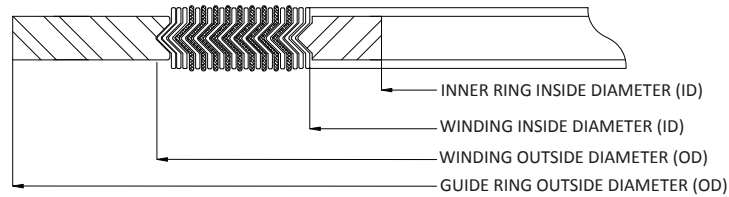


DIMENSIONS FOR STYLE WRI PER ASME B16.20
TO SUIT ASME B16.5 FLANGES



Nominal Pipe Size (NPS)	Class 150							
	Inner Ring Inside Diameter (ID)		Winding Inside Diameter (ID)		Winding Outside Diameter (OD)		Guide Ring Outside Diameter (OD)	
	Inches	mm	Inches	mm	Inches	mm	Inches	mm
1/4*	-	-	0.50	12.7	0.88	22.2	1.75	44.5
1/2	0.56	14.2	0.75	19.1	1.25	31.8	1.88	47.6
3/4	0.81	20.6	1.00	25.4	1.56	39.7	2.25	57.2
1	1.06	26.9	1.25	31.8	1.88	47.6	2.63	66.7
1 1/4	1.50	38.1	1.88	47.6	2.38	60.3	3.00	76.2
1 1/2	1.75	44.5	2.13	54.0	2.75	69.9	3.38	85.7
2	2.19	55.6	2.75	69.9	3.38	85.7	4.13	104.8
2 1/2	2.62	66.5	3.25	82.6	3.88	98.4	4.88	123.8
3	3.19	81.0	4.00	101.6	4.75	120.7	5.38	136.5
3 1/2*	3.50	88.9	4.50	114.3	5.25	133.4	6.38	161.9
4	4.19	106.4	5.00	127.0	5.88	149.2	6.88	174.6
5	5.19	131.8	6.13	155.6	7.00	177.8	7.75	196.9
6	6.19	157.2	7.19	182.6	8.25	209.6	8.75	222.3
8	8.50	215.9	9.19	233.4	10.38	263.5	11.00	279.4
10	10.56	268.2	11.31	287.3	12.50	317.5	13.38	339.7
12	12.50	317.5	13.38	339.7	14.75	374.7	16.13	409.6
14	13.75	349.3	14.63	371.5	16.00	406.4	17.75	450.9
16	15.75	400.1	16.63	422.3	18.25	463.6	20.25	514.4
18	17.69	449.3	18.69	474.7	20.75	527.1	21.63	549.3
20	19.69	500.1	20.69	525.5	22.75	577.9	23.88	606.4
24	23.75	603.3	24.75	628.7	27.00	685.8	28.25	717.6

*Not Listed in ASME B16.20

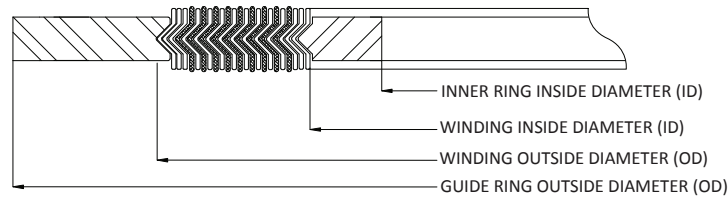
DOUBLE COLOR CODING FOR SPIRASEAL® GASKETS PER ASME B16.20

METALLIC WINDINGS

NON-METALLIC FILLERS

304 SS	Yellow	Incoloy 800/825	White	PTFE	White Stripe
316L SS	Green	Titanium	Purple	Ceramic	Light Green Stripe
317L SS	Maroon	Alloy 20	Black	Flexible Graphite	Gray Stripe
347 SS	Blue	Carbon Steel	Silver	Phyllosilicate (HTG)	Light Blue Stripe
321 SS	Turquoise	Hastelloy® "B"	Brown		
Monel®	Orange	Hastelloy® "C"	Beige		
Inconel® 600/625	Gold	Phos. Bronze	Copper		
Nickel	Red				

DIMENSIONS FOR STYLE WRI PER ASME B16.20
TO SUIT ASME B16.5 FLANGES

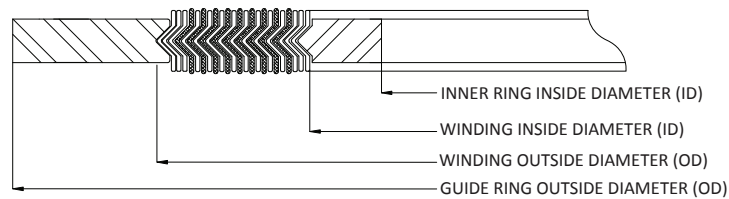


Nominal Pipe Size (NPS)	Class 300							
	Inner Ring Inside Diameter (ID)		Winding Inside Diameter (ID)		Winding Outside Diameter (OD)		Guide Ring Outside Diameter (OD)	
	Inches	mm	Inches	mm	Inches	mm	Inches	mm
1/4*	-	-	0.50	12.7	0.88	22.2	1.75	44.5
1/2	0.56	14.2	0.75	19.1	1.25	31.8	2.13	54.0
3/4	0.81	20.6	1.00	25.4	1.56	39.7	2.63	66.7
1	1.06	26.9	1.25	31.8	1.88	47.6	2.88	73.0
1 1/4	1.50	38.1	1.88	47.6	2.38	60.3	3.25	82.6
1 1/2	1.75	44.5	2.13	54.0	2.75	69.9	3.75	95.3
2	2.19	55.6	2.75	69.9	3.38	85.7	4.38	111.1
2 1/2	2.62	66.5	3.25	82.6	3.88	98.4	5.13	130.2
3	3.19	81.0	4.00	101.6	4.75	120.7	5.88	149.2
3 1/2*	3.50	88.9	4.50	114.3	5.25	133.4	6.50	165.1
4	4.19	106.4	5.00	127.0	5.88	149.2	7.13	181.0
5	5.19	131.8	6.13	155.6	7.00	177.8	8.50	215.9
6	6.19	157.2	7.19	182.6	8.25	209.6	9.88	250.8
8	8.50	215.9	9.19	233.4	10.38	263.5	12.13	308.0
10	10.56	268.2	11.31	287.3	12.50	317.5	14.25	362.0
12	12.50	317.5	13.38	339.7	14.75	374.7	16.63	422.3
14	13.75	349.3	14.63	371.5	16.00	406.4	19.13	485.8
16	15.75	400.1	16.63	422.3	18.25	463.6	21.25	539.8
18	17.69	449.3	18.69	474.7	20.75	527.1	23.50	596.9
20	19.69	500.1	20.69	525.5	22.75	577.9	25.75	654.1
24	23.75	603.3	24.75	628.7	27.00	685.8	30.50	774.7

Nominal Pipe Size (NPS)	Class 400							
	Inner Ring Inside Diameter (ID)		Winding Inside Diameter (ID)		Winding Outside Diameter (OD)		Guide Ring Outside Diameter (OD)	
	Inches	mm	Inches	mm	Inches	mm	Inches	mm
1/4*	-	-	0.50	12.7	0.88	22.2	1.75	44.5
1/2	0.56	14.2	0.75	19.1	1.25	31.8	2.13	54.0
3/4	0.81	20.6	1.00	25.4	1.56	39.7	2.63	66.7
1	1.06	26.9	1.25	31.8	1.88	47.6	2.88	73.0
1 1/4	1.50	38.1	1.88	47.6	2.38	60.3	3.25	82.6
1 1/2	1.75	44.5	2.13	54.0	2.75	69.9	3.75	95.3
2	2.19	55.6	2.75	69.9	3.38	85.7	4.38	111.1
2 1/2	2.62	66.5	3.25	82.6	3.88	98.4	5.13	130.2
3	3.19	81.0	4.00	101.6	4.75	120.7	5.88	149.2
3 1/2*	3.50	88.9	4.13	104.8	5.25	133.4	6.38	161.9
4	4.04	102.6	4.75	120.7	5.88	149.2	7.00	177.8
5	5.05	128.3	5.81	147.6	7.00	177.8	8.38	212.7
6	6.10	154.9	6.88	174.6	8.25	209.6	9.75	247.7
8	8.10	205.7	8.88	225.4	10.38	263.5	12.00	304.8
10	10.05	255.3	10.81	274.6	12.50	317.5	14.13	358.8
12	12.10	307.3	12.88	327.0	14.75	374.7	16.50	419.1
14	13.50	342.9	14.25	362.0	16.00	406.4	19.00	482.6
16	15.35	389.9	16.25	412.8	18.25	463.6	21.13	536.6
18	17.25	438.2	18.50	469.9	20.75	527.1	23.38	593.7
20	19.25	489.0	20.50	520.7	22.75	577.9	25.50	647.7
24	23.25	590.6	24.75	628.7	27.00	685.8	30.25	768.4

*Not Listed in ASME B16.20

**DIMENSIONS FOR STYLE WRI PER ASME B16.20
TO SUIT ASME B16.5 FLANGES**

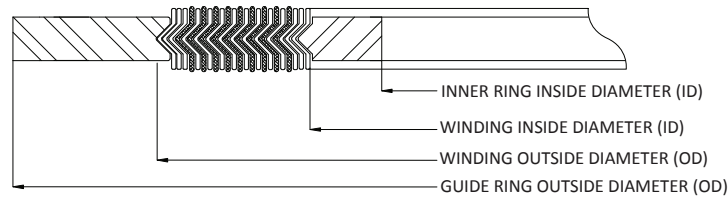


Nominal Pipe Size (NPS)	Class 600							
	Inner Ring Inside Diameter (ID)		Winding Inside Diameter (ID)		Winding Outside Diameter (OD)		Guide Ring Outside Diameter (OD)	
	Inches	mm	Inches	mm	Inches	mm	Inches	mm
1/4*	-	-	0.50	12.7	0.88	22.2	1.75	44.5
1/2	0.56	14.2	0.75	19.1	1.25	31.8	2.13	54.0
3/4	0.81	20.6	1.00	25.4	1.56	39.7	2.63	66.7
1	1.06	26.9	1.25	31.8	1.88	47.6	2.88	73.0
1 1/4	1.50	38.1	1.88	47.6	2.38	60.3	3.25	82.6
1 1/2	1.75	44.5	2.13	54.0	2.75	69.9	3.75	95.3
2	2.19	55.6	2.75	69.9	3.38	85.7	4.38	111.1
2 1/2	2.62	66.5	3.25	82.6	3.88	98.4	5.13	130.2
3	3.19	81.0	4.00	101.6	4.75	120.7	5.88	149.2
3 1/2	3.50	88.9	4.13	104.8	5.25	133.4	6.38	161.9
4	4.04	102.6	4.75	120.7	5.88	149.2	7.63	193.7
5	5.05	128.3	5.81	147.6	7.00	177.8	9.50	241.3
6	6.10	154.9	6.88	174.6	8.25	209.6	10.50	266.7
8	8.10	205.7	8.88	225.4	10.38	263.5	12.63	320.7
10	10.05	255.3	10.81	274.6	12.50	317.5	15.75	400.1
12	12.10	307.3	12.88	327.0	14.75	374.7	18.00	457.2
14	13.50	342.9	14.25	362.0	16.00	406.4	19.38	492.1
16	15.35	389.9	16.25	412.8	18.25	463.6	22.25	565.2
18	17.25	438.2	18.50	469.9	20.75	527.1	24.13	612.8
20	19.25	489.0	20.50	520.7	22.75	577.9	26.88	682.6
24	23.25	590.6	24.75	628.7	27.00	685.8	31.13	790.6

Nominal Pipe Size (NPS)	Class 900							
	Inner Ring Inside Diameter (ID)		Winding Inside Diameter (ID)		Winding Outside Diameter (OD)		Guide Ring Outside Diameter (OD)	
	Inches	mm	Inches	mm	Inches	mm	Inches	mm
1/4*	-	-	-	-	-	-	-	-
1/2	0.56	14.2	0.75	19.1	1.25	31.8	2.50	63.5
3/4	0.81	20.6	1.00	25.4	1.56	39.7	2.75	69.9
1	1.06	26.9	1.25	31.8	1.88	47.6	3.13	79.4
1 1/4	1.31	33.3	1.56	39.7	2.38	60.3	3.50	88.9
1 1/2	1.63	41.4	1.88	47.6	2.75	69.9	3.88	98.4
2	2.06	52.3	2.31	58.7	3.38	85.7	5.63	142.9
2 1/2	2.50	63.5	2.75	69.9	3.88	98.4	6.50	165.1
3	3.10	78.7	3.75	95.3	4.75	120.7	6.63	168.3
3 1/2*	3.50	88.9	4.13	104.8	5.25	133.4	7.50	190.5
4	4.04	102.6	4.75	120.7	5.88	149.2	8.13	206.4
5	5.05	128.3	5.81	147.6	7.00	177.8	9.75	247.7
6	6.10	154.9	6.88	174.6	8.25	209.6	11.38	288.9
8	7.75	196.9	8.75	222.3	10.13	257.2	14.13	358.8
10	9.69	246.1	10.88	276.2	12.25	311.2	17.13	435.0
12	11.50	292.1	12.75	323.9	14.50	368.3	19.63	498.5
14	12.63	320.8	14.00	355.6	15.75	400.1	20.50	520.7
16	14.75	374.7	16.25	412.8	18.00	457.2	22.63	574.7
18	16.75	425.5	18.25	463.6	20.50	520.7	25.13	638.2
20	19.00	482.6	20.50	520.7	22.50	571.5	27.50	698.5
24	23.25**	590.6	24.75	628.7	26.75	679.5	33.00	838.2

*Not Listed in ASME B16.20 ** Inner rings are required

**DIMENSIONS FOR STYLE WRI PER ASME B16.20
TO SUIT ASME B16.5 FLANGES**



Nominal Pipe Size (NPS)	Class 1500							
	Inner Ring Inside Diameter (ID)		Winding Inside Diameter (ID)		Winding Outside Diameter (OD)		Guide Ring Outside Diameter (OD)	
	Inches	mm	Inches	mm	Inches	mm	Inches	mm
1/4*	-	-	-	-	-	-	-	-
1/2	0.56	14.2	0.75	19.1	1.25	31.8	2.50	63.5
3/4	0.81	20.6	1.00	25.4	1.56	39.7	2.75	69.9
1	1.06	26.9	1.25	31.8	1.88	47.6	3.13	79.4
1 1/4	1.31	33.3	1.56	39.7	2.38	60.3	3.50	88.9
1 1/2	1.63	41.4	1.88	47.6	2.75	69.9	3.88	98.4
2	2.06	52.3	2.31	58.7	3.38	85.7	5.63	142.9
2 1/2	2.50	63.5	2.75	69.9	3.88	98.4	6.50	165.1
3	3.10	78.7	3.63	92.1	4.75	120.7	6.88	174.6
3 1/2*	3.50	88.9	4.13	104.8	5.25	133.4	7.38	187.3
4	3.85	97.8	4.63	117.5	5.88	149.2	8.25	209.6
5	4.90	124.5	5.63	142.9	7.00	177.8	10.00	254.0
6	5.80	147.3	6.75	171.5	8.25	209.6	11.13	282.6
8	7.75	196.9	8.50	215.9	10.13	257.2	13.88	352.4
10	9.69	246.1	10.50	266.7	12.25	311.2	17.13	435.0
12	11.50**	292.1**	12.75	323.9	14.50	368.3	20.50	520.7
14	12.63**	320.8**	14.25	362.0	15.75	400.1	22.75	577.9
16	14.50**	368.3**	16.00	406.4	18.00	457.2	25.25	641.4
18	16.75**	425.5**	18.25	463.6	20.50	520.7	27.75	704.9
20	18.75**	476.3**	20.25	514.4	22.50	571.5	29.75	755.7
24	22.75**	577.9**	24.25	616.0	26.75	679.5	35.50	901.7

Nominal Pipe Size (NPS)	Class 2500							
	Inner Ring Inside Diameter (ID)		Winding Inside Diameter (ID)		Winding Outside Diameter (OD)		Guide Ring Outside Diameter (OD)	
	Inches	mm	Inches	mm	Inches	mm	Inches	mm
1/4*	-	-	-	-	-	-	-	-
1/2	0.56	14.2	0.75	19.1	1.25	31.8	2.75	69.9
3/4	0.81	20.6	1.00	25.4	1.56	39.7	3.00	76.2
1	1.06	26.9	1.25	31.8	1.88	47.6	3.38	85.7
1 1/4	1.31	33.3	1.56	39.7	2.38	60.3	4.13	104.8
1 1/2	1.63	41.4	1.88	47.6	2.75	69.9	4.63	117.5
2	2.06	52.3	2.31	58.7	3.38	85.7	5.75	146.1
2 1/2	2.50	63.5	2.75	69.9	3.88	98.4	6.63	168.3
3	3.10	78.7	3.63	92.1	4.75	120.7	7.75	196.9
3 1/2*	3.50	88.9	-	-	-	-	-	-
4	3.85**	97.8**	4.63	117.5	5.88	149.2	9.25	235.0
5	4.90**	124.5**	5.63	142.9	7.00	177.8	11.00	279.4
6	5.80**	147.3**	6.75	171.5	8.25	209.6	12.50	317.5
8	7.75**	196.9**	8.50	215.9	10.13	257.2	15.25	387.4
10	9.69**	246.1**	10.63	269.9	12.25	311.2	18.75	476.3
12	11.50**	292.1**	12.50	317.5	14.50	368.3	21.63	549.3

*Not Listed in ASME B16.20 ** Inner rings are required

**SPIRAL-WOUND WR/WRI TOLERANCES
PER ASME B16.20 SPECIFICATIONS**

- The winding thickness: $\pm 0.005"$ (0.13 mm) measured across the metallic portion of the winding not including the filler.
- The winding outside diameter
 - o NPS ½ through NPS 8 is $\pm 1/32"$ (± 0.8 mm)
 - o NPS 10 through NPS 24 is $\pm 1/16"$, $- 1/32"$ (+1.5 mm, -0.8 mm)
- The winding inside diameter
 - o NPS ½ through NPS 8 is $\pm 1/64"$ (± 0.4 mm)
 - o NPS 10 through NPS 24 is $\pm 1/32"$ (± 0.8 mm)
- The guide ring outside diameter: $\pm 1/32"$ (± 0.8 mm)
- The guide ring and inner thickness shall be from 0.117" (2.97 mm) to 0.131" (3.33 mm)
- The inner ring inside diameter:
 - o NPS ½ through 3 is $\pm 1/32"$ (± 0.8 mm)
 - o NPS 4 through 24 is $\pm 1/16"$ (± 1.5 mm)

**TABLE FOR MINIMUM PIPE WALL THICKNESS THAT IS SUITABLE
FOR USE WITH STANDARD INNER RINGS PER THE ASME B16.20**

Nominal Pipe Size (NPS)	Pressure Class						
	150	300	400	600	900	1500	2500
1/2	Schedule 80						
3/4							
1							
1 1/4	Schedule 40						
1 1/2							
2							
2 1/2							
3							
3 1/2*							
4							
5						Schedule 80	
6							
8							
10	Schedule 10S	Schedule 30	Schedule 80				
12							
14							
16							
18							
20							
24							

General Notes per ASME B16.20:

- The pipe wall schedules identified represent the minimum pipe wall thickness suitable for use with inner rings for ASME B16.5 flanges (reference ASME B 36.10M and B36.19M).
- Gasket with inner rings should be used only with socket welding, lapped, welding neck, and integral flanges.

* Not Listed in ASME B16.20

**TABLE FOR LIMITATIONS ON THE MAXIMUM ASME B16.5 FLANGE BORE
FOR USE WITH STANDARD ASME B16.20 SPIRAL WOUND GASKETS**

Nominal Pipe Size (NPS)	Pressure Class						
	150	300	400	600	900 (1)	1500 (1)	2500 (1)
1/2	WN Flange only (2)		No Flanges Use 600	WN Flange only	No Flanges Use 1500	WN flange only (2)	
3/4				SO Flange (3) WN Flange (2)			
1				SO and WN Flange any bore			
1 1/4	SO Flange (3)	WN Flange, any bore	WN Flange with Schedule OS bore described in ASME B36.19M (Includes nozzle (4) but excludes SO Flanges)	WN flange with schedule 80 bore (excludes nozzle (4) and SO flange) (5)	WN flange with SW bore (include nozzle (4) but excludes SO flange)		
1 1/2	WN Flange (2)						
2	SO Flange (3)						
2 1/2	WN Flange, any bore	SO and WN Flange any bore	WN Flange with Schedule 10S bore described in ASME B36.19M (Excludes nozzle (4) and SO Flanges) (5)	WN flange with schedule 80 bore (excludes nozzle (4) and SO flange) (5)	No Flanges		
3							
4							
5							
6							
8							
10							
12							
14							
16							
18							
20							
24							

Abbreviations:

SO = slip on and threaded

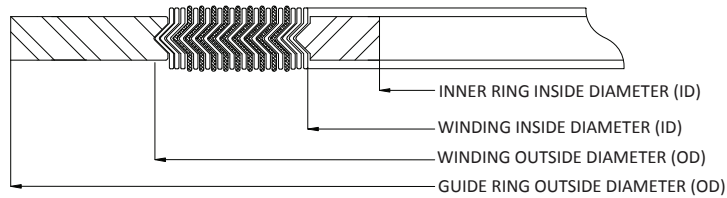
WN = welding neck

SW = standard wall

Notes per the ASME B16.20 specification:

1. Inner rings are required for class 900 NPS 24, class 1500 NPS 12 through 24, and class 2500 NPS 4 through NPS 12 per the ASME B16.20. These inner rings may extend into the pipe bore a maximum of 1/16" (1.5 mm) under the worst combination of maximum bore, eccentric installation, and additive tolerances.
2. In these sizes, the gasket is suitable for a welding neck flange with a standard wall bore, if the gasket and the flanges are assembled concentrically. This also applies to a nozzle. It is the user's responsibility to determine if the gasket is satisfactory for a flange or any larger bore.
3. Gaskets in these sizes are suitable for slip on flanges only if the gaskets and flanges are assembled concentrically
4. A nozzle is a long welding neck; the bore equals the flange NPS
5. A NPS 24 gasket is suitable for nozzles.

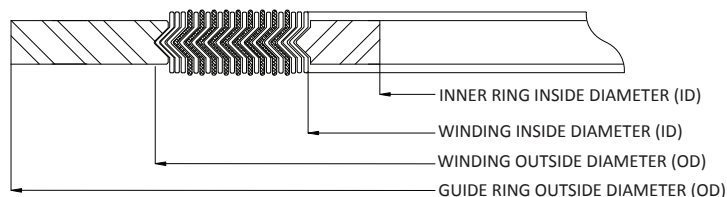
DIMENSIONS FOR STYLE WR/WRI TO SUIT AWWA C207
CLASS E SLIP-ON AND WELDING NECK FLANGES



Nominal Pipe Size (NPS)	Class 125							
	Inner Ring Inside Diameter (ID)		Winding Inside Diameter (ID)		Winding Outside Diameter (OD)		Guide Ring Outside Diameter (OD)	
	Inches	mm	Inches	mm	Inches	mm	Inches	mm
22	22.00	558.8	22.75	577.9	24.00	609.6	26.00	660.4
26	26.00	660.4	26.50	673.1	27.75	704.9	30.50	774.7
28	28.00	711.2	28.50	723.9	27.75	704.9	32.75	831.9
30	30.00	762.0	30.50	774.7	31.75	806.5	34.75	882.7
32	32.00	812.8	32.50	825.5	33.88	860.4	37.00	939.8
34	34.00	863.6	34.50	876.3	35.88	911.2	39.00	990.6
36	36.00	914.4	36.50	927.1	38.13	968.4	41.25	1047.8
38	38.00	965.2	38.50	977.9	40.13	1019.2	43.75	1111.3
40	40.00	1016.0	40.50	1028.7	42.13	1070.0	45.75	1162.1
42	42.00	1066.8	42.50	1079.5	44.25	1124.0	48.00	1219.2
44	44.00	1117.6	44.50	1130.3	46.38	1177.9	50.25	1276.4
46	46.00	1168.4	46.50	1181.1	48.38	1228.7	52.25	1327.2
48	48.00	1219.2	48.50	1231.9	50.38	1279.5	54.50	1384.3
50	50.00	1270.0	50.50	1282.7	52.50	1333.5	56.50	1435.1
52	52.00	1320.8	52.50	1333.5	54.50	1384.3	58.75	1492.3
54	54.00	1371.6	54.50	1384.3	56.50	1435.1	61.00	1549.4
60	60.00	1524.0	60.50	1536.7	62.50	1587.5	67.50	1714.5

Nominal Pipe Size (NPS)	Class 175							
	Inner Ring Inside Diameter (ID)		Winding Inside Diameter (ID)		Winding Outside Diameter (OD)		Guide Ring Outside Diameter (OD)	
	Inches	mm	Inches	mm	Inches	mm	Inches	mm
26	26.00	660.4	26.50	673.1	27.75	704.9	29.13	739.8
28	28.00	711.2	28.50	723.9	29.75	755.7	31.13	790.6
30	30.00	762.0	30.50	774.7	31.75	806.5	33.38	847.7
32	32.00	812.8	32.50	825.5	33.75	857.3	35.38	898.5
34	34.00	863.6	34.50	876.3	35.88	911.2	37.50	952.5
36	36.00	914.4	36.50	927.1	37.88	962.0	39.50	1003.3
38	38.00	965.2	38.50	977.9	39.88	1012.8	41.50	1054.1
40	40.00	1016.0	40.50	1028.7	42.00	1066.8	43.50	1104.9
42	42.00	1066.8	42.50	1079.5	44.00	1117.6	45.88	1165.2
44	44.00	1117.6	44.50	1130.3	46.00	1168.4	47.88	1216.0
46	46.00	1168.4	46.50	1181.1	48.00	1219.2	49.88	1266.8
48	48.00	1219.2	48.50	1231.9	50.13	1273.2	51.88	1317.6
50	50.00	1270.0	50.50	1282.7	52.25	1327.2	53.88	1368.4
52	52.00	1320.8	52.50	1333.5	54.38	1381.1	56.13	1425.6
54	54.00	1371.6	54.50	1384.3	56.38	1431.9	58.13	1476.4
60	60.00	1524.0	60.50	1536.7	62.50	1587.5	61.13	1552.6

DIMENSIONS FOR STYLE WR/WRI PER ASME B16.20 TO SUIT
ASME B16.47 SERIES A OR MSS-SP-44 FLANGES

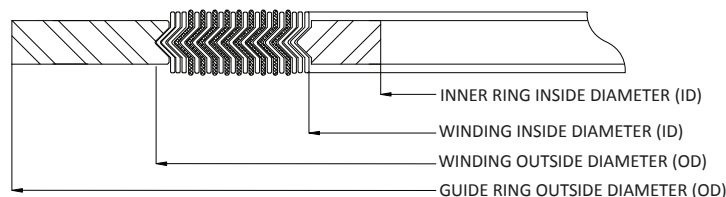


Nominal Pipe Size (NPS)	Class 150							
	Inner Ring Inside Diameter (ID)		Winding Inside Diameter (ID)		Winding Outside Diameter (OD)		Guide Ring Outside Diameter (OD)	
	Inches	mm	Inches	mm	Inches	mm	Inches	mm
22*	-	-	22.75	577.9	24.00	609.6	26.00	660.4
26	25.75	654.1	26.50	673.1	27.75	704.9	30.50	774.7
28	27.75	704.9	28.50	723.9	29.75	755.7	32.75	831.9
30	29.75	755.7	30.50	774.7	31.75	806.5	34.75	882.7
32	31.75	806.5	32.50	825.5	33.88	860.4	37.00	939.8
34	33.75	857.3	34.50	876.3	35.88	911.2	39.00	990.6
36	35.75	908.1	36.50	927.1	38.13	968.4	41.25	1047.8
38	37.75	958.9	38.50	977.9	40.13	1019.2	43.75	1111.3
40	39.75	1009.7	40.50	1028.7	42.13	1070.0	45.75	1162.1
42	41.75	1060.5	42.50	1079.5	44.25	1124.0	48.00	1219.2
44	43.75	1111.3	44.50	1130.3	46.38	1177.9	50.25	1276.4
46	45.75	1162.1	46.50	1181.1	48.38	1228.7	52.25	1327.2
48	47.75	1212.9	48.50	1231.9	50.38	1279.5	54.50	1384.3
50	49.75	1263.7	50.50	1282.7	52.50	1333.5	56.50	1435.1
52	51.75	1314.5	52.50	1333.5	54.50	1384.3	58.75	1492.3
54	53.50	1358.9	54.50	1384.3	56.50	1435.1	61.00	1549.4
56	55.50	1409.7	56.50	1435.1	58.50	1485.9	63.25	1606.6
58	57.50	1460.5	58.50	1485.9	60.50	1536.7	65.50	1663.7
60	59.50	1511.3	60.50	1536.7	62.50	1587.5	67.50	1714.5

Nominal Pipe Size (NPS)	Class 300							
	Inner Ring Inside Diameter (ID)		Winding Inside Diameter (ID)		Winding Outside Diameter (OD)		Guide Ring Outside Diameter (OD)	
	Inches	mm	Inches	mm	Inches	mm	Inches	mm
22*	-	-	22.75	577.9	24.75	628.7	27.75	704.9
26	25.75	654.1	27.00	685.8	29.00	736.6	32.88	835.0
28	27.75	704.9	29.00	736.6	31.00	787.4	35.38	898.5
30	29.75	755.7	31.25	793.8	33.25	844.6	37.50	952.5
32	31.75	806.5	33.50	850.9	35.50	901.7	39.63	1006.5
34	33.75	857.3	35.50	901.7	37.50	952.5	41.63	1057.3
36	35.75	908.1	37.63	955.7	39.63	1006.5	44.00	1117.6
38	37.50	952.5	38.50	977.9	40.00	1016.0	41.50	1054.1
40	39.50	1003.3	40.25	1022.4	42.13	1070.0	43.88	1114.4
42	41.50	1054.1	42.25	1073.2	44.13	1120.8	45.88	1165.2
44	43.50	1104.9	44.50	1130.3	46.50	1181.1	48.00	1219.2
46	45.38	1152.7	46.38	1177.9	48.38	1228.7	50.13	1273.2
48	47.63	1209.8	48.63	1235.1	50.63	1285.9	52.13	1324.0
50	49.00	1244.6	51.00	1295.4	53.00	1346.2	54.25	1378.0
52	52.00	1320.8	53.00	1346.2	55.00	1397.0	56.25	1428.8
54	53.25	1352.6	55.25	1403.4	57.25	1454.2	58.75	1492.3
56	55.25	1403.4	57.25	1454.2	59.25	1505.0	60.75	1543.1
58	57.00	1447.8	59.50	1511.3	61.50	1562.1	62.75	1593.9
60	60.00	1524.0	61.50	1562.1	63.50	1612.9	64.75	1644.7

*Not listed in ASME B16.20

DIMENSIONS FOR STYLE WR/WRI PER ASME B16.20 TO SUIT
ASME B16.47 SERIES A OR MSS-SP-44 FLANGES

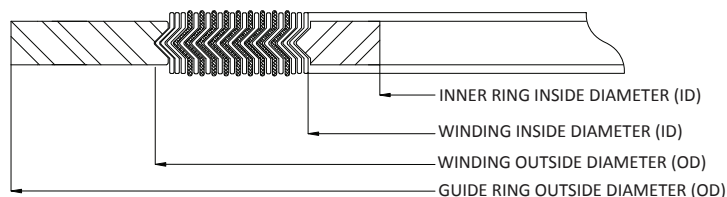


Nominal Pipe Size (NPS)	Class 400							
	Inner Ring Inside Diameter (ID)		Winding Inside Diameter (ID)		Winding Outside Diameter (OD)		Guide Ring Outside Diameter (OD)	
	Inches	mm	Inches	mm	Inches	mm	Inches	mm
22*	-	-	22.75	577.9	24.75	628.7	27.63	701.7
26	26.00	660.4	27.00	685.8	29.00	736.6	32.75	831.9
28	28.00	711.2	29.00	736.6	31.00	787.4	35.13	892.2
30	29.75	755.7	31.25	793.8	33.25	844.6	37.25	946.2
32	32.00	812.8	33.50	850.9	35.50	901.7	39.50	1003.3
34	34.00	863.6	35.50	901.7	37.50	952.5	41.50	1054.1
36	36.13	917.7	37.63	955.7	39.63	1006.5	44.00	1117.6
38	37.50	952.5	38.25	971.6	40.25	1022.4	42.25	1073.2
40	39.38	1000.3	40.38	1025.5	42.38	1076.3	44.38	1127.1
42	41.38	1051.1	42.38	1076.3	44.38	1127.1	46.38	1177.9
44	43.50	1104.9	44.50	1130.3	46.50	1181.1	48.50	1231.9
46	46.00	1168.4	47.00	1193.8	49.00	1244.6	50.75	1289.1
48	47.50	1206.5	49.00	1244.6	52.00	1320.8	53.00	1346.2
50	49.50	1257.3	51.00	1295.4	53.00	1346.2	55.25	1403.4
52	51.50	1308.1	53.00	1346.2	55.00	1397.0	57.25	1454.2
54	53.25	1352.6	55.25	1403.4	57.25	1454.2	59.75	1517.7
56	55.25	1403.4	57.25	1454.2	59.25	1505.0	61.75	1568.5
58	57.25	1454.2	59.25	1505.0	61.25	1555.8	63.75	1619.3
60	59.75	1517.7	61.75	1568.5	63.75	1619.3	66.25	1682.8

Nominal Pipe Size (NPS)	Class 600							
	Inner Ring Inside Diameter (ID)		Winding Inside Diameter (ID)		Winding Outside Diameter (OD)		Guide Ring Outside Diameter (OD)	
	Inches	mm	Inches	mm	Inches	mm	Inches	mm
22*	-	-	22.75	577.9	24.75	628.7	28.88	733.4
26	25.50	647.7	27.00	685.8	29.00	736.6	34.13	866.8
28	27.50	698.5	29.00	736.6	31.00	787.4	36.00	914.4
30	29.75	755.7	31.25	793.8	33.25	844.6	38.25	971.6
32	32.00	812.8	33.50	850.9	35.50	901.7	40.25	1022.4
34	34.00	863.6	35.50	901.7	37.50	952.5	42.25	1073.2
36	36.13	917.7	37.63	955.7	39.63	1006.5	44.50	1130.3
38	37.50	952.5	39.00	990.6	41.00	1041.4	43.50	1104.9
40	39.75	1009.7	41.25	1047.8	43.25	1098.6	45.50	1155.7
42	42.00	1066.8	43.50	1104.9	45.50	1155.7	48.00	1219.2
44	43.75	1111.3	45.75	1162.1	47.75	1212.9	50.00	1270.0
46	45.75	1162.1	47.75	1212.9	49.75	1263.7	52.25	1327.2
48	48.00	1219.2	50.00	1270.0	52.00	1320.8	54.75	1390.7
50	50.00	1270.0	52.00	1320.8	54.00	1371.6	57.00	1447.8
52	52.00	1320.8	54.00	1371.6	56.00	1422.4	59.00	1498.6
54	54.25	1378.0	56.25	1428.8	58.25	1479.6	61.25	1555.8
56	56.25	1428.8	58.25	1479.6	60.25	1530.4	63.50	1612.9
58	58.00	1473.2	60.50	1536.7	62.50	1587.5	65.50	1663.7
60	60.25	1530.4	62.75	1593.9	64.75	1644.7	68.25	1733.6

*Not listed in ASME B16.20

DIMENSIONS FOR STYLE WR/WRI PER ASME B16.20 TO SUIT
ASME B16.47 SERIES A OR MSS-SP-44 FLANGES



Nominal Pipe Size (NPS)	Class 900							
	Inner Ring Inside Diameter (ID)**		Winding Inside Diameter (ID)		Winding Outside Diameter (OD)		Guide Ring Outside Diameter (OD)	
	Inches	mm	Inches	mm	Inches	mm	Inches	mm
22*	-	-	24.25	616.0	27.00	685.8	33.00	838.2
26	26.00	660.4	27.00	685.8	29.00	736.6	34.75	882.7
28	28.00	711.2	29.00	736.6	31.00	787.4	37.25	946.2
30	30.25	768.4	31.25	793.8	33.25	844.6	39.75	1009.7
32	32.00	812.8	33.50	850.9	35.50	901.7	42.25	1073.2
34	34.00	863.6	35.50	901.7	37.50	952.5	44.75	1136.7
36	36.25	920.8	37.75	958.9	39.75	1009.7	47.25	1200.2
38	39.75	1009.7	40.75	1035.1	42.75	1085.9	47.25	1200.2
40	41.75	1060.5	43.25	1098.6	45.25	1149.4	49.25	1251.0
42	43.75	1111.3	45.25	1149.4	47.25	1200.2	51.25	1301.8
44	45.50	1155.7	47.50	1206.5	49.50	1257.3	53.88	1368.4
46	48.00	1219.2	50.00	1270.0	52.00	1320.8	56.50	1435.1
48	50.00	1270.0	52.00	1320.8	54.00	1371.6	58.50	1485.9

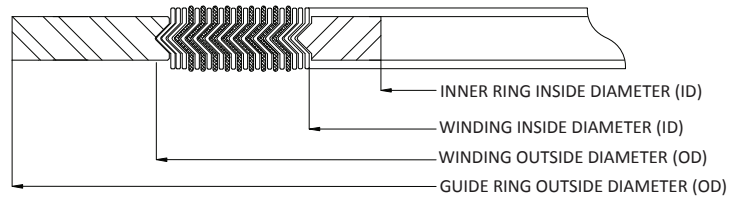
*Not listed in ASME B16.20

**Inner rings are required

LARGE SPIRAL WOUND GASKET TOLERANCES PER ASME B16.20
TO BE USED WITH ASME B16.47 SERIES A FLANGES

- The winding thickness is $\pm 0.005''$ (± 0.13 mm) measured across the metallic portion of the gasket not including the filler
- The winding inside diameter
 - o NPS 26 through NPS 34 is $\pm 1/32''$ (± 0.8 mm)
 - o NPS 36 through NPS 60 is $\pm 3/64''$ (± 1.3 mm)
- The winding outside diameter
 - o NPS 26 through 60 is $\pm 1/16''$ (1.5 mm)
- The guide ring outside diameter tolerance is $\pm 1/32''$ (± 0.8 mm)
- The guide ring and inner thickness shall be from 0.117" (2.97 mm) to 0.131" (3.33 mm)
- The inner ring inside diameter is: $\pm 1/8''$ (± 3.0 mm)
- These inner rings are suitable for use with pipe walls 0.38" (9.53 mm) or thicker

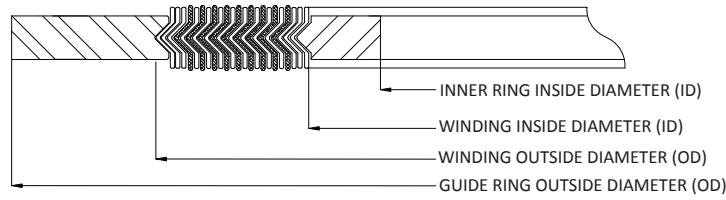
DIMENSIONS FOR STYLE WR/WRI PER ASME B16.20 TO SUIT
ASME B16.47 SERIES B OR API-605 FLANGES



Nominal Pipe Size (NPS)	Class 150							
	Inner Ring Inside Diameter (ID)		Winding Inside Diameter (ID)		Winding Outside Diameter (OD)		Guide Ring Outside Diameter (OD)	
	Inches	mm	Inches	mm	Inches	mm	Inches	mm
26	25.75	654.05	26.50	673.1	27.50	698.5	28.56	725.5
28	27.75	704.9	28.50	723.9	29.50	749.3	30.56	776.3
30	29.75	755.7	30.50	774.7	31.50	800.1	32.56	827.1
32	31.75	806.5	32.50	825.5	33.50	850.9	34.69	881.1
34	33.75	857.3	34.50	876.3	35.75	908.1	36.81	935.0
36	35.75	908.1	36.50	927.1	37.75	958.9	38.88	987.4
38	37.75	958.9	38.38	974.7	39.75	1009.7	41.13	1044.6
40	39.75	1009.7	40.25	1022.4	41.88	1063.6	43.13	1095.4
42	41.75	1060.5	42.50	1079.5	43.88	1114.4	45.13	1146.2
44	43.75	1111.3	44.25	1124.0	45.88	1165.2	47.13	1197.0
46	45.75	1162.1	46.50	1181.1	48.19	1224.0	49.44	1255.7
48	47.75	1212.9	48.50	1231.9	50.00	1270.0	51.44	1306.5
50	49.75	1263.7	50.50	1282.7	52.19	1325.6	53.44	1357.3
52	51.75	1314.5	52.50	1333.5	54.19	1376.4	55.44	1408.1
54	53.75	1365.3	54.50	1384.3	56.00	1422.4	57.63	1463.7
56	56.00	1422.4	56.88	1444.6	58.19	1478.0	59.63	1514.5
58	58.19	1478.0	59.08	1500.6	60.19	1528.8	62.19	1579.6
60	60.44	1535.2	61.31	1557.3	62.44	1585.9	64.19	1630.4

Nominal Pipe Size (NPS)	Class 300							
	Inner Ring Inside Diameter (ID)		Winding Inside Diameter (ID)		Winding Outside Diameter (OD)		Guide Ring Outside Diameter (OD)	
	Inches	mm	Inches	mm	Inches	mm	Inches	mm
26	25.75	654.05	26.50	673.1	28.00	711.2	30.38	771.5
28	27.75	704.9	28.50	723.9	30.00	762.0	32.50	825.5
30	29.75	755.7	30.50	774.7	32.00	812.8	34.88	885.8
32	31.75	806.5	32.50	825.5	34.00	863.6	37.00	939.8
34	33.75	857.3	34.50	876.3	36.00	914.4	39.13	993.8
36	35.75	908.1	36.50	927.1	38.00	965.2	41.25	1047.8
38	38.25	971.6	39.75	1009.7	41.25	1047.8	43.25	1098.6
40	40.25	1022.4	41.75	1060.5	43.25	1098.6	45.25	1149.4
42	42.75	1085.9	43.75	1111.3	45.25	1149.4	47.25	1200.2
44	44.25	1124.0	45.75	1162.1	47.25	1200.2	49.25	1251.0
46	46.38	1178.1	47.88	1216.0	49.38	1254.1	51.88	1317.6
48	48.50	1231.9	49.75	1263.7	51.63	1311.3	53.88	1368.4
50	49.88	1267.0	51.88	1317.6	53.38	1355.7	55.88	1419.2
52	51.88	1317.8	53.88	1368.4	55.38	1406.5	57.88	1470.0
54	53.75	1365.3	55.25	1403.4	57.25	1454.2	60.25	1530.4
56	56.25	1428.8	58.25	1479.6	60.00	1524.0	62.75	1593.9
58	58.44	1484.4	60.44	1535.1	61.94	1573.2	65.19	1655.8
60	61.31	1557.3	62.56	1589.1	64.19	1630.4	67.19	1706.6

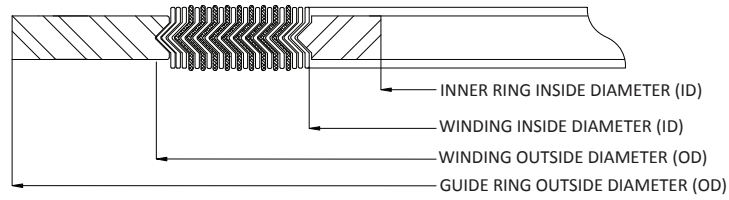
DIMENSIONS FOR STYLE WR/WRI PER ASME B16.20 TO SUIT
ASME B16.47 SERIES B OR API-605 FLANGES



Nominal Pipe Size (NPS)	Class 400							
	Inner Ring Inside Diameter (ID)		Winding Inside Diameter (ID)		Winding Outside Diameter (OD)		Guide Ring Outside Diameter (OD)	
	Inches	mm	Inches	mm	Inches	mm	Inches	mm
26	25.75	654.05	26.25	666.8	27.50	698.5	29.38	746.1
28	27.63	701.8	28.13	714.4	29.50	749.3	31.50	800.1
30	29.63	752.6	30.13	765.2	31.75	806.5	33.75	857.3
32	31.50	800.1	32.00	812.8	33.88	860.4	35.88	911.2
34	33.50	850.9	34.13	866.8	35.88	911.2	37.88	962.0
36	35.38	898.7	36.13	917.6	38.00	965.2	40.25	1022.4
38	37.50	952.5	38.25	971.6	40.25	1022.4	42.25	1073.2
40	39.38	1000.3	40.38	1025.5	42.38	1076.3	44.38	1127.1
42	41.38	1051.1	42.38	1076.3	44.38	1127.1	46.38	1177.9
44	43.50	1104.9	44.50	1130.3	46.50	1181.1	48.50	1231.9
46	46.00	1168.4	47.00	1193.8	49.00	1244.6	50.75	1289.1
48	47.50	1206.5	49.00	1244.6	51.00	1295.4	53.00	1346.2
50	49.50	1257.3	51.00	1295.4	53.00	1346.2	55.25	1403.4
52	51.50	1308.1	53.00	1346.2	55.00	1397.0	57.25	1454.2
54	53.25	1352.6	55.25	1403.4	57.25	1454.2	59.75	1517.7
56	55.25	1403.4	57.25	1454.2	59.25	1505.0	61.75	1568.5
58	57.25	1454.2	59.25	1505.0	61.25	1555.8	63.75	1619.3
60	59.75	1517.7	61.75	1568.5	63.75	1619.3	66.25	1682.8

Nominal Pipe Size (NPS)	Class 600							
	Inner Ring Inside Diameter (ID)		Winding Inside Diameter (ID)		Winding Outside Diameter (OD)		Guide Ring Outside Diameter (OD)	
	Inches	mm	Inches	mm	Inches	mm	Inches	mm
26	25.38	644.652	26.13	663.6	28.13	714.4	30.13	765.2
28	27.00	685.8	27.75	704.9	29.75	755.7	32.25	819.2
30	29.63	752.6	30.63	777.9	32.63	828.7	34.63	879.5
32	31.25	793.8	32.75	831.9	34.75	882.7	36.75	933.5
34	33.50	850.9	35.00	889.0	37.00	939.8	39.25	997.0
36	35.50	901.7	37.00	939.8	39.00	990.6	41.25	1047.8
38	37.50	952.5	39.00	990.6	41.00	1041.4	43.50	1104.9
40	39.75	1009.7	41.25	1047.8	43.25	1098.6	45.50	1155.7
42	42.00	1066.8	43.50	1104.9	45.50	1155.7	48.00	1219.2
44	43.75	1111.3	45.75	1162.1	47.75	1212.9	50.00	1270.0
46	45.75	1162.1	47.75	1212.9	49.75	1263.7	52.25	1327.2
48	48.00	1219.2	50.00	1270.0	52.00	1320.8	54.75	1390.7
50	50.00	1270.0	52.00	1320.8	54.00	1371.6	57.00	1447.8
52	52.00	1320.8	54.00	1371.6	56.00	1422.4	59.00	1498.6
54	54.25	1378.0	56.25	1428.8	58.25	1479.6	61.25	1555.8
56	56.25	1428.8	58.25	1479.6	60.25	1530.4	63.50	1612.9
58	58.00	1473.2	60.50	1536.7	62.50	1587.5	65.50	1663.7
60	60.25	1530.4	62.75	1593.9	64.75	1644.7	68.25	1733.6

DIMENSIONS FOR STYLE WR/WRI PER ASME B16.20 TO SUIT
ASME B16.47 SERIES B OR API-605 FLANGES



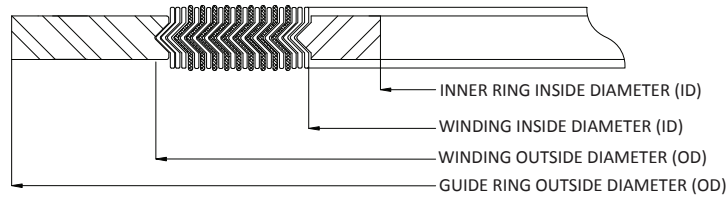
Nominal Pipe Size (NPS)	Class 900							
	Inner Ring Inside Diameter (ID)		Winding Inside Diameter (ID)		Winding Outside Diameter (OD)		Guide Ring Outside Diameter (OD)	
	Inches	mm	Inches	mm	Inches	mm	Inches	mm
26	26.25	666.75	27.25	692.2	29.50	749.3	33.00	838.2
28	28.25	717.6	29.25	743.0	31.50	800.1	35.50	901.7
30	30.75	781.1	31.75	806.5	33.75	857.3	37.75	958.9
32	33.00	838.2	34.00	863.6	36.00	914.4	40.00	1016.0
34	35.25	895.4	36.25	920.8	38.25	971.6	42.25	1073.2
36	36.25	920.8	37.25	946.2	39.25	997.0	44.25	1124.0
38	39.75	1009.7	40.75	1035.1	42.75	1085.9	47.25	1200.2
40	41.75	1060.5	43.25	1098.6	45.25	1149.4	49.25	1251.0
42	43.75	1111.3	45.25	1149.4	47.25	1200.2	51.25	1301.8
44	45.50	1155.7	47.50	1206.5	49.50	1257.3	53.88	1368.4
46	48.00	1219.2	50.00	1270.0	52.00	1320.8	56.50	1435.1
48	50.00	1270.0	52.00	1320.8	54.00	1371.6	58.50	1485.9

* Inner rings are required

LARGE SPIRAL WOUND GASKET TOLERANCES PER ASME B16.20
TO BE USED WITH ASME B16.47 SERIES B FLANGES

- The winding thickness is $\pm 0.005''$ (± 0.13 mm) measured across the metallic portion of the gasket, not including the filler
- The winding inside diameter
 - NPS 26 through NPS 34 NPS is $\pm 1/32''$ (± 0.8 mm)
 - NPS 36 through NPS 60 NPS is $\pm 3/64''$ (± 1.3 mm)
- The winding outside diameter
 - NPS 26 through 60 NPS is $\pm 1/16''$ (1.5 mm)
- The guide ring outside diameter tolerance is $\pm 1/32''$ (± 0.8 mm)
- The guide and inner ring thickness shall be from 0.117" (2.97 mm) to 0.131" (3.33 mm)
- The inner ring inside diameter is: $\pm 1/8''$ (± 3.0 mm)
- These inner rings are suitable for use with pipe walls 0.38" (9.53 mm) or thicker

DIMENSIONS FOR STYLE WR/WRI TO SUIT
ASME/ANSI B16.5 AND SLIP-ON FLANGES



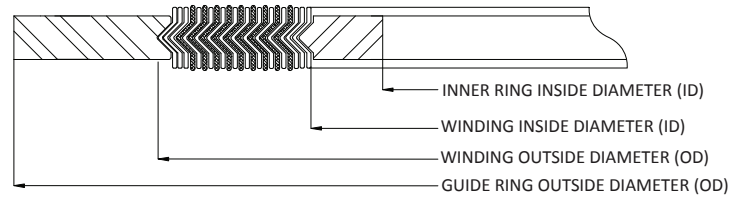
Nominal Pipe Size (NPS)	Class 150							
	Inner Ring Inside Diameter (ID)		Winding Inside Diameter (ID)		Winding Outside Diameter (OD)		Guide Ring Outside Diameter (OD)	
	Inches	mm	Inches	mm	Inches	mm	Inches	mm
1/4	-	-	0.56	14.3	0.88	22.2	1.75	44.5
1/2	0.56	14.3	0.94	23.8	1.25	31.8	1.88	47.6
3/4	0.81	20.6	1.19	30.2	1.56	39.7	2.25	57.2
1	1.06	27.0	1.44	36.5	1.88	47.6	2.63	66.7
1 1/4	1.38	34.9	1.88	47.6	2.38	60.3	3.00	76.2
1 1/2	1.63	41.3	2.13	54.0	2.75	69.9	3.38	85.7

Nominal Pipe Size (NPS)	Class 300							
	Inner Ring Inside Diameter (ID)		Winding Inside Diameter (ID)		Winding Outside Diameter (OD)		Guide Ring Outside Diameter (OD)	
	Inches	mm	Inches	mm	Inches	mm	Inches	mm
1/4	-	-	0.56	14.3	0.88	22.2	1.75	44.5
1/2	0.56	14.3	0.94	23.8	1.25	31.8	2.13	54.0
3/4	0.81	20.6	1.19	30.2	1.56	39.7	2.63	66.7
1	1.06	27.0	1.44	36.5	1.88	47.6	2.88	73.0
1 1/4	1.38	34.9	1.88	47.6	2.38	60.3	3.25	82.6
1 1/2	1.63	41.3	2.13	54.0	2.75	69.9	3.75	95.3

Nominal Pipe Size (NPS)	Class 400							
	Inner Ring Inside Diameter (ID)		Winding Inside Diameter (ID)		Winding Outside Diameter (OD)		Guide Ring Outside Diameter (OD)	
	Inches	mm	Inches	mm	Inches	mm	Inches	mm
1/4	-	-	0.56	14.3	0.88	22.2	1.75	44.5
1/2	0.56	14.3	0.94	23.8	1.25	31.8	2.13	54.0
3/4	0.81	20.6	1.19	30.2	1.56	39.7	2.63	66.7
1	1.06	27.0	1.44	36.5	1.88	47.6	2.88	73.0
1 1/4	1.38	34.9	1.88	47.6	2.38	60.3	3.25	82.6
1 1/2	1.63	41.3	2.13	54.0	2.75	69.9	3.75	95.3

Nominal Pipe Size (NPS)	Class 600							
	Inner Ring Inside Diameter (ID)		Winding Inside Diameter (ID)		Winding Outside Diameter (OD)		Guide Ring Outside Diameter (OD)	
	Inches	mm	Inches	mm	Inches	mm	Inches	mm
1/4	-	-	0.56	14.3	0.88	22.2	1.75	44.5
1/2	0.56	14.3	0.94	23.8	1.25	31.8	2.13	54.0
3/4	0.81	20.6	1.19	30.2	1.56	39.7	2.63	66.7
1	1.06	27.0	1.44	36.5	1.88	47.6	2.88	73.0
1 1/4	1.38	34.9	1.88	47.6	2.38	60.3	3.25	82.6
1 1/2	1.63	41.3	2.13	54.0	2.75	69.9	3.75	95.3

DIMENSIONS FOR STYLE WR/WRI TO SUIT ASME/ANSI B16.5 AND SLIP-ON FLANGES

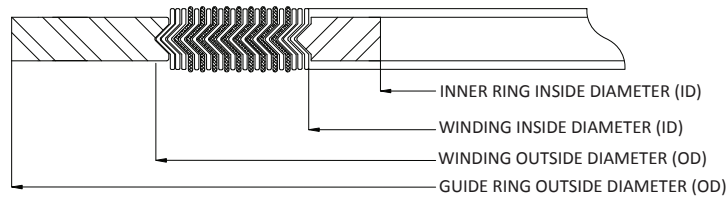


Nominal Pipe Size (NPS)	Class 900							
	Inner Ring Inside Diameter (ID)		Winding Inside Diameter (ID)		Winding Outside Diameter (OD)		Guide Ring Outside Diameter (OD)	
	Inches	mm	Inches	mm	Inches	mm	Inches	mm
1/2	0.56	14.3	0.94	23.8	1.25	31.8	2.50	63.5
3/4	0.81	20.6	1.19	30.2	1.56	39.7	2.75	69.9
1	1.06	27.0	1.44	36.5	1.88	47.6	3.13	79.4
1 1/4	1.38	34.9	1.88	47.6	2.38	60.3	3.50	88.9
1 1/2	1.63	41.3	2.13	54.0	2.75	69.9	3.88	98.4

Nominal Pipe Size (NPS)	Class 1500							
	Inner Ring Inside Diameter (ID)		Winding Inside Diameter (ID)		Winding Outside Diameter (OD)		Guide Ring Outside Diameter (OD)	
	Inches	mm	Inches	mm	Inches	mm	Inches	mm
1/2	0.56	14.3	0.94	23.8	1.25	31.8	2.50	63.5
3/4	0.81	20.6	1.19	30.2	1.56	39.7	2.75	69.9
1	1.06	27.0	1.44	36.5	1.88	47.6	3.13	79.4
1 1/4	1.38	34.9	1.88	47.6	2.38	60.3	3.50	88.9
1 1/2	1.63	41.3	2.13	54.0	2.75	69.9	3.88	98.4

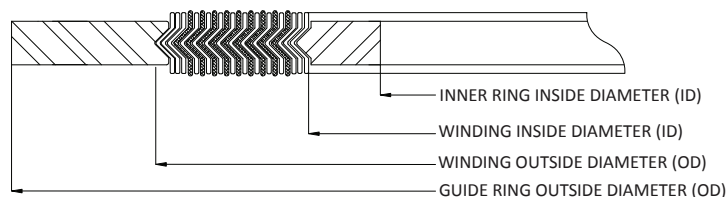
Standard spiral wound gasket dimensions are not compatible with slip-on flanges, threaded flange, or lap joint flanges in certain sizes due to the larger bore on slip-on flanges.

**DIMENSIONS FOR STYLE WR/WRI TO SUIT TYPE A AND B
FLANGE FACINGS PER EN 1514-2 (INCHES)**



DN	Inner ring Inside Diameter (ID)	Winding Inside Diameter (ID)	Winding Outside Diameter (OD)	Winding Outside Diameter (OD)	Guide Ring Outside Diameter (OD)					
			PN10, PN25, PN40	PN63, PN100, PN160	PN10	PN25	PN40	PN63	PN100	PN160
mm	Inches	Inches	Inches	Inches	Inches					
10	0.709	0.945	1.339	1.339	1.811			2.205		
15	0.906	1.142	1.535	1.535	2.008			2.402		
20	1.102	1.339	1.811	-	2.402			-		
25	1.378	1.614	2.087	2.087	2.795			3.228		
32	1.693	1.929	2.402	-	3.228			-		
40	1.969	2.205	2.677	2.677	3.622			4.055		
50	2.402	2.756	3.386	3.386	4.213			4.449	4.685	
65	3.031	3.386	4.016	4.173	5.000			5.394	5.630	
80	3.543	3.898	4.528	4.685	5.591			5.827	6.063	
100	4.528	5.000	5.630	5.787	6.378	6.614		6.850	7.087	
125	5.512	5.984	6.772	6.929	7.559	7.638		8.268	8.543	
150	6.575	7.047	7.835	7.992	8.543	8.819		9.724	10.118	
200	8.504	8.976	9.764	9.921	10.709	11.181	11.417	12.165	12.756	
250	10.512	10.984	11.929	12.087	12.874	13.386	13.858	14.331	15.394	15.276
300	12.520	12.992	13.937	14.094	14.842	15.748	16.417	16.693	18.031	18.031
350	14.173	14.803	15.748	15.905	17.205	17.992	18.661	19.134	20.157	-
400	16.142	16.614	17.717	17.953	19.213	20.236	21.496	21.378	22.520	-
500	20.079	20.551	21.654	21.890	23.346	24.567	24.724	25.866	27.716	-
600	24.016	24.488	25.591	25.827	27.362	28.779	29.409	30.079	32.008	-
700	27.953	28.425	29.764	30.000	31.890	32.795	33.543	34.606	37.402	-
800	31.890	32.677	34.016	34.252	36.102	37.087	38.346	38.898	-	-
900	35.827	36.614	37.953	38.189	40.039	41.024	42.677	43.622	-	-
1000	39.764	40.551	42.283	42.520	44.252	45.433	47.008	-	-	-

DIMENSIONS FOR STYLE WR/WRI TO SUIT TYPE A AND B
FLANGE FACINGS PER EN 1514-2 (MILLIMETERS)



DN	Inner ring Inside Diameter (ID)	Winding Inside Diameter (ID)	Winding Outside Diameter (OD)	Winding Outside Diameter (OD)	Guide Ring Outside Diameter (OD)					
			PN10, PN25, PN40	PN63, PN100, PN160	PN10	PN25	PN40	PN63	PN100	PN160
mm	mm	mm	mm	mm	mm					
10	18	24	34	34	46			56		
15	23	29	39	39	51			61		
20	28	34	46	-	61			-		
25	35	41	53	53	71			82		
32	43	49	61	-	82			-		
40	50	56	68	68	92			103		
50	61	70	86	86	107			113	119	
65	77	86	102	106	127			137	143	
80	90	99	115	119	142			148	154	
100	115	127	143	147	162	168		174	180	
125	140	152	172	176	192	194		210	217	
150	167	179	199	203	217	224		247	257	
200	216	228	248	252	272	284	290	309	324	
250	267	279	303	307	327	340	352	364	391	388
300	318	330	354	358	377	400	417	424	458	458
350	360	376	400	404	437	457	474	486	512	-
400	410	422	450	456	488	514	546	543	572	-
500	510	522	550	556	593	624	628	657	704	-
600	610	622	650	656	695	731	747	764	813	-
700	710	722	756	762	810	833	852	879	950	-
800	810	830	864	870	917	942	974	988	-	-
900	910	930	964	970	1017	1042	1084	1108	-	-
1000	1010	1030	1074	1080	1124	1154	1194	-	-	-