

20 commitment to quality for
24 sealing applications



Product **CATALOG**

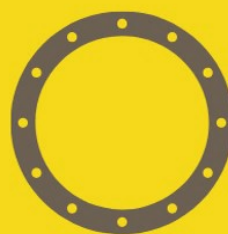
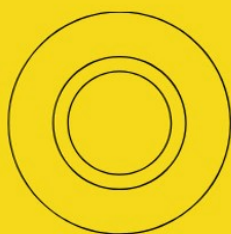


OUR COMPANY

CSI Industries Energy Group has a solid team of engineers for development and manufacturing sealing solutions to meet different industries demand, such as Chemical and Petrochemical, Oil and Gas, Water and Waste, Mineral, Power Generation and Renewable Energy.

OUR PRODUCTS

- GASKETS
- BRAIDED PAKINGS
- COMPRESSION SHEETS
- FLANGE INSULATION GASKET
- SEALING RAW MATERIAL
- HEAT INSULATION
- RODS AND TUBES



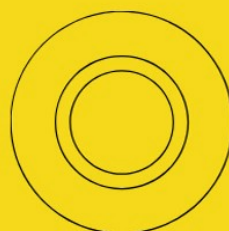


SPIRAL WOUND GASKETS

Spiral wound gaskets are a common type of gasket used in various industrial applications due to their ability to handle a range of pressures and temperatures. They are especially popular in the oil and gas, chemical, petrochemical, power, and food industries.

OUR SPIRAL WOUND GASKETS

- Standard Spiral Wound Gasket
- Nuclear Spiral Wound Gasket
- Spiral Wound Gasket for Heat Exchanger
- Non-rounded Spiral Wound Gasket
- Special Materials Spiral Wound Gasket
- SWG Inner and Outer Rings
- Kammpro-Spiral
- Low Stress Spiral Wound Gasket
- Vermiculite Spiral Wound Gasket
- Mica Spiral Wound Gasket

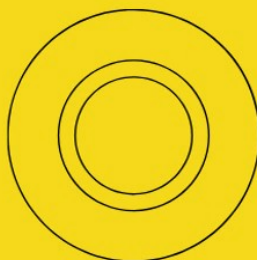




SPIRAL WOUND GASKET

The construction of a spiral wound gasket typically involves three elements:

1. Outer ring: Also known as a guide or centering ring, usually made of carbon steel, which centers the gasket when inserting it into a bolted flange joint.
2. Inner ring: Prevents windings from buckling inside the pipe, which could otherwise get sucked into the pipe and cause blockages.
3. Sealing element: Comprises both windings and filler material, creating a tight seal to prevent leaks. Common filler materials include flexible graphite for high temperatures and PTFE (Polytetrafluoroethylene) for other applications.



Spiral Wound Gasket Construction Structures

The spiral wound gasket is made by specially formed V Shape metal strip and a soft gasket filler material such as graphite or PTFE Tape. The Gasket can include a outer centering ring and inner ring or both. The outer ring mainly centers the gasket between flanges, while the inner ring provides strength and also lowers internal turbulence and helps to protect the sealing elements.

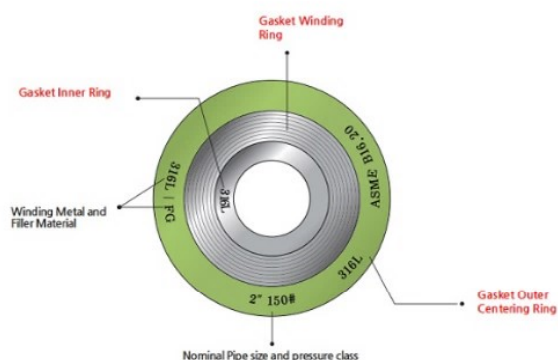
In a word, the spiral wound gasket consists of 3 main structure as below

Winding Ring: made of stainless steel such as ss304, ss316L, ss321, Monel 400, and mixed with a filler such as Graphite or PTFE

Inner Ring: Material used usually same as the Winding Ring

Guide or Outer Centering Ring: Mostly Carbon steel painted, also stainless steel like ss304, ss316

And the gasket thickness usually is: 4.5mm, 3.2mm and 6.4mm, custom thickness can be accepted



Types of Spiral Wound Gasket

according to the spiral wound gasket Construction Structure, the gaskets have 4 main types as below

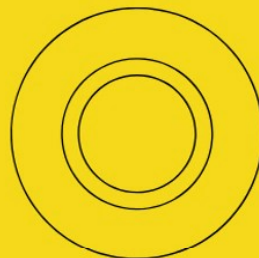
1. CSI600-S: Basic type Spiral Wound Gaskets
2. CSI600-SI: Spiral Wound Gasket with Inner Ring
3. CSI600-GS: Spiral Wound Gasket with Outer Centering Ring
4. CSI600-GSI: Spiral Wound Gasket with Inner and Outer Ring



SPIRAL WOUND GASKET

Reasons why Spiral Wound Gasket is so Popular and Its Advantages

- Combinations of metal strip and filler are selected to suit the specific fluid media and operating conditions.
- Make gaskets suitable for high pipeline pressure on flat or raised flange faces.
- Gasket are made in a wide variety of sizes and shapes.
- Temperatures from cryogenic up to 1000 °C
- High and low temperature resistance
- Quick to install and remove



Basic Spiral Wound Gasket - CSI600-S

Basic Spiral wound gasket construction type just with a winding ring, with no inner or outer centering ring. Its inner and outer diameters are strengthened with some piles of metal strips without filler to offer great stability and compression characteristics. It is ideal for tongue and groove, male and female or grooved to flat face flange assemblies.

Spiral Wound Gasket with Inner Ring CSI600-SI

Spiral wound gasket solid inner metal ring behaves as a compression stopper to avoid accumulation of solids, decrease turbulent flow of operation fluids and reduce erosion. And avoid damages of gasket between flange bore and the inside diameter as the annular space of flange is filled up by solid inner metal ring. Suitable for male and female pipe flanges.

Spiral Wound Gasket with Outer Ring CSI600-GS

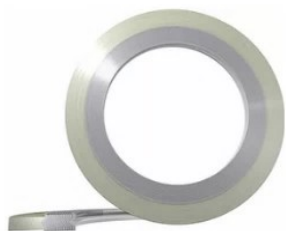
By means of suitable dimension of the centering ring, the sealing element is accurately centered on the flange face by the bolts. The outer ring of spiral wound gasket can Protect the spiral wound sealing element. Suitable for male and female pipe flanges.

Spiral Wound Gasket Inner and Outer Ring CSI600-GSI

This type of spiral wound gasket is with inner and outer centering ring, the inner and centering ring will give an additional compression limiting stopper for gasket inner and outer side. It will prevent the corrosion on flange faces at annular space. Suitable for used with flat face and raised face flanges and specified for high pressure temperature service class 900 and above or other situations

Materials For Spiral Wound Gasket

- Winding Material: 304 SS, 316L SS, 321 SS, 347 SS, Inconel 600, Incoloy 800/825, Inconel X-750, Monel 400 Winding for corrosive environments - Alloy 20, Hasteloy C-276, Monel 400
- Winding Fillers: Non-Asbestos tape, Flexible Graphite tape, Flexicarb, Mica tape, Ceramic, PTFE tape, Non-sintered PTFE High temperature mica tape filler now available
- Inner Rings: 304 SS, 316L SS, 321 SS, 347 SS, Inconel 600, Incoloy 800/825, Inconel X-750, Monel 400
- Outer Centering Rings: Painted Carbon Steel, 304 SS, 316L SS, 321 SS, 347 SS, Inconel 600, Incoloy 800/825, Inconel X-750, Monel 400





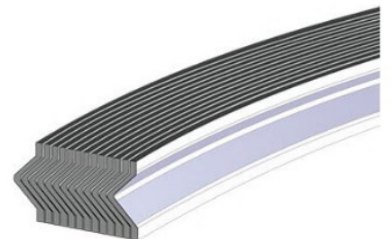
SPIRAL WOUND GASKET

CSI Industries spiral wound gasket is formed of V-shaped metallic strip and soft non-metallic filler. Support rings, inside and Outside the spiral, improve the gasket's handling, fitting and versatility.

Depend on its excellent compression resilience, it is suitable for sealing spots where the alteration of temperature and pressure are frequent.

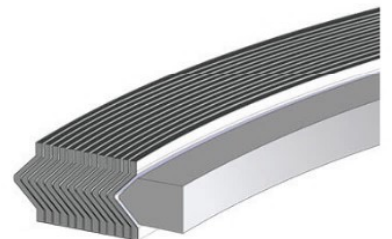
CSI600-S Basic Type

Basic construction type, inner and outer diameters are reinforced with several piles of metal without filler to give greater stability and better compression characteristics. Suitable for tongue and groove, male and female or grooved to flat face flange assemblies.



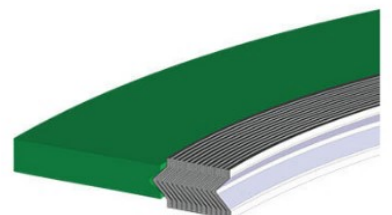
CSI600-SI Inner Ring Type

Solid inner metal ring acts as a compression stopper. To prevent accumulation of solids, reduce turbulent flow of process fluids and minimize erosion, damages of gasket between flange bore and the inside diameter, the annular space is filled up by solid inner metal ring. - Suitable for male and female pipe flanges.



CSI600-GS Outer Ring Type

Solid outer ring accurately locates the gasket on the flange face to give the additional radial strength to prevent the gasket blowout and acts as a compression limiter. In case of installing the outer ring, it is very easy to install the gasket to flange face because the end of outer ring will touch at bolts - Suitable for use with flat face and raised face flanges. For class 900 and above an internal ring is recommended.

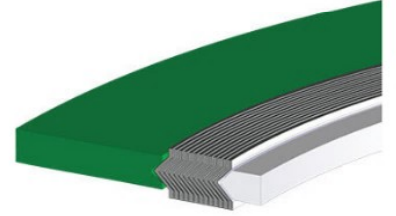




SPIRAL WOUND GASKET

CSI600-GSI Inner & Outer Rings Type

A inner ring and outer ring type gasket will give an additional compression limiting stopper for gasket inner and outer side. It will prevent the corrossions on flange face at annular space. - Suitable for use with flat face and raised face flanges and specified for high pressure / temperature service - Class 900 and above or where corrosive or toxic media are present.



Typical Applications

A Spiral Wound Gasket is the most widely used common metallic gasket used in industrial applications involving a range of pressure and temperatures. They are popular in the oil and gas, chemical, petrochemical, power, and food industries and prevents leak through flange joints.



Prime Features

- Gasket are made in a wide variety of sizes and shapes.
- Combinations of metal strip and filler are selected to suit the specific fluid media and operating conditions.
- Quick to install and remove
- Make gaskets suitable for high pipeline pressure on flat or raised flange faces.
- Temperatures from cryogenic up to 1000 °C



Manufacturer Standard

Products are manufactured in accordance with all relevant gasket standards to suit flange designations: ISO, ASME B16.20, API601, JIS B2404, JPI - 7S - 41, DIN2699, BS3381



Spiral Wound Gaskets Package Types

- 1/2" ~ 12" gaskets are packaged by plastic clips 10 pcs each
- 14"~ 24" packaged by plastic clips 5 pcs each
- Above 24" individually packaged with soft cotton tape each.

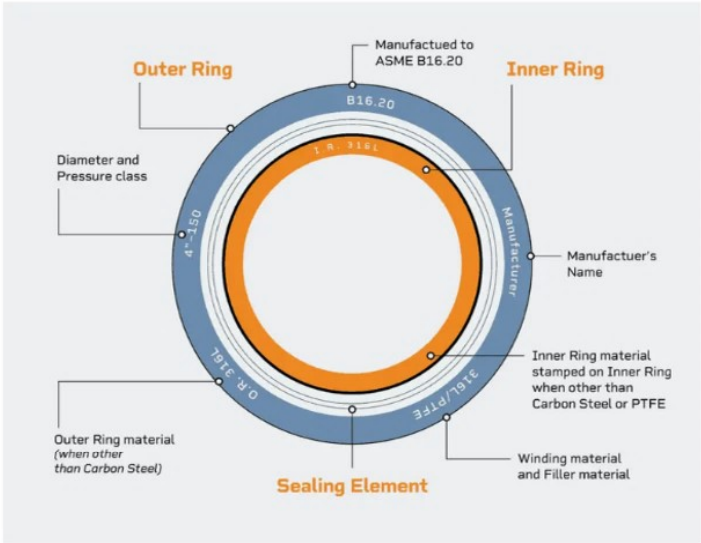


Markings on Spiral Wound Gasket

Spiral wound gaskets are identified using different markings on the gasket. Each marking provides brief information about the spiral wound gasket specification important during the gasket selection process.

Some of the necessary information are:

- **Design Standard or Code:** The code based on which the spiral wound gasket is designed and manufactured is clearly marked. In Fig. 1, you can easily find the standard **ASME B16.20**.
- **Name of the Spiral Wound Gasket Manufacturer:** One can easily understand the manufacturer of the gasket by looking at the manufacturer name mentioned on it.
- **Winding and Filler Material:** Both the winding and filler materials are clearly specified on the spiral wound gasket. Specific gasket colors also provide a lot of information regarding the materials.



- **Diameter and Pressure class:** The size of the gasket and the load the spiral wound gasket can handle, are specified by the Diameter and Pressure Class marking on the gasket.
- **Inner and Outer ring material**

Spiral Wound Gaskets Materials

Ring & Strip Materials						
Material	Minimum		Maximum		Abbreviation	Guide Ring Color Code
	F	C	F	C		
SS304	-320	-195	1400	760	304	Yellow
SS316L	-150	-100	1400	760	316L	Green
SS347L	-150	-100	1400	760	317L	Maroon
SS321	-320	-195	1400	760	321	Turquoise
SS347	-320	-195	1700	925	347	Blue
Carbon Steel	-40	-40	1000	540	CRS	Silver
Alloy 20	-300	-185	1400	760	A-20	Black
Hastelloy B3	-300	-185	2000	1090	HAST B	Brown
Hastelloy C276	-300	-185	2000	1090	HAST C	Beige
Incoloy 800	-150	-100	1600	870	IN 800	White
Incoloy 825	-150	-100	1600	870	IN 825	White
Inconel 600	-150	-100	2000	1090	INC 600	Gold
Inconel 625	-150	-100	2000	1090	INCO 625	Gold
Inconel X750	-150	-100	2000	1090	INX	No Color
Monel 400	-200	-130	1500	820	MON	Orange
Nickel 200	-320	-195	1400	760	NI	Red
Titanium	-320	-195	2000	1090	TI	Purple
Filler Materials						
Material	Minimum		Maximum COT		Abbreviation	Stripe Color Code
	F	C	F	C		
Flexible Graphite	-350	-212	950	510	F.G.	Gray
PTFE	-400	-240	500	260	PTFE	White
Ceramic	-350	-212	2000	1090	CER	Light Green
Mica Graphite	-350	-212	1100	590	MICA-GRA	Pink

* According to ASME B16.20 Standard

Standard Tolerances for Windings		
Gasket Diameter	ID	OD
≤ 25 mm	+0.4 mm, -0	+0, - 0.8 mm
25 - 610 mm	+0.8 mm, -0	+0, - 0.8 mm
610 - 915 mm	+1.2 mm, -0	+0, - 1.6 mm
915 - 1525 mm	+1.6 mm, -0	+0, - 1.6 mm
≥ 1525 mm	+2.4 mm, -0	+0, - 2.4 mm

Thickness	
Nominal Thickness	Compressed Thickness
3.2 mm	2.4/2.6 mm
4.5 mm	3.2/3.45 mm
7.3 mm	5.0/5.25 mm

Standard:

CSI Industries can produce according to ASME, BS, JIS AND EN (DIN) standards or client request

Dimensions for Spiral wound gasket per ASME B16.20 to suit ASME B16.5 flanges.								
Normal Pipe Size (NPS)	CLASS 150							
	Inner Ring Dia ID1		Winding Inside ID2		Winding Outside OD3		Guide Ring OD4	
	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

Normal Pipe Size (NPS)	CLASS 300							
	Inner Ring Dia ID1		Winding Inside ID2		Winding Outside OD3		Guide Ring OD4	
	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

*Not listed in ASME B36.20

Standard:

CSI Industries can produce according to ASME, BS, JIS AND EN (DIN) standards or client request

Normal Pipe Size (NPS)	CLASS 400							
	Inner Ring Dia ID1		Winding Inside ID2		Winding Outside OD3		Guide Ring OD4	
	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

Normal Pipe Size (NPS)	CLASS 600							
	Inner Ring Dia ID1		Winding Inside ID2		Winding Outside OD3		Guide Ring OD4	
	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

*Not listed in ASME B36.20

Standard:
 CSI Industries can produce according to ASME, BS, JIS AND EN (DIN) standards or client request

Normal Pipe Size (NPS)	CLASS 900							
	Inner Ring Dia ID1		Winding Inside ID2		Winding Outside OD3		Guide Ring OD4	
	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

Normal Pipe Size (NPS)	CLASS 1500							
	Inner Ring Dia ID1		Winding Inside ID2		Winding Outside OD3		Guide Ring OD4	
	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

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

Standard:

CSI Industries can produce according to ASME, BS, JIS AND EN (DIN) standards or client request

Normal Pipe Size (NPS)	CLASS 2500							
	Inner Ring Dia ID1		Winding Inside ID2		Winding Outside OD3		Guide Ring OD4	
	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	11.0	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

Gaskets details how to orde simple spec (Example):

- CSI600-S Wire + Filler x Thk 316L+FG x 4.5mm
- CSI600-SI Inner Ring / Wire + Filler x Thk 316L/316L+FG x 4.5mm
- CSI600-GS Wire + Filler / Guide Ring x Thk 316L+FG/CS x 4.5mm
- CSI600-GSI Inner Ring / Wire + Filler / Guide Ring x Thk 316L/316L+FG/CS x 4.5mm



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