

spiral wound gasket SPW02

gasket spec

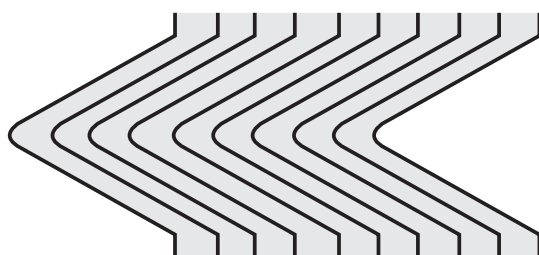


description

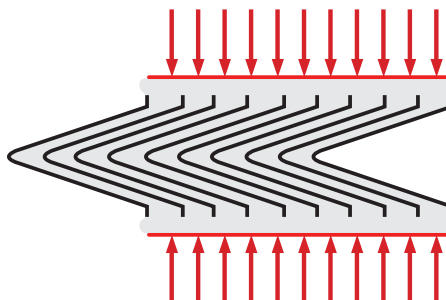
spiral wound gaskets are extremely versatile and offer an excellent seal in a wide variety of applications. spiral wound gaskets may be used over the complete temperature range from cryogenic to about 550°C, with a special sealant up to 1000°C. this type gasket withstands all pressures up to the 400 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 and inner ring is suitable for flanges with male female sealing surface. the inner ring serves as radial support and increases the resilience of the gasket.

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	stainless steel 316L
inner ring	stainless steel 316L the same like winding
intermediate film	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

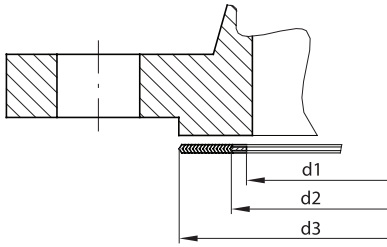
up to 40 Mpa

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**

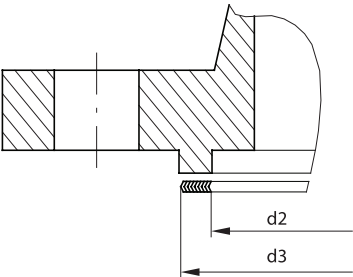
according to EN 1514-2 type male female - SR



EN 1514-2				
DIN2692				
Type SR				
DN	d1	d2	d3	d3
			PN 10 - PN40	PN 63 - PN160
10	18	24	34	34
15	23	29	39	39
20	28	34	46	-
25	35	41	53	53
32	43	49	61	-
40	50	56	68	68
50	61	70	86	86
65	77	86	102	106
80	90	99	115	119
100	115	127	143	147
125	140	152	172	176
150	167	179	199	203
200	216	228	248	252
250	267	279	303	307
300	318	330	354	358
350	360	376	400	404
400	410	422	450	456
500	510	522	550	556
600	610	622	650	656
700	710	722	756	762
800	810	830	864	870
900	910	930	964	970
1000	1010	1030	1074	1080



according to ASME B16.5 type tongue groove



ASME B16.5		
Type TG		
DN	d1	d2
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