

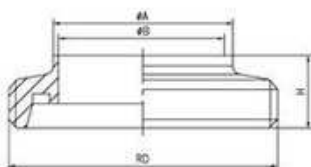
SANITARY UNION





DIN round nut-13

Size	A	RD	B	L	Short
15	44	RD34×1/8"	25	18	4
20	54	RD44×1/6"	32	20	4
25	63	RD52×1/6"	36	21	4
32	70	RD58×1/6"	42	21	4
40	78	RD65×1/6"	49	21	4
50	92	RD78×1/6"	62	22	4
65	112	RD95×1/6"	80	25	6
80	127	RD110×1/4"	94	29	6
100	148	RD130×1/4"	115	31	6
125	178	RD160×1/4"	138	34	6
150	210	RD190×1/4"	164	40	6



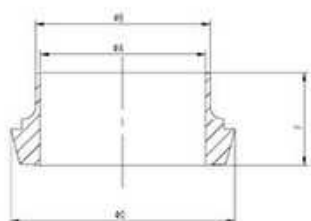
DIN Short welding male

Size	A	B	RD	H
20	22/23	19/20	RD44×1/6"	19
25	28/29	25/26	RD52×1/6"	20
32	34/35	31/32	RD58×1/6"	20
40	40/41	37/38	RD65×1/6"	21
50	52/53	49/50	RD78×1/6"	21
65	70	66	RD95×1/6"	23
80	85	81	RD110×1/4"	26
100	104	100	RD130×1/4"	28
125	129	125	RD160×1/4"	32
150	154	150	RD190×1/4"	36



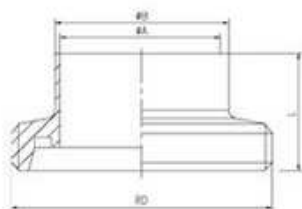
DIN Short welding liner

Size	A	B	C	H	D
20	19/20	22/23	36	13	5
25	25/26	28/29	44	15	5
32	31/32	34/35	50	15	5
40	37/38	40/41	56	15	5
50	49/50	52/53	68	16	5
65	66	70	86	17	5
80	81	85	100	17	5
100	100	104	121	20	5
125	125	129	150	25	8
150	150	154	176	26	8



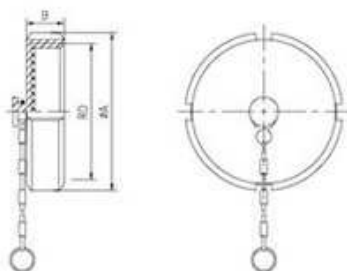
DIN11851 welding liner - 14

Size	B	A	C	L
15	18/19	15/16	28	17
20	22/23	19/20	36	18
25	28/29	25/26	44	22
32	34/35	31/32	50	25
40	40/41	37/38	56	26
50	52/53	49/50	68	28
65	70	66	86	32
80	85	81	100	37
100	104	100	121	44
125	129	125	150	34
150	154	150	176	37



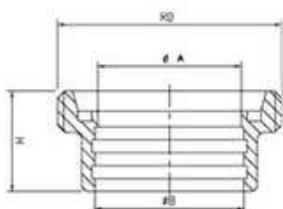
DIN11851 weld male-15

Size	B	A	RD	L
15	18/19	15/16	RD34×1/6"	21
20	22/23	19/20	RD44×1/6"	24
25	28/29	25/26	RD52×1/6"	29
32	34/35	31/32	RD58×1/6"	32
40	40/41	37/38	RD65×1/6"	33
50	52/53	49/50	RD78×1/6"	35
65	70	66	RD95×1/6"	40
80	85	81	RD110×1/4"	45
100	104	100	RD130×1/4"	54
125	129	125	RD160×1/4"	46
150	154	150	RD190×1/4"	50



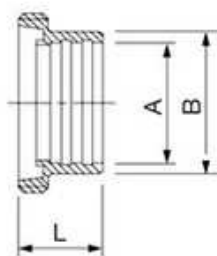
DIN blind nut with chain

size	A	B	RD
DN25	63	21	RD52×1/6"
DN32	70	21	RD58×1/6"
DN40	78	21	RD65×1/6"
DN50	92	22	RD78×1/6"
DN65	112	25	RD95×1/6"
DN80	127	30	RD110×1/4"
DN100	148	31	RD130×1/4"



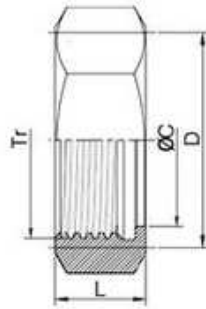
DIN11851 expanding male-15R

Size	B	A	RD	H
25	28.2	26	RD52×1/6"	29
32	34.2	32	RD58×1/6"	32
40	40.2	38	RD65×1/6"	33
50	52.2	50	RD78×1/6"	35
65	70.3	66	RD95×1/6"	40
80	85.3	81	RD110×1/4"	44
100	102	100	RD130×1/4"	54



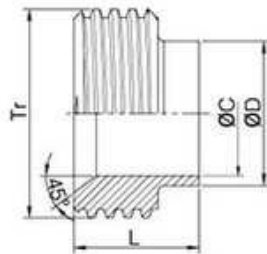
DIN11851 expanding male-14R

Size	A	B	L
25	26	28.2	22
32	32	34.2	25
40	38	40.2	26
50	50	52.2	28
65	66	70.3	32
80	81	85.3	35
100	100	102.2	42



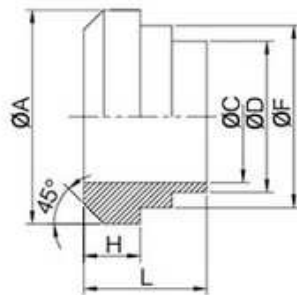
Hex Nut - 13H

Size	C	D	Tr	L
1"	30.3	46.0	38.02X1/8 TACME	23.0
1 1/2"	43.4	61.1	51.54X1/8 TACME	24.6
2"	56.5	76.2	65.05X1/8 TACME	27.0
2 1/2"	69.6	91.3	78.56X1/8 TACME	30.15
3"	82.7	106.4	92.08X1/8 TACME	32.5
4"	108.9	137.6	120.14X1/6TACME	38.1



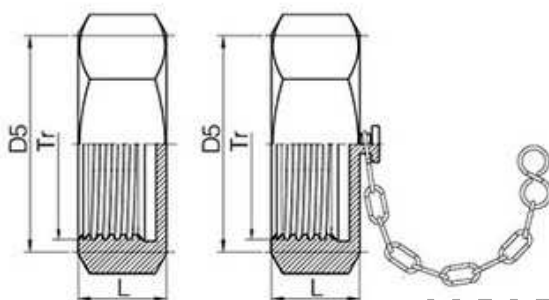
15TRF short/15A long threaded bevel seat ferrule

Size	C	D	Tr	L	
				15TRF	15A
1"	22.1	25.4	37.13X1/8 TACME	18.3	34.9
1.5"	34.8	38.1	50.65X1/8 TACME	18.3	38.1
2"	47.5	50.8	64.17X1/8 TACME	19.1	38.1
2.5"	60.2	63.5	77.67X1/8 TACME	22.2	44.5
3"	72.9	76.2	91.19X1/8 TACME	23.1	44.5
4"	97.4	101.6	119.25X1/6 TACME	26.2	44.5



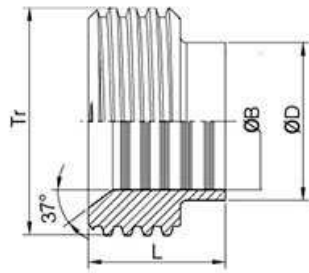
14TRF short/14A long plain bevel seat ferrule

Size	A	C	D	F	H	L	
						14PRF	14A
1"	33.3	22.1	25.4	29.5	7.9	18.3	34.9
1 1/2"	46.8	34.8	38.1	42.6	8.7	18.3	38.1
2"	60.3	47.5	50.8	55.7	10.3	19.1	38.1
2 1/2"	73.8	60.2	63.5	68.8	11.1	22.3	44.5
3"	87.3	72.9	76.2	81.9	11.9	23.1	44.5
4"	114.3	97.4	101.6	108.1	14.3	26.2	44.5



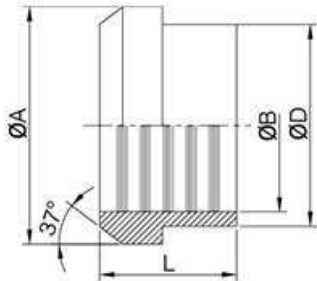
3A-13H Blind Nut(With Chain)

Size	D5	Tr	L
1"	46.0	38.02X1/8 TACME	23.0
1 1/2"	61.1	51.54X1/8 TACME	24.6
2"	76.2	65.05X1/8 TACME	27.0
2 1/2"	91.3	78.56X1/8 TACME	30.15
3"	106.4	92.08X1/8 TACME	32.5
4"	137.6	120.14X1/6 TACME	38.1



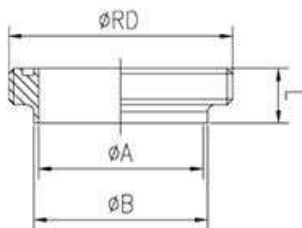
15R Expanding Male

Size	Tr		B	D	L
1"	37.13X1/8	TACME	25.5	29.5	20.6
1.5"	50.65X1/8	TACME	38.2	42.6	28.6
2"	64.17X1/8	TACME	50.9	55.7	34.9
2.5"	77.67X1/8	TACME	63.6	68.8	38.1
3"	91.19X1/8	TACME	76.3	81.9	41.3
4"	119.25X1/6	TACME	101.7	108.1	41.3



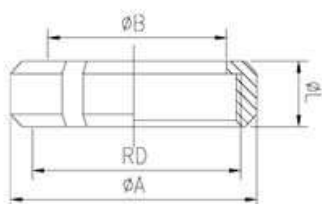
14R Expanding Liner

Size	A	B	D	L
1"	33.3	25.5	29.5	19.1
1.5"	46.8	38.2	42.6	28.6
2"	60.3	50.9	55.7	33.3
2.5"	73.8	63.6	68.8	34.9
3"	87.3	76.3	81.9	36.5
4"	114.3	101.7	108.1	38.1



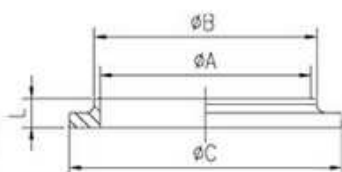
Cloud cluster

size	A	B	RD	L
25	22.4	25.4	RD40×1/6"	18
32	28.8	31.8	RD48×1/6"	20
38	35	38	RD60×1/6"	20
51	48	51	RD70×1/6"	20
63	59.5	63.5	RD85×1/6"	22
76	72.2	76	RD98×1/6"	24
102	97.6	101.6	RD125×1/6"	25



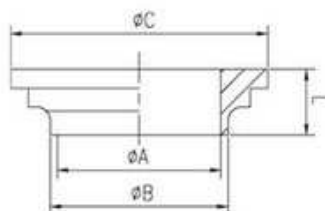
Sms Round Nut

size	A	Rd	B	L	SHORT
25	51	RD40×1/6"	32	19	6
38	73	RD60×1/6"	48	23	6
51	84	RD70×1/6"	60.5	24	6
63	98	RD85×1/6"	74	26	6
76	114	RD98×1/6"	87	27	6
102	140	RD125×1/6"	113	29	6



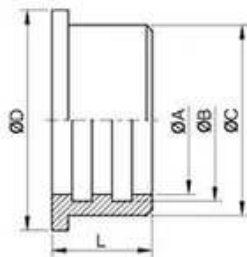
SMS short welding liner-14

size	A	B	C	L
25	22.4	25.4	35	9
38	35	38	55	10
51	48	51	65	10
63	59.5	63.5	80	10
76	72.2	76.2	93	10
102	97.6	101.6	120.5	10



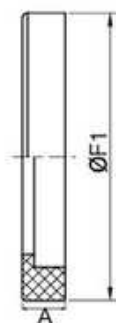
SMS long welding liner-14

size	A	B	C	E
25	22.4	25.4	35	13
38	35	38	55	15
51	48	51	65	15
63	59.5	63.5	80	15
76	72.2	76.2	93	17
102	97.6	101.6	121	17



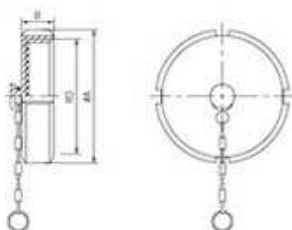
SMS Expanding Liner

Size	A	B	C	D	L
25	25.6	26.2	32.0	35.0	17.0
32	32.0	32.6	40.0	43.0	17.0
38	38.3	38.9	47.9	55.0	20.0
51	51.0	51.6	60.4	65.0	20.0
63	63.7	64.3	73.5	80.0	22.0
76	76.4	77.2	86.5	93.0	24.0
102	101.8	102.6	112.5	120.5	27.0



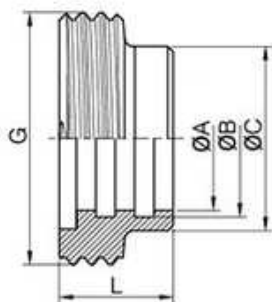
Gasket for Union

Size	A	F1
25	5.5	32.0
32	5.5	40.0
38	5.5	48.0
51	5.5	61.0
63	5.5	73.5
76	5.5	86.0
89	5.5	99.0
102	5.5	114.0



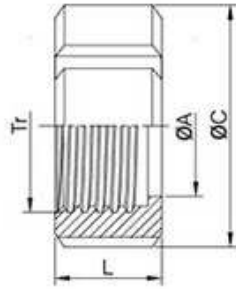
SMS blind nut with chain

size	A	B	RD
1"	51	19	RD40x1/6"
1 1/2"	73	23	RD60x1/6"
2"	84	24	RD70x1/6"
2 1/2"	98	26	RD85x1/6"
3"	114	27	RD98x1/6"
4"	140	29	RD125x1/6"



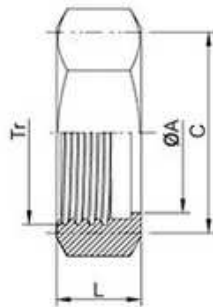
SMS Expanding Male

Size	A	B	C	G	L
25	25.6	26.2	32.0	RD40X1/6	20.0
32	32.0	32.6	40.0	RD48X1/6	20.0
38	38.3	38.9	47.9	RD60X1/6	23.0
51	51.0	51.6	60.4	RD70X1/6	25.0
63	63.7	64.3	73.5	RD85X1/6	30.0
76	76.4	77.2	86.5	RD98X1/6	30.0
102	101.8	102.6	112.5	RD125X1/4	30.0



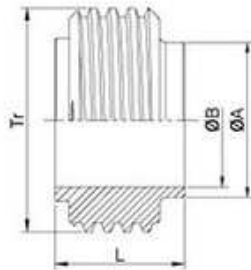
Round Nut

Size	A	Tr	C	L
Ø25	30.5	38.02x1/8 TACME	48.0	30.0
Ø38	43.5	51.54x1/8 TACME	64.0	30.0
Ø51	57.0	65.05x1/8 TACME	77.0	30.0
Ø63	70.7	78.56x1/8 TACME	91.0	30.0
Ø76	83.3	92.08x1/8 TACME	106.0	30.0
Ø102	110.0	119.1x1/8 TACME	135.0	30.0



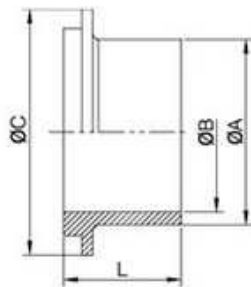
Hexagon Nut

Size	A	Tr	C	L
Ø25	30.3	38.02x1/8 TACME	46.0	30.0
Ø38	43.5	51.54x1/8 TACME	61.0	30.0
Ø51	57.0	65.05x1/8 TACME	76.2	30.0
Ø63	70.7	78.56x1/8 TACME	91.3	30.0
Ø76	83.3	92.08x1/8 TACME	106.5	30.0
Ø102	110.0	119.1x1/8 TACME	137.7	30.0



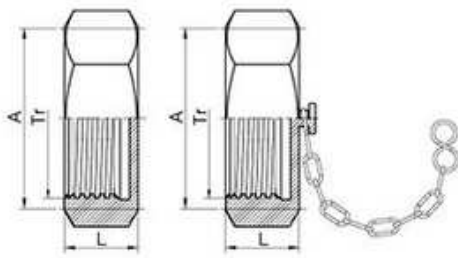
Male

Size	A	B	Tr	L
Ø25	25.4	22.4	37.1x1/8 TACME	21.5
Ø38	38.1	35.1	50.6x1/8 TACME	21.5
Ø51	50.8	47.8	64.1x1/8 TACME	21.5
Ø63	63.5	59.5	77.6x1/8 TACME	21.5
Ø76	76.2	72.2	91.1x1/8 TACME	21.5
Ø102	101.6	97.6	118.2x1/8 TACME	21.5



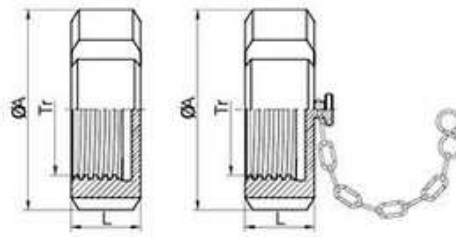
Liner

Size	A	B	C	L
Ø25	25.4	22.4	33.8	21.5
Ø38	38.1	35.1	47.0	21.5
Ø51	50.8	47.8	60.5	21.5
Ø63	63.5	59.5	74.0	21.5
Ø76	76.2	72.2	87.5	21.5
Ø102	101.6	97.6	114.1	21.5



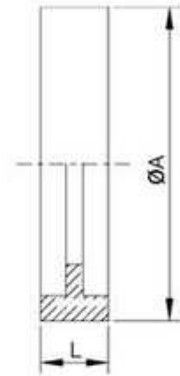
Hexagon Blind Nut(With Chain)

Size	A	Tr	L
Ø25	46.0	38.02x1/8 TACME	30.0
Ø38	61.0	51.54x1/8 TACME	30.0
Ø51	76.2	65.05x1/8 TACME	30.0
Ø63	91.5	78.56x1/8 TACME	30.0
Ø76	106.5	92.08x1/8 TACME	30.0
Ø102	137.7	119.1x1/8 TACME	30.0



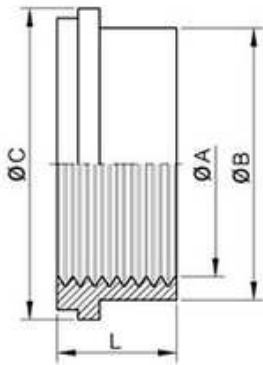
IDF-13 Blind Nut(With Chain)

Size	A	Tr	L
Ø25	48.0	38.02x1/8 TACME	30.0
Ø38	64.0	51.54x1/8 TACME	30.0
Ø51	77.0	65.05x1/8 TACME	30.0
Ø63	91.0	78.56x1/8 TACME	30.0
Ø76	106.0	92.08x1/8 TACME	30.0
Ø102	135.0	119.1x1/8 TACME	30.0



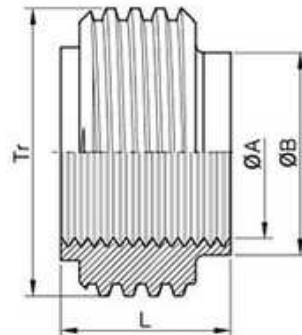
Gasket For Union

Size	A	L
Ø25	32.5	7.0
Ø38	46.0	7.0
Ø51	59.5	7.0
Ø63	73.0	7.0
Ø76	85.5	7.0
Ø102	114.0	7.0



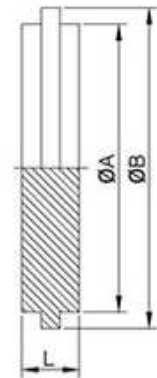
IDF-14R Expanding Liner

Size	A	B	C	L
Ø25	25.5	29.2	33.8	21.5
Ø38	38.2	42.7	47.0	21.5
Ø51	50.9	56.2	60.5	21.5
Ø63	63.6	69.9	74.0	21.5
Ø76	76.3	82.6	87.5	21.5
Ø102	101.7	111.1	114.1	21.5



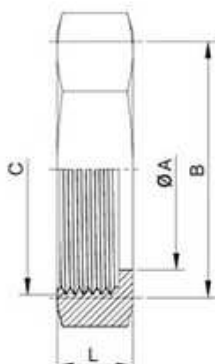
IDF-15R Expanding Male

Size	A	B	Tr	L
Ø25	25.5	29.2	37.13x1/8 TACME	21.5
Ø38	38.2	42.7	50.65x1/8 TACME	21.5
Ø50	50.9	56.2	64.16x1/8 TACME	21.5
Ø63	63.6	69.9	77.67x1/8 TACME	21.5
Ø76	76.3	82.6	91.19x1/8 TACME	21.5
Ø102	101.7	111.1	118.2x1/8 TACME	21.5



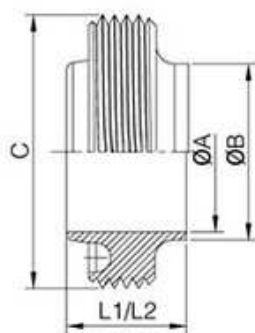
IDF-16AMP Blank

Size	A	B	L
Ø25	29.2	33.8	10.5
Ø38	42.7	47.0	10.5
Ø51	56.2	60.5	10.5
Ø63	69.9	74.0	10.5
Ø76	82.6	87.5	10.5
Ø102	111.1	114.1	10.5



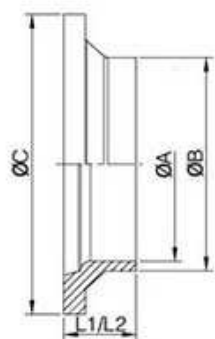
Hexagon Nut

Size	A	B	C	L
1"	33.3	50.8	46.64X1/8 TWHIT	22.2
1 1/2"	46.0	65.0	59.34X1/8 TWHIT	22.2
2"	58.7	79.4	73.64X1/6 TWHIT	22.2
2 1/2"	71.4	92.1	86.34X1/6 TWHIT	22.2
3"	84.1	104.8	99.04X1/6 TWHIT	22.2
4"	109.5	130.2	124.44X1/6 TWHIT	22.2



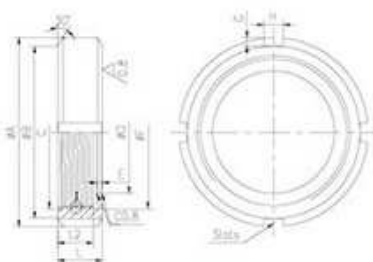
Male

Size	A	B	C	L2
1"	22.2	25.65	45.7x1/8TWHIT	27.0
1 1/2"	34.9	38.35	58.4x1/8TWHIT	27.0
2"	47.6	51.05	72.7x1/6TWHIT	27.0
2 1/2"	60.3	63.75	85.4x1/6TWHIT	27.0
3"	73.0	76.45	98.1x1/6TWHIT	27.0
4"	97.6	101.85	123.5x1/6TWHIT	27.0

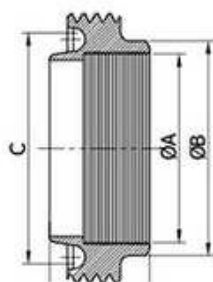


Liner

Size	A	B	C	L2
1"	22.2	25.65	41.3	19.5
1 1/2"	34.9	38.35	54.0	19.5
2"	47.6	51.05	66.7	19.5
2 1/2"	60.3	63.75	79.4	19.5
3"	73.0	76.45	92.1	19.5
4"	97.6	101.85	117.5	19.5

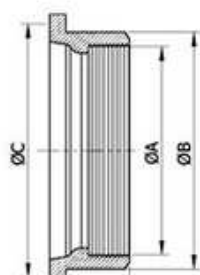


Size	A	B	C	L
1"	59.5	51.5	46.64X1/8 TWHIT	22.2
1 1/2"	74.0	65.0	59.34X1/8 TWHIT	22.2
2"	87.5	78.5	73.64X1/6 TWHIT	22.2
2 1/2"	100.5	91.5	86.34X1/6 TWHIT	22.2
3"	113.0	104.0	99.04X1/6 TWHIT	22.2
4"	138.5	129.5	124.44X1/6 TWHIT	22.2



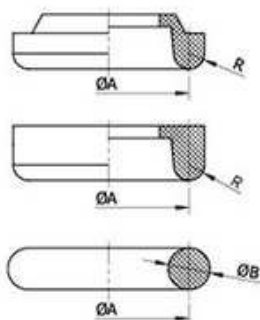
RJT Expanding Male

Size	A	B	C	L
1"	25.5	32.5	45.7x1/8TWHIT	27.0
1 1/2"	38.2	45.2	58.4x1/8TWHIT	27.0
2"	50.9	57.9	72.7x1/6TWHIT	27.0
2 1/2"	63.7	70.6	85.4x1/6TWHIT	27.0
3"	76.3	83.3	98.1x1/6TWHIT	27.0
4"	101.7	108.7	123.5x1/6TWHIT	27.0



RJT Expanding Liner

Size	A	B	C	L
1"	25.5	32.5	41.3	19.5
1 1/2"	38.2	45.2	54.0	19.5
2"	50.9	57.9	66.7	19.5
2 1/2"	63.7	70.6	79.4	19.5
3"	76.3	83.3	92.1	19.5
4"	101.7	108.7	117.5	19.5



Gasket for Union

Size	A	B	R
1"	33.3	6.6	3.2
1 1/2"	46.0	6.6	3.2
2"	58.7	6.6	3.2
2 1/2"	71.4	6.6	3.2
3"	84.1	6.6	3.2
4"	109.5	6.6	3.2
6"	162.6	6.6	3.2