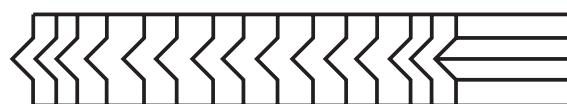


spiral wound gasket SPW01

gasket spec

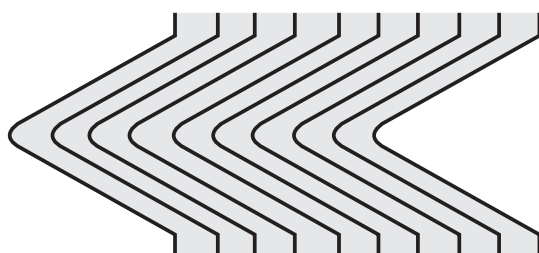


description

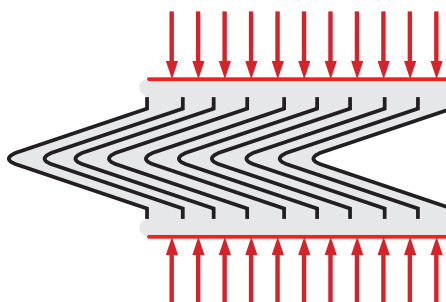
spiral wound gaskets are extremely versatile and offer an excellent seal in a wide variety of applications. spiral wound gaskets may be used over the complete temperature range from cryogenic to about 550°C, with a special sealant up to 1000°C. this type gasket withstands all pressures up to the 400 bars. gaskets are of great resilience and corrosion resistance thanks to the broad range of the metallic and non-metallic construction materials. spiral wound gaskets are manufactured by winding the metal strip in combination with the film from sealing material. spiral wound gasket with winding only is suitable for flanges with tongue and groove.

principle of sealing

the metallic strip has V-profile. during tightening are V-profile compressed and the intermediate film flow out. the flowed material prevents the touch the metallic strip and the sealing surfaces. how is to see on the figure below, the bigger tightening pressures means more material from intermediate film is between the gasket and the flange.



before tightening



after tightening

level of sealing surfaces

3,2 - 12,5 $\mu\text{m Ra}$

the sealing surfaces would be in a parallel way together, so as the deviation value wasn't greater then 0,4mm per all sealing surface. the sealing surfaces would be uniplanar, so as the deviation value wasn't greater then 0,2mm per width of gasket.

materials

metallic strip - winding
intermediate film

stainless steel 316L

PTFE up to temperature 260°C, for very aggressive media and to food and farmaceutical media

expanded graphite up to temperature 550°C

mica up to temperature 1000°C

pressure using

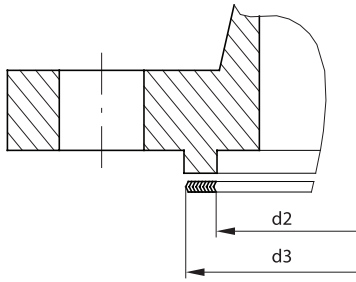
up to 40 Mpa

using

spiral wound gaskets are used in flanges in boilers, heat exchangers, vessels, tubes, valves, pumps, compressors etc and also for sealing manhole and handhole covers. these gaskets are popular in many industrial areas such as petrochemical industry, power generation, oil and gas industry. they are suitable for steam, oil, many different chemicals, gases and other aggressive media.

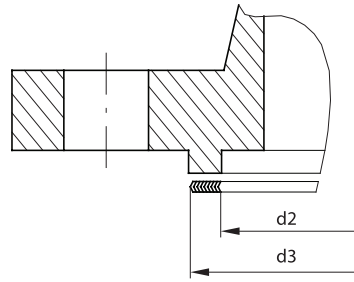
**dimensions of spiral wound gasket**

according to EN 1514-2 type tongue groove TG



EN 1514-2		
DIN 2691		
Type TG		
DN	d2	d3
4-6	20	30
8	22	32
10	24	34
15	29	39
20	36	50
25	43	57
32	51	65
40	61	75
50	73	87
65	95	109
80	106	120
100	129	149
125	155	175
150	183	203
175	213	233
200	239	259
250	292	312
300	343	363
350	395	421
400	447	473
450	497	523
500	549	575
600	649	675
700	751	777
800	856	882
900	961	987
1000	1062	1092

according to ASME B16.5 type tongue groove



ASME B16.5		
Type TG		
DN	d2	d3
1/2"	26	35
3/4"	34	43
1"	38	51
1 1/4"	48	64
1 1/2"	54	73
2"	73	92
2 1/2"	86	105
3"	108	127
4"	132	157
5"	160	186
6"	190	216
8"	238	270
10"	286	324
12"	343	381
14"	374	413
16"	424	470
18"	489	533
20"	534	584
24"	642	692