

Metallic strip

Standard thickness of the metallic strip is 0.2 mm.

MATERIALS FOR METALLIC STRIP	
ASTM	EN Material No.
AISI 304	1.4301
AISI 309	1.4828
AISI 316, AISI 316L	1.4401, 1.4404
AISI 316Ti	1.4571
AISI 321	1.4541
Monel (NiCu30Fe)	2.4360

Other alloys available on request.

Filler

- Filler is normally used for thicknesses from 0.5 mm to 0.6 mm.
- Flexible graphite 98%
- Flexible graphite 99.85%
- PTFE, E-PTFE
- Mica

Centering ring

The centering ring does not come into direct contact with contained fluid. It is normally made of carbon steel and electroplated or painted to avoid corrosion. Other materials are available on request.

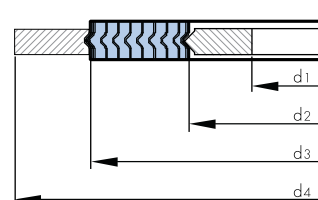
Inner ring

The inner ring is used to avoid excessive compression due to high seating stress in high-pressure service and it is also used to reduce turbulence in the flange area. It is normally made of the same material as the gasket metallic strip.

DIMENSIONS

Limitations for manufacturing of dimensions are general and can vary according to the special customer requirements.

LIMITATIONS FOR MANUFACTURING DIMENSIONS			
Thickness [mm]	Max diameter d_3 (mm)	Maximum width - b_g (mm)	
		Graphite	PTFE
2.5	300	16	13
3.2	700	22	19
4.5	1500	30	24
6.5	2300	35	24
7.2	2300	30	24



Thickness

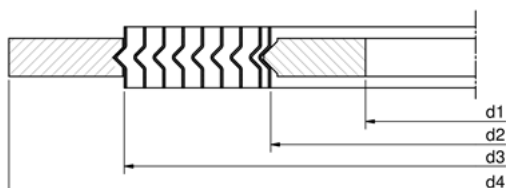
The standard manufacturing thicknesses for spiral wound gaskets are: 3.2 mm, 4.5 mm and 6.5 mm (measured across metallic strip not including the filler, which protrudes 0.2-0.3 mm beyond the metal).

Manufacturing tolerances

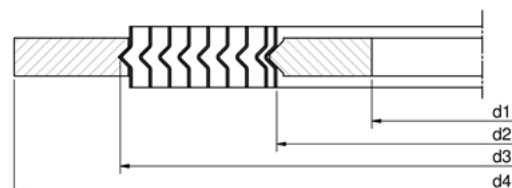
The tolerance of the gasket diameters (d_1 , d_2 , d_3 , d_4 , s , s_1 , s_2) are stipulated by ASME B16.20 and EN 1514-2 standards. The gaskets designed for non-standard flanges meet the recommendations by the ASME B16.20.

Dimensions

The dimensions of the standard SWG meet the ASME, BS, DIN and EN standards.



Technical drawing for EN standards



Technical drawing for ASME standards

EN 1514-2:2005 Spiral wound gaskets for EN 1092-1 flanges

DN (mm)	d1 (mm)	d2 (mm)	d3 (mm)		d4 (mm)						
PN Class	PN 10-400	PN 10-400	PN 10-40	PN 64-400	PN 10	PN 16	PN 25	PN 40	PN 64	PN 100	PN 160
10	18	24	34	34	46	46	46	46	56	56	56
15	23	29	39	39	51	51	51	51	61	61	61
20	28	34	46	—	61	61	61	61	—	—	—
25	35	41	53	53	71	71	71	71	82	82	82
32	43	49	61	—	82	82	82	82	—	—	—
40	50	56	68	68	92	92	92	92	103	103	103
50	61	70	86	86	107	107	107	107	113	119	119
65	77	86	102	106	127	127	127	127	137	143	143
80	90	99	115	119	142	142	142	142	148	154	154
100	115	127	143	147	162	162	168	168	174	180	180
125	140	152	172	176	192	192	194	194	210	217	217
150	167	179	199	203	218	218	224	224	247	257	257
200	216	228	248	252	273	273	284	290	309	324	324
250	267	279	303	307	327	329	340	352	364	391	388
300	318	330	354	358	377	384	400	417	424	458	458
350	360	376	400	404	437	444	457	474	486	512	—
400	410	422	450	456	488	495	514	546	543	572	—
500	510	522	550	556	593	617	624	628	657	704	—
600	610	622	650	656	695	734	731	747	764	813	—
700	710	722	756	762	810	804	833	852	879	950	—
800	810	830	864	870	917	911	942	974	988	—	—
900	910	930	964	970	1017	1011	1042	1084	1108	—	—
1000	1010	1030	1074	1080	1124	1128	1154	1194	—	—	—