



Technical Data Sheet

LENS RING GASKETS

Lens ring gaskets are characterized by a spherical sealing surface that touch the conical surface of the flange. These gaskets are used in special application with specific values of pression, temperature and changes duringthe time.

Usually, you can find these gaskets on flange connections of high-pressure reactors where there are heavy workingconditions and a perfect sealing is needed. In this case a loss of material could comport high risks both for the workers and the environment.



In certain applications, the specification of a high integrity metallic seal has usually led to the selection of the Lens Ring concept, rather than the more generally recognized ring type joint solution.

The Lens Ring is covered solely by the DIN 2696 specification.

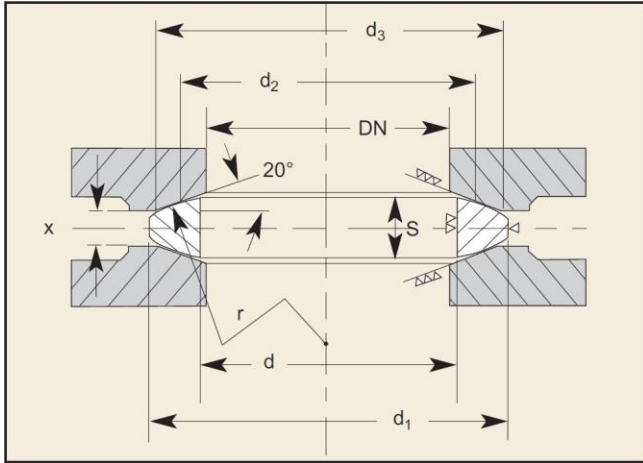
However, ASME B16.5 and other flange types can be modified to

accept the Lens Ring.

The Lens Ring provides a metallic gasket design incorporating spherical seating faces designed to suit specificallymating flange recesses, providing the user with a high integrity, high pressure/temperature metal to metal seal.

As with all metallic gaskets, the Lens Ring material should be specified softer than the flange material, thus ensuring applied compressive load leads to the elastic/plastic deformation of the lens ring and not the flange sealing face. The distribution of high compressive loads leads to the spread of the gasket facings, ensuring overstressing of the gasket is prevented.

In accordance with DIN 2696 general materials are limited to a range of specified carbon steels and stainless-steel grades, although alternative grades are available upon request.



DIMENSIONS IN MILLIMETERS

NPS size DN	d		d ₁	S for d max	d ₂ middle contact diameter	r	d ₃	x
	min	max						
Nominal pressure PN64 - 400								
10	10	14	21	7	17.1	25	18	5.7
15	14	18	28	8.5	22	32	27	6
25	20	29	43	11	34	50	39	6
40	34	43	62	14	48	70	55	8
50	46	55	78	16	60	88	68	9
65	62	70	102	20	76.6	112	85	13
80	72	82	116	22	88.2	129	97	13
100	94	108	143	26	116	170	127	15
125	116	135	180	29	149	218	157	22
150	139	158	210	33	171	250	183	26
Nominal Pressure PN64 and 100								
[175]	176	183	243	31	202.5	296	218	28
200	198	206	276	35	225	329	243	27
250	246	257	332	37	277.7	406	298	25
300	295	305	385	40	323.5	473	345	26
350	330	348	425	41	368	538	394	23
400	385	395	475	42	417.2	610	445	24
Nominal pressure PN160 - 400								
[175]	162	177	243	37	202.5	296	218	21
200	183	200	276	40	225	329	243	25
250	230	246	332	46	277.7	406	298	25
300	278	285	385	50	323.5	473	345	30

Avoid nominal pipe sizes in brackets.

The information listed in this TDS is based on our company's trials and experience. Coestan is not to be held responsible for poor installation or application in media combining complex of factors whose total exceeds the general qualities of the product. Coestan reserves the right to change the details given without notice. Our technical and sales representatives will assist any client in need of a product with a peculiar application.