF
450-2-TUS	4.47"	2.00"	Rotatable, threaded 5/16-24 UNF
450-3-TUS	4.47"	2.50"	Rotatable, threaded 5/16-24 UNF
450-4-TUS	4.47"	2.00"	Fixed, threaded 5/16-24 UNF
450-5-TUS	4.47"	2.50"	Fixed, threaded 5/16-24 UNF
450-1-TMM	4.47"	N/A	Blank fixed, threaded M8x1.25
450-2-TMM	4.47"	2.00"	Rotatable, threaded M8x1.25
450-3-TMM	4.47"	2.50"	Rotatable, threaded M8x1.25
450-4-TMM	4.47"	2.00"	Fixed, threaded M8x1.25
450-5-TMM	4.47"	2.50"	Fixed, threaded M8x1.25



6.0" CF Product Family

Product Number	Flange OD	Tube Size	Description
600-1-C	5.97"	N/A	Blank fixed, .332" clearance holes
600-2-C	5.97"	4.00"	Rotatable, .332" clearance holes
600-3-C	5.97"	4.00"	Fixed, .332" clearance holes
600-1-TUS	5.97"	N/A	Blank fixed, threaded 5/16-24 UNF
600-2-TUS	5.97"	4.00"	Rotatable, threaded 5/16-24 UNF
600-3-TUS	5.97"	4.00"	Fixed, threaded 5/16-24 UNF
600-1-TMM	5.97"	N/A	Blank fixed, threaded M8x1.25
600-2-TMM	5.97"	4.00"	Rotatable, threaded M8x1.25
600-3-TMM	5.97"	4.00"	Fixed, threaded M8x1.25



8.0" CF Product Family

Product Number	Flange OD	Tube Size	Description
800-1-C	7.97"	N/A	Blank fixed, .332" clearance holes
800-2-C	7.97"	6.00"	Rotatable, .332" clearance holes
800-3-C	7.97"	6.00"	Fixed, .332" clearance holes
800-1-TUS	7.97"	N/A	Blank fixed, threaded 5/16-24 UNF
800-2-TUS	7.97"	6.00"	Rotatable, threaded 5/16-24 UNF
800-3-TUS	7.97"	6.00"	Fixed, threaded 5/16-24 UNF
800-1-TMM	7.97"	N/A	Blank fixed, tapped M8x1.25
800-2-TMM	7.97"	6.00"	Rotatable, threaded M8x1.25
800-3-TMM	7.97"	6.00"	Fixed, threaded M8x1.25



10.0" CF Product Family

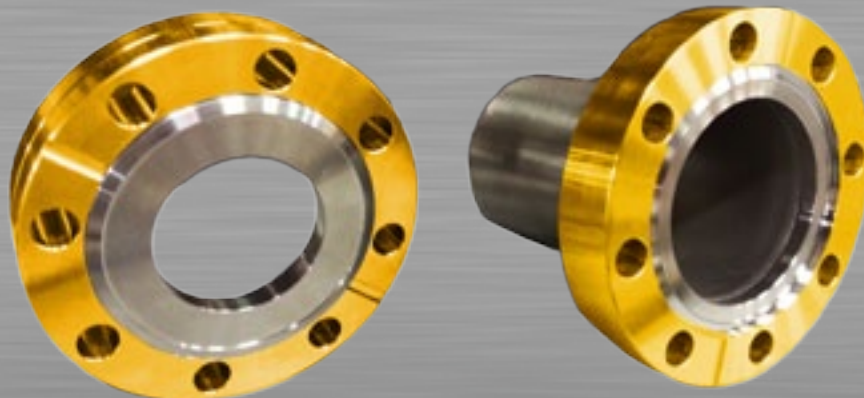
Product Number	Flange OD	Tube Size	Description
1000-1-C	9.97"	N/A	Blank fixed, .332" clearance holes
1000-2-C	9.97"	8.00"	Rotatable, .332" clearance holes
1000-3-C	9.97"	8.00"	Fixed, .332" clearance holes
1000-1-TUS	9.97"	N/A	Blank fixed, threaded 5/16-24 UNF
1000-2-TUS	9.97"	8.00"	Rotatable, threaded 5/16-24 UNF
1000-3-TUS	9.97"	8.00"	Fixed, threaded 5/16-24 UNF
1000-1-TMM	9.97"	N/A	Blank fixed, threaded M8x1.25
1000-2-TMM	9.97"	8.00"	Rotatable, threaded M8x1.25
1000-3-TMM	9.97"	8.00"	Fixed, threaded M8x1.25



12.0" CF Product Family

Product Number	Flange OD	Tube Size	Description
1200-1-C	12.00"	N/A	Blank fixed, .332" clearance holes
1200-2-C	12.00"	10.00"	Rotatable, .332" clearance holes
1200-3-C	12.00"	10.00"	Fixed, .332" clearance holes
1200-1-TUS	12.00"	N/A	Blank fixed, tapped 5/16-24 UNF
1200-2-TUS	12.00"	10.00"	Rotatable, tapped 5/16-24 UNF
1200-3-TUS	12.00"	10.00"	Fixed, tapped 5/16-24 UNF
1200-1-TMM	12.00"	N/A	Blank fixed, tapped M8x1.25
1200-2-TMM	12.00"	10.00"	Rotatable, tapped M8x1.25
1200-3-TMM	12.00"	10.00"	Fixed, tapped M8x1.25

For unlisted items, call us at 1-360-681-0511





www.losvacuum.com