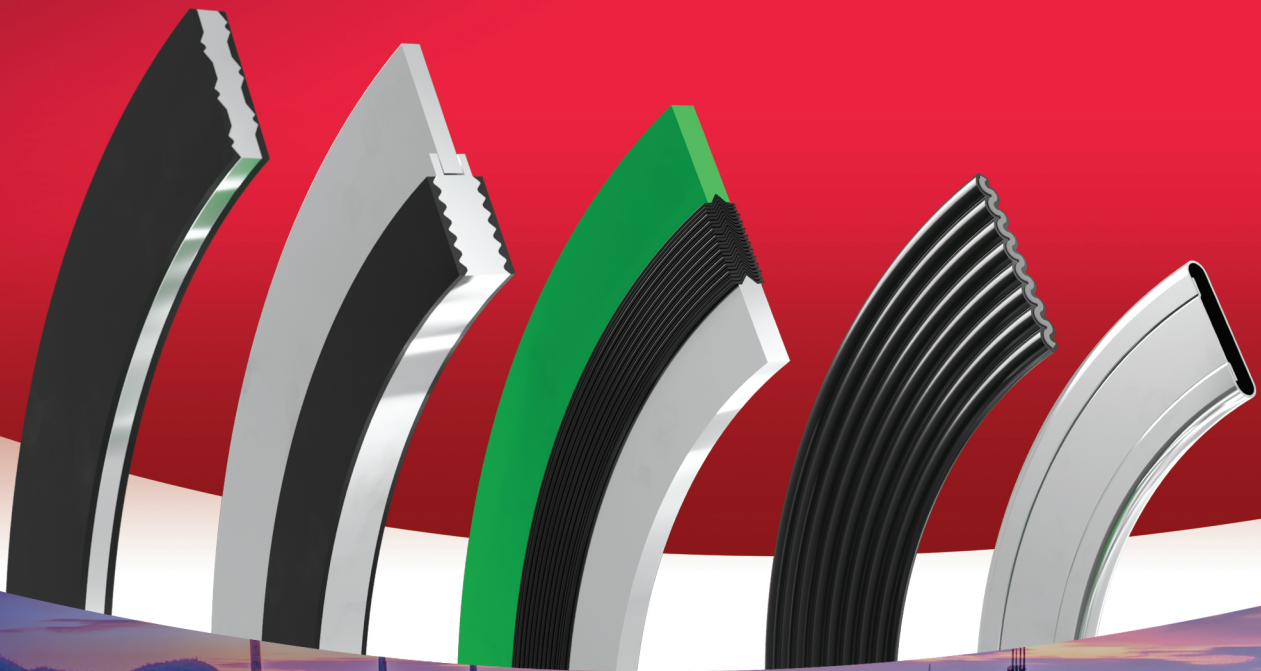




SUPERIOR SEALING SERVICES

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TECHNICAL CATALOG

- EXPERT TECHNICAL SUPPORT
- SPECIALIZED GASKET DESIGN
- BOLT LOAD CALCULATIONS
- ON-SITE DEMOS

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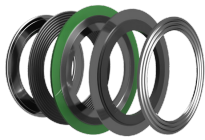


Table Of Contents

Spiral Wound Gasket Product Range

1. Spiral Wound Gasket - Style S, Style SI, Style GS, Style GSI
2. Spiral Wound Gasket - Dimensions - ASME B16.20
3. Spiral Wound Gasket - Dimensions - ASME B16.20
4. Spiral Wound Gasket - Dimensions - ASME B16.20 - B16.47 Series A
5. Spiral Wound Gasket - Dimensions - ASME B16.20 - B16.47 Series B
6. Spiral Wound Gasket - Dimensions - ASME B16.20 - B16.47 Series B
7. Spiral Wound Gasket - Dimensions - EN1514-2
8. Spiral Wound Gasket - Dimensions - Special Flange - Tongue & Groove - Male & Female
9. Spiral Wound Gasket - Dimensions - JIS B2404
10. Spiral Wound Gasket - Dimensions - JIS B2404
11. Spiral Wound Gasket - Design & Manufacturing Parameters
12. Spiral Wound Gasket - Torque - ASME B16.20
13. Spiral Wound Gasket - Torque - ASME B16.20 - B16.47 Series A
14. Spiral Wound Gasket - Torque - ASME B16.20 - B16.47 Series B

Kammprofile Gasket Product Range

15. Kammprofile Gasket - KP1, KP2, KP3
16. Kammprofile Gasket - Dimensions - ASME B16.20
17. Kammprofile Gasket - Dimensions - ASME B16.20 - B16.47 Series A
18. Kammprofile Gasket - Dimensions - ASME B16.20 - B16.47 Series B
19. Kammprofile Gasket - Torque - ASME B16.20
20. Kammprofile Gasket - Torque - ASME B16.20
21. Kammprofile Gasket - Torque - ASME B16.20 - B16.47 Series A
22. Kammprofile Gasket - Torque - ASME B16.20 - B16.47 Series B
23. Kammprofile Gasket - Dimensions - Special - KP3-RJ

Other Gasket Dimensions

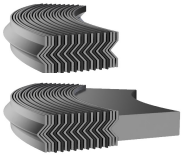
24. Ring Gaskets - Dimensions - ASME B16.21
25. Ring Gaskets - Dimensions - ASME B16.21 - B16.47 Series A & B
26. Full Face Gaskets - Dimensions - ASME B16.21
27. Full Face Gaskets - Dimensions - ASME B16.21 - B16.47 Series A
28. Full Face Gaskets - Dimensions - ASME B16.21 - B16.47 Series B

Spiral-Wound Gasket Product Range

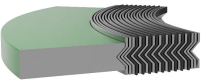
Description:

3S SWG gaskets are wound with a “V” section profiled metal strip along with a soft filler material. The “V” section metal strip ensures the gasket has excellent compressibility and recovery under various applications. The soft filler material ensures sealability against the flange face, offering optimum performance. 3S SWG can be produced in a wide range of sizes, thickness and material combinations to suit the application.

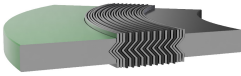
Style:



Style S - SI is a spiral wound gasket that is fabricated by utilizing the metal wire along with soft non-metallic filler. Suitable for tongue and groove, male and female, or grooved to flat face flange assemblies, also available with pass bars

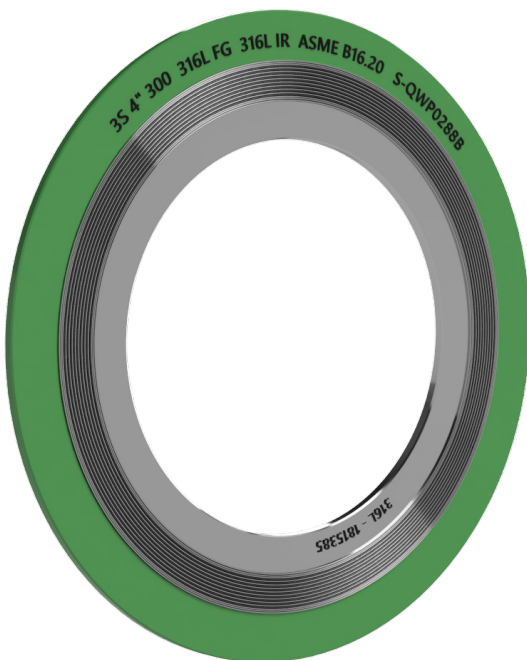


Style GS are comprised of the metal wire with designated filler incorporating the use of a solid metal outer ring. The outer guide ring promotes the correct centering of the gasket in a standard flange, offers radial support for the outer portion of the spiral wound, and acts as a compression gauge to prevent over compression of the spiral wound.



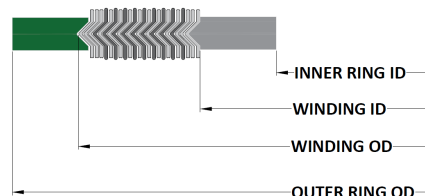
Style GSI are the same as our Style GS with a addition of an inner ring. Like the outer ring, the inner ring serves multiple functions including: radial support for the inner portion of the spiral wound, prevents inward buckling and helps to provide uniform gasket stress

FIRE SAFE APPROVED
ACCORDING TO
API 6FB (GRAPHITE FACING)



Maximum Temperature (Filler)	
3S Inhibited Graphite	850°F (454°C)
APX2® Graphite	975°F (524°C)
PTFE	500°F (260°C)
Mica	1800°F (982°C)
Mica/APX2®/Mica (HTG)	Min -238°F (-150°C) Max 1500°F (815°C)
Ceramic	2000°F (1093°C)
Maximum Temperature (Alloys)	
304 / 304L SS	1400°F (760°C)
316 SS	1400°F (760°C)
316L SS	1400°F (760°C)
321 SS	1500°F (815°C)
347 SS	1500°F (815°C)
Monel	1500°F (815°C)
Inconel 600	2000°F (1093°C)
Carbon Steel	900°F (482°C)

DIMENSIONS IN ACCORDANCE WITH ASME B16.20 (INCHES)



150 lb				
SIZE	INNER RING	WINDING		OUTER RING
NPS	ID	ID	OD	OD
1/4"	-	0.50	0.88	1.75
1/2"	0.56	0.75	1.25	1.88
3/4"	0.81	1.00	1.56	2.25
1"	1.06	1.25	1.88	2.63
1-1/4"	1.50	1.88	2.38	3.00
1-1/2"	1.75	2.13	2.75	3.38
2"	2.19	2.75	3.38	4.13
2-1/2"	2.62	3.25	3.88	4.88
3"	3.19	4.00	4.75	5.38
3-1/2"	3.98	4.50	5.25	6.38
4"	4.19	5.00	5.88	6.88
5"	5.19	6.13	7.00	7.75
6"	6.19	7.19	8.25	8.75
8"	8.50	9.19	10.38	11.00
10"	10.56	11.31	12.50	13.38
12"	12.50	13.38	14.75	16.13
14"	13.75	14.63	16.00	17.75
16"	15.75	16.63	18.25	20.25
18"	17.69	18.69	20.75	21.63
20"	19.69	20.69	22.75	23.88
22"	22.38	23.38	24.63	26.00
24"	23.75	24.75	27.00	28.25

300 lb				
SIZE	INNER RING	WINDING		OUTER RING
NPS	ID	ID	OD	OD
1/4"	-	0.50	0.88	1.75
1/2"	0.56	0.75	1.25	2.13
3/4"	0.81	1.00	1.56	2.63
1"	1.06	1.25	1.88	2.88
1-1/4"	1.50	1.88	2.38	3.25
1-1/2"	1.75	2.13	2.75	3.75
2"	2.19	2.75	3.38	4.38
2-1/2"	2.62	3.25	3.88	5.13
3"	3.19	4.00	4.75	5.88
3-1/2"	3.98	4.50	5.25	6.50
4"	4.19	5.00	5.88	7.13
5"	5.19	6.13	7.00	8.50
6"	6.19	7.19	8.25	9.88
8"	8.50	9.19	10.38	12.13
10"	10.56	11.31	12.50	14.25
12"	12.50	13.38	14.75	16.63
14"	13.75	14.63	16.00	19.13
16"	15.75	16.63	18.25	21.25
18"	17.69	18.69	20.75	23.50
20"	19.69	20.69	22.75	25.75
22"	21.75	22.75	24.63	27.75
24"	23.75	24.75	27.00	30.50

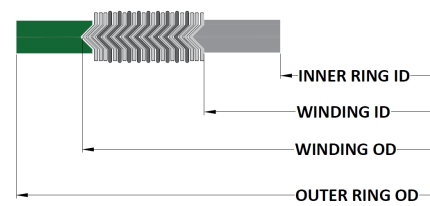
400 lb				
SIZE	INNER RING	WINDING		OUTER RING
NPS	ID	ID	OD	OD
1/4"	-	0.50	0.88	1.75
1/2"	0.56	0.75	1.25	2.13
3/4"	0.81	1.00	1.56	2.63
1"	1.06	1.25	1.88	2.88
1-1/4"	1.50	1.88	2.38	3.25
1-1/2"	1.75	2.13	2.75	3.75
2"	2.19	2.75	3.38	4.38
2-1/2"	2.62	3.25	3.88	5.13
3"	3.19	4.00	4.75	5.88
3-1/2"	3.60	4.13	5.25	6.38
4"	4.04	4.75	5.88	7.00
5"	5.05	5.81	7.00	8.38
6"	6.10	6.88	8.25	9.75
8"	8.10	8.88	10.38	12.00
10"	10.05	10.81	12.50	14.13
12"	12.10	12.88	14.75	16.50
14"	13.50	14.25	16.00	19.00
16"	15.35	16.25	18.25	21.13
18"	17.25	18.50	20.75	23.38
20"	19.25	20.50	22.75	25.50
22"	21.50	22.75	24.63	27.63
24"	23.25	24.75	27.00	30.25

600 lb				
SIZE	INNER RING	WINDING		OUTER RING
NPS	ID	ID	OD	OD
1/4"	-	0.50	0.88	1.75
1/2"	0.56	0.75	1.25	2.13
3/4"	0.81	1.00	1.56	2.63
1"	1.06	1.25	1.88	2.88
1-1/4"	1.50	1.88	2.38	3.25
1-1/2"	1.75	2.13	2.75	3.75
2"	2.19	2.75	3.38	4.38
2-1/2"	2.62	3.25	3.88	5.13
3"	3.19	4.00	4.75	5.88
3-1/2"	3.60	4.13	5.25	6.38
4"	4.04	4.75	5.88	7.63
5"	5.05	5.81	7.00	9.50
6"	6.10	6.88	8.25	10.50
8"	8.10	8.88	10.38	12.63
10"	10.05	10.81	12.50	15.75
12"	12.10	12.88	14.75	18.00
14"	13.50	14.25	16.00	19.38
16"	15.35	16.25	18.25	22.25
18"	17.25	18.50	20.75	24.13
20"	19.25	20.50	22.75	26.88
22"	21.50	22.75	24.63	28.88
24"	23.25	24.75	27.00	31.13

GSI - GS

DIMENSIONS IN ACCORDANCE

WITH ASME B16.20 (INCHES)



900 lb				
SIZE	INNER RING	WINDING		OUTER RING
NPS	ID	ID	OD	OD
1/2"	0.56	0.75	1.25	2.50
3/4"	0.81	1.00	1.56	2.75
1"	1.06	1.25	1.88	3.13
1-1/4"	1.31	1.56	2.38	3.50
1-1/2"	1.63	1.88	2.75	3.88
2"	2.06	2.31	3.38	5.63
2-1/2"	2.50	2.75	3.88	6.50
3"	3.10	3.75	4.75	6.63
3-1/2"	3.50	4.13	5.25	7.50
4"	4.04	4.75	5.88	8.13
5"	5.05	5.81	7.00	9.75
6"	6.10	6.88	8.25	11.38
8"	7.75	8.75	10.13	14.13
10"	9.69	10.88	12.25	17.13
12"	11.50	12.75	14.50	19.63
14"	12.63	14.00	15.75	20.50
16"	14.75	16.25	18.00	22.63
18"	16.75	18.25	20.50	25.13
20"	19.00	20.50	22.50	27.50
24"	23.25	24.75	26.75	33.00

1500 lb				
SIZE	INNER RING	WINDING		OUTER RING
NPS	ID	ID	OD	OD
1/2"	0.56	0.75	1.25	2.50
3/4"	0.81	1.00	1.56	2.75
1"	1.06	1.25	1.88	3.13
1-1/4"	1.31	1.56	2.38	3.50
1-1/2"	1.63	1.88	2.75	3.88
2"	2.06	2.31	3.38	5.63
2-1/2"	2.50	2.75	3.88	6.50
3"	3.10	3.63	4.75	6.88
3-1/2"	3.50	4.13	5.25	7.38
4"	3.85	4.63	5.88	8.25
5"	4.90	5.63	7.00	10.00
6"	5.80	6.75	8.25	11.13
8"	7.75	8.50	10.13	13.88
10"	9.69	10.50	12.25	17.13
12"	11.50	12.75	14.50	20.50
14"	12.63	14.25	15.75	22.75
16"	14.50	16.00	18.00	25.25
18"	16.75	18.25	20.50	27.75
20"	18.75	20.25	22.50	29.75
24"	22.75	24.25	26.75	35.50

2500 lb				
SIZE	INNER RING	WINDING		OUTER RING
NPS	ID	ID	OD	OD
1/2"	0.56	0.75	1.25	2.75
3/4"	0.81	1.00	1.56	3.00
1"	1.06	1.25	1.88	3.38
1-1/4"	1.31	1.56	2.38	4.13
1-1/2"	1.63	1.88	2.75	4.63
2"	2.06	2.31	3.38	5.75
2-1/2"	2.50	2.75	3.88	6.63
3"	3.10	3.63	4.75	7.75
4"	3.85	4.63	5.88	9.25
5"	4.90	5.63	7.00	11.00
6"	5.80	6.75	8.25	12.50
8"	7.75	8.50	10.13	15.25
10"	9.69	10.63	12.25	18.75
12"	11.50	12.50	14.50	21.63

Tolerances:

Thickness = $\pm 0.005"$: Please note the nominal thickness of 0.175" is measured across the metal winding, NOT over the soft filler material.

Inner & Outer Rings = 0.117" to 0.131"

Winding OD:

NPS 1/2" through NPS 8" = $\pm 0.03"$

NPS 10" through NPS 24" = $+0.06" / -0.03"$

Winding ID:

NPS 1/2" through NPS 8" = $\pm 0.016"$

NPS 10" through NPS 24" = $\pm 0.03"$

Outer Ring:

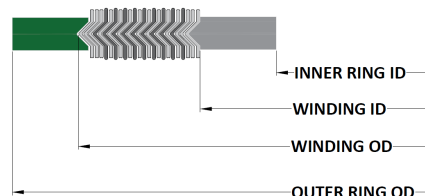
All NPS = $\pm 0.03"$

Inner Ring ID:

NPS 1/2" through NPS 3" = $\pm 0.03"$

NPS 3 1/2" through NPS 24" = $\pm 0.06"$

DIMENSIONS IN ACCORDANCE WITH ASME B16.20 - B16.47 Series A (INCHES)



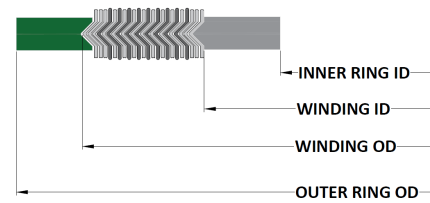
150 lb				
SIZE	INNER RING	WINDING		OUTER RING
NPS	ID	ID	OD	OD
26"	25.75	26.50	27.75	30.50
28"	27.75	28.50	29.75	32.75
30"	29.75	30.50	31.75	34.75
32"	31.75	32.50	33.88	37.00
34"	33.75	34.50	35.88	39.00
36"	35.75	36.50	38.13	41.25
38"	37.75	38.50	40.13	43.75
40"	39.75	40.50	42.13	45.75
42"	41.75	42.50	44.25	48.00
44"	43.75	44.50	46.38	50.25
46"	45.75	46.50	48.38	52.25
48"	47.75	48.50	50.38	54.50
50"	49.75	50.50	52.50	56.50
52"	51.75	52.50	54.50	58.75
54"	53.50	54.50	56.50	61.00
56"	55.50	56.50	58.50	63.25
58"	57.50	58.50	60.50	65.50
60"	59.50	60.50	62.50	67.50

300 lb				
SIZE	INNER RING	WINDING		OUTER RING
NPS	ID	ID	OD	OD
26"	25.75	27.00	29.00	32.88
28"	27.75	29.00	31.00	35.38
30"	29.75	31.25	33.25	37.50
32"	31.75	33.50	35.50	39.63
34"	33.75	35.50	37.50	41.63
36"	35.75	37.63	39.63	44.00
38"	37.50	38.50	40.00	41.50
40"	39.50	40.25	42.13	43.88
42"	41.50	42.25	44.13	45.88
44"	43.50	44.50	46.50	48.00
46"	45.38	46.38	48.38	50.13
48"	47.63	48.63	50.63	52.13
50"	49.00	51.00	53.00	54.25
52"	52.00	53.00	55.00	56.25
54"	53.25	55.25	57.25	58.75
56"	55.25	57.25	59.25	60.75
58"	57.00	59.50	61.50	62.75
60"	60.00	61.50	63.50	64.75

400 lb				
SIZE	INNER RING	WINDING		OUTER RING
NPS	ID	ID	OD	OD
26"	26.00	27.00	29.00	32.75
28"	28.00	29.00	31.00	35.13
30"	29.75	31.25	33.25	37.25
32"	32.00	33.50	35.50	39.50
34"	34.00	35.50	37.50	41.50
36"	36.13	37.63	39.63	44.00
38"	37.50	38.25	40.25	42.25
40"	39.38	40.38	42.38	44.38
42"	41.38	42.38	44.38	46.38
44"	43.50	44.50	46.50	48.50
46"	46.00	47.00	49.00	50.75
48"	47.50	49.00	51.00	53.00
50"	49.50	51.00	53.00	55.25
52"	51.50	53.00	55.00	57.25
54"	53.25	55.25	57.25	59.75
56"	55.25	57.25	59.25	61.75
58"	57.25	59.25	61.25	63.75
60"	59.75	61.75	63.75	66.25

600 lb				
SIZE	INNER RING	WINDING		OUTER RING
NPS	ID	ID	OD	OD
26"	25.50	27.00	29.00	34.13
28"	27.50	29.00	31.00	36.00
30"	29.75	31.25	33.25	38.25
32"	32.00	33.50	35.50	40.25
34"	34.00	35.50	37.50	42.25
36"	36.13	37.63	39.63	44.50
38"	37.50	39.00	41.00	43.50
40"	39.75	41.25	43.25	45.50
42"	42.00	43.50	45.50	48.00
44"	43.75	45.75	47.75	50.00
46"	45.75	47.75	49.75	52.25
48"	48.00	50.00	52.00	54.75
50"	50.00	52.00	54.00	57.00
52"	52.00	54.00	56.00	59.00
54"	54.25	56.25	58.25	61.25
56"	56.25	58.25	60.25	63.50
58"	58.00	60.50	62.50	65.50
60"	60.25	62.75	64.75	68.25

DIMENSIONS IN ACCORDANCE WITH ASME B16.20 - B16.47 Series A (INCHES)



900 lb				
SIZE	INNER RING	WINDING		OUTER RING
NPS	ID	ID	OD	OD
26"	26.00	27.00	29.00	34.75
28"	28.00	29.00	31.00	37.25
30"	30.25	31.25	33.25	39.75
32"	32.00	33.50	35.50	42.25
34"	34.00	35.50	37.50	44.75
36"	36.25	37.75	39.75	47.25
38"	39.75	40.75	42.75	47.25
40"	41.75	43.25	45.25	49.25
42"	43.75	45.25	47.25	51.25
44"	45.50	47.50	49.50	53.88
46"	48.00	50.00	52.00	56.50
48"	50.00	52.00	54.00	58.50

Tolerances:

Thickness = $\pm 0.005"$: Please note the nominal thickness of 0.175" is measured across the metal winding, NOT over the soft filler material.

Inner & Outer Rings = 0.117" to 0.131"

Winding OD:

NPS 26" through NPS 60" = $\pm 0.06"$

Winding ID:

NPS 26" through NPS 34" = $\pm 0.03"$

NPS 36" through NPS 60" = $\pm 0.06"$

Outer Ring:

All NPS = $\pm 0.03"$

Inner Ring ID:

NPS 26" through NPS 60" = $\pm 0.12"$

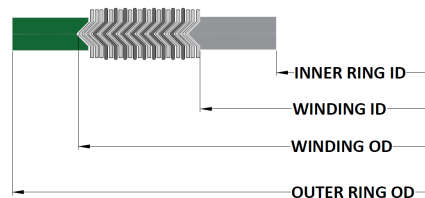
GSI – GS

DIMENSIONS IN ACCORDANCE WITH ASME B16.20 – B16.47 Series B (INCHES)

150 lb				
SIZE	INNER RING	WINDING		OUTER RING
NPS	ID	ID	OD	OD
26"	25.75	26.50	27.50	28.56
28"	27.75	28.50	29.50	30.56
30"	29.75	30.50	31.50	32.56
32"	31.75	32.50	33.50	34.69
34"	33.75	34.50	35.75	36.81
36"	35.75	36.50	37.75	38.88
38"	37.75	38.38	39.75	41.13
40"	39.75	40.25	41.88	43.13
42"	41.75	42.50	43.88	45.13
44"	43.75	44.25	45.88	47.13
46"	45.75	46.50	48.19	49.44
48"	47.75	48.50	50.00	51.44
50"	49.75	50.50	52.19	53.44
52"	51.75	52.50	54.19	55.44
54"	53.75	54.50	56.00	57.63
56"	56.00	56.88	58.19	59.63
58"	58.19	59.06	60.19	62.19
60"	60.44	61.31	62.44	64.19

300 lb				
SIZE	INNER RING	WINDING		OUTER RING
NPS	ID	ID	OD	OD
26"	25.75	26.50	28.00	30.38
28"	27.75	28.50	30.00	32.50
30"	29.75	30.50	32.00	34.88
32"	31.75	32.50	34.00	37.00
34"	33.75	34.50	36.00	39.13
36"	35.75	36.50	38.00	41.25
38"	38.25	39.75	41.25	43.25
40"	40.25	41.75	43.25	45.25
42"	42.75	43.75	45.25	47.25
44"	44.25	45.75	47.25	49.25
46"	46.38	47.88	49.38	51.88
48"	48.50	49.75	51.63	53.88
50"	49.88	51.88	53.38	55.88
52"	51.88	53.88	55.38	57.88
54"	53.75	55.25	57.25	60.25
56"	56.25	58.25	60.00	62.75
58"	58.44	60.44	61.94	65.19
60"	61.31	62.56	64.19	67.19

DIMENSIONS IN ACCORDANCE WITH ASME B16.20 - B16.47 Series B (INCHES)



400 lb				
SIZE	INNER RING	WINDING		OUTER RING
NPS	ID	ID	OD	OD
26"	25.75	26.25	27.50	29.38
28"	27.63	28.13	29.50	31.50
30"	29.63	30.13	31.75	33.75
32"	31.50	32.00	33.88	35.88
34"	33.50	34.13	35.88	37.88
36"	35.38	36.13	38.00	40.25
38"	37.50	38.25	40.25	42.25
40"	39.38	40.38	42.38	44.38
42"	41.38	42.38	44.38	46.38
44"	43.50	44.50	46.50	48.50
46"	46.00	47.00	49.00	50.75
48"	47.50	49.00	51.00	53.00
50"	49.50	51.00	53.00	55.25
52"	51.50	53.00	55.00	57.25
54"	53.25	55.25	57.25	59.75
56"	55.25	57.25	59.25	61.75
58"	57.25	59.25	61.25	63.75
60"	59.75	61.75	63.75	66.25

600 lb				
SIZE	INNER RING	WINDING		OUTER RING
NPS	ID	ID	OD	OD
26"	25.38	26.13	28.13	30.13
28"	27.00	27.75	29.75	32.25
30"	29.63	30.63	32.63	34.63
32"	31.25	32.75	34.75	36.75
34"	33.50	35.00	37.00	39.25
36"	35.50	37.00	39.00	41.25
38"	37.50	39.00	41.00	43.50
40"	39.75	41.25	43.25	45.50
42"	42.00	43.50	45.50	48.00
44"	43.75	45.75	47.75	50.00
46"	45.75	47.75	49.75	52.25
48"	48.00	50.00	52.00	54.75
50"	50.00	52.00	54.00	57.00
52"	52.00	54.00	56.00	59.00
54"	54.25	56.25	58.25	61.25
56"	56.25	58.25	60.25	63.50
58"	58.00	60.50	62.50	65.50
60"	60.25	62.75	64.75	68.25

900 lb				
SIZE	INNER RING	WINDING		OUTER RING
NPS	ID	ID	OD	OD
26"	26.25	27.25	29.50	33.00
28"	28.25	29.25	31.50	35.50
30"	30.75	31.75	33.75	37.75
32"	33.00	34.00	36.00	40.00
34"	35.25	36.25	38.25	42.25
36"	36.25	37.25	39.25	44.25
38"	39.75	40.75	42.75	47.25
40"	41.75	43.25	45.25	49.25
42"	43.75	45.25	47.25	51.25
44"	45.50	47.50	49.50	53.88
46"	48.00	50.00	52.00	56.50
48"	50.00	52.00	54.00	58.50

Tolerances:

Thickness = $\pm 0.005"$: Please note the nominal thickness of 0.175" is measured across the metal winding, NOT over the soft filler material.

Inner & Outer Rings = 0.117" to 0.131"

Winding OD:

NPS 26" through NPS 60" = $\pm 0.06"$

Winding ID:

NPS 26" through NPS 34" = $\pm 0.03"$

NPS 36" through NPS 60" = $\pm 0.06"$

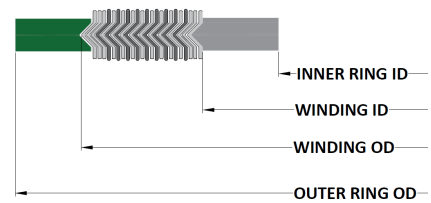
Outer Ring:

All NPS = $\pm 0.03"$

Inner Ring ID:

NPS 26" through NPS 60" = $\pm 0.12"$

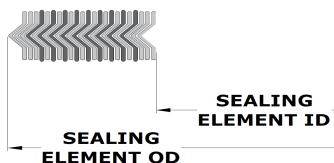
DIMENSIONS IN ACCORDANCE WITH EN1514-2 (INCHES)



NPS	INNER RING	WINDING	WINDING OD		OUTER RING OD						
DN	ID	ID	PN10 - PN40	PN63 - PN250	PN10	PN16	PN25	PN40	PN63	PN100	PN160
10	0.71	0.94	1.34	1.34	1.81				2.20		
15	0.91	1.14	1.54	1.54	2.01				2.40		
20	1.10	1.34	1.81		2.40				-		
25	1.38	1.61	2.09	2.09	2.80				3.23		
32	1.69	1.93	2.40		3.23				-		
40	1.97	2.20	2.68	2.68	3.62				4.06		
50	2.40	2.76	3.39	3.39	4.21				4.45	4.69	
65	3.03	3.39	4.02	4.17	5.00				5.39	5.63	
80	3.54	3.90	4.53	4.69	5.59				5.83	6.06	
100	4.53	5.00	5.63	5.79	6.38		6.61		6.85	7.09	
125	5.51	5.98	6.77	6.93	7.56		7.64		8.27	8.54	
150	6.57	7.05	7.83	7.99	8.58		8.82		9.72	10.12	
200	8.50	8.98	9.76	9.92	10.75		11.18	11.42	12.17	12.76	
250	10.51	10.98	11.93	12.09	12.87	12.95	13.39	13.86	14.33	15.39	15.28
300	12.52	12.99	13.94	14.09	14.84	15.12	15.75	16.42	16.69	18.03	18.03
350	14.17	14.80	15.75	15.91	17.20	17.48	17.99	18.66	19.13	20.16	-
400	16.14	16.61	17.72	17.95	19.21	19.49	20.24	21.50	21.38	22.52	-
500	20.08	20.55	21.65	21.89	23.35	24.29	24.57	24.72	25.87	27.72	-
600	24.02	24.49	25.59	25.83	27.36	28.90	28.78	29.41	30.08	32.01	-
700	27.95	28.43	29.76	30.00	31.89	31.65	32.80	33.54	34.61	37.40	-
800	31.89	32.68	34.02	34.25	36.10	35.87	37.09	38.35	38.90	-	-
900	35.83	36.61	37.95	38.19	40.04	39.80	41.02	42.68	43.62	-	-
1000	39.76	40.55	42.28	42.52	44.25	44.41	45.43	47.01	-	-	-

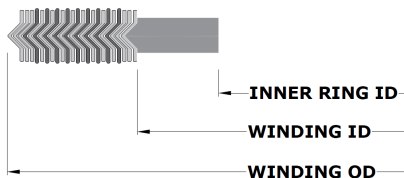
SPECIAL FLANGE GASKET DIMENSIONS (INCHES)

STYLE S - DIMENSIONS TO SUIT ASME B16.5 FLANGES (INCHES)



NPS	Style S - LMF				Style S - LTG		Style S - STG	
	Sealing Element - Class 150lb to 1500lb		Sealing Element - Class 2500lb		Sealing Element - Class 150lb to 2500lb		Sealing Element - Class 150lb to 2500lb	
	ID	OD	ID	OD	ID	OD	ID	OD
1/4	0.50	1.00	-	-	0.50	1.00	-	-
1/2	1.00	1.38	0.81	1.38	1.00	1.38	1.00	1.38
3/4	1.31	1.69	1.06	1.69	1.31	1.69	1.31	1.69
1	1.50	2.00	1.25	2.00	1.50	2.00	1.50	1.88
1 1/4	1.88	2.50	1.63	2.50	1.88	2.50	1.88	2.25
1 1/2	2.13	2.88	1.88	2.88	2.13	2.88	2.13	2.50
2	2.88	3.63	2.38	3.63	2.88	3.63	2.88	3.25
2 1/2	3.38	4.13	3.00	4.13	3.38	4.13	3.38	3.75
3	4.25	5.00	3.75	5.00	4.25	5.00	4.25	4.63
3 1/2	4.75	5.50	-	-	4.75	5.50	4.75	5.13
4	5.19	6.19	4.75	6.19	5.19	6.19	5.19	5.69
4 1/2	5.69	6.75	-	-	-	-	-	-
5	6.31	7.31	5.75	7.31	6.31	7.31	6.31	6.81
6	7.50	8.50	6.75	8.50	7.50	8.50	7.50	8.00
8	9.38	10.63	8.75	10.63	9.38	10.63	9.38	10.00
10	11.25	12.75	10.75	12.75	11.25	12.75	11.25	12.00
12	13.50	15.00	13.00	15.00	13.50	15.00	13.50	14.25
14	14.75	16.25	-	-	14.75	16.25	14.75	15.50
16	17.00	18.50	-	-	16.75	18.50	16.75	17.63
18	19.25	21.00	-	-	19.25	21.00	19.25	20.13
20	21.00	23.00	-	-	21.00	23.00	21.00	22.00
24	25.25	27.25	-	-	25.25	27.25	25.25	26.25

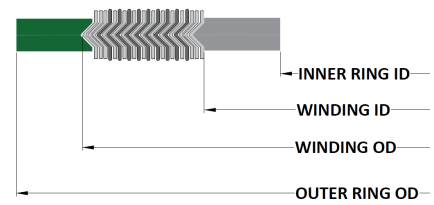
STYLE SI - DIMENSIONS TO SUIT ASME B16.5 FLANGES (INCHES)



NPS	Style SI - LMF				
	Inner Ring	Winding - Class 150 - 1500lb		Winding - Class 2500lb	
		ID	ID	OD	ID
1/2	0.56	1.00	1.38	0.81	1.38
3/4	0.81	1.31	1.69	1.06	1.69
1	1.06	1.50	2.00	1.25	2.00
1 1/4	1.38	1.88	2.50	1.63	2.50
1 1/2	1.63	2.13	2.88	1.88	2.88
2	2.06	2.88	3.63	2.38	3.63
2 1/2	2.50	3.38	4.13	3.00	4.13
3	3.06	4.25	5.00	3.75	5.00
3 1/2	3.56	4.75	5.50	-	-
4	4.06	5.19	6.19	4.75	6.19
4 1/2	4.56	5.69	6.75	-	-
5	5.06	6.31	7.31	5.75	7.31
6	6.06	7.50	8.50	6.75	8.50
8	8.00	9.38	10.63	8.75	10.63
10	10.00	11.25	12.75	10.75	12.75
12	11.94	13.50	15.00	13.00	15.00
14	13.50	14.75	16.25	-	-
16	15.50	16.75	18.50	-	-
18	17.50	19.25	21.00	-	-
20	19.50	21.00	23.00	-	-
24	23.50	25.25	27.25	-	-

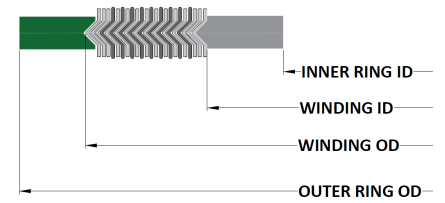
LMF = Large Male and Female
LTG = Large Tongue and Groove
STG = Small Tongue and Groove

DIMENSIONS IN ACCORDANCE WITH JIS B2404 (INCHES)



SIZE (mm)	10K				16 to 20K				30K			
	Inner Ring ID	Winding ID	Winding OD	Outer Ring OD	Inner Ring ID	Winding ID	Winding OD	Outer Ring OD	Inner Ring ID	Winding ID	Winding OD	Outer Ring OD
10	0.71	0.94	1.46	2.05	0.71	0.94	1.46	2.05	0.71	0.94	1.46	2.32
15	0.87	1.10	1.61	2.24	0.87	1.10	1.61	2.24	0.87	1.10	1.61	2.52
20	1.10	1.34	1.85	2.44	1.10	1.34	1.85	2.44	1.10	1.34	1.85	2.72
25	1.34	1.57	2.09	2.91	1.34	1.57	2.09	2.91	1.34	1.57	2.09	3.11
32	1.69	2.01	2.64	3.31	1.69	2.01	2.64	3.31	1.69	2.01	2.64	3.50
40	1.93	2.24	2.87	3.50	1.93	2.24	2.87	3.50	1.93	2.24	2.87	3.94
50	2.40	2.72	3.50	4.09	2.40	2.72	3.50	4.09	2.40	2.72	3.50	4.49
65	3.03	3.43	4.21	4.88	3.03	3.43	4.21	4.88	2.68	3.07	3.86	5.51
80		3.86	4.65	5.28	3.50	3.90	4.69	5.51	3.15	3.54	4.33	5.91
90		4.33	5.12	5.67	4.02	4.49	5.47	5.91	3.62	4.02	5.00	6.38
100		4.84	5.63	6.26	4.53	5.00	5.98	6.50	4.09	4.57	5.55	6.77
125		5.83	6.81	7.48	5.51	5.98	6.97	7.95	5.04	5.51	6.50	8.15
150		6.85	7.83	8.66	6.54	7.17	8.43	9.33	6.02	6.50	7.76	9.80
175		7.91	8.90	9.65					7.95	8.58	9.84	11.57
200		8.94	9.92	10.63	8.54	9.17	10.43	11.10	9.88	10.67	12.24	14.17
225		9.92	10.91	11.42					11.81	12.60	14.17	16.46
250		10.94	12.20	13.07	10.55	11.34	12.91	13.94	13.23	14.02	15.59	18.23
300		12.95	14.21	14.84	12.56	13.35	14.92	15.91	15.08	15.87	17.83	20.63
350		14.41	15.98	16.61	14.02	14.80	16.38	17.72				
400		16.42	17.99	19.06	16.02	17.01	18.98	20.00				
450		18.43	20.39	21.22	18.03	19.02	20.98	22.56				
500		20.39	22.36	23.39	20.00	20.98	22.95	24.72				
550		22.40	24.37	25.59	22.01	22.99	24.96	26.93				
600		24.41	26.38	27.56	24.02	25.00	26.97	28.90				

DIMENSIONS IN ACCORDANCE WITH JIS B2404 (INCHES)



SIZE (mm)	40K				63K			
	Inner Ring ID	Winding ID	Winding OD	Outer Ring OD	Inner Ring ID	Winding ID	Winding OD	Outer Ring OD
10	0.59	0.83	1.34	2.32	0.59	0.83	1.34	2.52
15	0.71	0.94	1.46	2.52	0.71	0.94	1.46	2.72
20	0.91	1.14	1.65	2.72	0.91	1.14	1.65	2.95
25	1.14	1.38	1.89	3.11	1.14	1.38	1.89	3.15
32	1.50	1.73	2.36	3.50	1.50	1.73	2.36	3.54
40	1.69	2.01	2.64	3.94	1.69	2.01	2.64	4.21
50	2.17	2.48	3.11	4.49	2.17	2.48	3.11	4.92
65	2.68	3.07	3.86	5.51	2.68	3.07	3.86	5.98
80	3.15	3.54	4.33	5.91	3.15	3.54	4.33	6.38
90	3.62	4.02	5.00	6.38	3.62	4.02	5.00	7.05
100	4.09	4.57	5.55	7.17	4.09	4.57	5.55	7.64
125	5.04	5.51	6.50	8.82	5.04	5.51	6.50	9.25
150	6.02	6.50	7.76	10.43	6.02	6.50	7.76	10.83
175	7.95	8.58	9.84	12.40	7.95	8.58	9.84	12.91
200	9.88	10.67	12.24	14.88	9.88	10.67	12.24	15.51
225	11.81	12.60	14.17	17.09	11.81	12.60	14.17	17.56
250	13.23	14.02	15.59	18.86	13.23	14.02	15.59	19.21
300	15.08	15.87	17.83	20.91	15.08	15.87	17.83	21.46
350								
400								
450								
500								
550								
600								

ASME B16.20 - SPIRAL WOUND GASKET COLOR CODING DESIGN & MANUFACTURING PARAMETERS

Spiral Wound Operating Temperature with Color Coding

Alloy Materials					
Operation Temperature					
Gasket Material	Minimum °F (°C)		Maximum °F (°C)		Gasket Color Code
304 Stainless Steel	-320	(-195)	1400	(760)	Yellow
316L Stainless Steel	-150	(-100)	1400	(760)	Green
317L Stainless Steel	-150	(-100)	1400	(760)	Maroon
321L Stainless Steel	-320	(-195)	1400	(760)	Turquoise
347 Stainless Steel	-320	(-195)	1400	(760)	Blue
Carbon Steel	-40	(-40)	900	(482)	Silver
Alloy 20	-300	(-185)	1000	(540)	Black
Hastelloy B2	-300	(-185)	2000	(1090)	Brown
Hastelloy C276	-300	(-185)	2000	(1090)	Beige
Monel 400	-200	(-130)	1500	(820)	Orange
Nickel 200	-320	(-195)	1400	(760)	Red
Titanium	-320	(-195)	2000	(1090)	Purple
Incoloy 800	-150	(-100)	1600	(870)	White
Incoloy 825	-150	(-100)	1600	(870)	White
Inconel 600	-150	(-100)	2000	(1090)	Gold
Inconel 625	-150	(-100)	2000	(1090)	Gold
Inconel X750	-150	(-100)	2000	(1090)	No Color
Duplex 2205					

Filler Materials					
Operation Temperature					
Gasket Material	Minimum °F (°C)		Maximum °F (°C)		Gasket Color Code
Flexible Graphite	-350	(-212)	975	(524)	Gray
PTFE	-400	(-240)	500	(260)	White
Ceramic	-350	(-212)	2000	(1090)	Light Green
Phlogopite (mica)	-350	(-212)	1500	(820)	Light Blue
For reference use only					

Design Parameters				Standard Tolerances		
Gasket Thickness	Maximum ID	Maximum Cross Sectional Width	Recommended Compressed Thickness	Gasket Diameter	Inside Diameter	Outside Diameter
0.125"	Up to 14"	½"	0.090" – 0.100"	Up to 10"	± 1/64"	± 1/32"
0.175"	Up to 60"	1"	0.125" – 0.135"	10" to 24"	± 1/32"	± 1/16"
0.250"	Up to 90"	1"	0.180" – 0.200"	24" to 60"	± 3/64"	± 1/16"
0.285"	Up to 180"	1"	0.200" – 0.220"	60" and Above	± 1/16"	± 1/16"

Thickness Tolerance ±0.005"

TORQUE CHART

ASME B16.20 SPIRAL WOUND GASKETS

ASME B16.5 FLANGES

CLASS 150 lb			
NPS	Minimum ft-lbs	Optimum ft-lbs	Maximum ft-lbs
1/2"	26	28	31
3/4"	45	50	55
1"	45	50	55
1-1/4"	45	50	55
1-1/2"	45	50	55
2"	89	99	109
2-1/2"	89	99	109
3"	110	122	135
3-1/2"	76	85	93
4"	107	119	131
5"	189	210	231
6"	219	244	268
8"	219	244	268
10"	354	393	433
12"	354	393	433
14"	531	590	649
16"	531	590	649
18"	752	835	919
20"	649	721	793
24"	916	1017	1119

CLASS 300 lb			
NPS	Minimum ft-lbs	Optimum ft-lbs	Maximum ft-lbs
1/2"	26	28	31
3/4"	51	57	62
1"	59	66	73
1-1/4"	59	66	73
1-1/2"	105	117	129
2"	59	66	73
2-1/2"	90	100	110
3"	105	117	129
3-1/2"	120	134	147
4"	158	175	193
5"	180	200	220
6"	180	200	220
8"	291	323	356
10"	382	424	467
12"	541	601	661
14"	412	458	504
16"	763	848	933
18"	763	848	933
20"	763	848	933
24"	1328	1475	1623

CLASS 400 lb			
NPS	Minimum ft-lbs	Optimum ft-lbs	Maximum ft-lbs
1/2"	26	28	31
3/4"	51	57	62
1"	59	66	73
1-1/4"	59	66	73
1-1/2"	105	117	129
2"	59	66	73
2-1/2"	90	100	110
3"	105	117	129
3-1/2"	194	216	237
4"	255	283	311
5"	255	283	311
6"	255	283	311
8"	382	424	467
10"	541	601	661
12"	763	848	933
14"	763	848	933
16"	1001	1112	1223
18"	1001	1112	1223
20"	1328	1475	1623
24"	2296	2551	2806

CLASS 600 lb			
NPS	Minimum ft-lbs	Optimum ft-lbs	Maximum ft-lbs
1/2"	26	28	31
3/4"	51	57	62
1"	51	57	62
1-1/4"	51	57	62
1-1/2"	90	100	110
2"	51	57	62
2-1/2"	90	100	110
3"	90	100	110
3-1/2"	218	243	267
4"	218	243	267
5"	327	364	400
6"	327	364	400
8"	515	572	629
10"	654	727	799
12"	654	727	799
14"	858	953	1048
16"	1138	1265	1391
18"	1557	1730	1903
20"	1557	1730	1903
24"	2444	2716	2988

CLASS 900 lb			
NPS	Minimum ft-lbs	Optimum ft-lbs	Maximum ft-lbs
1/2"	60	67	73
3/4"	60	67	73
1"	97	108	119
1-1/4"	170	189	208
1-1/2"	255	283	311
2"	170	189	208
2-1/2"	255	283	311
3"	170	189	208
4"	361	401	441
5"	509	565	622
6"	361	401	441
8"	667	741	815
10"	667	741	815
12"	667	741	815
14"	885	984	1082
16"	1211	1346	1480
18"	1901	2112	2324
20"	2327	2586	2845
24"	4664	5183	5701

CLASS 1500 lb			
NPS	Minimum ft-lbs	Optimum ft-lbs	Maximum ft-lbs
1/2"	60	67	73
3/4"	60	67	73
1"	97	108	119
1-1/4"	146	162	178
1-1/2"	218	242	267
2"	146	162	178
2-1/2"	218	242	267
3"	309	343	378
4"	436	485	533
5"	759	843	927
6"	572	635	699
8"	1038	1154	1269
10"	1630	1811	1992
12"	1995	2217	2438
14"	1921	2134	2348
16"	2665	2962	3258
18"	4476	4973	5471
20"	4685	5205	5726
24"	7529	8366	9202

CLASS 2500 lb			
NPS	Minimum ft-lbs	Optimum ft-lbs	Maximum ft-lbs
1/2"	60	67	73
3/4"	75	84	92
1"	121	135	148
1-1/4"	218	242	267
1-1/2"	309	343	378
2"	218	242	267
2-1/2"	309	343	378
3"	436	485	533
4"	759	843	927
5"	1093	1215	1336
6"	1662	1847	2032
8"	1662	1847	2032
10"	2665	2962	3258
12"	4476	4973	5471

Gasket Style	SWG - GS - GSI
K Factor	0.15 to 0.17
Bolt Grade	B7 -B16

Note: 3S Superior Sealing Services LLC produces torque calculations from given information, either from relevant standards or information from our customers. 3S Superior Sealing Service LLC doesn't accept responsibility for misuse of this information.

TORQUE CHART

ASME B16.20 - ASME B16.47 SERIES A

SPIRAL WOUND GASKETS

Gasket Style	SWG - GS - GSI
K Factor	0.15 to 0.17
Bolt Grade	B7 -B16

CLASS 150 lb			
NPS	Minimum	Optimum	Maximum
	ft-lbs	ft-lbs	ft-lbs
26"	701	779	857
28"	701	779	857
30"	701	779	857
32"	1223	1359	1495
34"	1223	1359	1495
36"	1223	1359	1495
38"	1223	1359	1495
40"	1223	1359	1495
42"	1223	1359	1495
44"	1223	1359	1495
46"	1223	1359	1495
48"	1223	1359	1495
50"	2182	2424	2667
52"	2182	2424	2667
54"	2182	2424	2667
56"	2182	2424	2667
58"	2182	2424	2667
60"	2182	2424	2667

CLASS 300 lb			
NPS	Minimum	Optimum	Maximum
	ft-lbs	ft-lbs	ft-lbs
26"	1310	1456	1602
28"	1310	1456	1602
30"	1662	1847	2032
32"	2073	2303	2533
34"	2073	2303	2533
36"	2546	2829	3112
38"	1223	1359	1495
40"	1310	1456	1602
42"	1720	1911	2102
44"	2182	2424	2667
46"	2720	3023	3325
48"	2720	3023	3325
50"	2864	3182	3501
52"	2864	3182	3501
54"	4158	4620	5082
56"	4158	4620	5082
58"	4158	4620	5082
60"	4158	4620	5082

CLASS 400 lb			
NPS	Minimum	Optimum	Maximum
	ft-lbs	ft-lbs	ft-lbs
26"	1662	1847	2032
28"	1814	2015	2217
30"	2228	2475	2723
32"	2228	2475	2723
34"	2228	2475	2723
36"	2228	2475	2723
38"	1662	1847	2032
40"	2073	2303	2533
42"	2073	2303	2533
44"	2546	2829	3112
46"	2546	2829	3112
48"	4851	5390	5929
50"	3696	4106	4517
52"	3234	3593	3952
54"	5149	5721	6293
56"	4506	5006	5507
58"	4506	5006	5507
60"	5205	5784	6362

CLASS 600 lb			
NPS	Minimum	Optimum	Maximum
	ft-lbs	ft-lbs	ft-lbs
26"	1814	2015	2217
28"	2228	2475	2723
30"	2228	2475	2723
32"	2772	3080	3388
34"	2772	3080	3388
36"	3862	4291	4720
38"	3234	3593	3952
40"	2772	3080	3388
42"	3862	4291	4720
44"	3862	4291	4720
46"	3862	4291	4720
48"	4338	4820	5302
50"	5692	6324	6956
52"	4553	5059	5565
54"	4553	5059	5565
56"	5840	6489	7138
58"	5840	6489	7138
60"	7350	8167	8983

CLASS 900 lb			
NPS	Minimum	Optimum	Maximum
	ft-lbs	ft-lbs	ft-lbs
26"	3470	3856	4241
28"	4553	5059	5565
30"	4553	5059	5565
32"	5840	6489	7138
34"	7350	8167	8983
36"	7350	8167	8983
38"	7350	8167	8983
40"	7350	8167	8983
42"	7350	8167	8983
44"	8289	9210	10131
46"	11107	12341	13575
48"	11107	12341	13575

Note: 3S Superior Sealing Services LLC produces torque calculations from given information, either from relevant standards or information from our customers. 3S Superior Sealing Service LLC doesn't accept responsibility for misuse of this information.

TORQUE CHART

ASME B16.20 - ASME B16.47 SERIES B

SPIRAL WOUND GASKETS

Gasket Style	SWG - GS - GSI
K Factor	0.15 to 0.17
Bolt Grade	B7 -B16

CLASS 150 lb			
NPS	Minimum	Optimum	Maximum
	ft-lbs	ft-lbs	ft-lbs
26"	143	159	174
28"	143	159	174
30"	143	159	174
32"	143	159	174
34"	231	257	282
36"	231	257	282
38"	347	386	424
40"	347	386	424
42"	347	386	424
44"	347	386	424
46"	491	546	600
48"	491	546	600
50"	491	546	600
52"	491	546	600
54"	491	546	600
56"	491	546	600
58"	701	779	857
60"	701	779	857

CLASS 300 lb			
NPS	Minimum	Optimum	Maximum
	ft-lbs	ft-lbs	ft-lbs
26"	534	593	653
28"	534	593	653
30"	696	773	850
32"	932	1035	1139
34"	932	1035	1139
36"	1147	1274	1401
38"	1147	1274	1401
40"	1147	1274	1401
42"	1455	1616	1778
44"	1455	1616	1778
46"	1814	2015	2217
48"	1814	2015	2217
50"	1555	1727	1900
52"	1555	1727	1900
54"	1555	1727	1900
56"	2772	3080	3388
58"	2310	2567	2823
60"	2772	3080	3388

CLASS 400 lb			
NPS	Minimum	Optimum	Maximum
	ft-lbs	ft-lbs	ft-lbs
26"	696	773	850
28"	932	1035	1139
30"	932	1035	1139
32"	1310	1456	1602
34"	1310	1456	1602
36"	1662	1847	2032
38"	1662	1847	2032
40"	2073	2303	2533
42"	2073	2303	2533
44"	2546	2829	3112
46"	2546	2829	3112
48"	3696	4106	4517
50"	3696	4106	4517
52"	3696	4106	4517
54"	4506	5006	5507
56"	4506	5006	5507
58"	4506	5006	5507
60"	6941	7712	8483

CLASS 600 lb			
NPS	Minimum	Optimum	Maximum
	ft-lbs	ft-lbs	ft-lbs
26"	1147	1274	1401
28"	1455	1616	1778
30"	1814	2015	2217
32"	2228	2475	2723
34"	3234	3593	3952
36"	3234	3593	3952
38"	3234	3593	3952
40"	2772	3080	3388
42"	3862	4291	4720
44"	3218	3576	3933
46"	3218	3576	3933
48"	4338	4820	5302
50"	4553	5059	5565
52"	4553	5059	5565
54"	4553	5059	5565
56"	5840	6489	7138
58"	5840	6489	7138
60"	7350	8167	8983

CLASS 900 lb			
NPS	Minimum	Optimum	Maximum
	ft-lbs	ft-lbs	ft-lbs
26"	3862	4291	4720
28"	3470	3856	4241
30"	4553	5059	5565
32"	4553	5059	5565
34"	5840	6489	7138
36"	4553	5059	5565
38"	7350	8167	8983
40"	7350	8167	8983
42"	7350	8167	8983
44"	8289	9210	10131
46"	11107	12341	13575
48"	11107	12341	13575

Note: 3S Superior Sealing Services LLC produces torque calculations from given information, either from relevant standards or information from our customers. 3S Superior Sealing Service LLC doesn't accept responsibility for misuse of this information.

Kammprofile Gasket Product Range

Description:

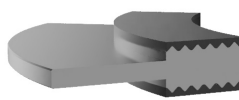
3S - Kammprofile gaskets are manufactured with the best practices utilizing the latest manufacturing technology. This style is the preferred gasket choice to maintain a tight seal for heat exchangers, pressure vessels, and other equipment that are subjected to excessive thermal cycling. Kammprofile gaskets are constructed with concentrically serrated solid metal core faced on both sides with a flexible sealing material. These are commonly specified to improve performance where lower gasket seating stresses are required for an effective seal. This design limits the movement of the sealing material within the serrations while the solid metal core provides blowout resistance and firmness for ease of installation.

Styles:



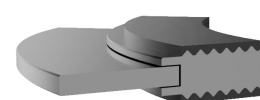
KP1

KP-1 is constructed with solid serrated core only for use in confined spaces, male and female, tongue and groove, or recessed flange compositions. These are most commonly found in heat exchanger flanges as upgrade from double jacketed or solid metal where lower bolt load is required



KP2

KP-2 is fabricated similar to KP-1, except with an integral outer guide ring to assist in proper alignment on flange facing. This gasket is recommended for raised face or flat face mating flanges



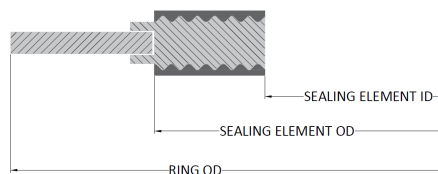
KP3

KP-3 is very similar to our KP-2 with minor difference of utilizing a loose-fitting guide ring for alignment. This design is used in place of KP-2 where thermal expansion is encountered



Gasket Properties (All Styles)	
m	2
y	2500 psi

KAMMPROFILE - KP2 & KP3 DIMENSIONS IN ACCORDANCE WITH ASME B16.20 (INCHES)



NPS	Grooved Metal Core		Pressure Class						
	D1	D2	D3						
	Core ID	Core OD	150 lb	300 lb	400 lb	600 lb	900 lb	1500 lb	2500 lb
1/2"	0.91	1.31	1.88	2.13	2.13	2.13	2.50	2.50	2.75
3/4"	1.13	1.56	2.25	2.63	2.63	2.63	2.75	2.75	3.00
1"	1.44	1.87	2.63	2.88	2.88	2.88	3.13	3.13	3.38
1-1/4"	1.75	2.37	3.00	3.25	3.25	3.25	3.50	3.50	4.13
1-1/2"	2.06	2.75	3.38	3.75	3.75	3.75	3.88	3.88	4.63
2"	2.75	3.50	4.13	4.38	4.38	4.38	5.63	5.63	5.75
2-1/2"	3.25	4.00	4.88	5.13	5.13	5.13	6.50	6.50	6.63
3"	3.87	4.87	5.38	5.88	5.88	5.88	6.63	6.88	7.75
4"	4.87	6.06	6.88	7.13	7.00	7.63	8.13	8.25	9.25
5"	5.94	7.19	7.75	8.50	8.38	9.50	9.75	10.00	11.00
6"	7.00	8.37	8.75	9.88	9.75	10.50	11.38	11.13	12.50
8"	9.00	10.50	11.00	12.13	12.00	12.63	14.13	13.88	15.25
10"	11.13	12.63	13.38	14.25	14.13	15.75	17.13	17.13	18.75
12"	13.37	14.87	16.13	16.63	16.50	18.00	19.63	20.50	21.63
14"	14.63	16.13	17.75	19.13	19.00	19.38	20.50	22.75	
16"	16.63	18.37	20.25	21.25	21.13	22.25	22.63	25.25	
18"	18.87	20.87	21.63	23.50	23.38	24.13	25.13	27.75	
20"	20.87	22.87	23.88	25.75	25.50	26.88	27.50	29.75	
24"	24.87	26.87	28.25	30.50	30.25	31.13	33.00	35.50	

Tolerances: Thickness of core = 0.117" to 0.131" - D1, D2 & D3 = ± 0.03 "

KAMMPROFILE - KP2 & KP3 - DIMENSIONS IN ACCORDANCE WITH ASME B16.20 - B16.47 SERIES A (INCHES)

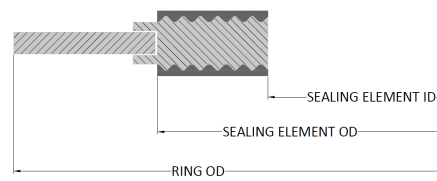
NPS	Class 150 lb		
	Grooved Metal Core		Outer Ring
	D1	D2	D3
26"	26.50	27.75	30.50
28"	28.50	29.75	32.75
30"	30.50	31.75	34.75
32"	32.50	33.88	37.00
34"	34.50	35.88	39.00
36"	36.50	38.13	41.25
38"	38.50	40.13	43.75
40"	40.50	42.13	45.75
42"	42.50	44.25	48.00
44"	44.50	46.38	50.25
46"	46.50	48.38	52.25
48"	48.50	50.38	54.50
50"	50.50	52.50	56.50
52"	52.50	54.50	58.75
54"	54.50	56.50	61.00
56"	56.50	58.50	63.25
58"	58.50	60.50	65.50
60"	60.50	62.50	67.50

NPS	Class 300 lb		
	Grooved Metal Core		Outer Ring
	D1	D2	D3
26"	27.00	29.00	32.88
28"	29.00	31.00	35.38
30"	31.25	33.25	37.50
32"	33.50	35.50	39.63
34"	35.50	37.50	41.63
36"	37.63	39.63	44.00
38"	38.50	40.00	41.50
40"	40.25	42.13	43.88
42"	42.25	44.13	45.88
44"	44.50	46.50	48.00
46"	46.38	48.38	50.13
48"	48.63	50.63	52.13
50"	51.00	53.00	54.25
52"	53.00	55.00	56.25
54"	55.25	57.25	58.75
56"	57.25	59.25	60.75
58"	59.50	61.50	62.75
60"	61.50	63.50	64.75

KAMMPROFILE - KP2 & KP3

DIMENSIONS IN ACCORDANCE WITH

ASME B16.20 - B16.47 SERIES A (INCHES)



NPS	Class 400 lb		
	Grooved Metal Core		Outer Ring
	D1	D2	D3
26"	27.00	29.00	32.75
28"	29.00	31.00	35.13
30"	31.25	33.25	37.25
32"	33.50	35.50	39.50
34"	35.50	37.50	41.50
36"	37.63	39.63	44.00
38"	38.25	40.25	42.25
40"	40.38	42.38	44.38
42"	42.38	44.38	46.38
44"	44.50	46.50	48.50
46"	47.00	49.00	50.75
48"	49.00	51.00	53.00
50"	51.00	53.00	55.25
52"	53.00	55.00	57.25
54"	55.25	57.25	59.75
56"	57.25	59.25	61.75
58"	59.25	61.25	63.75
60"	61.75	63.75	66.25

NPS	Class 600 lb		
	Grooved Metal Core		Outer Ring
	D1	D2	D3
26"	27.00	29.00	34.13
28"	29.00	31.00	36.00
30"	31.25	33.25	38.25
32"	33.50	35.50	40.25
34"	35.50	37.50	42.25
36"	37.63	39.63	44.50
38"	39.00	41.00	43.50
40"	41.25	43.25	45.50
42"	43.50	45.50	48.00
44"	45.75	47.75	50.00
46"	47.75	49.75	52.25
48"	50.00	52.00	54.75
50"	52.00	54.00	57.00
52"	54.00	56.00	59.00
54"	56.25	58.25	61.25
56"	58.25	60.25	63.50
58"	60.50	62.50	65.50
60"	62.75	64.75	68.25

NPS	Class 900 lb		
	Grooved Metal Core		Outer Ring
	D1	D2	D3
26"	27.00	29.00	34.75
28"	29.00	31.00	37.25
30"	31.25	33.25	39.75
32"	33.50	35.50	42.25
34"	35.50	37.50	44.75
36"	37.75	39.75	47.25
38"	40.75	42.75	47.25
40"	43.25	45.25	49.25
42"	45.25	47.25	51.25
44"	47.50	49.50	53.88
46"	50.00	52.00	56.50
48"	52.00	54.00	58.50

Tolerances ASME B16.20 – B16.47 Series A & B

Thickness of core = 0.117" to 0.131"

D1 = NPS 26" through NPS 34" = $\pm 0.03"$

NPS 36" through NPS 60" = $\pm 0.06"$

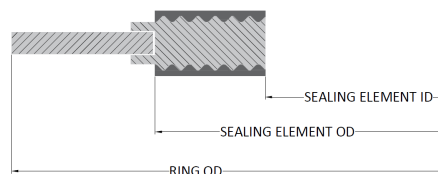
D2 = NPS 26" through NPS 60" = $\pm 0.06"$

D3 = NPS 26" through NPS 60" = $\pm 0.03"$

KAMMPROFILE - KP2 & KP3

DIMENSIONS IN ACCORDANCE WITH

ASME B16.20 - B16.47 SERIES B (INCHES)



NPS	Class 150 lb		
	Grooved Metal Core		Outer Ring
	D1	D2	D3
26"	26.50	27.50	28.56
28"	28.50	29.50	30.56
30"	30.50	31.50	32.56
32"	32.50	33.50	34.69
34"	34.50	35.75	36.81
36"	36.50	37.75	38.88
38"	38.38	39.75	41.13
40"	40.25	41.88	43.13
42"	42.50	43.88	45.13
44"	44.25	45.88	47.13
46"	46.50	48.19	49.44
48"	48.50	50.00	51.44
50"	50.50	52.19	53.44
52"	52.50	54.19	55.44
54"	54.50	56.00	57.63
56"	56.88	58.19	59.63
58"	59.08	60.19	62.19
60"	61.31	62.44	64.19

NPS	Class 300 lb		
	Grooved Metal Core		Outer Ring
	D1	D2	D3
26"	26.50	28.00	30.38
28"	28.50	30.00	32.50
30"	30.50	32.00	34.88
32"	32.50	34.00	37.00
34"	34.50	36.00	39.13
36"	36.50	38.00	41.25
38"	39.75	41.25	43.25
40"	41.75	43.25	45.25
42"	43.75	45.25	47.25
44"	45.75	47.25	49.25
46"	47.88	49.38	51.88
48"	49.75	51.63	53.88
50"	51.88	53.38	55.88
52"	53.88	55.38	57.88
54"	55.25	57.25	60.25
56"	58.25	60.00	62.75
58"	60.44	61.94	65.19
60"	62.56	64.19	67.19

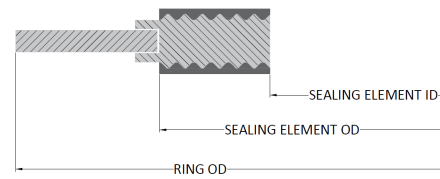
NPS	Class 400 lb		
	Grooved Metal Core		Outer Ring
	D1	D2	D3
26"	26.25	27.50	29.38
28"	28.13	29.50	31.50
30"	30.13	31.75	33.75
32"	32.00	33.88	35.88
34"	34.13	35.88	37.88
36"	36.13	38.00	40.25
38"	38.25	40.25	42.25
40"	40.38	42.38	44.38
42"	42.38	44.38	46.38
44"	44.50	46.50	48.50
46"	47.00	49.00	50.75
48"	49.00	51.00	53.00
50"	51.00	53.00	55.25
52"	53.00	55.00	57.25
54"	55.25	57.25	59.75
56"	57.25	59.25	61.75
58"	59.25	61.25	63.75
60"	61.75	63.75	66.25

NPS	Class 600 lb		
	Grooved Metal Core		Outer Ring
	D1	D2	D3
26"	26.13	28.13	30.13
28"	27.75	29.75	32.25
30"	30.63	32.63	34.63
32"	32.75	34.75	36.75
34"	35.00	37.00	39.25
36"	37.00	39.00	41.25
38"	39.00	41.00	43.50
40"	41.25	43.25	45.50
42"	43.50	45.50	48.00
44"	45.75	47.75	50.00
46"	47.75	49.75	52.25
48"	50.00	52.00	54.75
50"	52.00	54.00	57.00
52"	54.00	56.00	59.00
54"	56.25	58.25	61.25
56"	58.25	60.25	63.50
58"	60.50	62.50	65.50
60"	62.75	64.75	68.25

KAMMPROFILE - KP2 & KP3

DIMENSIONS IN ACCORDANCE WITH

ASME B16.20 - B16.47 SERIES B (INCHES)



NPS	Class 900 lb		
	Grooved Metal Core		Outer Ring
	D1	D2	D3
26"	27.75	29.50	33.00
28"	29.25	31.50	35.50
30"	31.75	33.75	37.75
32"	34.00	36.00	40.00
34"	36.25	38.25	42.25
36"	37.25	39.25	44.25
38"	40.75	42.75	47.25
40"	43.25	45.25	49.25
42"	45.25	47.25	51.25
44"	47.50	49.50	53.88
46"	50.00	52.00	56.50
48"	52.00	54.00	58.50

Tolerances ASME B16.20 – B16.47 Series A & B

Thickness of core = 0.117" to 0.131"

D1 = NPS 26" through NPS 34" = $\pm 0.03"$

NPS 36" through NPS 60" = $\pm 0.06"$

D2 = NPS 26" through NPS 60" = $\pm 0.06"$

D3 = NPS 26" through NPS 60" = $\pm 0.03"$

TORQUE CHART

ASME B16.20 GASKETS - ASME B16.5 FLANGES

KAMMPROFILE GASKETS

CLASS 150 lb			
NPS	Min	Opt	Max
	ft-lbs	ft-lbs	ft-lbs
1/2"	30	34	37
3/4"	40	44	48
1"	40	44	48
1-1/4"	48	53	58
1-1/2"	51	57	63
2"	95	106	117
2-1/2"	103	114	126
3"	126	140	154
4"	111	124	136
5"	171	190	209
6"	200	222	244
8"	226	251	276
10"	277	308	339
12"	323	359	395
14"	417	463	509
16"	417	463	509
18"	589	655	720
20"	589	655	720
24"	841	935	1028

CLASS 300 lb			
NPS	Min	Opt	Max
	ft-lbs	ft-lbs	ft-lbs
1/2"	30	34	37
3/4"	45	51	56
1"	61	67	74
1-1/4"	83	93	102
1-1/2"	136	151	166
2"	88	98	107
2-1/2"	109	121	133
3"	143	159	174
4"	198	220	243
5"	212	236	259
6"	212	236	259
8"	343	381	419
10"	364	404	444
12"	491	546	600
14"	491	546	600
16"	701	779	857
18"	701	779	857
20"	701	779	857
24"	1223	1359	1495

CLASS 400 lb			
NPS	Min	Opt	Max
	ft-lbs	ft-lbs	ft-lbs
1/2"	26	29	32
3/4"	53	59	65
1"	53	59	65
1-1/4"	80	88	97
1-1/2"	122	136	149
2"	68	76	83
2-1/2"	109	121	133
3"	171	190	209
4"	231	257	282
5"	277	308	339
6"	277	308	339
8"	417	463	509
10"	491	546	600
12"	701	779	857
14"	601	668	734
16"	913	1014	1116
18"	913	1014	1116
20"	1223	1359	1495
24"	1662	1847	2032

TORQUE CHART

ASME B16.20 GASKETS - ASME B16.5 FLANGES

KAMMPROFILE GASKETS

CLASS 600 lb			
NPS	Minimum	Optimum	Maximum
	ft-lbs	ft-lbs	ft-lbs
1/2"	26	29	32
3/4"	45	51	56
1"	61	67	74
1-1/4"	80	88	97
1-1/2"	143	159	174
2"	80	88	97
2-1/2"	122	136	149
3"	171	190	209
4"	277	308	339
5"	364	404	444
6"	364	404	444
8"	515	572	629
10"	601	668	734
12"	601	668	734
14"	783	870	957
16"	1048	1165	1281
18"	1474	1638	1802
20"	1474	1638	1802
24"	1814	2015	2217

CLASS 900 lb			
NPS	Minimum	Optimum	Maximum
	ft-lbs	ft-lbs	ft-lbs
1/2"	68	76	83
3/4"	68	76	83
1"	110	122	134
1-1/4"	154	171	188
1-1/2"	198	220	242
2"	132	147	161
2-1/2"	198	220	242
3"	176	196	215
4"	327	364	400
5"	467	519	571
6"	374	416	457
8"	696	773	850
10"	609	676	744
12"	609	676	744
14"	815	906	996
16"	1147	1274	1401
18"	1814	2015	2217
20"	2228	2475	2723
24"	3218	3576	3933

CLASS 1500 lb			
NPS	Minimum	Optimum	Maximum
	ft-lbs	ft-lbs	ft-lbs
1/2"	54	60	66
3/4"	54	60	66
1"	88	98	108
1-1/4"	154	171	188
1-1/2"	231	257	283
2"	154	171	188
2-1/2"	198	220	242
3"	327	364	400
4"	467	519	571
5"	815	906	996
6"	609	676	744
8"	1147	1274	1401
10"	1814	2015	2217
12"	1782	1980	2178
14"	2587	2874	3162
16"	3604	4005	4405
18"	4858	5398	5938
20"	6375	7083	7791
24"	9188	10208	11229

CLASS 2500 lb			
NPS	Minimum	Optimum	Maximum
	ft-lbs	ft-lbs	ft-lbs
1/2"	54	60	66
3/4"	68	76	83
1"	110	122	134
1-1/4"	198	220	242
1-1/2"	281	312	343
2"	198	220	242
2-1/2"	281	312	343
3"	401	445	490
4"	699	776	854
5"	1039	1154	1270
6"	1591	1768	1945
8"	1591	1768	1945
10"	2575	2861	3147
12"	4338	4820	5302

Gasket Style	Kammprofile KP-2 &3
K Factor	0.15 to 0.17
Bolt Grade	B7 - B16

TORQUE CHART

ASME B16.20 - ASME B16.47 SERIES A

KAMMPROFILE GASKETS

CLASS 150 lb			
NPS	Min	Opt	Max
	ft-lbs	ft-lbs	ft-lbs
26"	701	779	857
28"	701	779	857
30"	701	779	857
32"	1223	1359	1495
34"	1223	1359	1495
36"	1223	1359	1495
38"	1223	1359	1495
40"	1223	1359	1495
42"	1223	1359	1495
44"	1223	1359	1495
46"	1223	1359	1495
48"	1223	1359	1495
50"	2182	2424	2667
52"	2182	2424	2667
54"	2182	2424	2667
56"	2182	2424	2667
58"	2182	2424	2667
60"	2182	2424	2667

CLASS 300 lb			
NPS	Min	Opt	Max
	ft-lbs	ft-lbs	ft-lbs
26"	1310	1456	1602
28"	1310	1456	1602
30"	1662	1847	2032
32"	2073	2303	2533
34"	2073	2303	2533
36"	2228	2475	2723
38"	1223	1359	1495
40"	1720	1911	2102
42"	1720	1911	2102
44"	2182	2424	2667
46"	2720	3023	3325
48"	2720	3023	3325
50"	2864	3182	3501
52"	2864	3182	3501
54"	4158	4620	5082
56"	4158	4620	5082
58"	4158	4620	5082
60"	4158	4620	5082

CLASS 400 lb			
NPS	Min	Opt	Max
	ft-lbs	ft-lbs	ft-lbs
26"	1662	1847	2032
28"	2073	2303	2533
30"	2546	2829	3112
32"	2546	2829	3112
34"	2546	2829	3112
36"	2546	2829	3112
38"	1662	1847	2032
40"	2073	2303	2533
42"	2073	2303	2533
44"	2546	2829	3112
46"	2546	2829	3112
48"	3696	4106	4517
50"	3696	4106	4517
52"	3696	4106	4517
54"	4506	5006	5507
56"	4506	5006	5507
58"	4506	5006	5507
60"	6073	6748	7423

CLASS 600 lb			
NPS	Min	Opt	Max
	ft-lbs	ft-lbs	ft-lbs
26"	1814	2015	2217
28"	2228	2475	2723
30"	2228	2475	2723
32"	3234	3593	3952
34"	3234	3593	3952
36"	3862	4291	4720
38"	3234	3593	3952
40"	3234	3593	3952
42"	3862	4291	4720
44"	3862	4291	4720
46"	3862	4291	4720
48"	5205	5784	6362
50"	6830	7589	8348
52"	6830	7589	8348
54"	6830	7589	8348
56"	7300	8111	8922
58"	7300	8111	8922
60"	9188	10208	11229

CLASS 900 lb			
NPS	Min	Opt	Max
	ft-lbs	ft-lbs	ft-lbs
26"	4338	4820	5302
28"	4553	5059	5565
30"	5692	6324	6956
32"	5840	6489	7138
34"	7350	8167	8983
36"	7350	8167	8983
38"	7350	8167	8983
40"	7350	8167	8983
42"	7350	8167	8983
44"	8289	9210	10131
46"	11107	12341	13575
48"	11107	12341	13575

Gasket Style	Kammprofile KP-2 & 3
K Factor	0.15 to 0.17
Bolt Grade	B7 – B16

TORQUE CHART

ASME B16.20 - ASME B16.47 SERIES B

KAMMPROFILE GASKETS

CLASS 150 lb			
NPS	Min	Opt	Max
	ft-lbs	ft-lbs	ft-lbs
26"	421	467	514
28"	421	467	514
30"	421	467	514
32"	466	518	569
34"	611	679	747
36"	713	793	872
38"	815	906	996
40"	815	906	996
42"	815	906	996
44"	815	906	996
46"	917	1019	1121
48"	917	1019	1121
50"	1202	1336	1469
52"	1202	1336	1469
54"	1202	1336	1469
56"	1069	1187	1306
58"	1039	1154	1270
60"	1039	1154	1270

CLASS 300 lb			
NPS	Min	Opt	Max
	ft-lbs	ft-lbs	ft-lbs
26"	1008	1120	1232
28"	1008	1120	1232
30"	1306	1451	1596
32"	1451	1612	1773
34"	1658	1842	2027
36"	1551	1724	1896
38"	1590	1766	1943
40"	1474	1638	1802
42"	1852	2058	2264
44"	1870	2078	2286
46"	2720	3023	3325
48"	3109	3455	3800
50"	2685	2984	3282
52"	2685	2984	3282
54"	4042	4491	4941
56"	4851	5390	5929
58"	3696	4106	4517
60"	4158	4620	5082

CLASS 400 lb			
NPS	Min	Opt	Max
	ft-lbs	ft-lbs	ft-lbs
26"	980	1088	1197
28"	1244	1382	1520
30"	1671	1856	2042
32"	2069	2298	2528
34"	2069	2298	2528
36"	2228	2475	2723
38"	2182	2424	2667
40"	2720	3023	3325
42"	2695	2994	3293
44"	2546	2829	3112
46"	2546	2829	3112
48"	4851	5390	5929
50"	3696	4106	4517
52"	3696	4106	4517
54"	5149	5721	6293
56"	5149	5721	6293
58"	5149	5721	6293
60"	6941	7712	8483

CLASS 600 lb			
NPS	Min	Opt	Max
	ft-lbs	ft-lbs	ft-lbs
26"	1572	1746	1921
28"	1949	2166	2382
30"	2088	2321	2553
32"	2874	3194	3513
34"	3234	3593	3952
36"	3476	3862	4248
38"	3234	3593	3952
40"	3234	3593	3952
42"	4506	5006	5507
44"	4506	5006	5507
46"	4506	5006	5507
48"	5205	5784	6362
50"	6830	7589	8348
52"	6830	7589	8348
54"	6830	7589	8348
56"	8760	9733	10706
58"	8760	9733	10706
60"	11025	12250	13475

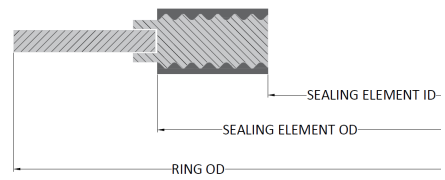
CLASS 900 lb			
NPS	Min	Opt	Max
	ft-lbs	ft-lbs	ft-lbs
26"	3944	4382	4820
28"	5217	5797	6377
30"	5692	6324	6956
32"	6738	7487	8236
34"	6825	7583	8342
36"	6300	7000	7700
38"	7350	8167	8983
40"	7350	8167	8983
42"	7350	8167	8983
44"	8289	9210	10131
46"	11107	12341	13575
48"	11107	12341	13575

Gasket Style	Kammprofile KP-2 & 3
K Factor	0.15 to 0.17
Bolt Grade	B7 – B16

SPECIAL GASKET

KAMMPROFILE KP3-RJ

RAISED FACE TO RTJ FLANGES (INCHES)



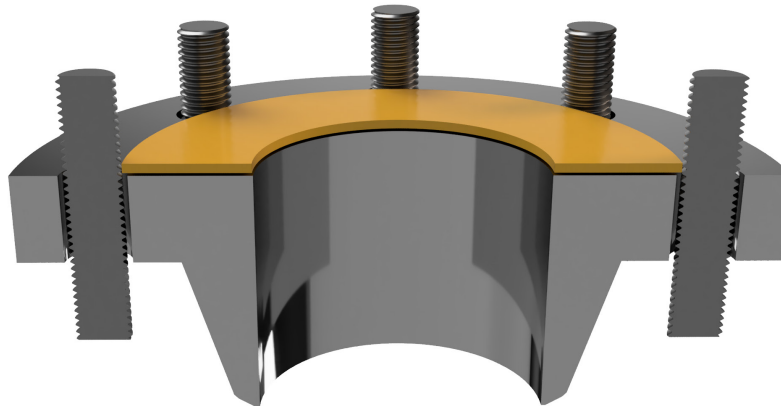
	150lb			300lb			400lb		
	SEALING ELEMENT		OUTER RING	SEALING ELEMENT		OUTER RING	SEALING ELEMENT		OUTER RING
	ID	OD	OD	ID	OD	OD	ID	OD	OD
1/2	NO SIZING			0.56	0.94	2.13	0.56	0.94	2.13
3/4				0.81	1.25	2.63	0.81	1.25	2.63
1	1.13	1.63	2.63	1.06	1.63	2.88	1.06	1.63	2.88
1 1/4	1.38	1.88	3.00	1.31	2.00	3.25	1.31	2.00	3.25
1 1/2	1.63	2.25	3.38	1.56	2.38	3.75	1.56	2.38	3.75
2	2.13	2.88	4.13	2.13	2.75	4.38	2.13	2.75	4.38
2 1/2	2.75	3.31	4.88	2.75	3.31	5.13	2.75	3.31	5.13
3	3.31	3.94	5.38	3.31	3.94	5.88	3.31	3.94	5.88
4	4.31	5.19	6.88	4.31	5.19	7.13	4.31	5.19	7.00
5	5.31	6.19	7.75	5.31	6.44	8.50	5.31	6.44	8.38
6	6.31	7.19	8.75	6.44	7.63	9.88	6.44	7.63	9.75
8	8.25	9.19	11.00	8.25	9.94	12.13	8.25	9.94	12.00
10	10.31	11.44	13.38	10.31	12.00	14.25	10.31	12.00	14.13
12	12.19	13.56	16.13	12.88	14.25	16.63	12.88	14.25	16.50
14	13.44	14.94	17.75	14.25	15.75	19.13	14.25	15.75	19.00
16	15.31	16.94	20.25	16.25	17.75	21.25	16.25	17.75	21.13
18	17.25	19.00	21.63	18.25	20.25	23.50	18.25	20.25	23.38
20	19.13	21.13	23.88	20.25	22.19	25.75	20.25	22.19	25.50
24	23.00	25.25	28.25	24.25	26.31	30.50	24.25	26.31	30.25

	600lb			900lb			1500lb		
	SEALING ELEMENT		OUTER RING	SEALING ELEMENT		OUTER RING	SEALING ELEMENT		OUTER RING
	ID	OD	OD	ID	OD	OD	ID	OD	OD
1/2	0.56	0.94	2.13	0.56	1.06	2.50	0.56	1.06	2.50
3/4	0.81	1.25	2.63	0.81	1.31	2.75	0.81	1.31	2.75
1	1.06	1.63	2.88	1.06	1.63	3.13	1.06	1.63	3.13
1 1/4	1.31	2.00	3.25	1.31	2.00	3.50	1.31	2.00	3.50
1 1/2	1.56	2.38	3.75	1.56	2.38	3.88	1.56	2.38	3.88
2	2.13	2.75	4.38	2.25	3.25	5.63	2.25	3.25	5.63
2 1/2	2.75	3.31	5.13	2.56	3.63	6.50	2.56	3.63	6.50
3	3.31	3.94	5.88	3.19	4.19	6.63	3.19	4.69	6.88
4	4.31	5.19	7.63	4.06	5.19	8.13	4.06	5.69	8.25
5	5.31	6.44	9.50	5.31	6.44	9.75	5.06	6.94	10.00
6	6.44	7.63	10.50	6.31	7.63	11.38	6.00	7.56	11.13
8	8.25	9.94	12.63	8.25	9.94	14.13	7.88	9.75	13.88
10	10.31	12.00	15.75	10.31	12.00	17.13	9.81	11.88	17.13
12	12.88	14.25	18.00	12.88	14.25	19.63	11.94	13.94	20.50
14	14.25	15.75	19.38	13.81	15.56	20.50	13.44	15.19	22.75
16	16.25	17.75	22.25	15.56	17.56	22.63	15.00	17.00	25.25
18	18.25	20.25	24.13	17.69	19.94	25.13	17.25	19.50	27.75
20	20.25	22.19	26.88	19.69	21.94	27.50	19.19	21.44	29.75
24	24.25	26.31	31.13	23.19	25.94	33.00	23.00	25.50	35.50

	2500lb		
	SEALING ELEMENT		OUTER RING
	ID	OD	OD
1/2	0.91	1.31	2.75
3/4	1.13	1.56	3.00
1	1.44	1.87	3.38
1 1/4	1.65	2.25	4.13
1 1/2	2.00	2.63	4.63
2	2.63	3.38	5.75
2 1/2	3.00	3.75	6.63
3	3.38	4.38	7.75
4	4.19	5.38	9.25
5	5.25	6.63	11.00
6	6.10	7.45	12.50
8	8.38	9.88	15.25
10	10.63	12.13	18.75
12	12.88	14.38	21.63

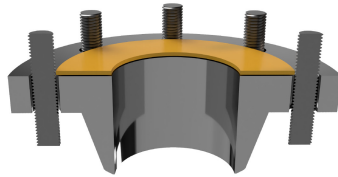
GASKET DIMENSIONS IN ACCORDANCE WITH ASME B16.21 RING GASKET

	INSIDE	OUTSIDE DIAMETER - RING			
	DIA	150 lb	300 lb	400 lb	600 lb
1/2"	0.84	1.88	2.12	2.12	2.12
3/4"	1.06	2.25	2.62	2.62	2.62
1"	1.31	2.62	2.88	2.88	2.88
1-1/4"	1.66	3.00	3.25	3.25	3.25
1-1/2"	1.91	3.38	3.75	3.75	3.75
2"	2.38	4.12	4.38	4.38	4.38
2-1/2"	2.88	4.88	5.12	5.12	5.12
3"	3.50	5.38	5.88	5.88	5.88
3-1/2"	4.00	6.38	6.50	6.38	6.38
4"	4.50	6.88	7.12	7.00	7.62
5"	5.56	7.75	8.50	8.38	9.50
6"	6.62	8.75	9.88	9.75	10.50
8"	8.62	11.00	12.12	12.00	12.62
10"	10.75	13.38	14.25	14.12	15.75
12"	12.75	16.13	16.62	16.50	18.00
14"	14.00	17.75	19.12	19.00	19.38
16"	16.00	20.25	21.25	21.12	22.25
18"	18.00	21.62	23.50	23.38	24.12
20"	20.00	23.88	25.75	25.50	26.88
24"	24.00	28.25	30.50	30.25	31.12



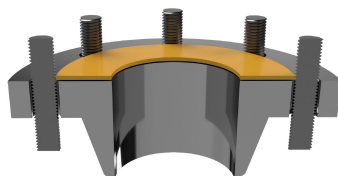
GASKET DIMENSIONS IN ACCORDANCE WITH ASME B16.21 - ASME B16.47 SERIES A&B RING GASKET

ASME B16.47 SERIES A



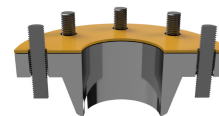
	INSIDE	OUTSIDE DIAMETER - RING			
	DIA	150 lb	300 lb	400 lb	600 lb
26"	26.00	30.50	32.88	32.75	34.12
28"	28.00	32.75	35.38	35.12	36.00
30"	30.00	34.75	37.50	37.25	38.25
32"	32.00	37.00	39.62	39.50	40.25
34"	34.00	39.00	41.62	41.50	42.25
36"	36.00	41.25	44.00	44.00	44.50
38"	38.00	43.75	41.50	42.25	43.50
40"	40.00	45.75	43.88	44.38	45.50
42"	42.00	48.00	45.88	46.38	48.00
44"	44.00	50.25	48.00	48.50	50.00
46"	46.00	52.25	50.12	50.75	52.25
48"	48.00	54.50	52.12	53.00	54.75
50"	50.00	56.50	54.25	55.25	57.00
52"	52.00	58.50	56.25	57.25	59.00
54"	54.00	61.00	58.75	59.75	61.25
56"	56.00	63.25	60.75	61.75	63.50
58"	58.00	65.50	62.75	63.75	65.50
60"	60.00	67.50	64.75	66.25	67.75

ASME B16.47 SERIES B



	INSIDE	OUTSIDE DIAMETER - RING				
	DIA	75 lb	150 lb	300 lb	400 lb	600 lb
26"	26.00	27.88	28.56	30.38	29.38	30.12
28"	28.00	29.88	30.56	32.50	31.50	32.25
30"	30.00	31.88	32.56	34.88	33.75	34.62
32"	32.00	33.88	34.69	37.00	35.88	36.75
34"	34.00	35.88	36.81	39.12	37.88	39.25
36"	36.00	38.31	38.88	41.25	40.25	41.25
38"	38.00	40.31	41.12	43.25		
40"	40.00	42.31	43.12	45.25		
42"	42.00	44.31	45.12	47.25		
44"	44.00	46.50	47.12	49.25		
46"	46.00	48.50	49.44	51.88		
48"	48.00	50.50	51.44	53.88		
50"	50.00	52.50	53.44	55.88		
52"	52.00	54.62	55.44	57.88		
54"	54.00	56.62	57.62	60.25		
56"	56.00	58.88	59.62	62.75		
58"	58.00	60.88	62.19	65.19		
60"	60.00	62.88	64.19	67.12		

GASKET DIMENSIONS IN ACCORDANCE WITH ASME B16.21 FULL FACE GASKET



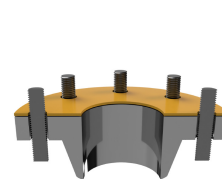
150 lb				
NPS	OD	No Bolts	Hole Dia	BCD
1/2"	3.50	4	0.63	2.38
3/4"	3.88	4	0.63	2.75
1"	4.25	4	0.63	3.12
1-1/4"	4.62	4	0.63	3.50
1-1/2"	5.00	4	0.63	3.88
2"	6.00	4	0.75	4.75
2-1/2"	7.00	4	0.75	5.50
3"	7.50	4	0.75	6.00
3-1/2"	8.50	8	0.75	7.00
4"	9.00	8	0.75	7.50
5"	10.00	8	0.88	8.50
6"	11.00	8	0.88	9.50
8"	13.50	8	0.88	11.75
10"	16.00	12	1.00	14.25
12"	19.00	12	1.00	17.00
14"	21.00	12	1.12	18.75
16"	23.50	16	1.12	21.25
18"	25.00	16	1.25	22.75
20"	27.50	20	1.25	25.00
24"	32.00	20	1.38	29.50

300 lb				
NPS	OD	No Bolts	Hole Dia	BCD
1/2"	3.75	4	0.63	2.62
3/4"	4.62	4	0.75	3.25
1"	4.88	4	0.75	3.50
1-1/4"	5.25	4	0.75	3.88
1-1/2"	6.12	4	0.88	4.50
2"	6.50	8	0.75	5.00
2-1/2"	7.50	8	0.88	5.88
3"	8.25	8	0.88	6.62
3-1/2"	9.00	8	0.88	7.25
4"	10.00	8	0.88	7.88
5"	11.00	8	0.88	9.25
6"	12.50	12	0.88	10.62
8"	15.00	12	1.00	13.00
10"	17.50	16	1.12	15.25
12"	20.50	16	1.25	17.75
14"	23.00	20	1.25	20.25
16"	25.50	20	1.38	22.50
18"	28.00	24	1.38	24.75
20"	30.50	24	1.38	27.00
24"	36.00	24	1.63	32.00

400 lb				
NPS	OD	No Bolts	Hole Dia	BCD
1/2"	3.75	4	0.63	2.62
3/4"	4.62	4	0.75	3.25
1"	4.88	4	0.75	3.50
1-1/4"	5.25	4	0.75	3.88
1-1/2"	6.12	4	0.88	4.50
2"	6.50	8	0.75	5.00
2-1/2"	7.50	8	0.88	5.88
3"	8.25	8	0.88	6.62
3-1/2"	9.00	8	1.00	7.25
4"	10.00	8	1.00	7.88
5"	11.00	8	1.00	9.25
6"	12.50	12	1.00	10.62
8"	15.00	12	1.12	13.00
10"	17.50	16	1.25	15.25
12"	20.50	16	1.38	17.75
14"	23.00	20	1.38	20.25
16"	25.50	20	1.50	22.50
18"	28.00	24	1.50	24.75
20"	30.50	24	1.62	27.00
24"	36.00	24	1.88	32.00

600 lb				
NPS	OD	No Bolts	Dia Bolts	BCD
1/2"	3.75	4	0.63	2.62
3/4"	4.62	4	0.75	3.25
1"	4.88	4	0.75	3.50
1-1/4"	5.25	4	0.75	3.88
1-1/2"	6.12	4	0.88	4.50
2"	6.50	8	0.75	5.00
2-1/2"	7.50	8	0.88	5.88
3"	8.25	8	0.88	6.62
3-1/2"	9.00	8	1.00	7.25
4"	10.75	8	1.00	8.50
5"	13.00	8	1.12	10.50
6"	14.00	12	1.12	11.50
8"	16.50	12	1.25	13.75
10"	20.00	16	1.38	17.00
12"	22.00	20	1.38	19.25
14"	23.75	20	1.50	20.75
16"	27.00	20	1.63	23.75
18"	29.25	20	1.75	25.75
20"	32.00	24	1.75	28.50
24"	37.00	24	2.00	33.00

GASKET DIMENSIONS IN ACCORDANCE WITH ASME B16.21 - ASME B16.47 SERIES A FULL FACE GASKET



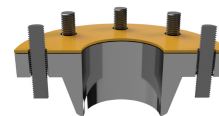
150 lb				
NPS	OD	No Bolts	Hole Dia	BCD
26"	34.25	24	1.38	31.75
28"	36.50	28	1.38	34.00
30"	38.75	28	1.38	36.00
32"	41.75	28	1.62	38.50
34"	43.75	32	1.62	40.50
36"	46.00	32	1.62	42.75
38"	48.75	32	1.62	45.25
40"	50.75	36	1.62	47.25
42"	53.00	36	1.62	49.50
44"	55.25	40	1.62	51.75
46"	57.25	40	1.62	53.75
48"	59.50	44	1.62	56.00
50"	61.75	44	1.88	58.25
52"	64.00	44	1.88	60.50
54"	66.25	44	1.88	62.75
56"	68.75	48	1.88	65.00
58"	71.00	48	1.88	67.25
60"	73.00	52	1.88	69.25

300 lb				
NPS	OD	No Bolts	Hole Dia	BCD
26"	38.25	28	1.75	34.50
28"	40.75	28	1.75	37.00
30"	43.00	28	1.88	39.25
32"	45.25	28	2.00	41.50
34"	47.50	28	2.00	43.50
36"	50.00	32	2.12	46.00
38"	46.00	32	1.62	43.00
40"	48.75	32	1.75	45.50
42"	50.75	32	1.75	47.50
44"	53.25	32	1.88	49.75
46"	55.75	28	2.00	52.00
48"	57.75	32	2.00	54.00
50"	60.25	32	2.12	56.25
52"	62.25	32	2.12	58.25
54"	65.25	28	2.38	61.00
56"	67.25	28	2.38	63.00
58"	69.25	32	2.38	65.00
60"	71.25	32	2.38	67.00

400 lb				
NPS	OD	No Bolts	Hole Dia	BCD
26"	38.25	28	1.88	34.50
28"	40.75	28	2.00	37.00
30"	43.00	28	2.12	39.25
32"	45.25	28	2.12	41.50
34"	47.50	28	2.12	43.50
36"	50.00	32	2.12	46.00
38"	47.50	32	1.88	44.00
40"	50.00	32	2.00	46.25
42"	52.00	32	2.00	48.25
44"	54.50	32	2.12	50.50
46"	56.75	36	2.12	52.75
48"	59.50	28	2.38	55.25
50"	61.75	32	2.38	57.50
52"	63.75	32	2.38	59.50
54"	67.00	28	2.62	62.25
56"	69.00	32	2.62	64.25
58"	71.00	32	2.62	66.25
60"	74.25	32	2.88	69.00

600 lb				
NPS	OD	No Bolts	Hole Dia	BCD
26"	40.00	28	2.00	36.00
28"	42.25	28	2.12	38.00
30"	44.50	28	2.12	40.25
32"	47.00	28	2.38	42.50
34"	49.00	28	2.38	44.50
36"	51.75	28	2.62	47.00
38"	50.00	28	2.38	45.75
40"	52.00	32	2.38	47.75
42"	55.25	28	2.62	50.50
44"	57.25	32	2.62	52.50
46"	59.50	32	2.62	54.75
48"	62.75	32	2.88	57.50
50"	65.75	28	3.12	60.00
52"	67.75	32	3.12	62.00
54"	70.00	32	3.12	64.25
56"	73.00	32	3.38	66.75
58"	75.00	32	3.38	68.75
60"	78.50	28	3.62	71.75

GASKET DIMENSIONS IN ACCORDANCE WITH ASME B16.21 - ASME B16.47 SERIES B FULL FACE GASKET



150 lb				
NPS	OD	No Bolts	Hole Dia	BCD
26"	30.94	36	0.88	29.31
28"	32.94	40	0.88	31.31
30"	34.94	44	0.88	33.31
32"	37.06	48	0.88	35.44
34"	39.56	40	1.00	37.69
36"	41.62	44	1.00	39.75
38"	44.25	40	1.12	42.12
40"	46.25	44	1.12	44.12
42"	48.25	48	1.12	46.12
44"	50.25	52	1.12	48.12
46"	52.81	40	1.25	50.56
48"	54.81	44	1.25	52.56
50"	56.81	48	1.25	54.56
52"	58.81	52	1.25	56.56
54"	61.00	56	1.25	58.75
56"	63.00	60	1.25	60.75
58"	65.94	48	1.38	63.44
60"	67.94	52	1.38	65.44

300 lb				
NPS	OD	No Bolts	Hole Dia	BCD
26"	34.12	32	1.38	31.62
28"	36.25	36	1.38	33.75
30"	39.00	36	1.50	36.25
32"	41.50	32	1.62	38.50
34"	43.62	36	1.62	40.62
36"	46.12	32	1.75	42.88
38"	48.12	36	1.75	44.88
40"	50.12	40	1.75	46.88
42"	52.50	36	1.88	49.00
44"	54.50	40	1.88	51.00
46"	57.50	36	2.00	53.75
48"	59.50	40	2.00	55.75
50"	61.50	44	2.00	57.75
52"	63.50	48	2.00	59.75
54"	65.88	48	2.00	62.12
56"	69.50	36	2.38	65.00
58"	71.94	40	2.38	67.44
60"	73.94	40	2.38	69.44

400 lb				
NPS	OD	No Bolts	Hole Dia	BCD
26"	33.50	28	1.50	30.75
28"	36.00	24	1.62	33.00
30"	38.25	28	1.62	35.25
32"	40.75	28	1.75	37.50
34"	42.75	32	1.75	39.50
36"	45.50	28	1.88	42.00
38"				
40"				
42"				
44"				
46"				
48"				
50"				
52"				
54"				
56"				
58"				
60"				

600 lb				
NPS	OD	No Bolts	Hole Dia	BCD
26"	35.00	28	1.75	31.75
28"	37.50	28	1.88	34.00
30"	40.25	28	2.00	36.50
32"	42.75	28	2.12	38.75
34"	45.75	24	2.38	41.50
36"	47.75	28	2.38	43.50
38"				
40"				
42"				
44"				
46"				
48"				
50"				
52"				
54"				
56"				
58"				
60"				

NOTES

This image shows a full page of blank graph paper. The grid consists of small, equal-sized squares formed by thin, dark lines. There are 20 columns and 20 rows of squares, creating a total of 400 square units. The paper is otherwise completely empty, with no margins, text, or other markings.

Gasket Product Range

SPIRALWOUND GASKETS

STYLE	DESCRIPTION
S	SPIRAL ONLY
SI	SPIRAL WITH INNER RING
GS	SPIRAL AND OUTER RING
GSI	SPIRAL WITH INNER AND OUTER RING
GSI-LL	LOW LOAD SPIRAL WITH INNER AND OUTER RING
GSI-HF	SPIRAL FOR HF TYPE APPLICATIONS
S, SI, GSI-HTG	HIGH TEMPERATURE APPLICATIONS MICA/FG/MICA
S, SI, GSI-HTG VRM	HIGH TEMPERATURE APPLICATIONS MICA/VERMICULITE/MICA
S, SI, GSI-VRM	HIGH TEMPERATURE APPLICATIONS VERMICULITE
GSI / GS – KP-3 RJ	SPIRAL TO SEAL DAMAGED RTJ GROOVES – RF TO RTJ FLANGES
MW / MWI	SPIRAL FOR BOILER DOOR APPLICATIONS

THE EXTRA RECOVERY GASKET

STYLE	DESCRIPTION
XRG	EXTRA RECOVERY GASKET
XRG-O	EXTRA RECOVERY GASKET – OUTER RING
XRG-HTG	HIGH TEMPERATURE APPLICATIONS MICA/FG/MICA
XRG-HTG VRM	HIGH TEMPERATURE APPLICATIONS MICA/VERMICULITE/MICA
XRG-VRM	HIGH TEMPERATURE APPLICATIONS VERMICULITE

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KAMMPROFILE GASKETS

STYLE	DESCRIPTION
KP-1	KAMMPROFILE RING FOR HEAT EXCHANGER APPLICATIONS
KP-2	KAMMPROFILE WITH AN INTEGRAL OUTER RING
KP-3	KAMMPROFILE WITH LOOSE FITTING OUTER RING
KP-1,2,3 HTG	HIGH TEMPERATURE APPLICATIONS MICA/FG/MICA
KP-1,2,3 HTG-VRM	HIGH TEMPERATURE APPLICATIONS MICA/VERMICULITE/MICA
KP-1,2,3 VRM	HIGH TEMPERATURE APPLICATIONS VERMICULITE

CORRUGATED METAL GASKETS

STYLE	DESCRIPTION
CMS	CORRUGATED FOR STANDARD SIZED FLANGES
CMH	CORRUGATED FOR HEAT EXCHANGERS

DOUBLE JACKETED

STYLE	DESCRIPTION
DJS	DJ FOR STANDARD SIZED FLANGES
DJH	DJ FOR HEAT EXCHANGERS

OTHER SEALING PRODUCTS

PTFE SHEET IN VARIOUS FORMS

NON-ASBESTOS SHEET – NA-3S

GRAPHITE SHEET – STYLE GF & GT