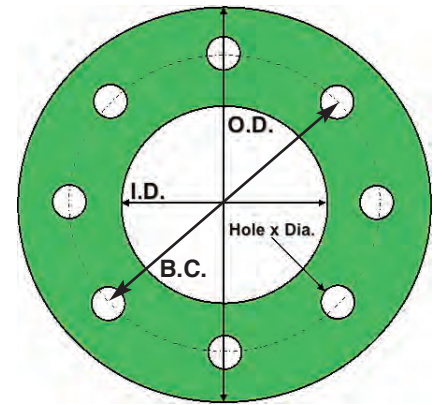


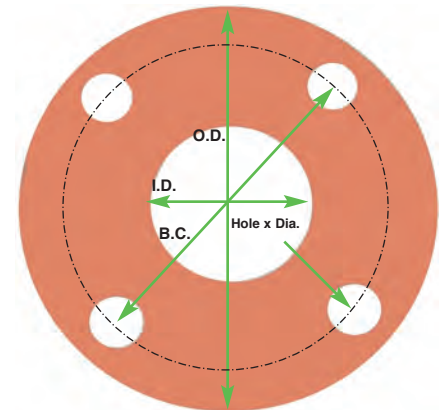


Flange Gaskets 125 / 150 lb Full Face (Series A Dimensions for 24" and up)

Nominal Pipe Size	I.D.	O.D.	Number of Bolt Holes	Diameter of Bolt Holes	Bolt Circle
1/2"	13/16"	3 1/2"	4	5/8"	2 3/8"
3/4"	1 1/16"	3 7/8"	4	5/8"	2 3/4"
1"	1 5/16"	4 1/4"	4	5/8"	3 1/8"
1 1/4"	1 5/8"	4 5/8"	4	5/8"	3 1/2"
1 1/2"	1 7/8"	5"	4	5/8"	3 7/8"
2"	2 3/8"	6"	4	3/4"	4 3/4"
2 1/2"	2 7/8"	7"	4	3/4"	5 1/2"
3"	3 1/2"	7 1/2"	4	3/4"	6"
3 1/2"	4"	8 1/2"	8	3/4"	7"
4"	4 1/2"	9"	8	3/4"	7 1/2"
5"	5 9/16"	10"	8	7/8"	8 1/2"
6"	6 5/8"	11"	8	7/8"	9 1/2"
8"	8 5/8"	13 1/2"	8	7/8"	11 3/4"
10"	10 3/4"	16"	12	1"	14 1/4"
12"	12 3/4"	19"	12	1"	17"
14"	14"	21"	12	1 1/8"	18 3/4"
16"	16"	23 1/2"	16	1 1/8"	21 1/4"
18"	18"	25"	16	1 1/4"	22 3/4"
20"	20"	27 1/2"	20	1 1/4"	25"
22"	22"	29 1/2"	20	1 3/8"	27 1/4"
24"	24"	32"	20	1 3/8"	29 1/2"
26"	26"	34 1/4"	24	1 3/8"	31 3/4"
28"	28"	36 1/2"	28	1 3/8"	34"
30"	30"	38 3/4"	28	1 3/8"	36"
32"	32"	41 3/4"	28	1 5/8"	38 1/2"
34"	34"	43 3/4"	32	1 5/8"	40 1/2"
36"	36"	46"	32	1 5/8"	42 3/4"
38"	38"	48 3/4"	32	1 5/8"	45 1/4"
40"	40"	50 3/4"	36	1 5/8"	47 1/4"
42"	42"	53"	36	1 5/8"	49 1/2"
44"	44"	55 1/4"	40	1 5/8"	51 3/4"
46"	46"	57 1/4"	40	1 5/8"	53 3/4"
48"	48"	59 1/2"	44	1 5/8"	56"
50"	50"	61 3/4"	44	1 7/8"	58 1/4"
52"	52"	64"	44	1 7/8"	60 1/2"
54"	54"	66 1/4"	44	1 7/8"	62 3/4"
60"	60"	73"	52	1 7/8"	69 1/4"
66"	66"	80"	52	1 7/8"	76"
72"	72"	86 1/2"	60	1 7/8"	82 1/2"
84"	84"	99 3/4"	64	2 1/8"	95 1/2"
96"	96"	113 1/4"	68	2 3/8"	108 1/2"



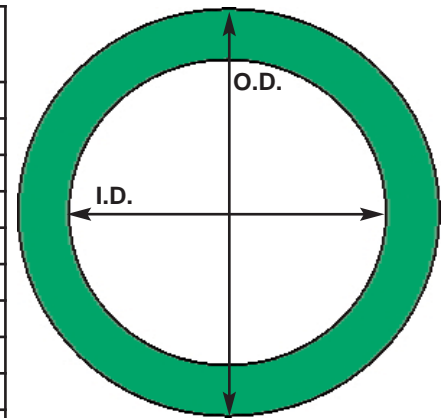
125 / 150 lb Full Face





Flange Gaskets 125 / 150 lb Ring Type

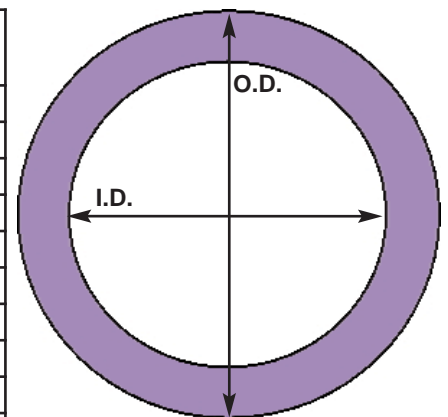
Nominal Pipe Size	I.D.	O.D.	Nominal Pipe Size	I.D.	O.D.
1/2"	27/32"	1 7/8"	22"	22"	26"
3/4"	1 1/16"	2 1/4"	24"	24"	28 1/4"
1"	1 5/16"	2 5/8"	26"	26"	30 1/2"
1 1/4"	1 21/32"	3"	28"	28"	32 3/4"
1 1/2"	1 29/32"	3 3/8"	30"	30"	34 3/4"
2"	2 3/8"	4 1/8"	32"	32"	37"
2 1/2"	2 7/8"	4 7/8"	34"	34"	39"
3"	3 1/2"	5 3/8"	36"	36"	41 1/4"
3 1/2"	4"	6 3/8"	38"	38"	43 5/8"
4"	4 1/2"	6 7/8"	40"	40"	45 5/8"
4 1/2"	5"	7"	42"	42"	48"
5"	5 9/16"	7 3/4"	46"	46"	52 1/8"
6"	6 5/8"	8 3/4"	48"	48"	54 1/2"
7"	7 5/8"	10"	50"	50"	56 1/2"
8"	8 5/8"	11"	52"	52"	58 3/4"
10"	10 3/4"	13 3/8"	54"	54"	61"
12"	12 3/4"	16 1/8"	60"	60"	67 1/2"
14"	14"	17 3/4"	66"	66"	74 1/4"
15"	15"	19"	72"	72"	80 3/4"
16"	16"	20 1/4"	84"	84"	93 1/2"
18"	18"	21 5/8"	96"	96"	106 1/4"
20"	20"	23 7/8"			



125 / 150 lb Ring Type

Flange Gaskets 250 / 300 lb Ring Type

Nominal Pipe Size	I.D.	O.D.	Nominal Pipe Size	I.D.	O.D.
1/2"	27/32"	2 1/8"	8"	8 5/8"	12 1/8"
3/4"	1 1/16"	2 5/8"	10"	10 3/4"	14 1/4"
1"	1 5/16"	2 7/8"	12"	12 3/4"	16 5/8"
1 1/4"	1 21/32"	3 1/4"	14"	14"	19 1/8"
1 1/2"	1 29/32"	3 3/4"	15"	15"	20 1/8"
2"	2 3/8"	4 3/8"	16"	16"	21 1/4"
2 1/2"	2 7/8"	5 1/8"	18"	18"	23 1/2"
3"	3 1/2"	5 7/8"	20"	20"	25 3/4"
3 1/2"	4"	6 1/2"	22"	22"	27 5/8"
4"	4 1/2"	7 1/8"	24"	24"	30 1/2"
4 1/2"	5"	7 5/8"	30"	30"	37 1/2"
5"	5 9/16"	8 1/2"	36"	36"	44"
6"	6 5/8"	9 7/8"	42"	42"	50 3/4"
7"	7 5/8"	10 7/8"	48"	48"	58 3/4"



250 / 300 lb Ring Type

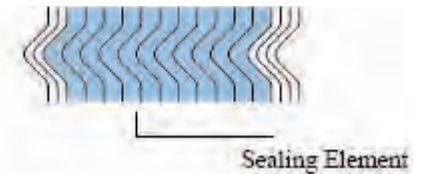


Norwesco Spiral Wound Gaskets (SWG)

- Spiral Wound Gaskets are made with an alternating combination of a preformed engineered metal strip and a more compressible filler material which creates an excellent seal when compressed.
- The engineered shape of the metal strip acts as a spring under load, resulting in a very resilient seal under varying conditions.
- The strip metallurgy and filler material can be selected to seal a wide range of applications.
- All SWG styles have been engineered to precise manufacturing tolerances that allow for lower stress (bolt load) sealing compared to conventional spiral wound gaskets.
- All Norwesco SWGs are manufactured according to ASME B16.20 standards.
- Quality Assurance complies with API Specification Q1 and ISO 9001 standards.
- Trusted Performance of SWGs obtain their initial seal with very low seating stresses and provide a tighter seal than typical low stress spiral wound gaskets and other high temperature alternative gaskets.
- Our advanced manufacturing process allows all SWGs to perform better under low bolt stress applications while maintaining seal integrity under normal spiral wound gasket conditions.

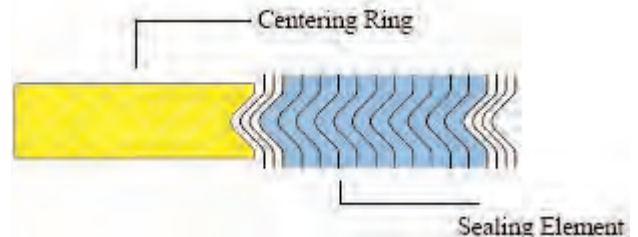
Style D

- Sealing element only consisting of preformed engineered metal & more compressible filler material
- Commonly used in tongue and groove or male and female flanges
- Can also be supplied with an inner ring as Style DI



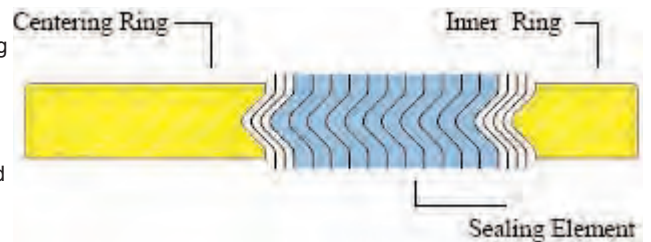
Style DR

- Sealing element (D) combined with a centering ring (R) which reinforces the gasket and acts as a compression stop
- Commonly used with standard raised face and full face type flanges
- Centering ring is electroplated with zinc (silver in color) which provides superior corrosion resistance compared to powder or liquid coating and facilitates easier identification of the gasket



Style DRI

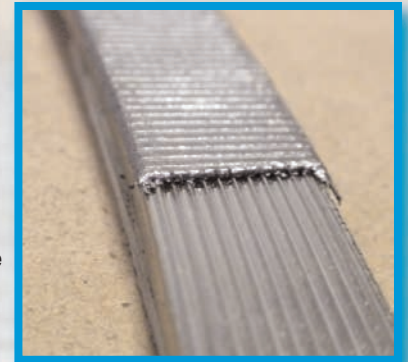
- Sealing element (D) combined with a centering ring (R) and an inner ring (I) which improves radial strength and protects the sealing element from erosion and inward bucking
- Commonly used with standard raised face and full face type flanges
- Inner rings are recommended for all spiral wound gaskets but are mandatory (ASME B16.20-2007) for all PTFE filled gaskets, NSP 24" and larger Class 900, NSP 12" , larger Class 1500 and NPS 4" and larger Class 2500



Norwesco Industries (1983) Ltd. 6908L-6 Street Calgary Alberta T2H-2K4 Phone : 403-258-3883 / Fax : 403-259-5823	Norwesco Industries (1983) Ltd. 9510-39 Avenue Edmonton Alberta T6E-5T9 Phone : 780-437-5440 / Fax : 780-436-0203	Norwesco Industries (1983) Ltd. 291B MacAlpine Cres Ft. McMurray Ab. T9H-4Y4 Phone : 780-743-4446 / Fax : 780-791-5637
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NOR-PRO : Gaskets have a Solid Metal Core with Concentrically Serrated Grooves (Comb Profile) Machined into the Top & Bottom Surfaces.

- The Metal Core is typically Stainless Steel but it can be supplied in various Metals as per the Application or Customer request.
- The Serrated Metal Core can be covered with a soft Sealing Material & is dependent on the application and / or service conditions of the system.
- A Flexible Graphite or an Expanded PTFE sealing layers are most popular, But other soft materials can be used also.

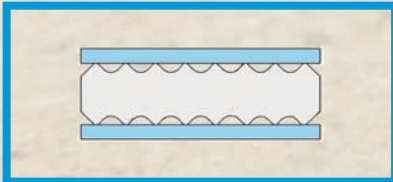


Advantages

- Great Pressure Resistance
- Good Chemical, thermal and mechanical resistance
- Very low necessary surface pressure
- Designed for very sophisticated applications
- Outstanding performance in cases of severe temperature cycling

Recommended applications

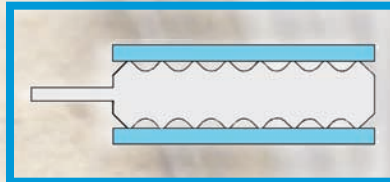
- | | |
|-----------------------------------|-----------------------------------|
| Oil and gas Process Industry | Covers & Hatches |
| Chemical & Petrochemical industry | Flange & Pipe Connections |
| Power plants | Heat exchangers & Process Vessels |
| Building services industry | Ovens |



NORCAM 1 :

Is manufactured without a Guide Ring for Tongue & Groove, or recessed Flange applications such as male & female. It is typically used in Heat Exchanger applications & applied as an upgrade to Double Jacketed Gaskets.

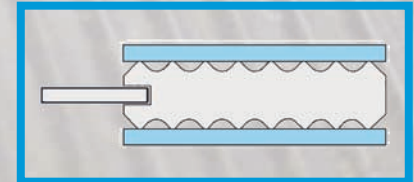
It is highly suggested to have the nubbin (if present) machined out as a best practice. Where pass partitions are required, they are also Comb profiled and laminated. They are the same thickness as the ring, and securely held in place with welds.



NORCAM 2 :

Is constructed with an integral guide ring for aligning purposes. It is suggested to be used in raised face flanges.

The gasket is typically designed & sized per EN12560-6 spec for ASME B16.5 flanges, but can be manufactured to fit other standards



NORCAM 3 :

Utilizes a loose fit guide ring. This popular design is preferred for nominal pipe size & pressure class raised face flanges & is used in equipment with excessive radial shear characteristics, thermal cycling, and expansions.

The gasket is typically designed & sized per EN12560-6 spec for ASME B16.5 flanges, but can be manufactured to fit other standards.