



# BETTER PIPELINE BETTER CONNECTION

Steel pipes Pipe Fittings Flange Gaskets

#### **Spiral Wound Gaskets**

#### Introduction:

Metal wound flat gasket is winded by v-type metallic and non-metallic Strip packing. The filler ensures the tightness of gaskets, metal bands ensure the gasket elasticity and resistance. It is typically used in volatile conditions of temperature and pressure, according to different usage, spiral wound gasket can have inner ring and the outer metal ring.

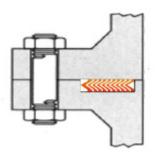
#### Advantages:

- Durable, not squeezed.
- Through different combinations of metal and filler strips, can be made into products that meet the different working conditions.
- Fastening force range.
- Easy installation, demolished check will not damage the flange.

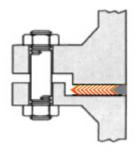
#### **Gasket fastening force ranges:**

Filler	With I	nner ring or out	er ring	With	inner and outer	r rings
Material	Faste	ning stress (20	<b>)</b> ℃)	Faste	ning stress (20	<b>)</b> ℃)
	Min	Optimum	Max	Min	Optimum	Max
	$(N/MM^2)$	(N/MM²)	(N/MM²)	(N/MM²)	(N/MM²)	(N/MM²)
Graphite	50	95	180	50	120	400
PTFE	50	80	130	50	110	250
Mica	55	95	130	50	120	250

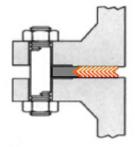
#### **Spiral Wound Gasket Forms:**



Just formed by the metal band and packing tape winding, suitable for tongue and Groove facing flange.

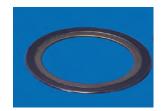


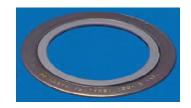
With inner strengthening ring, suitable for male and female flange. Installing the inner ring prevents erosion of the wound area by media.



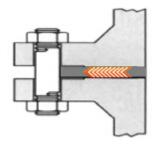
Outside the ring, suitable for raised face flanges. External centering rings ensure gasket installation fast, precision, prevents gasket compression failure.

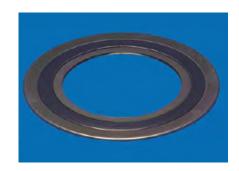












The most commen type is gaskets with inner and outer rings, suitable for raised face flanges.

#### Type options:

• Metal inner-ring advantage: prevent radial deformation of packed with overflow.

Reduced systems of turbulent flow media, allowing the system to minimize flow resistance.

In high temperature condition, it can work as heat insulation.

Advantages of metal outer ring: enables the gasket is installed in the best location.

Protect winding parts to be damaged.

Prevent gasket damage after flying out to prevent overload and excessive gasket compression.

Note: when the pressure level exceeding Class 600 or under high temperature conditions, inner and outer rings must be worn. When packing is PTFE, must be with inner ring.

#### **Metal Choies:**

Materials of spiral wound gaskets inner ring and metal band usually must agree with flange, so that you can avoid galvanic corrosion and differential swelling caused by different materials. Outer rings are usually carbon steel surface has been treated with preservatives or same material with the flange.

Matarial	Tuna	Proper temp	oerature(°C)	Danaita (2/223)
Material	Туре	lowest	highest	Density (g/cm <sup>3</sup> )
Carbon steel	S	-40	500	7.85
Stainless steel 304	SS304	-250	550	7.9
Stainless steel 304L	SS304L	-250	550	7.9
Stainless steel 316	SS316	-100	550	7.9
Stainless steel 316L	SS316L	-100	550	7.9
Stainless steel 316Ti	SS316Ti	-100	550	7.8
Stainless steel 321	SS321	-250	550	7.9
Duplex stainless steel	SS31803	-40	300	7.8
Advanced duplex	SS32750	-40	300	7.8



Alloy625	ALLOY625	-50	450	8.44
Alloy825	ALLOY825	-100	450	8.14
Hastelloy alloy 276	HAST-C276	-200	450	8.9
Titanium alloy	Ti2	-250	350	4.5

#### Choices of sealing packing belt

- Graphite packing belt: with excellent chemical resistance, not easy to aging, good sealing performance, high temperature conditions suitable for long time use.
- high temperature and oxygen graphite belt: inhibit the oxidation characteristics, can withstand the temperature higher than the ordinary graphite packing.
- The Teflon tape: can be used for almost all of the chemical medium, the temperature can reach 260 DEG C, not easy to aging, good air tightness.
- The mica tape: for use in ultra high temperature system. Combined using with high temperature and graphite band combination in gernal condition.

Filler strip material	end-use ter	-	Maximum working	Air tightness	The use of
Thier strip material	Lowest	Highest	pressure (bar)	All ugittiess	medium
Graphite	-200	450	400	Good	Corrosive medium
High temperature oxygen inhibition of graphite	-200	500	400	Good	Corrosive medium
PTFE	-200	260	100	Good	Corrosive medium
Mica	-200	1000	5	Average	Gas
Mica +High temperature oxygen inhibition of graphite	-200	800	100	Good	Gas



# SPIRAL WOUND GASKETS DIMENSION

# BS 1560 for ANSI B16.5 flanges

NPS	DN	d1		d2		d3				d4			
mm	in	150-400	600-2500	150-400	600-2500	150-2500	150	300	400	600	900	1500	2500
15	1/2	12,7	12,7	19,1	19,1	31,8	44,4	50,8	50,8	50,8	60,3	60,3	66,7
20	3/4	20,6	20,6	27	27	39,7	53,9	63,5	63,5	63,5	66,7	66,7	73
25	1	27	27	33,3	33,3	47,6	63,5	69,8	69,8	69,8	76,2	76,2	82,5
32	1 1/4	41,3	39,7	47,6	46	60,3	73	79,4	79,4	79,4	85,7	85,7	101,6
40	1 1/2	49,2	47,6	55,6	54	69,9	82,5	92,1	92,1	92,1	95,2	95,2	114,3
50	2	61,9	60,3	71,4	69,9	85,7	101,6	108	108	108	139,7	139,7	142,8
65	2 1/2	74,6	73	84,1	82,6	98,4	120,6	127	127	127	161,9	161,9	165,1
80	3	95,3	92,1	104,8	101,6	120,7	133,4	146,1	146,1	146,1	165,1	171,5	193,7
90	3 1/2	108	104,8	117,5	114,3	133,4	158,8	161,9	158,7	158,7			
100	4	117,5	114,3	130,2	127	149,2	171,5	177,8	174,6	190,5	203,2	206,4	231,7
125	5	144,5	141,3	157,2	154	177,8	193,7	212,7	209,5	238,1	244,5	250,8	276,2
150	6	171,5	168,3	184,2	181	209,6	219,1	247,7	244,5	263,5	285,8	279,4	314,3
200	8	222,3	219,1	235	231,8	263,5	276,2	304,8	301,6	317,5	355,6	349,3	384,1
250	10	276,2	269,9	288,9	282,6	317,5	336,5	358,8	355,6	396,9	431,8	431,8	473
300	12	330,2	323,8	342,9	336,5	374,6	406,4	419,1	415,9	454	495,3	517,5	546,1
350	14	361,9	355,6	374,6	368,3	406,4	447,7	482,6	479,4	488,9	517,5	574,7	
400	16	412,7	406,4	425,4	419,1	463,5	511,2	536,6	533,4	561,9	571,5	638,1	
450	18	466,7	460,4	479,4	473,1	527	546,1	593,7	590,5	609,6	635	701,7	
500	20	517,5	511,2	530,2	523,9	577,8	603,2	650,9	644,5	679,5	695,3	752,4	
650	22	574,4	568,4	587,4	581,1	635	657,2	701,7	698,5	730,3			
600	24	622,3	615,9	635	628,6	685,8	714,4	771,5	765,2	787,4	835	898,5	

# ASME B 16.47 Series A for MSS SP 44 flanges

DN			d1					d2					d3					d4		
in	150	300	400	600	900	150	300	400	600	900	150	300	400	600	900	150	300	400	600	900
26	654,1	654,1	660,4	647,7	666,8	673,1	685,8	685,8	685,8	685,8	704,9	736,6	736,6	736,6	736,6	774,7	835,2	831,9	866,9	882,7
28	704,9	704,9	711,2	698,5	711,2	723,9	736,6	736,6	736,6	736,6	755,7	787,4	787,4	787,4	787,4	831,9	898,7	892,3	914,4	946,2
30	755,7	755,7	755,7	755,7	774,7	774,7	793,8	793,8	793,8	793,8	806,5	844,6	844,6	844,6	844,6	882,7	952,5	946,2	971,6	1009,7
32	806,5	806,5	812,8	812,8	812,8	825,5	850,9	850,9	850,9	850,9	860,6	901,7	901,7	901,7	901,7	939,8	1006,6	1003,3	1022,4	1073,2
34	857,3	857,3	863,6	863,6	863,6	876,3	901,7	901,7	901,7	901,7	911,4	952,5	952,5	952,5	952,5	990,6	1057,4	1054,1	1073,2	1136,7
36	908,1	908,1	917,7	917,7	920,8	927,1	955,8	955,8	955,8	958,9	968,5	1006,6	1006,6	1006,6	1009,7	1047,8	1117,6	1117,6	1130,3	1200,2
38	958,9	952,5	952,5	952,5	1009,7	977,9	977,9	971,6	990,6	1035,1	1019,3	1016,0	1022,4	1041,4	1085,9	1111,3	1054,1	1073,2	1104,9	1200,2
40	1009,7	1003,3	1000,3	1009,7	1060,5	1028,7	1022,4	1025,7	1047,8	1098,6	1070,1	1070,1	1076,5	1098,6	1149,4	1162,1	1114,6	1127,3	1155,7	1251,0
42	1050,5	1054,1	1051,1	1066,8	1111,3	1079,5	1073,2	1076,5	1104,9	1149,4	1124,0	1120,9	1127,3	1155,7	1200,2	1219,2	1165,4	1178,1	1219,2	1301,8
44	1111,3	1104,9	1104,9	1111,3	1155,7	1130,3	1130,3	1130,3	1162,1	1206,5	1178,1	1181,1	1181,1	1212,9	1257,3	1276,4	1219,2	1231,9	1270,0	1368,6
46	1162,1	1152,7	1168,4	1162,1	1219,2	1181,1	1178,1	1193,8	1212,9	1270,0	1228,9	1228,9	1244,6	1263,7	1320,8	1327,2	1273,3	1289,1	1327,2	1435,1
48	1212,9	1209,8	1206,5	1219,2	1270,0	1231,9	1235,2	1244,6	1270,0	1320,8	1279,7	1286,0	1295,4	1320,8	1371,6	1384,3	1324,1	1346,2	1390,7	1485,9
50	1263,7	1244,6	1257,3	1270,0		1282,7	1295,4	1295,4	1320,8		1333,5	1346,2	1346,2	1371,6		1435,1	1378,0	1403,4	1447,8	
52	1314,5	1320,8	1308,1	1320,8		1333,5	1346,2	1346,2	1371,6		1384,3	1397,0	1397,0	1422,4		1492,3	1428,8	1454,2	1498,6	
54	1358,9	1352,6	1352,6	1378,0		1384,3	1403,4	1403,4	1428,8		1435,1	1454,2	1454,2	1479,6		1549,4	1492,3	1517,7	1555,8	
56	1409,7	1403,4	1403,4	1428,8		1435,1	1454,2	1454,2	1479,6		1485,9	1505,0	1505,0	1530,4		1606,6	1543,1	1568,5	1612,9	
58	1460,5	1447,8	1454,2	1473,2		1485,9	1511,3	1505,0	1536,7		1536,7	1562,1	1555,8	1587,5		1663,7	1593,9	1619,3	1663,7	
60	1511,3	1524,0	1517,7	1530,4		1535,7	1562,1	1568,5	1593,9		1587,5	1612,9	1619,3	1644,7	·	1714,5	1644,7	1682,8	1733,6	

### DIN 2632-2638 flanges

DNI	14	10		16										
DN	d1	d2		13 PN 64-320	DN 40	DNI 40	PN 25	DN 40		d4	DN 400	DNIOSO	DNI 200	DN 400
mm		PN 10-320			PN 10	PN 16		PN 40	PN 64	PN 100	PN 160	PN 250	PN 320	PN 400
10	18	24	36	36	46	46	46	46	56	56	56	67	67	67
15	22	28	40	40	51	51	51	51	61	61	61	72	72	78
20	27	33	47	47	61	61	61	61	72	72	72	77	77	404
25	34	40	54	54	71	71	71	71	82	82	82	83	92	104
32	43	49	65	65	82	82	82	82	90	90	90	100	440	405
40	48	54	70	70	92	92	92	92	103	103	103	109	119	135
50	57	66	84	84	107	107	107	107	113	119	119	124	134	150
65	73	82	102	104	127	127	127	127	137	143	143	153	170	192
80	86 108	95	115 140	119	142	142 162	142	142	148 174	154	154	170	190 229	207
100 125	108	120 146	140	144 172	162 192	192	168 194	168 194	210	180 217	180 217	202 242		256 301
150	162	174	196	200	217	217	224	224	247	257	257	284	274 311	348
175	183	174	221	200	217	247	254	265	247	287	284	316	358	402
200	213	225	251	257	272	272	284	290	309	324	324	358	398	442
250	267	279	307	315	327	328	340	352	364	391	388	442	488	442
300	318	330	358	366	377	383	400	417	424	458	458	538	400	
350	363	375	405	413	437	443	457	474	486	512	430	330		
400	414	426	458	466	488	495	514	546	543	572				
450	460	478	526	551	558	567	574	578	534	312				
500	518	530	566	574	593	617	624	628	657	704				
600	618	630	666	674	695	734	731	747	764	813				
700	718	730	770	778	810	804	833	852	879	010				
800	818	830	874	882	917	911	942	974	988					
900	910	930	974	982	1017	1011	1042	1084	1108					
1000	1010	1030	1078	1086	1124	1128	1154	1194	1220					
1200	1210	1230	1280	1290	1341	1342	1364	1398	1452					
1400	1420	1450	1510		1548	1542	1578	1618						
1600	1630	1660	1720		1772	1764	1798	1830						
1800	1830	1860	1920		1972	1964	2000							
2000	2020	2050	2120		2182	2168	2230							
2200	2230	2260	2330		2384	2376								
2400	2430	2480	2530		2594									
2600	2630	2660	2730		2794									
2800	2830	2860	2930		3014									
3000	3030	3060	3130		3228									



#### Gasket compression

Spiral-would gaskets shall be designed in such a way that a uniform bolt stress, based on the nominal root diameter will compress the gasket to a thickness(e).

	STANDARD GAS KET COMPRESSION							
S	3,5	4,5	6,5					
е	e $2,5^{\pm0,1}$ $3,3^{\pm0,1}$ $4,7^{\pm0,1}$							

# 45° | b<sub>N</sub>,1 | d<sub>NO</sub>

#### Connections with non-load bearing gaskets

Since no standards exist as yet for the use of spiral-wound gaskets in no-load bearing connections, the application of guidelines from the adjacent table is recommended.

		1	GASKETS AN	D GROOVES	DIMENSIONS	6		
	Spir	ral-wound ga	sket	Groove				
d <sub>M</sub>	b <sub>G</sub>	d <sub>3</sub>	d <sub>2</sub>	s	d <sub>NO</sub>	b <sub>N</sub>	d <sub>NI</sub>	t <sub>N</sub>
< 300	5-9	d <sub>G</sub> + b <sub>G</sub>	d <sub>G</sub> -b <sub>G</sub>	3,5	d <sub>3</sub> + 1	b <sub>G</sub> /0,86	d <sub>NO</sub> -2b <sub>N</sub>	2,5 <sup>±0,1</sup>
< 1000	9-17	d <sub>G</sub> + b <sub>G</sub>	d <sub>G</sub> -b <sub>G</sub>	3,5	d <sub>3</sub> + 1,5		$d_{NO}$ -2 $b_N$	2,5 <sup>±0,1</sup>
< 300	5-9	d <sub>G</sub> + b <sub>G</sub>	d <sub>G</sub> -b <sub>G</sub>	4,5	d <sub>3</sub> + 1		$d_{NO}$ -2 $b_{N}$	3,3 <sup>±0,1</sup>
< 1000	9-17	d <sub>G</sub> + b <sub>G</sub>	d <sub>G</sub> -b <sub>G</sub>	4,5	d <sub>3</sub> + 1,5		d <sub>NO</sub> -2b <sub>N</sub>	3,3 <sup>±0,1</sup>

 $b_G$ -gasket width  $b_N$ -groove width

# b<sub>G</sub> d2<sup>+0,2</sup> dG d3

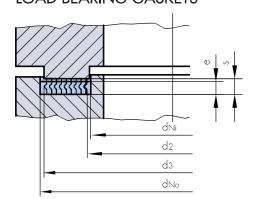
#### Tolerance Table

Flang	e size	Project	ion and	recess			Smooth o	ontactfac	Э	
NPS	DN	d2	d3	s1	d1	d2	d3	d4	s1	s2
< 10"	< 300	± 0,5	± 0,5	+ 0,8 + 0,1	± 0,8	± 0,8	± 0,8	± 0,8	+ + 0,1	+ 0,25 -0,15
10" - 24"	300 - 700	± 0,8	± 0,8	+ 0,8 + 0,1	± 0,8	± 0,8	± 0,8	+ 0,8 -1,6	+ 0,8 + 0,1	+ 0,25 -0,15
26" - 50"	800 - 1200	± 1,2	± 1,2	+ 0,8 + 0,1	± 1,6	± 1,6	± 1,6	+ 0,8 -2,0	+ 0,8 + 0,1	+ 0,25 -0,15
> 50"	> 1200				± 2,4	± 2,4	± 2,4	+ 0,8 -3,0	+ 0,8 + 0,1	+ 0,25 -0,15

#### Gasket parameters

			DIN 2505	A:	SME
Gasket Type	MATERIAL (Jacket)	k <sub>1</sub> [mm]	koxKo [N/mm]	m	y [MPa]
MS 10, MS 12,	Steel, Cr-Steel	1,3xb <sub>D</sub>	50xbD	1,3	50
MS 14, MS 16	CrNi-Steel, Monel	1,4xb <sub>D</sub>	55xb <sub>D</sub>	1,4	55
	CrNi-Steel (Graphite/PTFE)	1,2xb <sub>D</sub>	40xb <sub>D</sub>	1,2	40

#### LOAD BEARING GASKETS





# **Ring Joint Gasket**

#### Introduction:

Metal ring gasket is solid metal gasket octagonal or oval shaped that made from metal material, with radial self tight seal effect. The metal ring gasket is internal and external side cushion plate and flange trapezoidal grooves (mainly the outer side) contact, and through the pressing and forming a seal.

#### Advantage:

- High temperature resistant, high pressure resistant, suitable for high pressure flange;
- lasting and reliable sealing performance;
- Adapt to the load frequency variable working condition;

#### Classification:

Classification:		
Model	Description	Cross-sectional shape
R Series	The most common type of ring joint gasket, oval pad and octagon gasket. This type is a serial connection flange standard design, pressure up to 5000Psi. Octagonal pad compared elliptical pad speaking, has better sealing effect.	Oval Octagonal
RX Series:	Section design of this series of gasket can use to pipeline pressure to improve sealing performance.  Because of the characteristics of this series is more suitable for the gasket impact of large, strong motion, frequent pressure changes in working conditions such as oil drilling platform.	
BX Series:	This series is designed to seal gasket pressure up to 20000Psi. Gasket section is square, four angle, size of the gasket is slightly larger than the flange groove, so that when the gasket is installed, the outer surface by pre pressure can produce high stress, improve the sealing effect.	



IX Series	This series of gasket is by Norway Petroleum Institute (OLF) and the Federation of Norway industries jointly launched. Specifically for the petroleum and petrochemical, marine platform. Section design special assurance in high	
	Section design special, assurance in high stress of bolt, keep good sealing	
	performance.	

<sup>\*</sup> According to the drawing processing non-standard products

In order to avoid flange damage, the ring joint gasket material hardness is lower than the flange hardness, the table below provides the hardness and the use of conventional material temperature metallic ring gasket:

	Highest hardness ①		Temperati		
Material	Brinell hardness HB <sup>2</sup>	Rockwell hardness HRB <sup>3</sup>	Lowest	Highest	Density (g/cm <sup>3</sup> )
soft iron	90	56	-40	500	7.85
carbon steel	120	68	-40	500	7.85
F5	130	72	-40	650	7.83
SS304	160	83	-250	550	7.9
SS316L	160	83	-100	550	7.9
Duplex31803	230	99	-40	300	7.8
Monel400	150	80	-125	600	8.8
Inconel625	150	80	-50	450	8.44
Inconel825	195	92	-100	450	8.14
Hastelloy C276	210	95	-200	450	8.9
Titanium	215	96	-250	350	4.5

 $<sup>{\</sup>cal O}$  Above table hardness of materials hardness standard, can reduce the gasket hardness to cooperate with the on-site flange by heat treatment.

#### **Quality control:**

All production of the metal ring gasket are in accordance with API6A PSL 4 specifications. Each of the metal ring gasket are clearly marking, including: material, change number, standard, oven number.

#### **Product inspection:**

Spectrum test: each batch of incoming raw materials need to be done before the spectral test, determination of material.

Hardness test: finished the final finishing, sampling for hardness testing of products.

Surface roughness test: R series and RX series gasket surface roughness is 1.6 m, BX series of gasket is 0.8 M.

 $<sup>{\</sup>it \it C}$  Brinell hardness is the use of ball diameter 10mm, the specimen surface applied 3000kg measured pressure.

 $<sup>{</sup>f \mathfrak{G}}$  Rockwell hardness is 1.6mm diameter steel ball, on the specimen surface applied 100kg measured pressure.



# **Ring Type Joint Gaskets**

#### **R** Series

R series ring type joint gaskets are manufactured to API-6A and ASME B16.20 specifications. Available in standard mild steel, stainless steel 304 and stainless steel 316.

R series ring type joint gaskets are available in oval and octagonal designs. The oval design can be used in older round bottom gland designs, while both can be used in a flat bottom design. R Series are available up to 5,000 PSI.

#### **RX Series**

RX series are interchangable with R series octagonal gaskets designed for API 6B flanges. RX out perform R series in situations that have higher pressures with more intense vibrations. RX gaskets are available up to 5,000 PSI.



R Oval



R Octagonal



 $R\rangle$ 

Pipe Size	Ring Number at Class Rating						
	150	300	400	600	900	1500	2500
1/2"	-	R11	-	R11	R12	R12	R13
3/4"	-	R13	-	R13	R14	R14	R16
1"	R15	R16	-	R16	R16	R16	R18
1-1/4"	R17	R18	-	R18	R18	R18	R21
1-1/2"	R19	R/RX20	-	R/RX20	R/RX20	R/RX20	R/RX23
2"	R22	R/RX23	-	R/RX23	R/RX24	R/RX24	R/RX26
2-1/2"	R/RX25	R/RX26	-	R/RX26	R/RX27	R/RX27	R28
3"	R29	R/RX31	-	R/RX31	R/RX31	R/RX35	R32
3-1/2"	R33	R34	-	R34	-	-	-
4"	R36	R/RX37	R/RX37	R/RX37	R/RX37	R/RX39	R38
5"	R40	R/RX41	R/RX41	R/RX41	R/RX41	R/RX44	R42
6"	R43	R/RX45	R/RX45	R/RX45	R/RX45	R/RX46	R/RX47
8"	R48	R/RX49	R/RX49	R/RX49	R/RX49	R/RX50	R51
10"	R52	R/RX53	R/RX53	R/RX53	R/RX53	R/RX54	R55
12"	R56	R/RX57	R/RX57	R/RX57	R/RX57	R58	R60
14"	R59	R61	R61	R61	R62	R/RX63	-
16"	R64	R/RX65	R/RX65	R/RX65	R/RX66	R67	-
18"	R68	R/RX69	R/RX69	R/RX69	R/RX70	R71	-
20"	R72	R/RX73	R/RX73	R/RX73	R/RX74	R75	-
24"	R76	R77	R77	R77	R78	R79	-

# **Ring Type Joint Gaskets**

Model R and RX (For Fanges in accordance with API spec 6A, model 6B)

Dina Ciza	Ring Number at Class Rating					
Pipe Size	2000	3000	5000			
2-1/6"	R/RX23	R/RX24	R/RX24			
2-9/16"	R/RX26	R/RX27	R/RX27			
3-1/8"	R/RX31	R/RX31	R/RX35			
4-1/16"	R/RX37	R/RX37	R/RX39			
5-1/8"	R/RX41	R/RX41	R/RX44			
7-1/16"	R/RX45	R/RX45	R/RX46			
9"	R/RX49	R/RX49	R/RX50			
11"	R/RX53	R/RX53	R/RX54			
13-5/8"	R/RX57	R/RX57	-			
16-3/4"	R/RX65	R/RX66	-			
20-3/4"	-	R/RX74	-			
21-1/4"	R/RX73	-	-			

Model R or RX (For flanges in accordance with ASME B16.47 series A (MSS-SP44))

Dino Cizo	Ring Number at Class Rating				
Pipe Size	300-600	900			
26"	R93	R100			
28"	R94	R101			
30"	R95	R102			
32"	R96	R103			
34"	R97	R104			
36"	R98	R105			



# **Ring Type Joint Gaskets**

#### **BX** Series

BX series ring joint gaskets feature a pressure relief vent and are designed for API 6BX flanges reaching pressures up to 20,000 PSI. BX series ring joint gaskets are available in low carbon steel, stainless steel 304 and stainless steel 316.



BX

Dina Cina	Ring Number at Pressure Rating (PSI)					
Pipe Size	2000	3000	5000	10000	15000	20000
1-11/16"	_	-	-	BX150	BX150	-
1-13/16"	-	-	-	BX151	BX151	BX151
2-1/16"	-	-	-	BX152	BX152	BX152
2-9/16"	-	-	-	BX153	BX153	BX153
3-1/16"	-	-	-	BX154	BX154	BX154
4-1/16"	-	_	-	BX155	BX155	BX155
5-1/8"	-	-	-	BX169	BX169	-
7-1/16"	_	-	-	BX156	BX156	BX156
9"	_	_	-	BX157	BX157	BX157
11"	-	-	-	BX158	BX158	BX158
13-5/8"	-	-	BX160	BX159	BX159	BX159
16-3/4"	-	_	BX162	BX162	-	-
18-3/4"	-	_	BX163	BX164	BX164	-
21-1/4"	-	-	BX165	BX166	-	-
26-3/4"	BX167	BX168	-	-	-	-
30"	BX303	BX303	-	-	-	-



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