



Unions





技术参数 Technical data

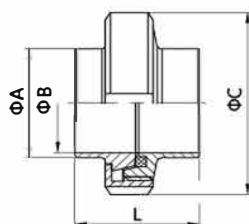
标准 Standard	DIN, 3A, SMS, RJT, ISO, IDF, DS, Macon, GB
尺寸 Size	尺寸: 1"-6" DN10~250 , 17.2~168.3 , Macon43~103
金属材质 Material grade	304, 304L, 316L (锻造 Forging)
密封材质 Seal	NBR , Silicon, EPDM ,FPM ,PTFE
表面处理 Roughness	1. Inside $\leq 0.4 \sim 0.8 \mu\text{m}$
	2. Outside $\leq 1.6 \mu\text{m}$





Union

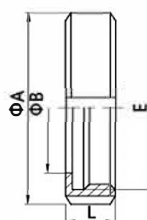
DIN-10



Size	A	B	C	L
10	15	10	38	34
15	21	16	44	34
20	25	20	54	36
25	31	26	63	45
32	37	32	70	51
40	43	38	78	53
50	55	50	92	57
65	72	66	112	65
80	87	81	127	75
100	106	100	148	89
125	132	125	178	70
150	157	150	210	76

Round Nut

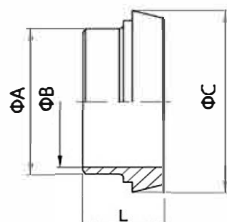
DIN-13



Size	A	B	E	L
10	38	19	RD 28x1/8"	18
15	44	25	RD 34x1/8"	18
20	54	31	RD 44x1/6"	20
25	63	36	RD 52x1/6"	21
32	70	42	RD 58x1/6"	21
40	78	49	RD 65x1/6"	21
50	92	62	RD 78x1/6"	22
65	112	80	RD 95x1/6"	25
80	127	94	RD 110x1/4"	29
100	148	115	RD 130x1/4"	31
125	178	138	RD 160x1/4"	35
150	210	164	RD 190x1/4"	40

Liner

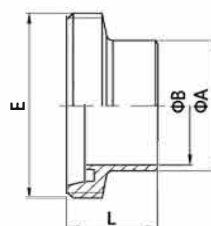
DIN-14



Size	A	B	C	L
10	15	10	22.5	17
15	21	16	28.5	17
20	25	20	36.5	18
25	31	26	44.0	22
32	37	32	50.0	25
40	43	38	56.0	26
50	55	50	68.5	28
65	72	66	86.0	32
80	87	81	100.0	37
100	106	100	121.0	44
125	132	125	150.0	34
150	157	150	176.0	37

Male

DIN-15



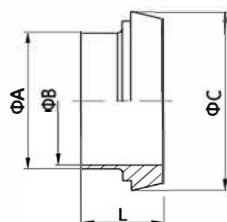
Size	A	B	E	L
10	15	10	RD 28x1/8"	21
15	21	16	RD 34x1/8"	21
20	25	20	RD 44x1/6"	24
25	31	26	RD 52x1/6"	29
32	37	32	RD 58x1/6"	32
40	43	38	RD 65x1/6"	33
50	55	50	RD 78x1/6"	35
65	72	66	RD 95x1/6"	40
80	87	81	RD 110x1/4"	45
100	106	100	RD 130x1/4"	54
125	132	125	RD 160x1/4"	46
150	157	150	RD 190x1/4"	50





Liner (Long I)

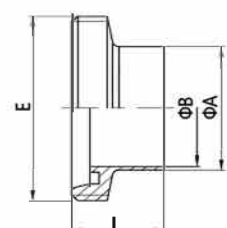
DIN-14P



Size	A	B	C	L
10	12	9	22.5	17
15	18	15	28.5	17
20	22	19	36.5	18
25	28	25	44.0	22
32	34	31	50.0	25
40	40	37	56.0	26
50	52	49	68.5	28

Male (Long I)

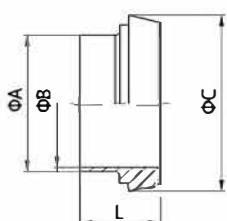
DIN-15P



Size	A	B	E	L
10	12	9	Rd 28x1/8"	21
15	18	15	Rd 34x1/8"	21
20	22	19	Rd 44x1/6"	24
25	28	25	Rd 52x1/6"	29
32	34	31	Rd 58x1/6"	32
40	40	37	Rd 65x1/6"	33
50	52	49	Rd 78x1/6"	35

Liner (Long II)

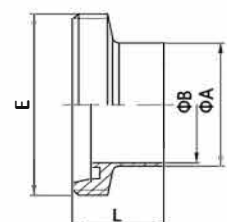
DIN-14H



Size	A	B	C	L
10	13	10	22.5	17
15	19	16	28.5	17
20	23	20	36.5	18
25	29	26	44.0	22
32	35	32	50.0	25
40	41	38	56.0	26
50	53	50	68.5	28
65	70	66	86.0	32
80	85	81	100.0	37
100	104	100	121.0	44
125	129	125	150.0	34
150	154	150	176.0	37

Male (Long II)

DIN-15H



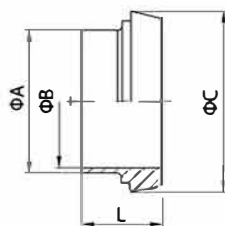
Size	A	B	E	L
10	13	10	Rd 28x1/8"	21
15	19	16	Rd 34x1/8"	21
20	23	20	Rd 44x1/6"	24
25	29	26	Rd 52x1/6"	29
32	35	32	Rd 58x1/6"	32
40	41	38	Rd 65x1/6"	33
50	53	50	Rd 78x1/6"	35
65	70	66	Rd 95x1/6"	40
80	85	81	Rd 110x1/4"	45
100	104	100	Rd 130x1/4"	54
125	129	125	Rd 160x1/4"	46
150	154	150	Rd 190x1/4"	50





Liner (Long III)

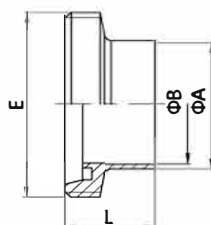
DIN-14HB



Size	A	B	C	L
10	13	9	22.5	17
15	19	15	28.5	17
20	23	19	36.5	18
25	29	25	44.0	22
32	35	31	50.0	25
40	41	37	56.0	26
50	53	49	68.5	28

Male (Long III)

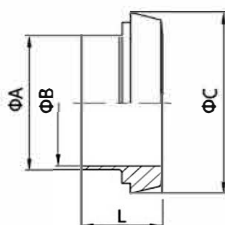
DIN-15HB



Size	A	B	E	L
10	13	9	Rd 28x1/8"	21
15	19	15	Rd 34x1/8"	21
20	23	19	Rd 44x1/6"	24
25	29	25	Rd 52x1/6"	29
32	35	31	Rd 58x1/6"	32
40	41	37	Rd 65x1/6"	33
50	53	49	Rd 78x1/6"	35

Liner (INCH)

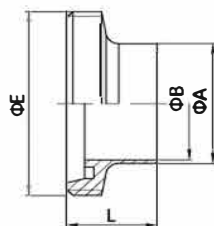
DIN-INCH-L



Size	A	B	C	L
1"	25.4	22.9	44.0	22
1 1/4"	31.75	28.75	50.0	25
1 1/2"	38.1	35.1	56.0	26
2"	50.8	47.8	68.5	28
2 1/2"	63.5	60.2	86.0	32
3"	76.1	72.8	100.0	37
4"	101.6	97.6	121.0	44
5"	127.0	121.46	150.0	34
6"	152.4	146.86	176.0	37

Male (INCH)

DIN-INCH-M



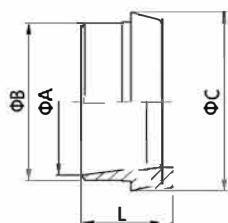
Size	A	B	C	L
1"	25.4	22.9	Rd 52x1/6"	29
1 1/4"	31.75	28.75	Rd 58x1/6"	32
1 1/2"	38.1	35.1	Rd 65x1/6"	33
2"	50.8	47.8	Rd 78x1/6"	35
2 1/2"	63.5	60.2	Rd 95x1/6"	40
3"	76.1	72.8	Rd 110x1/4"	45
4"	101.6	97.6	Rd 130x1/4"	54
5"	127.0	121.46	Rd 160x1/4"	46
6"	152.4	146.86	Rd 190x1/4"	50





Liner (ISO)

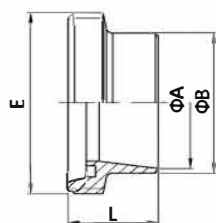
DIN-ISO-L



Size	A	B	C	L
17.2	14.0	17.2	22.5	17
21.3	18.1	21.3	28.5	17
26.9	23.7	26.9	36.5	18
33.7	29.7	33.7	44.0	22
42.4	38.4	42.4	50.0	25
48.3	44.3	48.3	56.0	26
60.3	56.3	60.3	68.5	28
76.1	71.5	76.1	86.0	32
88.9	84.3	88.9	100.0	37
114.3	109.7	114.3	121.0	44
139.7	134.5	139.7	150.0	34
168.3	163.1	168.3	176.0	37

Male (ISO)

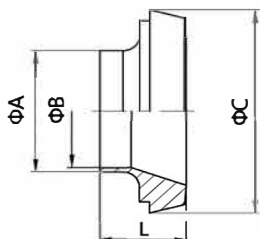
DIN-ISO-M



Size	A	B	E	L
17.2	14.0	17.2	Rd 28x1/8"	21
21.3	18.1	21.3	Rd 34x1/8"	21
26.9	23.7	26.9	Rd 44x1/6"	24
33.7	29.7	33.7	Rd 52x1/6"	29
42.4	38.4	42.4	Rd 58x1/6"	32
48.3	44.3	48.3	Rd 65x1/6"	33
60.3	56.3	60.3	Rd 78x1/6"	35
76.1	71.5	76.1	Rd 95x1/6"	40
88.9	84.3	88.9	Rd 110x1/4"	45
114.3	109.7	114.3	Rd 130x1/4"	54
139.7	134.5	139.7	Rd 160x1/4"	46
168.3	163.1	168.3	Rd 190x1/4"	50

Liner (Reducing)

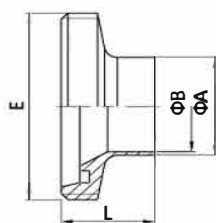
DIN-14RL



Size	A	B	C	L
25-15	21	16	44	22
25-20	25	20	44	22
32-25	31	26	50	20
40-25	31	26	56	20
40-32	37	32	56	23
50-32	37	32	68.5	23
50-40	43	38	68.5	26
65-40	43	38	86	26
65-50	55	50	86	27
80-50	55	50	100	30
80-65	72	66	100	31
100-80	87	81	121	42

Male (Reducing)

DIN-15RL



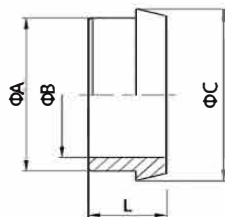
Size	A	B	E	L
25-15	21	16	Rd 52x1/6"	29
25-20	25	20	Rd 52x1/6"	29
32-25	31	26	Rd 58x1/6"	27
40-25	31	26	Rd 65x1/8"	28
40-32	37	32	Rd 65x1/6"	29
50-25	31	26	Rd 78x1/6"	26
50-40	43	38	Rd 78x1/6"	35
65-40	43	38	Rd 95x1/6"	39
65-50	55	50	Rd 95x1/6"	40
80-50	55	50	Rd 110x1/4"	45
80-65	72	66	Rd 110x1/4"	46
100-80	87	81	Rd 130x1/4"	49





Liner (Thicker)

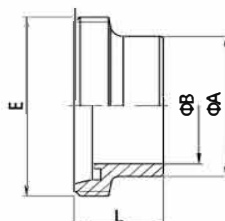
DIN-14T



Size	A	B	C	L
10	18	10	22.5	17
15	24	16	28.5	17
20	30	20	36.5	18
25	35	26	44.0	22
32	41	32	50.0	25
40	48	38	56.0	26
50	61	50	68.5	28
65	79	66	86.0	32
80	93	81	100.0	37
100	114	100	121.0	44
125	137	125	150.0	34
150	163	150	176.0	37

Male (Thicker)

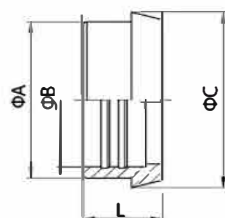
DIN-15T



Size	A	B	E	L
10	18	10	Rd 28x1/8"	21
15	24	16	Rd 34x1/8"	21
20	30	20	Rd 44x1/6"	24
25	35	26	Rd 52x1/6"	29
32	41	32	Rd 58x1/6"	32
40	48	38	Rd 65x1/6"	33
50	61	50	Rd 78x1/6"	35
65	79	66	Rd 95x1/6"	40
80	93	81	Rd 110x1/4"	45
100	114	100	Rd 130x1/4"	54
125	137	125	Rd 160x1/4"	46
150	163	150	Rd 190x1/4"	50

Expanding Liner

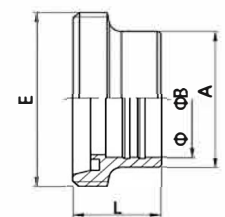
DIN-14R



Size	A	B	C	L
10	18	12.2	22.5	17
15	24	18.2	28.5	17
20	30	22.2	36.5	18
25	35	28.2	44.0	22
32	41	34.2	50.0	25
40	48	40.2	56.0	26
50	61	52.2	68.5	28
65	79	70.4	86.0	32
80	93	85.4	100.0	37
100	114	104.3	121.0	44
125	137	129.4	150.0	34
150	163	154.4	176.0	37

Expanding Male

DIN-15R



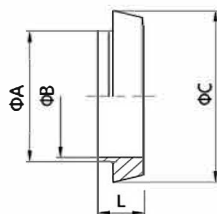
Size	A	B	E	L
10	18	12.2	Rd 28x1/8"	21
15	24	18.2	Rd 34x1/8"	21
20	30	22.2	Rd 44x1/6"	24
25	35	28.2	Rd 52x1/6"	29
32	41	34.2	Rd 58x1/6"	32
40	48	40.2	Rd 65x1/6"	33
50	61	52.2	Rd 78x1/6"	35
65	79	70.4	Rd 95x1/6"	40
80	93	85.4	Rd 110x1/4"	45
100	114	104.3	Rd 130x1/4"	54
125	137	129.4	Rd 160x1/4"	46
150	163	154.4	Rd 190x1/4"	50





Liner (Short I)

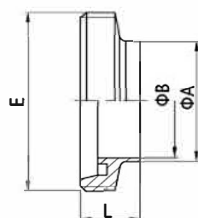
DIN-14PS



Size	A	B	C	L
10	12	9	22.0	13.5
15	18	15	28.0	13.5
20	22	19	36.0	13.5
25	28	25	44.0	15.5
32	34	31	50.0	15.5
40	40	37	56.0	15.5
50	52	49	68.5	16.5

Male (Short I)

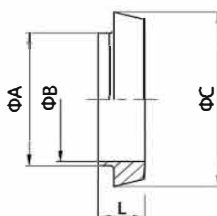
DIN-15PS



Size	A	B	E	L
10	12	9	Rd 28x1/8"	17.5
15	18	15	Rd 34x1/8"	17.5
20	22	19	Rd 44x1/6"	19.5
25	28	25	Rd 52x1/6"	22.5
32	34	31	Rd 58x1/6"	22.5
40	40	37	Rd 65x1/6"	22.5
50	52	49	Rd 78x1/6"	23.5

Liner (Short II)

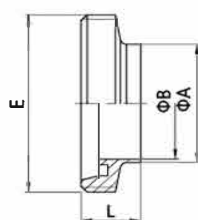
DIN-14HS



Size	A	B	E	L
10	13	10	22.5	13.0
15	19	16	28.5	13.0
20	23	20	36.5	13.0
25	29	26	44.0	15.0
32	35	32	50.0	15.0
40	41	38	56.0	15.0
50	53	50	68.5	16.0
65	70	66	86.0	17.5
80	85	81	100.0	17.5
100	104	100	121.0	20.5
125	129	125	150.0	23.5
150	154	150	176.0	27.0

Male (Short II)

DIN-15HS



Size	A	B	E	L
10	13	10	Rd 28x1/8"	17
15	19	16	Rd 34x1/8"	17
20	23	20	Rd 44x1/6"	19
25	29	26	Rd 52x1/6"	22
32	35	32	Rd 58x1/6"	22
40	41	38	Rd 65x1/6"	22
50	53	50	Rd 78x1/6"	23
65	70	66	Rd 95x1/6"	25
80	85	81	Rd 110x1/4"	25
100	104	100	Rd 130x1/4"	30
125	129	125	Rd 160x1/4"	35.5
150	154	150	Rd 190x1/4"	40.0





Blank Liner

DIN-14B

Siz	B	E	L
10	18	22.5	9
15	24	28.5	9
20	30	36.5	11
25	35	44.0	13
32	41	50.0	13
40	48	56.0	13
50	61	68.5	14
65	79	86.0	16
80	93	100.0	16
100	114	121.0	20
125	137	150.0	22
150	163	176.0	24

Blank Male

DIN-15B

Size	A	E	L
10	22	Rd 28x1/8"	21
15	22	Rd 34x1/8"	21
20	22	Rd 44x1/6"	24
25	40	Rd 52x1/6"	24
32	40	Rd 58x1/6"	24
40	40	Rd 65x1/6"	24
50	40	Rd 78x1/6"	24
65	48	Rd 95x1/6"	28
80	48	Rd 110x1/4"	30
100	48	Rd 130x1/4"	30

Gasket

DIN-12G

Siz	A	B	L
10	20	12	4.5
15	26	18	4.5
20	33	23	4.5
25	40	30	5.0
32	46	36	5.0
40	52	42	5.0
50	64	54	5.0
65	81	71	5.0
80	95	85	5.0
100	114	104	6.0
125	142	130	7.0
150	167	155	7.0

With Step Gasket

DIN-12GS

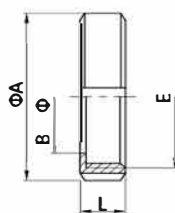
Siz	A	B	C	L
10	20	10.2	12	5
15	26	16.2	18	5
20	33	20.2	23	5
25	40	26.2	30	6
32	46	32.2	36	6
40	52	38.2	42	6
50	64	50.2	54	6
65	81	66.2	71	6
80	95	81.2	85	6
100	114	100.2	104	6
125	142	125.2	130	7
150	167	150.2	155	7





Round Nut (Small)

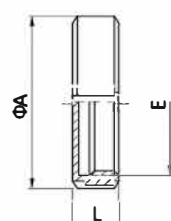
DIN-13RS



Size	A	B	E	L
10	36	19	Rd 28x1/8"	18
15	42	25	Rd 34x1/8"	18
20	52	31	Rd 44x1/6"	20
25	61	36	Rd 52x1/6"	21
32	68	42	Rd 58x1/6"	21
40	76	49	Rd 65x1/6"	21
50	90	62	Rd 78x1/6"	22
65	108	80	Rd 95x1/6"	25
80	125	94	Rd 110x1/4"	29
100	145	115	Rd 130x1/4"	31

Blank Nut

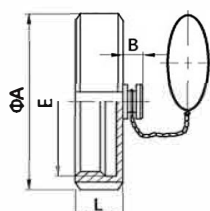
DIN-13RB



Size	A	E	L
10	38	Rd 28x1/8"	18
15	44	Rd 34x1/8"	18
20	54	Rd 44x1/6"	20
25	63	Rd 52x1/6"	21
32	70	Rd 58x1/6"	21
40	78	Rd 65x1/6"	21
50	92	Rd 78x1/6"	22
65	112	Rd 95x1/6"	25
80	127	Rd 110x1/4"	29
100	148	Rd 130x1/4"	31
125	178	Rd 160x1/4"	35
150	210	Rd 190x1/4"	40

Blank Nut With Boss

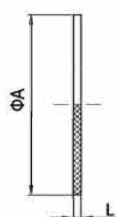
DIN-13RBN



Size	A	B	E	L
10	38	9	Rd 28x1/8"	18
15	44	9	Rd 34x1/8"	18
20	54	9	Rd 44x1/6"	20
25	63	9	Rd 52x1/6"	21
32	70	9	Rd 58x1/6"	21
40	78	9	Rd 65x1/6"	21
50	92	9	Rd 78x1/6"	22
65	112	9	Rd 95x1/6"	25
80	127	9	Rd 110x1/4"	29
100	148	9	Rd 130x1/4"	31
125	178	9	Rd 160x1/4"	35
150	210	9	Rd 190x1/4"	40

Plate Seal

DIN-11 PS



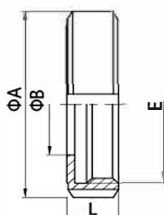
Size	A	L (PTFE)	L (EPDM)
10	28.3	1.5	3
15	34.3	1.5	3
20	44.3	1.5	3
25	52.3	1.5	3
32	58.3	1.5	3
40	65.3	1.5	3
50	78.3	1.5	3
65	95.3	1.5	3
80	110.3	1.5	3
100	130.3	1.5	3
125	160.5	1.5	3
150	190.5	1.5	3





Nut (Sight Glass)

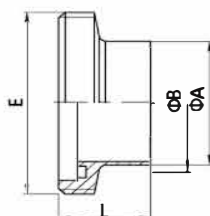
DIN-13SJ



Size	A	B	E	L
25	63	26	Rd 52×1/6"	21.5
32	70	32	Rd 58×1/6"	21.5
40	78	38	Rd 65×1/6"	21.5
50	92	50	Rd 78×1/6"	22.5
65	112	66	Rd 95×1/6"	25.5
80	127	80	Rd 110×1/4"	29.5
100	148	100	Rd 130×1/4"	31.5
125	178	125	Rd 160×1/4"	35.5
150	210	150	Rd 190×1/4"	40.5

Male (Sight Glass)

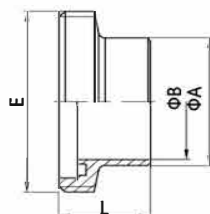
DIN-15SJ(H)



Size	A	B	E	L
25	29	26	Rd 52×1/6"	29
32	35	32	Rd 58×1/6"	32
40	41	38	Rd 65×1/6"	33
50	53	50	Rd 78×1/6"	35
65	70	66	Rd 95×1/6"	40
80	85	81	Rd 110×1/4"	45
100	104	100	Rd 130×1/4"	54
125	129	125	Rd 160×1/4"	46
150	154	150	Rd 190×1/4"	50

Male (Sight Glass)

DIN-15SJ



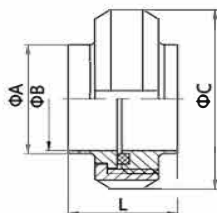
Size	A	B	E	L
25	31	26	Rd 52×1/6"	29
32	37	32	Rd 58×1/6"	32
40	43	38	Rd 65×1/6"	33
50	55	50	Rd 78×1/6"	35
65	72	66	Rd 95×1/6"	40
80	87	81	Rd 110×1/4"	45
100	106	100	Rd 130×1/4"	54
125	132	125	Rd 160×1/4"	46
150	157	150	Rd 190×1/4"	50





Union Nut (Long)

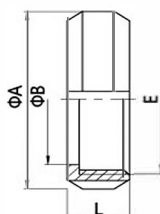
SMS-10



Size	A	B	C	L
25	25.0	22.5	51	34.5
32	32.0	29.5	60	35
38	38.0	35.5	74	39
51	51.0	48.5	84	40
63.5	63.5	60.5	100	44
76	76.1	72.9	114	46
101.6 B	101.6	97.6	150	51
101.6 S	101.6	97.6	140	49

Round Nut

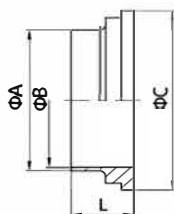
SMS-13



Size	A	B	E	L
25	51	32.4	Rd 40×1/6"	19
32	60	40.5	Rd 48×1/6"	22
38	74	48.5	Rd 60×1/6"	23
51	84	61	Rd 70×1/6"	24
63.5	100	74	Rd 85×1/6"	28
76	114	87	Rd 98×1/6"	30
101.6 B	150	117	Rd 132×1/6"	35
101.6 S	140	113	Rd 125×1/4"	32

Liner (Long)

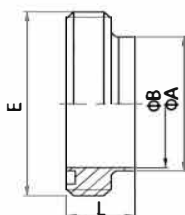
SMS-14



Size	A	B	C	L
25	25.0	22.5	35.5	15.5
32	32.0	29.5	43.5	15
38	38.0	35.5	55.0	16
51	51.0	48.5	65.0	17
63.5	63.5	60.5	80.0	17
76	76.1	72.9	93.0	19
101.6 B	101.6	97.6	127.0	19
101.6 S	101.6	97.6	118.0	19

Male (Long)

SMS-15



Size	A	B	E	L
25	25.0	22.5	Rd 40×1/6"	19
32	32.0	29.5	Rd 48×1/6"	20
38	38.0	35.5	Rd 60×1/6"	23
51	51.0	48.5	Rd 70×1/6"	23
63.5	63.5	60.5	Rd 85×1/6"	27
76	76.1	72.9	Rd 98×1/6"	27
101.6 B	101.6	97.6	Rd 132×1/6"	32
101.6 S	101.6	97.6	Rd 125×1/4"	30





Liner

SMS-14S

Size	A	B	C	L
25	25.0	22.5	35.5	10
32	32.0	29.5	43.5	10
38	38.0	35.5	55.0	11
51	51.0	48.5	65.0	13
63.5	63.5	60.5	80.0	13
76	76.1	72.9	93.0	14
101.6 B	101.6	97.6	127.0	16
101.6 S	101.6	97.6	118.0	16

Male

SMS-15S

Size	A	B	E	L
25	25.0	22.5	Rd 40×1/6"	15
32	32.0	29.5	Rd 48×1/6"	18
38	38.0	35.5	Rd 60×1/6"	20
51	51.0	48.5	Rd 70×1/6"	20
63.5	63.5	60.5	Rd 85×1/6"	24
76	76.1	72.9	Rd 98×1/6"	24
101.6 B	101.6	97.6	Rd 132×1/6"	35
101.6 S	101.6	97.6	Rd 125×1/4"	28

Liner (Ultrashort)

SMS-14SS

Size	A	B	C	L
25	25.0	22.5	35.5	8
32	32.0	29.5	43.5	8
38	38.0	35.5	55.0	9
51	51.0	48.5	65.0	9
63.5	63.5	60.5	80.0	9
76	76.1	72.9	93.0	10
101.6 B	101.6	97.6	127.0	12
101.6 S	101.6	97.6	118.0	12

Male (Ultrashort)

SMS-15SS

Size	A	B	E	L
25	25.0	22.5	Rd 40×1/6"	15
32	32.0	29.5	Rd 48×1/6"	15
38	38.0	35.5	Rd 60×1/6"	18
51	51.0	48.5	Rd 70×1/6"	20
63.5	63.5	60.5	Rd 85×1/6"	20
76	76.1	72.9	Rd 98×1/6"	21
101.6 B	101.6	97.6	Rd 132×1/6"	26
101.6 S	101.6	97.6	Rd 125×1/4"	26





Expanding Liner

SMS-14R

Size	A	B	C	L
25	31.5	25.2	35.5	15
32	40.0	32.2	43.5	15
38	47.5	38.2	55.0	20
51	60.0	51.2	65.0	20
63.5	73.5	63.7	80.0	24
76	86.5	76.4	93.0	24
101.6 B	116.5	101.9	127.0	27
101.6 S	112.5	104.3	118.0	27

Expanding Male

SMS-15R

Size	A	B	E	L
25	31.5	25.2	Rd 40×1/6"	19
32	40.0	32.2	Rd 48×1/6"	19
38	47.5	38.2	Rd 60×1/6"	23
51	60.0	51.2	Rd 70×1/6"	23
63.5	73.5	63.7	Rd 85×1/6"	27
76	86.5	76.4	Rd 98×1/6"	27
101.6 B	116.5	101.9	Rd 132×1/6"	35
101.6 S	112.5	104.3	Rd 125×1/4"	30

Blank Liner

SMS-14B

Size	A	C	L
25	31.5	35.5	7.5
32	39.5	43.5	7.5
38	47.5	55.0	8
51	60.0	65.0	9
63.5	73.5	80.0	9
76	86.5	93.0	11
101.6 B	116.5	127.0	12
101.6 S	112.5	118.0	12

Blank Male

SMS-15B

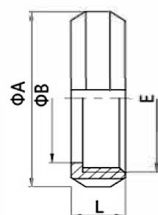
Size	A	E	L
25	31.5	Rd 40×1/6"	19
32	39.5	Rd 48×1/6"	19
38	47.5	Rd 60×1/6"	23
51	60.0	Rd 70×1/6"	23
63.5	73.5	Rd 85×1/6"	27
76	86.5	Rd 98×1/6"	27
101.6 B	116.5	Rd 132×1/6"	35
101.6 S	112.5	Rd 125×1/4"	30





Round Nut (Small)

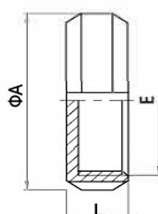
SMS-13RS



Size	A	B	E	L
25	50	32.3	Rd 40×1/6"	18
32	58	40.5	Rd 48×1/6"	18
38	72	48.5	Rd 60×1/6"	21
51	82	60.5	Rd 70×1/6"	23
63.5	98	74	Rd 85×1/6"	23
76	111	87	Rd 98×1/6"	26
101.6 B	154	117	Rd 132×1/6"	35
101.6 S	138	113	Rd 125×1/4"	30

Blank Nut

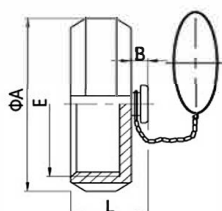
SMS-13RB



Size	A	E	L
25	51	Rd 40×1/6"	20
32	60	Rd 48×1/6"	22
38	74	Rd 60×1/6"	25
51	84	Rd 70×1/6"	26
63.5	100	Rd 85×1/6"	30
76	114	Rd 98×1/6"	32
101.6 B	154	Rd 132×1/6"	45
101.6 S	140	Rd 125×1/4"	32

Blank Nut With Boss

SMS-13RBN



Size	A	B	E	L
25	51	7	Rd 40×1/6"	27
32	60	7	Rd 48×1/6"	29
38	74	7	Rd 60×1/6"	32
51	84	7	Rd 70×1/6"	33
63.5	100	7	Rd 85×1/6"	37
76	114	7	Rd 98×1/6"	39
101.6 B	154	7	Rd 132×1/6"	52
101.6 S	140	7	Rd 125×1/4"	39





Plate Seal

SMS-11 PS

Size	A	L (PTFE)	L (EPDM)
25	40	1.5	3
32	48	1.5	3
38	60	1.5	3
51	70	1.5	3
63.5	85	1.5	3
76	98	1.5	3
101.6	125	1.5	3

Gasket

SMS-12G

Size	A	B	L
25	31.8	25.0	5.3
32	39.8	32.0	5.3
38	47.8	38.0	5.3
51	60.8	51.0	5.3
63.5	73.2	63.5	5.3
76	85.8	76.0	5.3
101.6	113.8	101.6	5.3

With Step Gasket

SMS-12GS

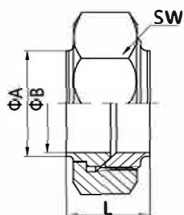
Size	A	B	E	L
25	31.8	25.0	22.7	5.3
32	39.8	32.0	29.7	5.3
38	47.8	38.0	35.7	5.3
51	60.8	51.0	48.7	5.3
63.5	73.2	63.5	60.7	5.3
76	85.8	76.0	72.3	5.3
101.6	113.8	101.6	97.8	5.3





Union (short)

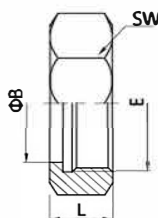
3A-10



Size	A	B	SW	L
1"	25.4	22.1	46.0	34.9
1 1/2"	38.1	34.8	61.1	34.1
2"	50.8	47.5	76.2	35.8
2 1/2"	63.5	60.2	91.3	41.7
3"	76.2	72.9	106.4	43.1
4"	101.6	97.38	137.6	49.3

Hexagonal Nut

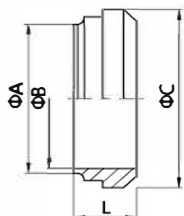
3A-13



Size	B	SW	E	L
1"	30.3	46.0	38.02x8TP I ACME	23.0
1 1/2"	43.4	61.1	51.54x8TP I ACME	24.6
2"	56.5	76.2	65.05x8TP I ACME	27.0
2 1/2"	69.6	91.3	78.56x8TP I ACME	29.6
3"	82.7	106.4	92.08x8TP I ACME	32.5
4"	108.9	137.6	102.14x6TP I ACME	38.1

Liner (Short)

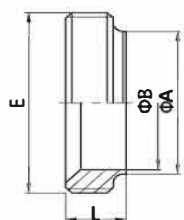
3A-14/3A-14L



Size	A	B	C	L1	L2
1"	25.4	22.1	33.3	18.2	34.9
1 1/2"	38.1	34.8	46.9	18.2	38.1
2"	50.8	47.5	60.5	19.0	38.1
2 1/2"	63.5	60.2	74.0	22.2	44.5
3"	76.2	72.9	87.5	23.1	44.5
4"	101.6	97.38	114.5	26.2	44.5

Male (Short)

3A-15/3A-15L



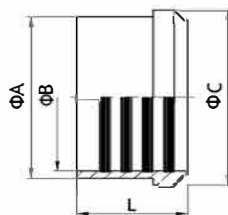
Size	A	B	E	L1	L2
1"	25.4	22.1	37.13x8TP I ACME	18.3	34.9
1 1/2"	38.1	34.8	50.65x8TP I ACME	18.3	38.1
2"	50.8	47.5	64.16x8TP I ACME	19.1	38.1
2 1/2"	63.5	60.2	77.67x8TP I ACME	22.2	44.5
3"	76.2	72.9	91.19x8TP I ACME	23.1	44.5
4"	101.6	97.38	119.25x6TP I ACME	26.2	44.5





Expanding Liner

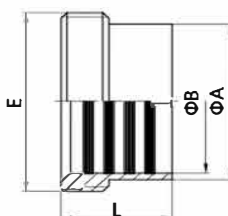
3A-14R



Size	A	B	C	L
1"	29.5	25.5	33.3	19.1
1 1/2"	42.6	38.2	46.9	28.6
2"	55.7	50.9	60.5	33.3
2 1/2"	68.8	63.6	74.0	34.9
3"	81.9	76.3	87.5	36.5
4"	108.1	101.7	114.5	38.1

Expanding Male

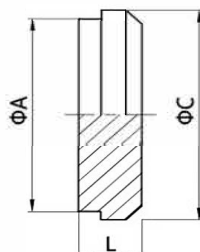
3A-15R



Size	A	B	E	L
1"	29.5	25.5	37.13x8TPIACME	20.6
1 1/2"	42.6	38.2	50.65x8TPIACME	28.6
2"	55.7	50.9	64.16x8TPI ACME	34.9
2 1/2"	68.8	63.6	77.67x8TPIACME	38.1
3"	81.9	76.3	91.19x8TPIACME	41.3
4"	108.1	101.7	119.25x6TPIACME	41.3

Blank Liner

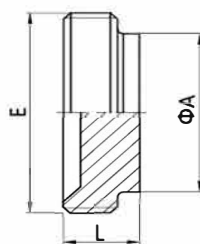
3A-14B



Size	A	C	L
1"	29.5	33.3	11.9
1 1/2"	42.6	46.9	14.3
2"	55.7	60.5	15.9
2 1/2"	68.8	74.0	16.7
3"	81.9	87.5	18.3
4"	108.1	114.5	20.6

Blank Male

3A-15B



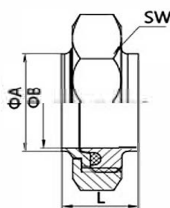
Size	A	E	L
1"	25.4	37.13x8TP I ACME	24.3
1 1/2"	38.1	50.65x8TP I ACME	24.3
2"	50.8	64.16x8TP I ACME	25.1
2 1/2"	63.5	77.67x8TP I ACME	28.3
3"	76.2	91.19x8TP I ACME	29.1
4"	101.6	119.25x6TP I ACME	32.2





Union

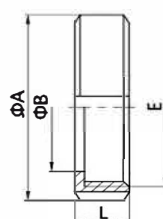
RJT-10



Size	A	B	SW	L
1"	25.4	22.2	50.8	35.2
1 1/2"	38.1	34.9	65.0	35.2
2"	50.8	47.6	79.4	35.2
2 1/2"	63.5	60.3	92.1	35.2
3"	76.2	73.0	104.8	37.2
4"	101.6	97.6	130.2	41.2

Round Nut

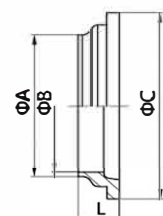
RJT-13R



Size	A	B	E	L
1"	58.5	33.3	42.266x8TPI WHIT	22.2
1 1/2"	74.0	46.0	54.966x8TPI WHIT	22.2
2"	85.5	58.7	67.920x6TPI WHIT	22.2
2 1/2"	98.5	71.4	80.620x6TPI WHIT	22.2
3"	111.6	84.1	93.320x6TPI WHIT	22.2
4"	138.0	109.5	118.72x6TPI WHIT	22.2

Liner

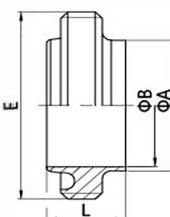
RJT-14



Size	A	B	C	L
1"	25.4	22.2	41.3	13
1 1/2"	38.1	34.9	54.0	13
2"	50.8	47.6	66.7	13
2 1/2"	63.5	60.3	79.4	13
3"	76.2	73.0	92.1	15
4"	101.6	97.6	117.7	19

Male

RJT-15



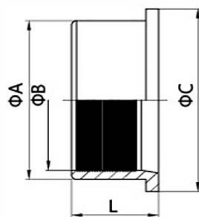
Size	A	B	E	L
1"	25.4	22.2	45.72x8TPI WHIT	27
1 1/2"	38.1	34.9	58.42x8TPI WHIT	27
2"	50.8	47.6	72.72x6TPI WHIT	27
2 1/2"	63.5	60.3	85.42x6TPI WHIT	27
3"	76.2	73.0	98.12x6TPI WHIT	27
4"	101.6	97.6	123.52x6TPI WHIT	27





Expanding Liner

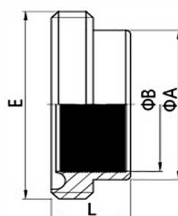
RJT-14R



Size	A	B	C	L
1"	32.5	25.7	41.3	20
1 1/2"	45.2	38.4	54.0	24
2"	57.9	51.2	66.7	28
2 1/2"	70.6	63.9	79.4	32
3"	83.3	76.6	92.1	32
4"	108.7	102.0	117.7	32

Expanding Male

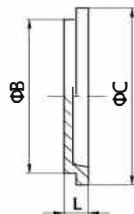
RJT-15R



Size	A	B	E	L
1"	32.5	25.7	45.72x8TPI WHIT	27
1 1/2"	45.2	38.4	58.42x8TPI WHIT	27
2"	57.9	51.2	72.72x6TPI WHIT	27
2 1/2"	70.6	63.9	85.42x6TPI WHIT	27
3"	83.3	76.6	98.12x6TPI WHIT	27
4"	108.7	102.0	123.52x6TPI WHIT	27

Blank Liner

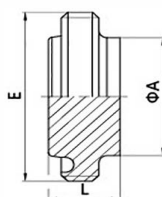
RJT-14B



Size	B	C	L
1"	32.5	41.3	8
1 1/2"	45.2	54.0	8
2"	57.9	66.7	8
2 1/2"	70.6	79.4	8
3"	83.3	92.1	8
4"	108.7	117.7	8

Blank Male

RJT-15B



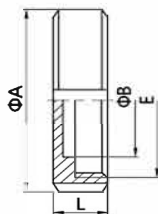
Size	A	E	L
1"	25.4	45.72x8TPI WHIT	27
1 1/2"	38.1	58.42x8TPI WHIT	27
2"	50.8	72.72x6TPI WHIT	27
2 1/2"	63.5	85.42x6TPI WHIT	27
3"	76.2	98.12x6TPI WHIT	27
4"	101.6	123.52x6TPI WHIT	27





Blank Nut

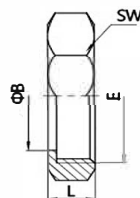
RJT-13RB



Size	A	B	E	L
1"	58.5	27.8	42.266x8TPI WHIT	22.2
1 1/2"	74.0	40.8	54.966x8TPI WHIT	22.2
2"	85.5	53.2	67.920x6TPI WHIT	22.2
2 1/2"	98.5	65.9	80.620x6TPI WHIT	22.2
3"	111.6	78.6	93.320x6TPI WHIT	22.2
4"	138.0	104.0	118.72x6TPI WHIT	22.2

Hexagonal Nut

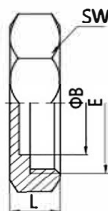
RJT-13H



Size	B	SW	E	L
1"	33.3	50.8	42.266x8TPI WHIT	22.2
1 1/2"	46.0	65.0	54.966x8TPI WHIT	22.2
2"	58.7	79.4	67.920x6TPI WHIT	22.2
2 1/2"	71.4	92.1	80.620x6TPI WHIT	22.2
3"	84.1	104.8	93.320x6TPI WHIT	22.2
4"	109.5	130.2	118.72x6TPI WHIT	22.2

Hexagonal Blank Nut

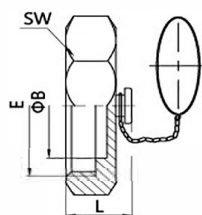
RJT-13HB



Size	B	SW	E	L
1"	27.8	50.8	42.266x8TPI WHIT	22.2
1 1/2"	40.8	65.0	54.966x8TPI WHIT	22.2
2"	53.2	79.4	67.920x6TPI WHIT	22.2
2 1/2"	65.9	92.1	80.620x6TPI WHIT	22.2
3"	78.6	104.8	93.320x6TPI WHIT	22.2
4"	104.0	130.2	118.72x6TPI WHIT	22.2

Hexagonal Blank Nut With Boss

RJT-13HBN



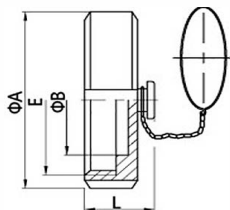
Size	B	SW	E	L
1"	27.8	50.8	42.266x8TPI WHIT	29.2
1 1/2"	40.8	65.0	54.966x8TPI WHIT	29.2
2"	53.2	79.4	67.920x6TPI WHIT	29.2
2 1/2"	65.9	92.1	80.620x6TPI WHIT	29.2
3"	78.6	104.8	93.320x6TPI WHIT	29.2
4"	104.0	130.2	118.72x6TPI WHIT	29.2





Blank Nut With Boss

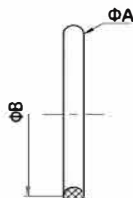
RJT-13RBN



Size	A	B	E	L
1"	58.5	27.8	42.266×8TPI WHIT	29.2
1 1/2"	74.0	40.8	54.966×8TPI WHIT	29.2
2"	85.5	53.2	67.920×6TPI WHIT	29.2
2 1/2"	98.5	65.9	80.620×6TPI WHIT	29.2
3"	111.6	78.6	93.320×6TPI WHIT	29.2
4"	138.0	104.0	118.72×6TPI WHIT	29.2

O-ring

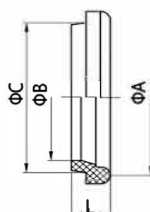
RJT-12G



Size	A	B
1"	6.5	33.3
1 1/2"	6.5	46.0
2"	6.5	58.7
2 1/2"	6.5	71.4
3"	6.5	84.1
4"	6.5	109.5

Gasket

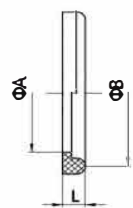
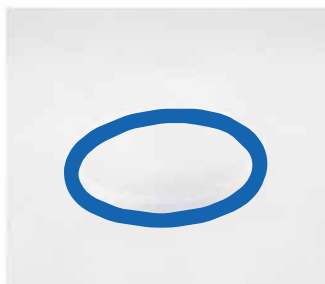
RJT-12G



Size	A	B	C	L
1"	33.3	22.2	30.8	13.1
1 1/2"	46.0	34.9	43.5	13.1
2"	58.7	47.6	56.6	13.1
2 1/2"	71.4	60.3	68.6	13.1
3"	84.1	73.0	81.8	13.1
4"	109.5	97.6	106.0	13.1

Gasket With Step

RJT-12GS



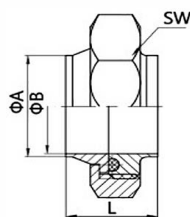
Size	A	B	L
1"	22.2	33.3	7
1 1/2"	34.9	46.0	7
2"	47.6	58.7	7
2 1/2"	60.3	71.4	7
3"	73.0	84.1	7
4"	97.6	109.5	7





Union

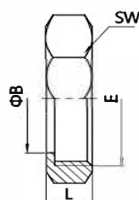
CIP-10



Size	A	B	SW	L
1"	25.4	22.2	50.8	41
1 1/2"	38.1	34.9	65.0	41
2"	50.8	47.6	79.4	41
2 1/2"	63.5	60.3	92.1	41
3"	76.2	73.0	104.8	41
4"	101.6	97.6	130.2	41

Hexagonal Nut

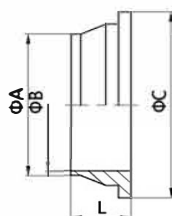
RJT-13H



Size	A	SW	E	L
1"	33.3	50.8	42.266x8TPI WHIT	22.2
1 1/2"	46.0	65.0	54.966x8TPI WHIT	22.2
2"	58.7	79.4	67.920x6TPI WHIT	22.2
2 1/2"	71.4	92.1	80.620x6TPI WHIT	22.2
3"	84.1	104.8	93.320x6TPI WHIT	22.2
4"	109.5	130.2	118.72x6TPI WHIT	22.2

Liner

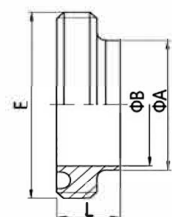
CIP-14



Size	A	B	C	L
1"	25.4	22.2	41.3	19
1 1/2"	38.1	34.9	54.0	19
2"	50.8	47.6	66.7	19
2 1/2"	63.5	60.3	79.4	19
3"	76.2	73.0	92.1	19
4"	101.6	97.6	117.7	19

Male

CIP-15



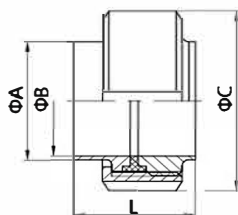
Size	A	B	E	L
1"	25.4	22.2	45.72x8TPI WHIT	22
1 1/2"	38.1	34.9	58.42x8TPI WHIT	22
2"	50.8	47.6	72.72x6TPI WHIT	22
2 1/2"	63.5	60.3	85.42x6TPI WHIT	22
3"	76.2	73.0	98.12x6TPI WHIT	22
4"	101.6	97.6	123.52x6TPI WHIT	22





Union

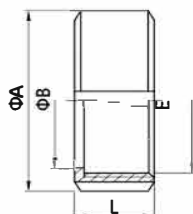
IDF-10



Size	A	B	C	L
25	25.4	22.2	44.5	43
38	38.1	34.9	57.2	43
51	50.8	47.6	70	43
63	63.5	60.3	86	43
76	76.2	73.0	102	43
102	101.6	97.6	133	60

Round Nut

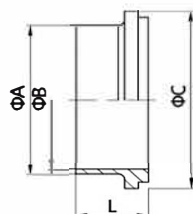
IDF-13R



Size	A	B	E	L
25	44.5	30.5	34.34x8TPI ACME	30
38	57.2	43.5	47.86x8TPI ACME	30
51	70	57.0	61.37x8TPI ACME	30
63	86	70.7	74.88x8TPI ACME	30
76	102	83.3	88.40x8TPI ACME	30
102	133	112.0	122.05x6TPI ACME	35

Liner

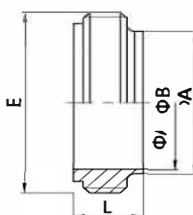
IDF-14



Size	A	B	C	L
25	25.4	22.2	33.8	21.5
38	38.1	34.9	47.0	21.5
51	50.8	47.6	60.5	21.5
63	63.5	60.3	74.0	21.5
76	76.2	73.0	87.5	21.5
102	101.6	97.6	120.6	30.0

Male

IDF-15



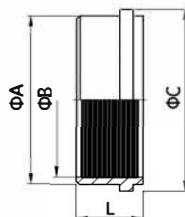
Size	A	B	E	L
25	25.4	22.2	37.13x8TPI ACME	21.5
38	38.1	34.9	50.65x8TPI ACME	21.5
51	50.8	47.6	64.16x8TPI ACME	21.5
63	63.5	60.3	77.67x8TPI ACME	21.5
76	76.2	73.0	91.19x8TPI ACME	21.5
102	101.6	97.6	125.9x6TPI ACME	30.0





Expanding Liner

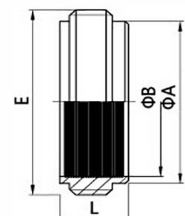
IDF-14R



Size	A	B	C	L
25	29.0	25.7	33.8	20
38	42.5	38.4	47.0	20
51	56.0	51.2	60.5	20
63	69.7	63.9	74.0	25
76	82.3	76.6	87.5	30
102	111.1	102.0	120.6	30

Expanding Male

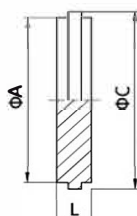
IDF-15R



Size	A	B	E	L
25	29.0	25.7	37.13x8TPI ACME	21.5
38	42.5	38.4	50.65x8TPI ACME	21.5
51	56.0	51.2	64.16x8TPI ACME	21.5
63	69.7	63.9	77.67x8TPI ACME	21.5
76	82.3	76.6	91.19x8TPI ACME	21.5
102	111.1	102.0	125.9x6TPI ACME	30.0

Blank Liner

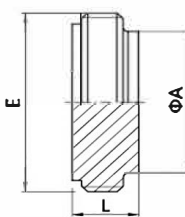
IDF-14B



Size	A	C	L
25	29.0	33.8	10.5
38	42.5	47.0	10.5
51	56.0	60.5	10.5
63	69.7	74.0	10.5
76	82.3	87.5	10.5
102	111.1	120.6	10.5

Blank Male

IDF-15B



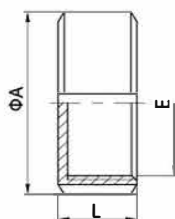
Size	A	E	L
1"	29.0	37.1 3x8TPI ACME	26.5
1 1/2"	42.5	50.65x8TPI ACME	26.5
2"	56.0	64.16x8TPI ACME	26.5
2 1/2"	69.7	77.67x8TPI ACME	26.5
3"	82.3	91.19x8TPI ACME	26.5
4"	111.1	125.9x6TPI ACME	26.5





Blank Nut

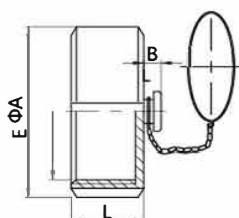
IDF-13RB



Size	A	E	L
25	44.5	34.34x8TPIACME	30
38	57.2	47.86x8TPI ACME	30
51	70	61.37x8TPIACME	30
63	86	74.88x8TPIACME	30
76	102	88.40x8TPIACME	30
102	133	122.05x6TPI ACME	35

Blank Nut With Boss

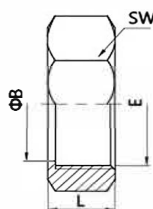
IDF-13RBN



Size	A	B	E	L
25	44.5	7	34.34x8TPIACME	30
38	57.2	7	47.86x8TPI ACME	30
51	70	7	61.37x8TPIACME	30
63	86	7	74.88x8TPIACME	30
76	102	7	88.40x8TPIACME	30
102	133	7	122.05x6TPI ACME	30

Hexagonal Nut

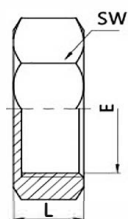
IDF-13H



Size	SW	B	E	L
25	46	30.5	34.34x8TPIACME	30
38	60	43.5	47.86x8TPI ACME	30
51	75	57.0	61.37x8TPIACME	30
63	90	70.7	74.88x8TPIACME	30
76	105	83.3	88.40x8TPIACME	30
102	133	111.0	122.05x6TPI ACME	35

Hexagonal Blank Nut

IDF-13HB



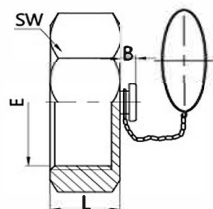
Size	SW	E	L
25	46	34.34x8TPIACME	30
38	60	47.86x8TPI ACME	30
51	75	61.37x8TPIACME	30
63	90	74.88x8TPIACME	30
76	105	88.40x8TPIACME	30
102	133	122.05x6TPI ACME	35





Hexagonal Blank Nut With Boss

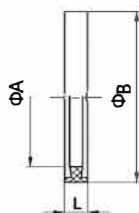
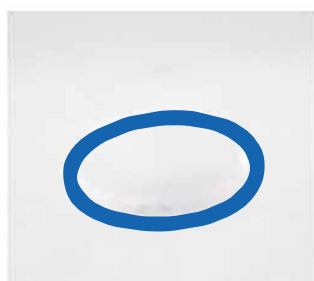
IDF-13HBN



Size	SW	B	E	L
25	46	7	34.34x8TPIACME	30
38	60	7	47.86x8TPI ACME	30
51	75	7	61.37x8TPIACME	30
63	90	7	7 4 88x8TPIACME	30
76	105	7	88.40x8TPIACME	30
102	133	7	122.05x6TPI ACME	35

Gasket

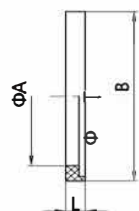
IDF-12G



Size	A	B	L
25	23.2	32.5	7
38	35.9	46.0	7
51	48.6	59.5	7
63	61.3	73.2	7
76	74.0	86.5	7
102	98.6	119.0	9.6

Gasket With Step

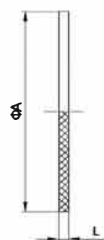
IDF-12GS



Size	A	B	L
25	23.2	32.5	6
38	35.9	46.0	6
51	48.6	59.5	6
63	61.3	73.2	6
76	74.0	86.5	6
102	98.6	119.0	6

Plate Seal

IDF-11PS



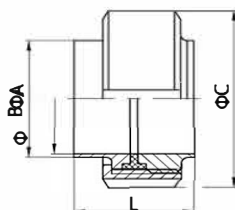
Size	A	L(PTFE)	L(EPDM)
1"	34.4	1.5	3
1 1/2"	47.9	1.5	3
2"	61.4	1.5	3
2 1/2"	74.9	1.5	3
3"	88.4	1.5	3
4"	122.1	1.5	3





Union

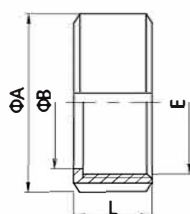
ISO-10



Size	A	B	C	L
25.4	25	21.8	48	43
38.1	38	34.8	64	43
50.8	51	47.8	77	43
63.5	63.5	60.3	91	43
76.2	76.1	72.9	106	43
101.6	101.6	97.6	135	43

Round Nut

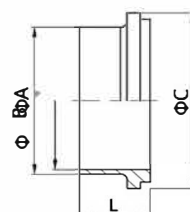
ISO-13R



Size	A	B	E	L
25.4	48	30.5	34.34x8TPI ACME	30
38.1	64	43.5	47.86x8TPI ACME	30
50.8	77	57.0	61.37x8TPI ACME	30
63.5	91	70.7	74.88x8TPI ACME	30
76.2	106	83.3	88.40x8TPI ACME	30
101.6	135	111.0	115.42x8TPI ACME	30

Liner

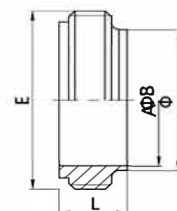
ISO-14



Size	A	B	C	L
25.4	25.6	22.6	33.8	21.5
38.1	38.6	35.6	47.0	21.5
50.8	51.6	48.6	60.5	21.5
63.5	64.1	60.3	74.0	21.5
76.2	76.7	72.9	87.5	21.5
101.6	102.5	98.4	114.1	21.5

Male

ISO-15



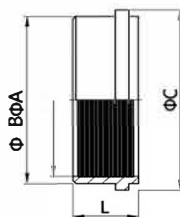
Size	A	B	E	L
25.4	25.6	22.6	37.13x8TPI ACME	21.5
38.1	38.6	35.6	50.65x8TPI ACME	21.5
50.8	51.6	48.6	64.16x8TPI ACME	21.5
63.5	64.1	60.3	77.67x8TPI ACME	21.5
76.2	76.7	72.9	91.19x8TPI ACME	21.5
101.6	102.5	98.4	118.21x8TPI ACME	21.5





Expanding Liner

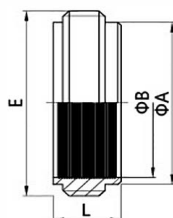
ISO-14R



Size	A	B	C	L
25.4	29.0	25.63	33.8	20
38.1	42.5	38.45	47.0	20
50.8	56.0	51.15	60.5	25
63.5	69.7	63.85	74.0	30
76.2	82.3	76.55	87.5	30
101.6	108.4	102.1	114.1	30

Expanding Male

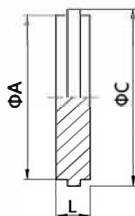
ISO-15R



Size	A	B	E	L
25.4	29.0	25.63	37.13x8TPI ACME	17
38.1	42.5	38.45	50.65x8TPI ACME	20
50.8	56.0	51.15	64.16x8TPI ACME	20
63.5	69.7	63.85	77.67x8TPI ACME	25
76.2	82.3	76.55	91.19x8TPI ACME	30
101.6	108.4	102.1	118.21x8TPI ACME	30

Blank Liner

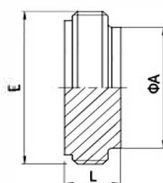
ISO-14B



Size	A	C	L
25.4	29.0	33.8	10.5
38.1	42.5	47.0	10.5
50.8	56.0	60.5	10.5
63.5	69.7	74.0	10.5
76.2	82.3	87.5	10.5
101.6	108.7	114.1	10.5

Blank Liner

ISO-15B



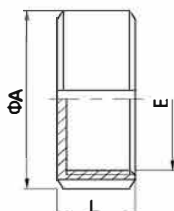
Size	A	C	L
25.4	29.0	37.13x8TPI ACME	26.5
38.1	42.5	50.65x8TPI ACME	26.5
50.8	56.0	64.16x8TPI ACME	26.5
63.5	69.7	77.67x8TPI ACME	26.5
76.2	82.3	91.19x8TPI ACME	26.5
101.6	111.1	118.21 x8TPI ACME	26.5





Blank Nut

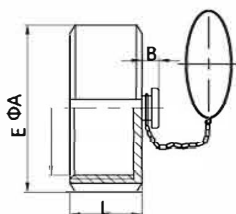
ISO-13RB



Size	A	E	L
25.4	48	34.34×8TPI ACME	30
38.1	64	47.86×8TPI ACME	30
50.8	77	61.37×8TPI ACME	30
63.5	91	74.88×8TPI ACME	30
76.2	106	88.40×8TPI ACME	30
101.6	135	115.42×8TPI ACME	30

Blank Nut With Boss

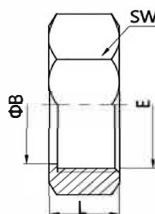
ISO-13RBN



Size	A	B	E	L
25.4	48	7	34.34×8TPI ACME	30
38.1	64	7	47.86×8TPI ACME	30
50.8	77	7	61.37×8TPI ACME	30
63.5	91	7	74.88×8TPI ACME	30
76.2	106	7	88.40×8TPI ACME	30
101.6	135	7	115.42×8TPI ACME	30

Hexagonal Nut

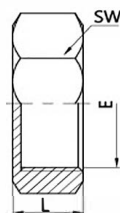
ISO-13H



Size	SW	B	E	L
25.4	46	30.5	34.34×8TPI ACME	30
38.1	60	43.5	47.86×8TPI ACME	30
50.8	75	57.0	61.37×8TPI ACME	30
63.5	90	70.7	74.88×8TPI ACME	30
76.2	105	83.3	88.40×8TPI ACME	30
101.6	135	110.0	115.42×8TPI ACME	30

Hexagonal Blank Nut

ISO-13HB



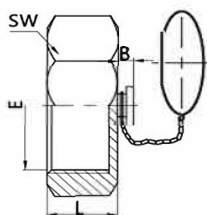
Size	A	C	L
25.4	46	34.34×8TPI ACME	30
38.1	60	47.86×8TPI ACME	30
50.8	75	61.37×8TPI ACME	30
63.5	90	74.88×8TPI ACME	30
76.2	105	88.40×8TPI ACME	30
101.6	135	115.42×8TPI ACME	30





Hexagonal Blank Nut With Boss

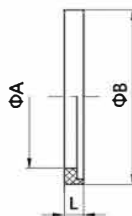
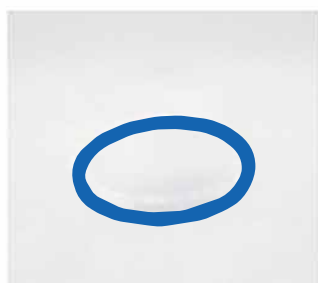
ISO-13HBN



Size	SW	B	E	L
25.4	46	7	34.34x8TPIACME	30
38.1	60	7	47.86x8TPI ACME	30
50.8	75	7	61.37x8TPIACME	30
63.5	90	7	7 4 88x8TPIACME	30
76.2	105	7	88.40x8TPIACME	30
101.6	135	7	115.42x8TPIACME	30

Gasket With Step

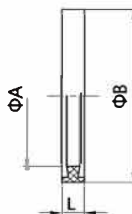
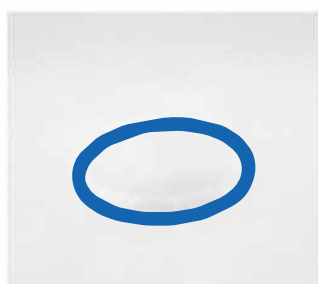
ISO-12GS



Size	A	B	L
25.4	23.2	32.5	6
38.1	35.9	46.0	6
50.8	48.6	59.5	6
63.5	61.3	73.2	6
76.2	74.0	86.5	6
101.6	98.6	112.5	6

Gasket

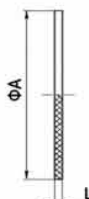
ISO-12G



Size	A	B	L
25.4	23.2	32.5	7
38.1	35.9	46.0	7
50.8	48.6	59.5	7
63.5	61.3	73.2	7
76.2	74.0	86.5	7
101.6	98.6	112.5	7

Plate Seal

ISO-11PS



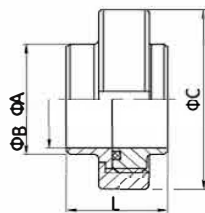
Size	A	L(PTFE)	L(EPDM)
25.4	34.4	1.5	3
38.1	47.9	1.5	3
50.8	61.4	1.5	3
63.5	74.9	1.5	3
76.2	88.4	1.5	3
101.6	115.4	1.5	3





Union (Oblique)

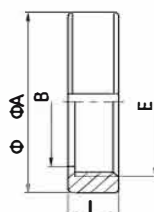
DS-10



Size	A	B	C	L
1"	28.5	22.4	57	36
1 1/4"	35.0	28.75	65	36
1 1/2"	41.4	35.1	71	40
2"	54.0	47.8	88	44
2 1/2"	66.5	60.5	103	48
3"	79.5	72.2	115	52
4"	105.0	97.6	148	65

Round Nut

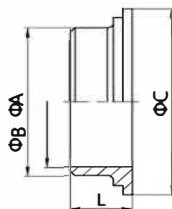
DS-13



Size	A	B	E	L
1"	57	35	Rd 44×1/6"	20
1 1/4"	65	42	Rd 52×1/6"	20
1 1/2"	71	48	Rd 58×1/6"	20
2"	88	62	Rd 72×1/6"	22
2 1/2"	103	76	Rd 88×1/6"	24
3"	115	88	Rd 100×1/6"	25
4"	148	116	Rd 130×1/4"	32

Liner

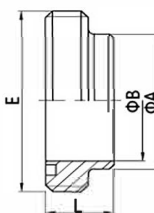
DS-14



Size	A	B	C	L
1"	28.5	22.4	40	16
1 1/4"	35.0	28.75	48	16
1 1/2"	41.4	35.1	54	18
2"	54.0	47.8	68	20
2 1/2"	66.5	60.5	84	22
3"	79.5	72.2	96	24
4"	110.0	97.6	124.6	30

Male

DS-15



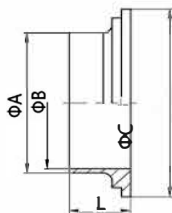
Size	A	B	E	L
1"	28.5	22.4	Rd 44×1/6"	20
1 1/4"	35.0	28.75	Rd 52×1/6"	20
1 1/2"	41.4	35.1	Rd 58×1/6"	22
2"	54.0	47.8	Rd 72×1/6"	24
2 1/2"	66.5	60.5	Rd 88×1/6"	26
3"	79.5	72.2	Rd 100×1/6"	28
4"	110.0	97.6	Rd 130×1/4"	35





Liner

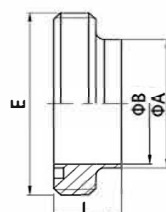
DS-14H



Size	A	B	C	L
1"	25.4	22.4	40	16
1 1/4"	31.75	28.75	48	16
1 1/2"	38.1	35.1	54	18
2"	50.8	47.8	68	20
2 1/2"	63.5	60.5	84	22
3"	76.2	72.2	96	24
4"	101.6	97.6	124.6	30

Male

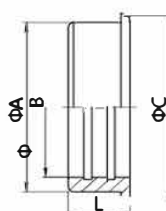
DS-15H



Size	A	B	E	L
1"	25.4	22.4	Rd 44x1/6"	20
1 1/4"	31.75	28.75	Rd 52x1/6"	20
1 1/2"	38.1	35.1	Rd 58x1/6"	22
2"	50.8	47.8	Rd 72x1/6"	24
2 1/2"	63.5	60.5	Rd 88x1/6"	26
3"	76.2	72.2	Rd 100x1/6"	28
4"	101.6	97.6	Rd 130x1/4"	35

Expanding Liner

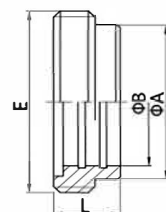
DS-14R



Size	A	B	C	L
1"	34.5	25.5	40	16
1 1/4"	41.5	31.9	48	16
1 1/2"	47.5	38.2	54	18
2"	61.5	50.9	68	20
2 1/2"	75.5	63.6	84	22
3"	87.5	76.3	96	24
4"	115.5	101.7	124.6	30

Expanding Male

DS-15R



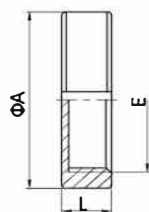
Size	A	B	E	L
1"	34.5	25.5	Rd 44x1/6"	20
1 1/4"	41.5	31.9	Rd 52x1/6"	20
1 1/2"	47.5	38.2	Rd 58x1/6"	22
2"	61.5	50.9	Rd 72x1/6"	24
2 1/2"	75.5	63.6	Rd 88x1/6"	26
3"	87.5	76.3	Rd 100x1/6"	28
4"	115.5	101.7	Rd 130x1/4"	35





Blank Nut

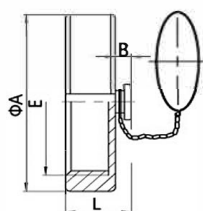
DS-13RB



Size	A	E	L
1"	57	Rd 44x1/6"	20
1 1/4"	65	Rd 52x1/6"	20
1 1/2"	71	Rd 58x1/6"	20
2"	88	Rd 72x1/6"	22
2 1/2"	103	Rd 88x1/6"	24
3"	115	Rd 100x1/6"	25
4"	148	Rd 130x1/4"	32

Blanke Nut With Boss

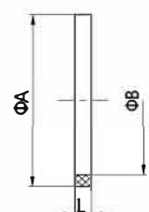
DS-13RBN



Size	A	B	E	L
1"	57	7	Rd 44x1/6"	27
1 1/4"	65	7	Rd 52x1/6"	27
1 1/2"	71	7	Rd 58x1/6"	27
2"	88	7	Rd 72x1/6"	29
2 1/2"	103	7	Rd 88x1/6"	31
3"	115	7	Rd 100x1/6"	32
4"	148	7	Rd 130x1/4"	39

Gasket

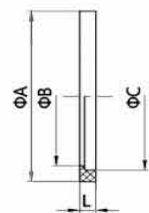
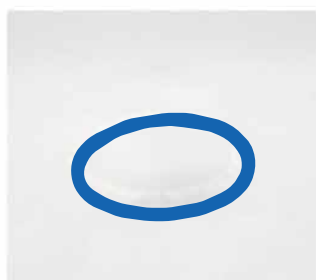
DS-12G



Size	A	B	L
1"	31.8	25.5	5
1 1/4"	40.8	31.8	5
1 1/2"	46.8	38.2	5
2"	58.8	50.9	5
2 1/2"	74.3	63.6	5
3"	87.8	76.3	5
4"	115.8	101.7	5

With Step Gasket

DS-12GS



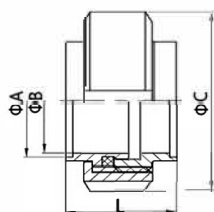
Size	A	C	B	L
1"	31.8	25.5	22.6	5
1 1/4"	40.8	31.8	29.0	5
1 1/2"	46.8	38.2	35.3	5
2"	58.8	50.9	48.0	5
2 1/2"	74.3	63.6	60.7	5
3"	87.8	76.3	72.4	5
4"	115.8	101.7	97.8	5





Union

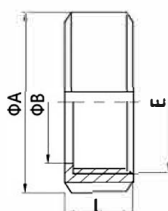
MACON-10



Size	A	B	C	L
43	43.3	40	70	35
53	53.3	50	80	35
63	63.3	60	95	35
73	73.3	70	106	35
83	83.3	80	118	35
103	104.2	100	139	35

Blank Nut

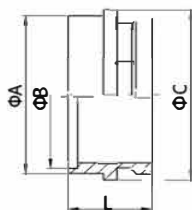
MACON-13



Size	A	B	E	L
43	70	47	M55x3.0	24
53	80	57	M67x3.0	24
63	95	67	M79x3.5	24
73	106	77	M90x3.5	24
83	118	87	M102x4.0	25
103	139	109	M125x4.0	25

Liner

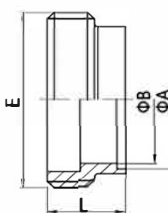
MACON-14



Size	A	B	C	L
43	46.3	43.3	50	22
53	56.3	53.3	63	22
63	66.3	63.3	74	22
73	76.3	73.3	85	22
83	86	83.3	96	22
103	108	104.2	119	22

Male

MACON-15



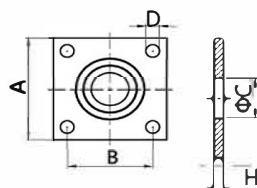
Size	A	B	E	L
43	43.3	40	M55x3.0	22
53	53.3	50	M67x3.0	22
63	63.3	60	M79x3.5	22
73	73.3	70	M90x3.5	22
83	83.3	80	M102x4.0	22
103	104.2	100	M125x4.0	22





Square Flange With Rounds Holes

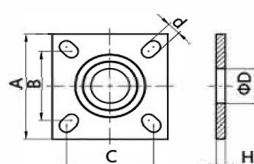
SFR



Size	A	B	C	D	D	H
43-1	80	60	43	12	M10	6/8
43-2	90	65	43	12	M10	6/8
43-3	100	75	43	12	M10	6/8
53	100	75	53	12	M10	6/8
63-1	100	75	63	12	M10	6/8
63-2	120	90	63	14	M12	6/8
73	120	90	73	14	M12	6/8
83	140	110	83	14	M12	10
103	140	110	103	14	M12	10

Square Flange With Ovals Holes

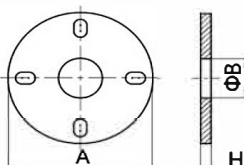
SFO



Size	A	B	C	D	d	H
43-1	80	50	60	43	11	6
43-2	90	55	65	43	11	6
43-3	100	60	75	43	11	6
53-1	100	60	75	53	11	6
53-2	100	60	75	53	11	6
63-1	100	60	75	63	11	6
63-2	120	75	90	63	13	6
73	120	75	90	73	13	6
83	140	90	110	83	13	6
103	140	90	110	103	13	6

Round Flange With Ovals Holes

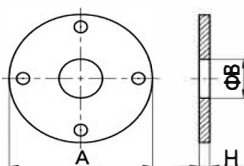
RFO



Size	A	B	H
43	130	43	6/8
53	140	53	6/8
63	160	63	6/8
73	160	73	6/8
83	190	83	10
103	210	103	10

Round Flange With Rounds Holes

PN6



Size	A	B	H
43	130	43	6/8
53	140	53	6/8
63	160	63	6/8
73	160	73	6/8
83	190	83	10
103	210	103	10

