

Flange Specifications

Kit Contents: Each insulation kit contains an insulating gasket, insulating washers, steel washers and sleeves for each bolt or stud. Flange insulation gaskets are made in all sizes, pressure ratings and virtually all suitable materials. The size and shape of each varies depending on the flange type, size and pressure.

Gaskets				Sleeves **		Washers	
Flange Size	ASA ANSI* Lb Class	"D" RTJ ASA Ring No	Number and Bolt Size	I.D. (inches)	Length (inches)	I.D. (inches)	O.D. (inches)
1"	150	R-15	4-1/2	1/2	1-5/16	9-16	1-1/8
	300	R-16	4-5/8	5/8	1-9/16	11/16	1-5/16
	400,600	R-16	4-5/8	5/8	2-1/16	11/16	1-5/16
	9,001,500	R-16	4-7/8	7/8	2-15/16	15/16	1-3/4
	2,500	R-18	4-7/8	7/8	3-7/16	15/16	1-3/4

Gaskets				Sleeves **		Washers	
Flange Size	ASA ANSI* Lb Class	"D" RTJ ASA Ring No	Number and Bolt Size	I.D. (inches)	Length (inches)	I.D. (inches)	O.D. (inches)
1 1/4"	150	R-17	4-1/2	1/2	1-7/16	9/16	1-1/8
	300	R-18	4-5/8	5/8	1-11/16	11/16	1-5/16
	400,600	-	4-5/8	5/8	2-5/16	11/16	1-5/16
	9,001,500	R-18	4-7/8	7/8	2-15/16	15/16	1-3/4
	2,500	R-21	4-1	4-1	1	3-11/16	1-1/16

Gaskets				Sleeves **		Washers	
Flange Size	ASA ANSI* Lb Class	"D" RTJ ASA Ring No	Number and Bolt Size	I.D. (inches)	Length (inches)	I.D. (inches)	O.D. (inches)
1 1/2"	150	R-19	4-1/2	1/2	1-9/16	9/16	1-1/8
	300	R-20	4-3/4	3/4	1-13/16	13/16	1-9/16
	400,600	R-20	4-3/4	3/4	2-7/16	13/16	1-9/16
	9,001,500	R-20	4-1	1	3-1/16	1-1/16	2
	2,500	R-23	4-1-1/8	4-1-1/8	1-1/8	4-3/16	1-3/16

Gaskets				Sleeves **		Washers	
Flange Size	ASA ANSI* Lb Class	"D" RTJ ASA Ring No	Number and Bolt Size	I.D. (inches)	Length (inches)	I.D. (inches)	O.D. (inches)
2"	150	R-22	4-5/8	5/8	1-11/16	11/16	1-5/16
	300	R-23	8-5/8	5/8	1-15/16	11/16	1-5/16
	400,600	R-23	8-5/8	5/8	2-11/16	11/16	1-5/16
	9,001,500	R-24	8-7/8	7/8	3-11/16	15/16	1-3/4
	2,500	R-26	8-1	8-1	1	4-11/16	1-1/16

Gaskets				Sleeves **		Washers	
Flange Size	ASA ANSI* Lb Class	"D" RTJ ASA Ring No	Number and Bolt Size	I.D. (inches)	Length (inches)	I.D. (inches)	O.D. (inches)
2 1/2"	150	R-25	4-5/8	5/8	1-15/16	11/16	1-5/16
	300	R-26	8-3/4	3/4	2-3/16	13/16	1-9/16
	400,600	R-26	8-3/4	3/4	2-15/16	13/16	1-9/16
	9,001,500	R-27	8-1	1	3-15/16	1-1/16	2
	2,500	R-28	8-1-1/8	1-1/8	5-3/16	1-3/16	2-3/16

Gaskets				Sleeves **		Washers	
Flange Size	ASA ANSI* Lb Class	"D" RTJ ASA Ring No	Number and Bolt Size	I.D. (inches)	Length (inches)	I.D. (inches)	O.D. (inches)
3"	150	R-29	4-5/8	5/8	2-1/16	11/16	1-5/16
	300	R-31	8-3/4	3/4	2-7/16	13/16	1-9/16
	400,600	R-31	8-3/4	3/4	3-3/16	13/16	1-9/16
	900	R-31	8-7/8	7/8	3-11/16	15/16	1-3/4
	1,500	R-35	8-1-1/8	1-1/8	4-7/16	1-3/16	2-3/16
	2,500	R-32	8-1-1/4	1-1/4	5-15/16	1-5/16	2-7/16

Gaskets				Sleeves **		Washers	
Flange Size	ASA ANSI* Lb Class	"D" RTJ ASA Ring No	Number and Bolt Size	I.D. (inches)	Length (inches)	I.D. (inches)	O.D. (inches)
3 1/2"	150	R-33	8-5/8	5/8	2-1/16	11-16	1-5/16
	300	R-34	8-3/4	3/4	2-9/16	13/16	1-9/16
	400,600	R-34	8-7/8	7/8	3-7/16	15/16	1-3/4

Gaskets				Sleeves **		Washers	
Flange Size	ASA ANSI* Lb Class	"D" RTJ ASA Ring No	Number and Bolt Size	I.D. (inches)	Length (inches)	I.D. (inches)	O.D. (inches)
4"	150	R-36	8-5/8	5/8	2-1/16	11/16	1-5/16
	300	R-37	8-3/4	3/4	2-11/16	13/16	1-9/16
	400	R-37	8-7/8	7/8	3-7/16	15/16	1-3/4
	600	R-37	8-7/8	7/8	3-11/16	15/16	1-3/4
	900	R-37	8-1-1/8	1-1/8	4-3/16	1-3/16	2-3/16
	1,500	R-39	8-1-1/4	1-1/4	4-15/16	15/16	2-7/16
	2,500	R-38	8-1-1/2	1-1/2	6-11/16	1-9/16	2-7/8

Gaskets				Sleeves **		Washers	
Flange Size	ASA ANSI* Lb Class	"D" RTJ ASA Ring No	Number and Bolt Size	I.D. (inches)	Length (inches)	I.D. (inches)	O.D. (inches)
5"	150	R-40	8-3/4	3/4	2-1/16	13/16	1-9/16
	300	R-41	8-3/4	3/4	2-15/16	13/16	1-9/16
	400	R-41	8-7/8	7/8	3-11/16	15/16	1-3/4
	600	R-41	8-1	1	4-3/16	1-1/16	2
	900	R-41	8-1-1/4	1-1/4	4-11/16	1-5/6	2-7/16
	1,500	R-44	8-1-1/2	1-1/2	6-7/16	1-9/16	2-7/8
	2,500	R-42	8-1-3/4	1-3/4	7-15/16	1-13/16	3-5/16

Gaskets				Sleeves **		Washers	
Flange Size	ASA ANSI* Lb Class	"D" RTJ ASA Ring No	Number and Bolt Size	I.D. (inches)	Length (inches)	I.D. (inches)	O.D. (inches)
6"	150	R-43	8-3/4	3/4	2-3/16	11/16	1-9/16
	300	R-45	12-3/4	3/4	3-1/16	13/16	1-9/16
	400	R-45	12-7/8	7/8	3-15/16	15/16	1-3/4
	600	R-45	12-1	1	4-7/16	1-1/16	2
	900	R-45	12-1-1/8	1-1/8	5-1/16	1-3/16	2-3/16
	1,500	R-46	12-1-3/8	1-3/8	7-3/16	1-7/16	2-5/8
	2,500	R-47	8-2	2	9-3/16	2-1/16	3-3/4

Gaskets				Sleeves **		Washers	
Flange Size	ASA ANSI* Lb Class	"D" RTJ ASA Ring No	Number and Bolt Size	I.D. (inches)	Length (inches)	I.D. (inches)	O.D. (inches)
8"	150	R-48	8-3/4	3/4	2-7/16	13/16	1-9/16
	300	R-49	12-7/8	7/8	3-7/16	15/16	1-3/4
	400	R-49	12-1	1	4-7/16	1-1/16	2
	600	R-49	12-1-1/8	1-1/8	5-1/16	1-3/16	2-3/16
	900	R-49	12-1-3/8	1-3/8	5-11/16	1-7/16	2-5/8
	1,500	R-50	12-1-5/8	1-5/8	7-15/16	1-11/16	3-1/16
	2,500	R-51	12-2	2	10-11/16	2-1/16	3-3/4

Gaskets				Sleeves **		Washers	
Flange Size	ASA ANSI* Lb Class	"D" RTJ ASA Ring No	Number and Bolt Size	I.D. (inches)	Length (inches)	I.D. (inches)	O.D. (inches)
10"	150	R-52	12-7/8	7/8	2-9/16	15/16	1-3/4
	300	R-53	16-1	1	3-15/16	1-1/16	2
	400	R-53	16-1-1/8	1-1/8	4-15/16	1-3/16	2-3/16
	600	R-53	16-1-1/4	1-1/4	5-11/16	1-5/16	2-7/16
	900	R-53	16-1-3/8	1-3/8	6-3/16	1-7/16	2-5/8
	1,500	R-54	12-1-7/8	1-7/8	9-3/16	1-15/16	3-1/2
	2,500	R-55	12-2-1/2	2-1/2	13-11/16	2-9/16	4-5/8

Gaskets				Sleeves **		Washers	
Flange Size	ASA ANSI* Lb Class	"D" RTJ ASA Ring No	Number and Bolt Size	I.D. (inches)	Length (inches)	I.D. (inches)	O.D. (inches)
12"	150	R-52	12-7/8	7/8	2-11/16	15/16	1-3/4
	300	R-57	16-1-1/8	1-1/8	4-3/16	1-3/16	2-3/16
	400	R-57	16-1-1/4	1-1/4	5-3/16	1-5/16	2-7/16
	600	R-57	20-1-1/4	1-1/4	5-15/16	1-5/16	2-7/16
	900	R-57	20-1-3/8	1-3/8	6-15/16	1-7/16	2-5/8
	1,500	R-58	16-2	2	10-7/16	2-1/16	3-3/4
	2,500	R-60	12-2-3/4	2-3/4	15-3/16	2-13/16	5-1/16

Gaskets				Sleeves **		Washers	
Flange Size	ASA ANSI* Lb Class	"D" RTJ ASA Ring No	Number and Bolt Size	I.D. (inches)	Length (inches)	I.D. (inches)	O.D. (inches)
14"	150	R-59	12-1	1	2-15/16	1-1/16	2
	300	R-61	20-1-1/8	1-1/8	4-7/16	1-3/16	2-3/16
	400	R-61	20-1-1/4	1-1/4	5-7/16	1-5/16	2-7/16
	600	R-61	20-1-3/8	1-3/8	6-3/16	1-7/16	2-5/8
	900	R-62	20-1-1/2	1-1/2	7-7/16	1-9/16	2-7/8
	1,500	R-63	16-2-1/4	2-1/4	11-3/16	2-5/16	4-3/16

Gaskets				Sleeves **		Washers	
Flange Size	ASA ANSI* Lb Class	"D" RTJ ASA Ring No	Number and Bolt Size	I.D. (inches)	Length (inches)	I.D. (inches)	O.D. (inches)
16"	150	R-64	16-1	1	3-1/16	1-1/16	2
	300	R-65	20-1-1/4	1-1/4	4-11/16	1-5/16	2-7/16
	400	R-65	20-1-3/8	1-3/8	5-11/16	1-7/16	2-5/8
	600	R-65	20-1-1/2	1-1/2	6-11/16	1-9/16	2-7/8
	900	R-66	20-1-5/8	1-5/8	7-11/16	1-11/16	3-1/16
	1,500	R-67	16-2-1/2	2-1/2	12-3/16	2-9/16	4-5/8

Gaskets				Sleeves **		Washers	
Flange Size	ASA ANSI* Lb Class	"D" RTJ ASA Ring No	Number and Bolt Size	I.D. (inches)	Length (inches)	I.D. (inches)	O.D. (inches)
18"	150	R-68	16-1-1/8	1-1/8	3-5/16	1-3/16	2-3/16
	300	R-69	24-1-1/4	1-1/4	4-15/16	1-5/16	2-7/16
	400	R-69	24-1-3/8	1-3/8	5-15/16	1-7/16	2-5/8
	600	R-69	20-1-5/8	1-5/8	7-3/16	1-11/16	3-1/16
	900	R-70	20-1-7/8	1-7/8	8-11/16	1-15/16	3-1/2
	1,500	R-71	16-2-3/4	2-3/4	13-7/16	2-13/16	5-1/32

Gaskets				Sleeves **		Washers	
Flange Size	ASA ANSI* Lb Class	"D" RTJ ASA Ring No	Number and Bolt Size	I.D. (inches)	Length (inches)	I.D. (inches)	O.D. (inches)
20"	150	R-72	20-1-1/8	1-1/8	3-9/16	1-3/16	2-3/16
	300	R-73	24-1-1/4	1-1/4	5-3/16	1-5/16	2-7/16
	400	R-73	24-1-1/2	1-1/2	6-3/16	1-9/16	2-7/8
	600	R-73	24-1-5/8	1-5/8	7-11/16	1-11/16	3-1/16
	900	R-74	20-2	2	9-3/16	2-1/16	3-3/4
	1,500	R-75	16-3	3	14-11/16	3-1/16	5-1/2

Gaskets				Sleeves **		Washers	
Flange Size	ASA ANSI* Lb Class	"D" RTJ ASA Ring No	Number and Bolt Size	I.D. (inches)	Length (inches)	I.D. (inches)	O.D. (inches)
24"	150	R-76	20-1-1/4	1-1/4	3-15/16	1-5/16	2-7/16
	300	R-77	24-1-1/2	1-1/2	5-11/16	1-9/16	2-7/8
	400	R-77	24-1-3/4	1-3/4	6-11/16	1-13/16	3-5/16
	600	R-77	24-1-7/8	1-7/8	8-11/16	1-15/16	3-1/2
	900	R-78	20-2-1/2	2-1/2	11-11/16	2-9/16	4-5/8
	1,500	R-79	16-3-1/2	3-1/2	16-11/16	3-9/16	6-3/8

* E & F Gaskets are made to ANSI Specifications unless otherwise specified above ANSI 150# and should not be used in critical applications.

** Sleeves are full length as shown unless otherwise specified

All technical advice and recommendation are rendered by Seller free of charge. While based on data believed to be reliable, seller assumes no responsibility. While based on data believed to be reliable, seller assumes no responsibility.