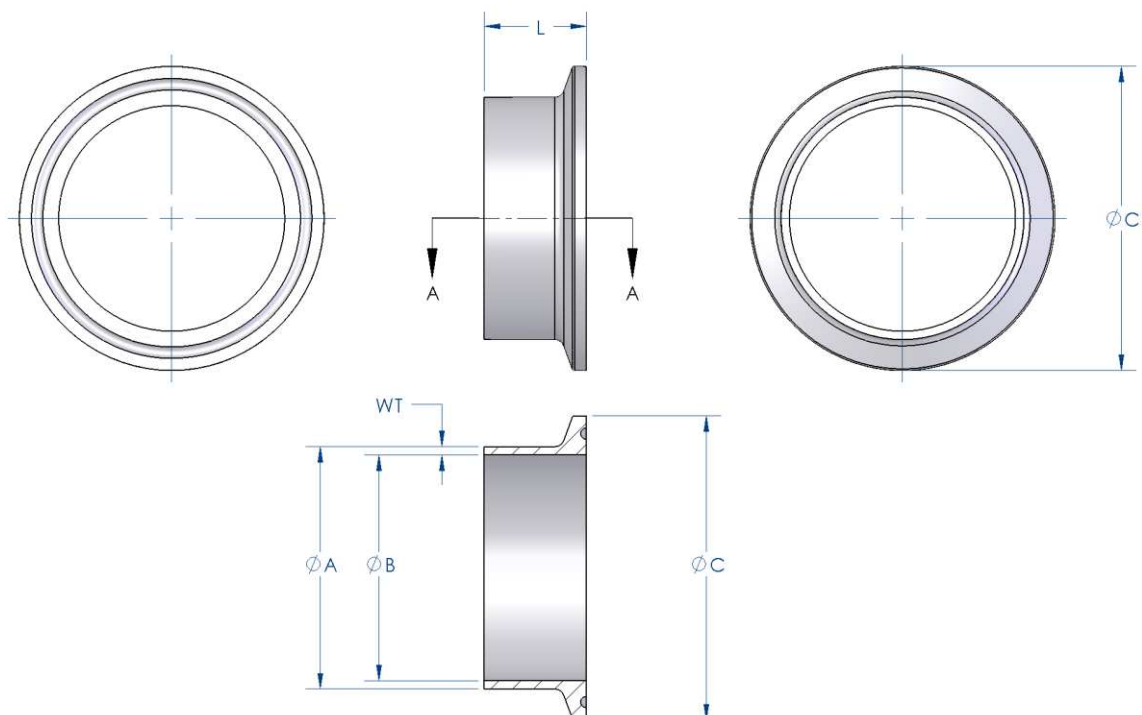
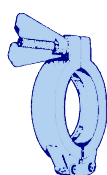


Material	316L / 1.4404
Surface Finish	0.8 Ra(μm) / 32 Ra(μin)
Manufactured	3.1b Certified- Solid Bar



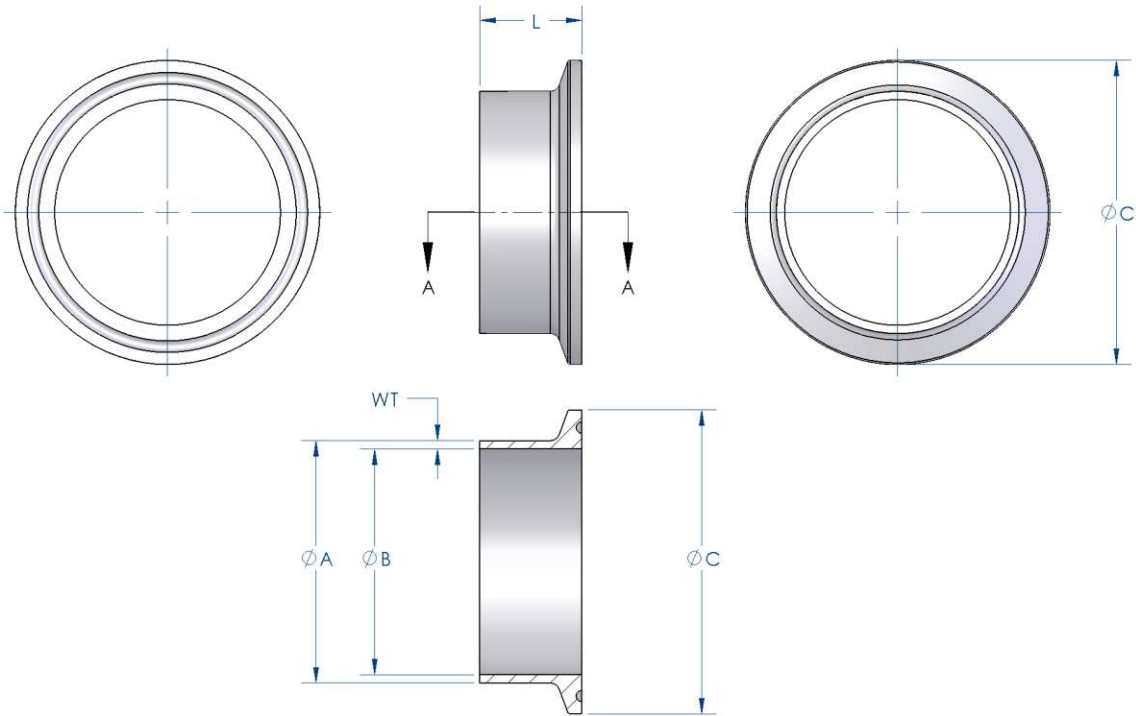
FERRULES - BS 4825 Pt.3							
Nominal Size Inch	Dimensions (mm)					Mass (kg)	Ordering Code
	OD ØA	ID ØB	Flange ØC	Wall WT	Length L		
1/2"	12.70	9.52	25.4	1.59	21.5	0.02	FR.BS.0050
3/4"	19.05	15.87	25.4	1.59	21.5	0.02	FR.BS.0075
1"	25.65	22.20	50.5	1.73	21.5	0.08	FR.BS.0100
1 1/2"	38.35	34.90	50.5	1.73	21.5	0.06	FR.BS.0150
2"	51.05	47.60	64.0	1.73	21.5	0.08	FR.BS.0200
2 1/2"	63.75	60.30	77.5	1.73	21.5	0.10	FR.BS.0250
3"	76.45	73.00	91.0	1.73	21.5	0.13	FR.BS.0300
3 1/2"	88.90	84.70	106.0	2.10	21.5	0.21	FR.BS.0350
4"	101.85	97.60	119.0	2.13	21.5	0.21	FR.BS.0400
4 1/2"	114.95	110.30	130.0	2.33	28.0	0.25	FR.BS.0450
5"	127.00	123.00	144.4	2.00	28.0	0.41	FR.BS.0500
5 1/2"	140.55	135.76	155.0	2.40	28.0	0.43	FR.BS.0550
6"	154.00	150.00	167.0	2.00	28.0	0.38	FR.BS.0600
6 5/8"	169.35	163.10	183.0	3.13	28.0	0.56	FR.BS.0658
8"	204.00	200.00	217.4	2.00	28.0	0.52	FR.BS.0800
8 5/8"	220.55	213.90	233.5	3.33	28.0	0.73	FR.BS.0858
10"	254.00	250.00	268.0	2.00	28.0	0.65	FR.BS.1000
10 5/8"	273.00	266.30	286.1	3.35	28.0	0.93	FR.BS.1058
12"	304.80	300.80	319.0	2.00	28.0	0.81	
12 5/8"	323.80	315.90	338.0	3.95	28.0	1.28	

Couplings can offer non-standard BS4825 ferrule adaptations in varying lengths and internal surface finishes to suit individual customer requirements. Please contact our sales department if the ferrule you require cannot be found in our brochure.



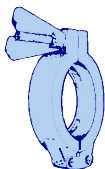
PHARMACEUTICAL
FERRULES
BS SCHEDULE 5

Material	316L / 1.4404
Surface Finish	0.8 Ra(µm) / 32 Ra(µin)
Manufactured	3.1b Certified- Solid Bar



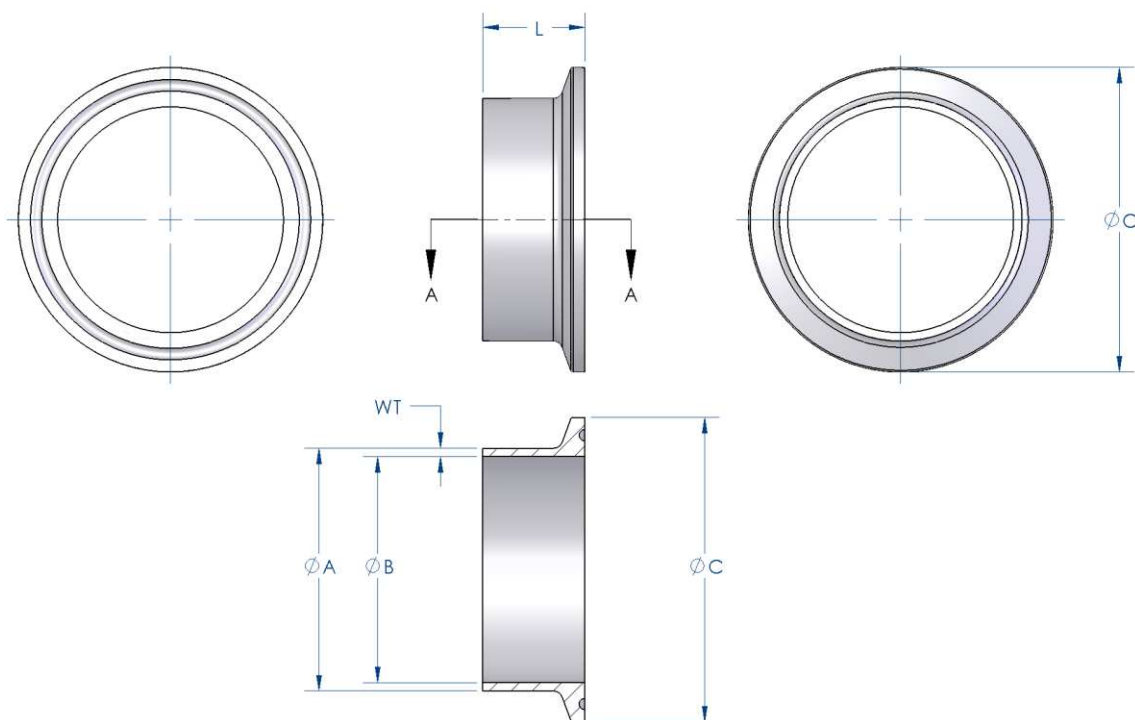
FERRULES - SCHEDULE 5							
Nominal Size Inch	Dimensions (mm)					Mass (kg)	Ordering Code
	OD ØA	ID ØB	Flange ØC	Wall WT	Length L		
1/2"	21.34	18.04	50.5	1.65	21.5	0.06	FR.BS05.0050
3/4"	26.67	23.37	50.5	1.65	21.5	0.07	FR.BS05.0075
1"	33.40	30.10	50.5	1.65	21.5	0.08	FR.BS05.0100
1 1/4"	42.16	38.86	64.0	1.65	21.5	0.08	FR.BS05.0125
1 1/2"	48.26	44.96	64.0	1.65	21.5	0.09	FR.BS05.0150
2"	60.32	57.02	77.5	1.65	21.5	0.10	FR.BS05.0200
2 1/2"	73.03	68.81	91.0	2.11	21.5	0.16	FR.BS05.0250
3"	88.90	84.68	106.0	2.11	21.5	0.21	FR.BS05.0300
3 1/2"	101.60	97.38	119.0	2.11	21.5	0.21	FR.BS05.0350
4"	114.30	110.08	130.0	2.11	28.0	0.25	FR.BS05.0400
5"	141.30	135.76	155.0	2.77	28.0	0.43	FR.BS05.0500
6"	168.28	162.74	183.0	2.77	28.0	0.56	FR.BS05.0600
8"	219.08	213.54	233.5	2.77	28.0	0.73	FR.BS05.0800
10"	273.05	266.25	286.1	3.40	28.0	0.93	FR.BS05.1000
12"	323.85	315.93	338.0	3.96	28.0	1.28	FR.BS05.1200

Couplings can offer non-standard BS Sch.5 ferrule adaptations in varying lengths and internal surface finishes to suit individual customer requirements. Please contact our sales department if the ferrule you require cannot be found in our brochure.



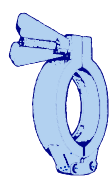
Material	316L / 1.4404
Surface Finish	0.8 Ra(µm) / 32 Ra(µin)
Manufactured	3.1b Certified- Solid Bar

**PHARMACEUTICAL
FERRULES
BS SCHEDULE 10**



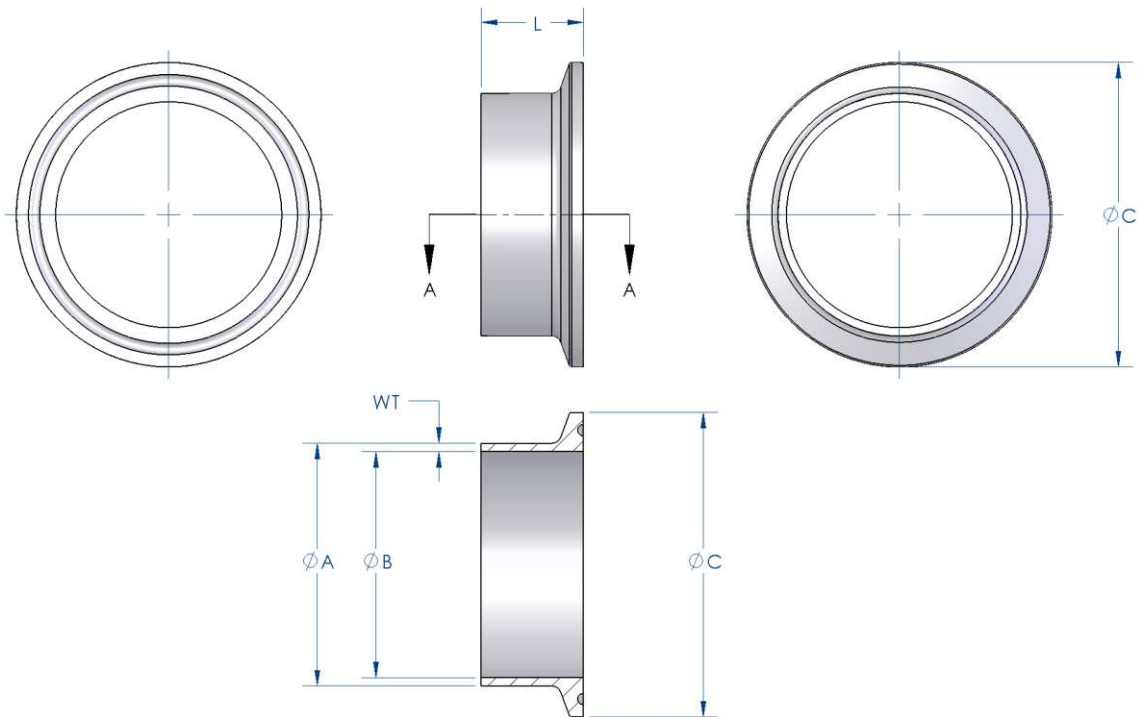
FERRULES - SCHEDULE 10							
Nominal Size Inch	Dimensions (mm)					Mass (kg)	Ordering Code
	OD ØA	ID ØB	Flange ØC	Wall WT	Length L		
1/2"	21.34	17.12	50.5	2.11	21.5	0.08	FR.BS10.0050
3/4"	26.67	22.45	50.5	2.11	21.5	0.08	FR.BS10.0075
1"	33.40	27.86	50.5	2.77	21.5	0.08	FR.BS10.0100
1 1/4"	42.16	36.62	64.0	2.77	21.5	0.09	FR.BS10.0125
1 1/2"	48.26	42.72	64.0	2.77	21.5	0.11	FR.BS10.0150
2"	60.33	54.79	77.5	2.77	21.5	0.15	FR.BS10.0200
2 1/2"	73.03	66.93	91.0	3.05	21.5	0.18	FR.BS10.0250
3"	88.90	82.80	106.0	3.05	21.5	0.22	FR.BS10.0300
3 1/2"	101.60	95.50	119.0	3.05	21.5	0.28	FR.BS10.0350
4"	114.30	108.20	130.0	3.05	28.0	0.34	FR.BS10.0400
5"	141.30	134.50	155.0	3.40	28.0	0.43	FR.BS10.0500
6"	168.28	161.47	183.0	3.41	28.0	0.61	FR.BS10.0600
8"	219.08	211.56	233.5	3.76	28.0	0.73	FR.BS10.0800
10"	273.05	264.67	286.1	4.19	28.0	0.93	FR.BS10.1000
12"	323.85	314.71	338.0	4.57	28.0	1.28	FR.BS10.1200

The above table shows the full range of BS Sch.10 ferrules as given in the exacting standard. Couplings can offer non-standard BS Sch.10 ferrule adaptations in varying lengths and internal surface finishes to suit individual customer requirements. Please contact our sales department if the ferrule you require cannot be found in our brochure.



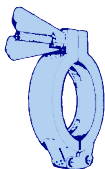
PHARMACEUTICAL
FERRULES
BS SCHEDULE 40

Material	316L / 1.4404
Surface Finish	0.8 Ra(µm) / 32 Ra(µin)
Manufactured	3.1b Certified- Solid Bar



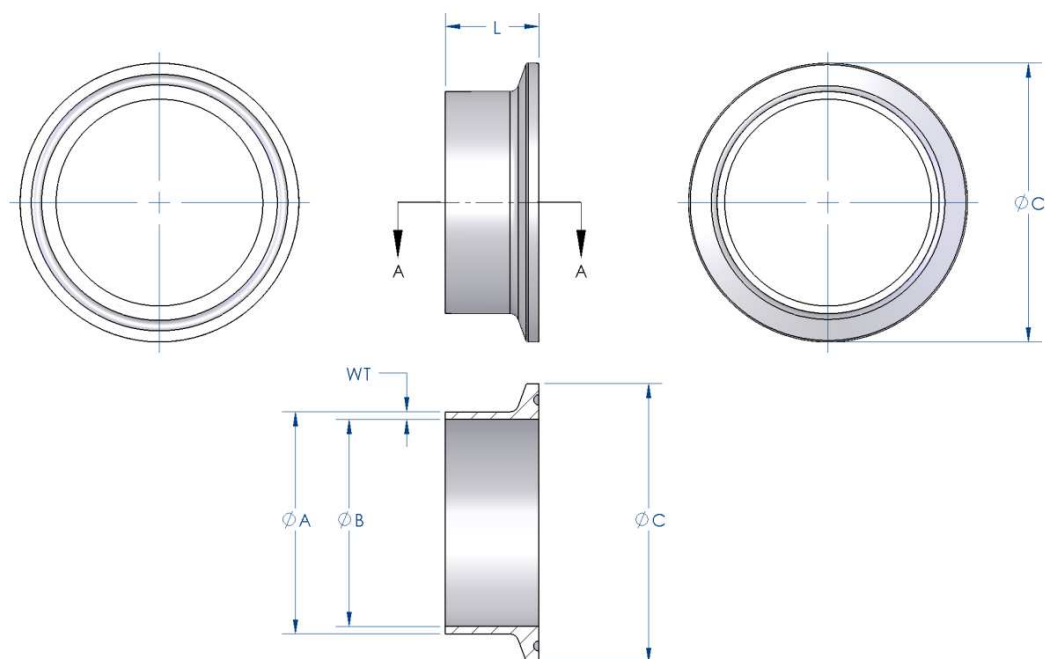
FERRULES - SCHEDULE 40							
Nominal Size Inch	Dimensions (mm)					Mass (kg)	Ordering Code
	OD ØA	ID ØB	Flange ØC	Wall WT	Length L		
1/2"	21.34	15.80	50.5	2.77	21.5	0.09	FR.BS40.0050
3/4"	26.67	20.93	50.5	2.87	21.5	0.09	FR.BS40.0075
1"	33.40	26.64	50.5	3.38	21.5	0.09	FR.BS40.0100
1 1/4"	42.16	35.04	64.0	3.56	21.5	0.13	FR.BS40.0125
1 1/2"	48.26	40.88	64.0	3.69	21.5	0.13	FR.BS40.0150
2"	60.33	52.51	77.5	3.91	21.5	0.18	FR.BS40.0200
2 1/2"	73.03	62.71	91.0	5.16	21.5	0.22	FR.BS40.0250
3"	88.90	77.92	106.0	5.49	21.5	0.26	FR.BS40.0300
3 1/2"	101.60	90.12	119.0	5.74	21.5	0.34	FR.BS40.0350
4"	114.30	102.26	130.0	6.02	28.0	0.44	FR.BS40.0400
5"	141.30	128.20	155.0	6.55	28.0	0.52	FR.BS40.0500
6"	168.28	154.06	183.0	7.11	28.0	0.63	FR.BS40.0600
8"	219.08	202.72	233.5	8.18	28.0	0.80	FR.BS40.0800
10"	273.05	254.51	286.1	9.27	28.0	1.00	FR.BS40.1000
12"	323.85	304.79	338.0	9.53	28.0	1.35	FR.BS40.1200

Couplings can offer non-standard BS Sch.40 ferrule adaptations in varying lengths and internal surface finishes to suit individual customer requirements. Please contact our sales department if the ferrule you require cannot be found in our brochure.



Material	316L / 1.4404
Surface Finish	0.8 Ra(µm) / 32 Ra(µin)
Manufactured	3.1b Certified- Solid Bar

PHARMACEUTICAL FERRULES **DIN 32676 SERIES 2**



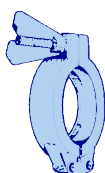
FERRULES - DIN 32676 - SERIES 2

Nominal Size Metric	Dimensions (mm)					Mass (kg)	Ordering Code
	OD ØA	ID ØB	Flange ØC	Wall WT	Length L		
DIN 10	13.0	10.0	34.0	1.50	18.0	0.03	FR.DN2.010
DIN 15	19.0	16.0	34.0	1.50	18.0	0.03	FR.DN2.015
DIN 20	23.0	20.0	34.0	1.50	18.0	0.03	FR.DN2.020
DIN 25	29.0	26.0	50.5	1.50	21.5	0.07	FR.DN2.025
DIN 32	35.0	32.0	50.5	1.50	21.5	0.06	FR.DN2.032
DIN 40	41.0	38.0	50.5	1.50	21.5	0.05	FR.DN2.040
DIN 50	53.0	50.0	64.0	1.50	21.5	0.07	FR.DN2.050
DIN 65	70.0	66.0	91.0	2.00	28.0	0.19	FR.DN2.065
DIN 80	85.0	81.0	106.0	2.00	28.0	0.23	FR.DN2.080
DIN 100	104.0	100.0	119.0	2.00	28.0	0.22	FR.DN2.100
DIN 125	129.0	125.0	155.0	2.00	28.0	0.53	FR.DN2.125
DIN 150	154.0	150.0	183.0	2.00	28.0	0.76	FR.DN2.150
DIN 200	204.0	200.0	233.5	2.00	28.0	0.93	FR.DN2.200

FERRULES - DIN 32676 - SERIES 2 - NON STANDARD

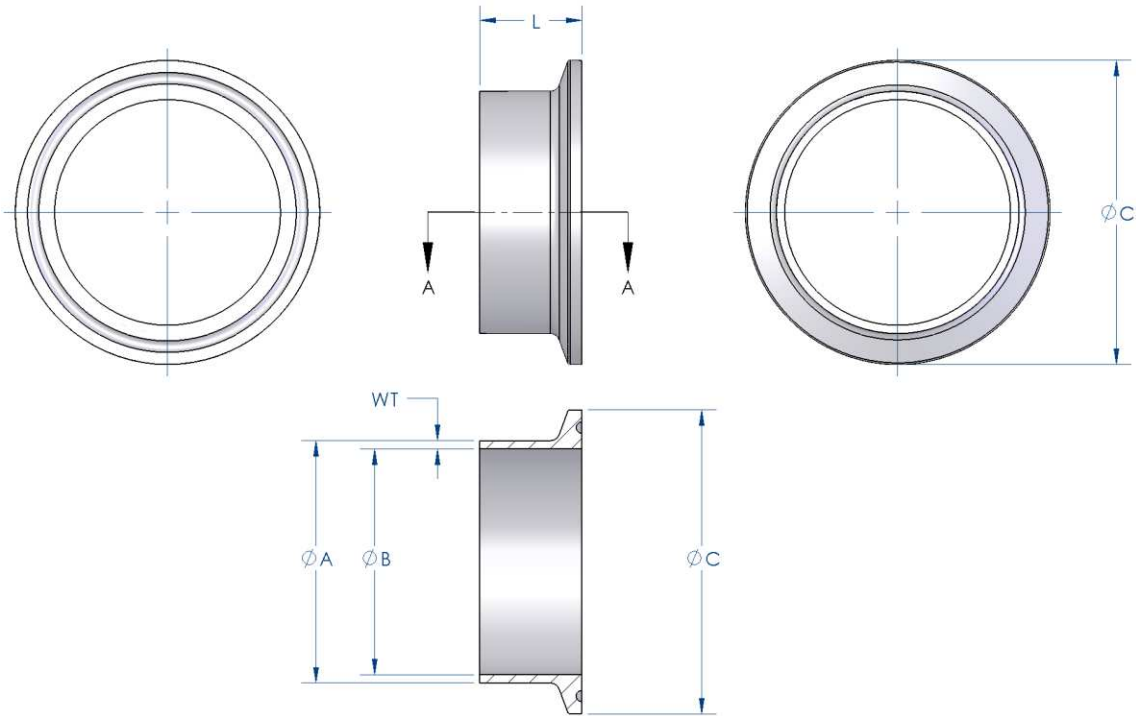
Nominal Size Metric	Dimensions (mm)					Mass (kg)	Ordering Code
	OD ØA	ID ØB	Flange ØC	Wall WT	Length L		
DIN 125	129.0	125.0	144.4	2.00	28.0	0.30	FR.DNX.125
DIN 150	154.0	150.0	167.0	2.00	28.0	0.38	FR.DNX.150
DIN 200	204.0	200.0	217.4	2.00	28.0	0.51	FR.DNX.200
DIN 250	254.0	250.0	268.0	2.00	28.0	0.65	FR.DNX.250
DIN 300	304.0	300.0	319.0	2.00	28.0	0.81	FR.DNX.300

The above table shows the full range of DIN 32676 S2 ferrules as given in the exacting standard. standard DIN 32676 S2 ferrule adaptations in varying lengths and internal surface finishes to suit individual customer requirements. Please contact our sales department if the ferrule you require cannot be found in our brochure.



PHARMACEUTICAL
FERRULES
DIN 32676 SERIES 1 & 3

Material	316L / 1.4404
Surface Finish	0.8 Ra(µm) / 32 Ra(µin)
Manufactured	3.1b Certified- Solid Bar



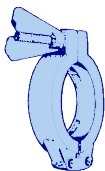
FERRULES - DIN 32676 - SERIES 1

Nominal Size Metric	Dimensions (mm)					Mass (kg)	Ordering Code
	OD ØA	ID ØB	Flange ØC	Wall WT	Length L		
DIN 10	12.0	10.0	34.0	1.00	18.0	0.03	FR.DN1.010
DIN 15	18.0	16.0	34.0	1.00	18.0	0.03	FR.DN1.015
DIN 20	22.0	20.0	34.0	1.00	18.0	0.02	FR.DN1.020
DIN 25	28.0	26.0	50.5	1.00	21.5	0.06	FR.DN1.025
DIN 32	34.0	32.0	50.5	1.00	21.5	0.05	FR.DN1.032
DIN 40	40.0	38.0	50.5	1.00	21.5	0.04	FR.DN1.040
DIN 50	52.0	50.0	64.0	1.00	21.5	0.06	FR.DN1.050

FERRULES - DIN 32676 - SERIES 3

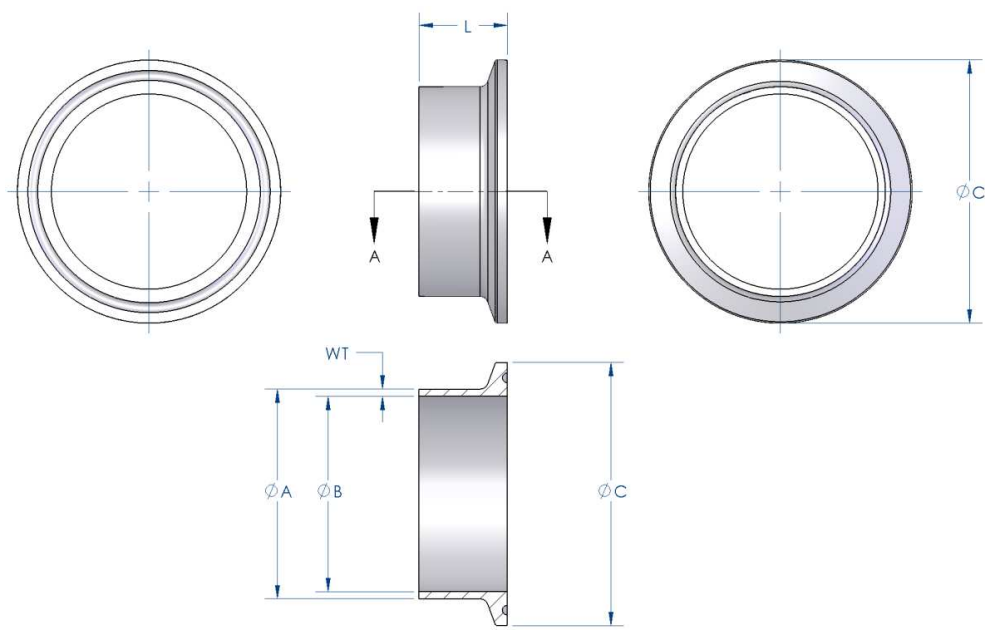
Nominal Size Metric	Dimensions (mm)					Mass (kg)	Ordering Code
	OD ØA	ID ØB	Flange ØC	Wall WT	Length L		
DIN 10	14.0	10.0	34.0	2.00	18.0	0.04	FR.DN3.010
DIN 15	20.0	16.0	34.0	2.00	18.0	0.03	FR.DN3.015
DIN 20	24.0	20.0	34.0	2.00	18.0	0.03	FR.DN3.020
DIN 25	30.0	26.0	50.5	2.00	21.5	0.07	FR.DN3.025
DIN 32	36.0	32.0	50.5	2.00	21.5	0.07	FR.DN3.032
DIN 40	42.0	38.0	50.5	2.00	21.5	0.06	FR.DN3.040
DIN 50	54.0	50.0	64.0	2.00	21.5	0.08	FR.DN3.050

The above table shows the full range of DIN 32676 S1 & S3 ferrules as given in the exacting standard. standard DIN 32676 S1 & S3 ferrule adaptations in varying lengths and internal surface finishes to suit individual customer requirements. Please contact our sales department if the ferrule you require cannot be found in our brochure.



Material	316L / 1.4404
Surface Finish	0.8 Ra(µm) / 32 Ra(µin)
Manufactured	3.1b Certified- Solid Bar

PHARMACEUTICAL FERRULES ISO 1127

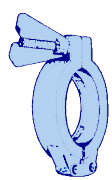


FERRULES - ISO 1127 SERIES 1

Nominal Size ISO (DN)	Dimensions (mm)					Mass (kg)	Ordering Code
	OD ØA	ID ØB	Flange ØC	Wall WT	Length L		
8	13.5	10.3	25.4	1.60	21.5	0.02	FR.IS1.D008
10	17.2	14.0	25.4	1.60	21.5	0.02	FR.IS1.D010
15	21.3	18.1	50.5	1.60	21.5	0.08	FR.IS1.D015
20	26.9	22.9	50.5	2.00	21.5	0.08	FR.IS1.D020
25	33.7	29.7	50.5	2.00	21.5	0.07	FR.IS1.D025
32	42.4	38.4	64.0	2.00	21.5	0.11	FR.IS1.D032
40	48.3	44.3	64.0	2.00	21.5	0.09	FR.IS1.D040
50	60.3	56.3	77.5	2.00	21.5	0.12	FR.IS1.D050
65	76.1	72.1	91.0	2.00	21.5	0.14	FR.IS1.D065
80	88.9	84.9	106.0	2.00	21.5	0.18	FR.IS1.D080
100	114.3	110.3	130.0	2.00	28.0	0.25	FR.IS1.D100
125	139.7	135.7	155.0	2.00	28.0	0.37	FR.IS1.D125
150	168.3	163.1	183.0	2.60	28.0	0.51	FR.IS1.D150
200	219.1	213.9	233.5	2.60	28.0	0.66	FR.IS1.D200
250	273.0	267.8	286.1	2.60	28.0	0.93	FR.IS1.D250
300	323.9	318.7	338.5	2.60	28.0	1.28	FR.IS1.D300

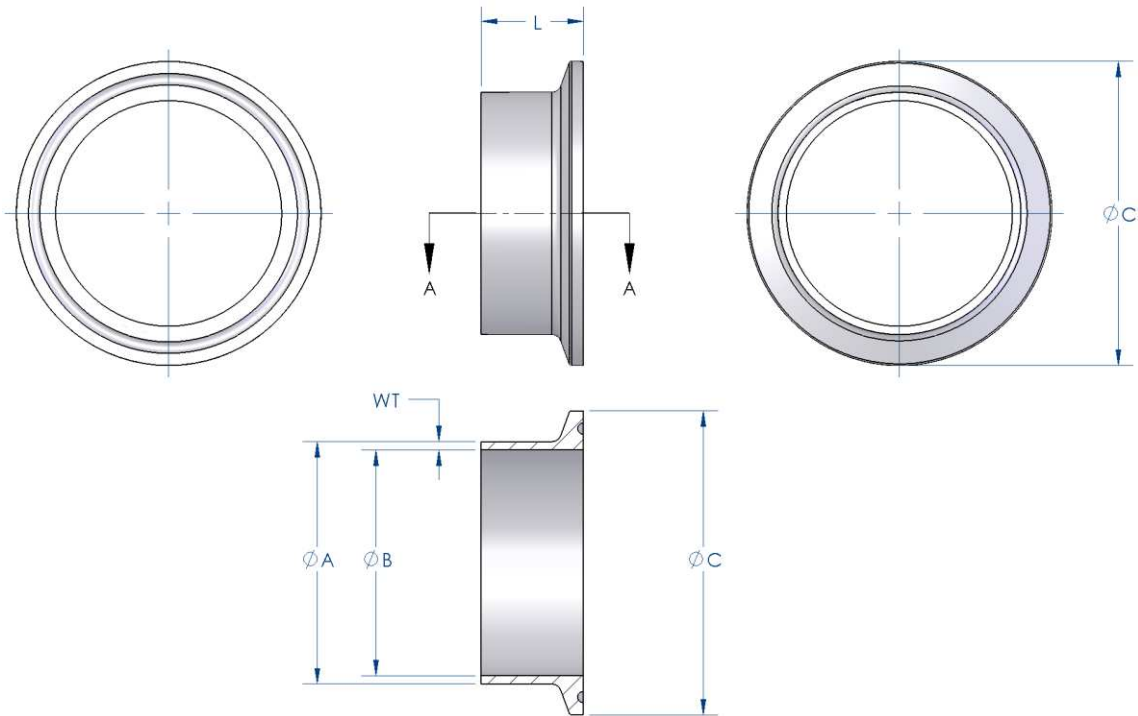
FERRULES - ISO 1127 VARIATIONS

Nominal Size ISO (DN)	Dimensions (mm)					Mass (kg)	Ordering Code
	OD ØA	ID ØB	Flange ØC	Wall WT	Length L		
8	13.5	10.3	34.0	1.60	18.0	0.03	FR.IS1X.D008.A
8	13.5	10.3	50.5	1.60	21.5	0.04	FR.IS1X.D008.B
10	17.2	14.0	34.0	1.60	18.0	0.03	FR.IS1X.D010.A
10	17.2	14.0	50.5	1.60	21.5	0.04	FR.IS1X.D010.B
15	21.3	18.1	34.0	1.60	18.0	0.03	FR.IS1X.D015.A
20	26.9	23.7	50.5	1.60	21.5	0.07	FR.IS1X.D020.A
25	33.7	30.5	50.5	1.60	21.5	0.07	FR.IS1X.D025.A
25	33.7	31.3	50.5	1.20	21.5	0.05	FR.IS1X.D025.B
65	76.1	72.9	91.0	1.60	21.5	0.12	FR.IS1X.D065.A



PHARMACEUTICAL
FERRULES
ISO 2037

Material	316L / 1.4404
Surface Finish	0.8 Ra(µm) / 32 Ra(µin)
Manufactured	3.1b Certified- Solid Bar



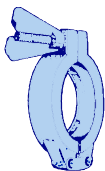
FERRULES - ISO 2037 SERIES 1

Nominal Size Metric (Imperial)	Dimensions (mm)					Mass (kg)	Ordering Code
	OD ØA	ID ØB	Flange ØC	Wall WT	Length L		
20.0 (.75")	20.00	17.60	50.5	1.20	21.5	0.03	FR.IS21.M020
25.0 (1.0")	25.00	22.60	50.5	1.20	21.5	0.07	FR.IS21.M025
38.0 (1.5")	38.00	35.60	50.5	1.20	21.5	0.05	FR.IS21.M038
40.0 (1.5")	40.00	37.60	50.5	1.20	21.5	0.05	FR.IS21.M048
51.0 (2.0")	51.00	48.60	64.0	1.20	21.5	0.06	FR.IS21.M051

FERRULES - ISO 2037 SERIES 2

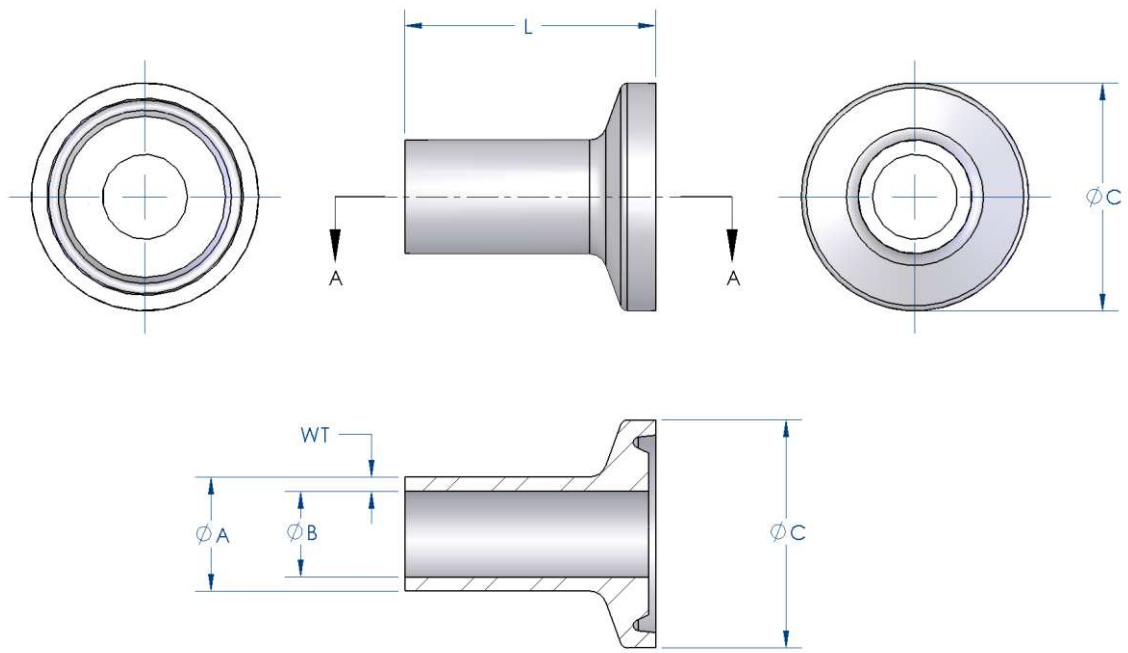
Nominal Size Metric (Imperial)	Dimensions (mm)					Mass (kg)	Ordering Code
	OD ØA	ID ØB	Flange ØC	Wall WT	Length L		
25.0 (1.0")	25.00	21.80	50.5	1.60	21.5	0.07	FR.IS22.M025
38.0 (1.5")	38.00	34.80	50.5	1.60	21.5	0.05	FR.IS22.M038
40.0 (1.5")	40.00	36.80	50.5	1.60	21.5	0.05	FR.IS22.M040
51.0 (2.0")	51.00	47.80	64.0	1.60	21.5	0.08	FR.IS22.M051
63.5 (2.5")	63.50	60.30	77.5	1.60	21.5	0.10	FR.IS22.M063
70.0 (3.0")	70.00	66.80	91.0	1.60	21.5	0.15	FR.IS22.M070
101.6 (4.0")	101.60	97.60	119.0	2.00	21.5	0.21	FR.IS22.M101

ISO 2037 is the standard for stainless steel tube for the food industry. ISO 2037 is now being offered in place of ISO 2852 ferrule sizes, as it matches the tube size to which the ferrules are connected. For ISO 2852 sizes please refer to SMS 3017 tables.



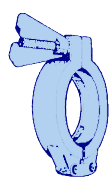
Material	316L / 1.4404
Surface Finish	0.6 Ra(μm) / 24 Ra(μin)
Manufactured	3.1b Certified- Solid Bar

PHARMACEUTICAL **FERRULES** **MINI SERIES – ULTRA BORE**



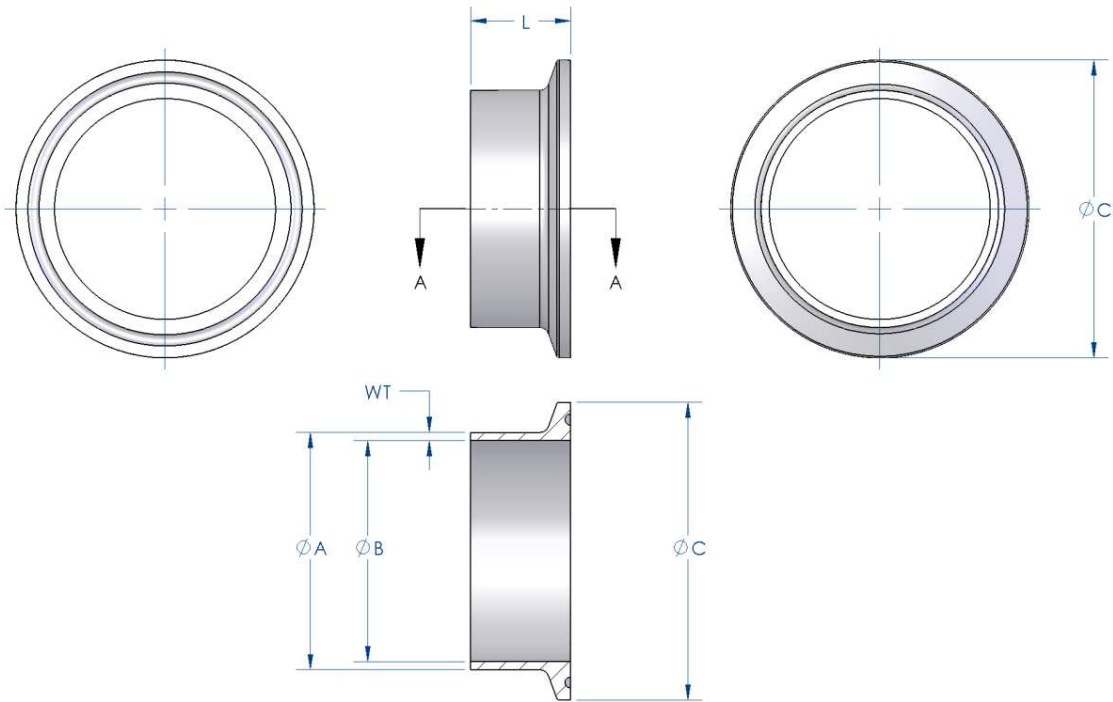
FERRULES - MINI-SERIES METRIC							
Nominal Size Metric	Dimensions (mm)					Mass (kg)	Ordering Code
	OD ØA	ID ØB	Flange ØC	Wall WT	Length L		
6 x 4	6.0	4.0	25.4	1.00	21.5	0.02	FR.MS.0604
8 x 6	8.0	6.0	25.4	1.00	21.5	0.02	FR.MS.0806
10 x 8	10.0	8.0	25.4	1.00	21.5	0.02	FR.MS.1008
12 x 10	12.0	10.0	25.4	1.00	21.5	0.02	FR.MS.1210
14 x 12	14.0	12.0	25.4	1.00	21.5	0.02	FR.MS.1412
16 x 14	16.0	14.0	25.4	1.00	21.5	0.02	FR.MS.1614
18 x 16	18.0	16.0	25.4	1.00	21.5	0.02	FR.MS.1816

FERRULES - MINI-SERIES IMPERIAL							
Nominal Size Imperial	Dimensions (mm)					Mass (kg)	Ordering Code
	OD ØA	ID ØB	Flange ØC	Wall WT	Length L		
1/4"	6.35	4.57	25.4	0.89	21.5	0.02	FR.MSI.025
3/8"	9.53	7.71	25.4	0.91	21.5	0.02	FR.MSI.038
1/2"	12.70	9.52	25.4	1.59	21.5	0.02	FR.MSI.050
3/4"	19.05	15.87	25.4	1.59	21.5	0.02	FR.MSI.075



PHARMACEUTICAL
FERRULES
SMS 3008 / 3017

Material	316L / 1.4404
Surface Finish	0.8 Ra(µm) / 32 Ra(µin)
Manufactured	3.1b Certified- Solid Bar

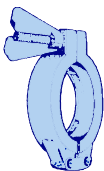


FERRULES - SMS 3008

Nominal Size Metric (Imperial)	Dimensions (mm)					Mass (kg)	Ordering Code
	OD ØA	ID ØB	Flange ØC	Wall WT	Length L		
18.0 (.75")	18.0	16.0	25.4	1.00	21.5	0.02	FR.SM8.0075
25.0 (1.0")	25.0	22.6	50.5	1.20	21.5	0.07	FR.SM8.0100
38.0 (1.5")	38.0	35.6	50.5	1.20	21.5	0.05	FR.SM8.0150
51.0 (2.0")	51.0	48.6	64.0	1.20	21.5	0.06	FR.SM8.0200
63.5 (2.5")	63.5	60.3	77.5	1.60	21.5	0.10	FR.SM8.0250
76.1 (3.0")	76.1	72.9	91.0	1.60	21.5	0.12	FR.SM8.0300
89.0 (3.5")	89.0	85.0	106.0	2.00	21.5	0.21	FR.SM8.0350
101.6 (4.0")	101.6	97.6	119.0	2.00	21.5	0.21	FR.SM8.0400

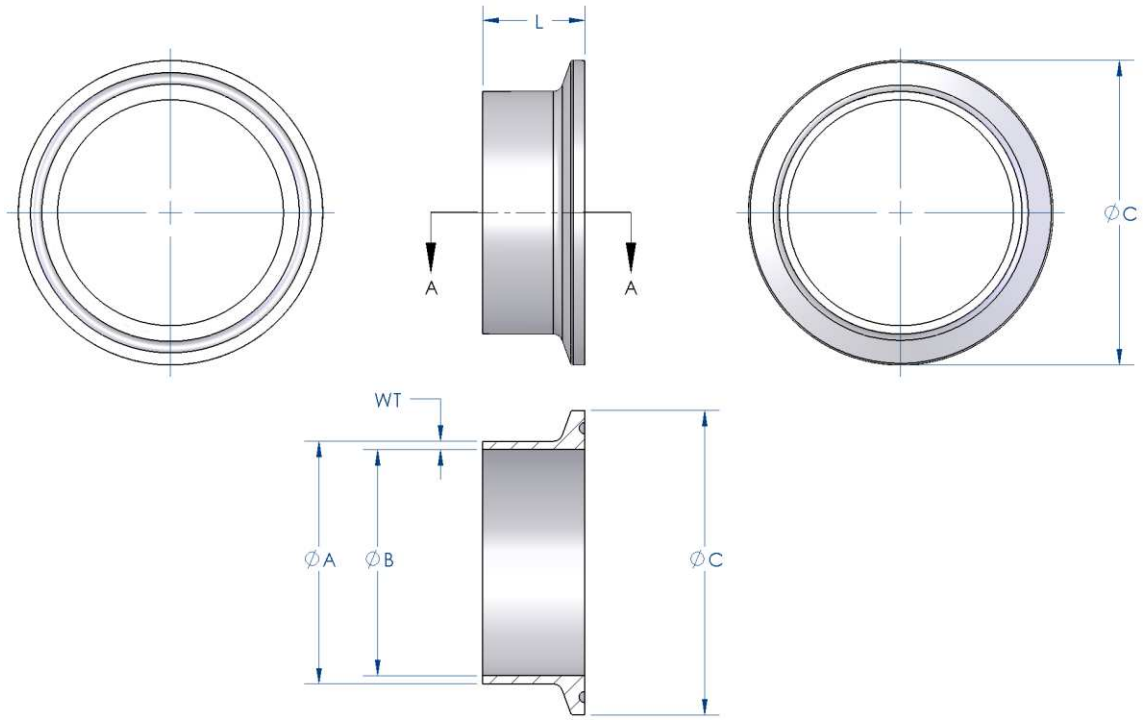
FERRULES - SMS 3017

Nominal Size Metric (Imperial)	Dimensions (mm)					Mass (kg)	Ordering Code
	OD ØA	ID ØB	Flange ØC	Wall WT	Length L		
25.0 (1.0")	25.6	22.6	50.5	1.50	21.5	0.08	FR.SM7.0100
33.7 (1.25")	33.7	30.7	50.5	1.50	21.5	0.05	FR.SM7.0125
38.0 (1.5")	38.6	35.6	50.5	1.50	21.5	0.05	FR.SM7.0150
51.0 (2.0")	51.6	48.6	64.0	1.50	21.5	0.08	FR.SM7.0200
63.5 (2.5")	64.1	60.3	77.5	1.90	21.5	0.10	FR.SM7.0250
76.1 (3.0")	76.7	72.9	91.0	1.90	21.5	0.13	FR.SM7.0300
88.9 (3.5")	89.8	84.9	106.0	2.45	21.5	0.18	FR.SM7.0350
101.6 (4.0")	102.5	97.6	119.0	2.45	21.5	0.21	FR.SM7.0400

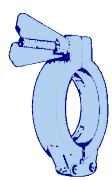


Material	316L / 1.4404
Surface Finish	0.8 Ra(µm) / 32 Ra(µin)
Manufactured	3.1b Certified- Solid Bar

PHARMACEUTICAL
FERRULES
SWG

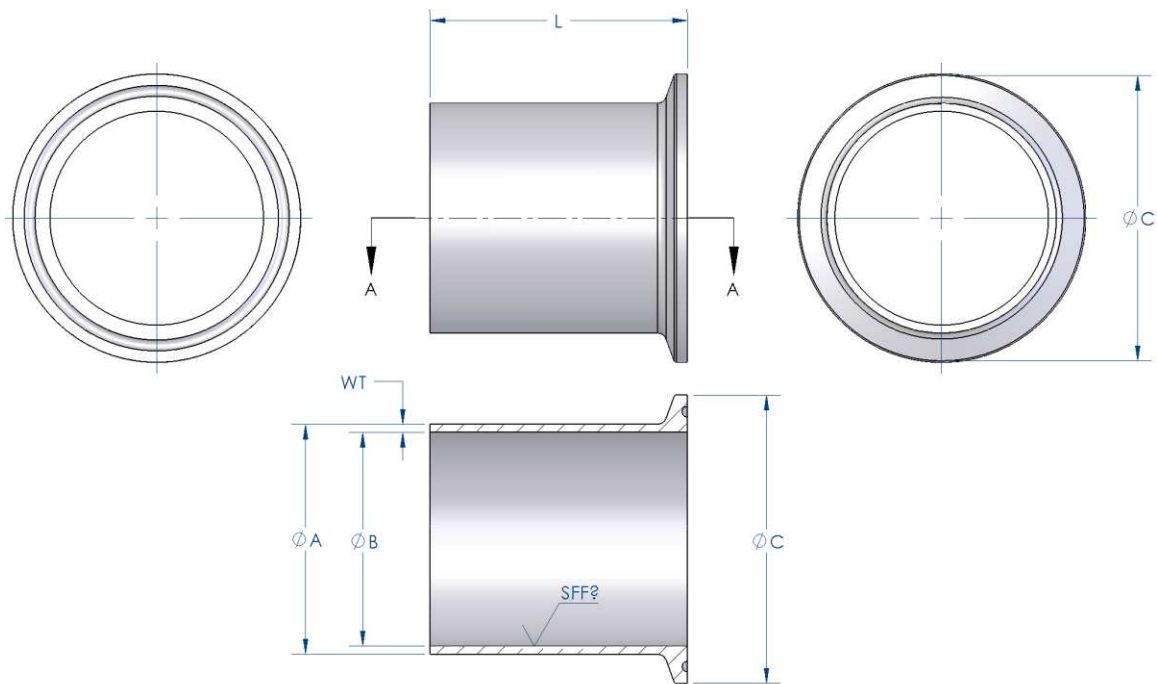


FERRULES - SWG							
Nominal Size Metric (Imperial)	Dimensions (mm)					Mass (kg)	Ordering Code
	OD ØA	ID ØB	Flange ØC	Wall WT	Length L		
25.4 (1.0")	25.4	22.1	50.5	1.65	21.5	0.07	FR.SW.0100
38.1 (1.5")	38.1	34.8	50.5	1.65	21.5	0.06	FR.SW.0150
51.0 (2.0")	50.8	47.5	64.0	1.65	21.5	0.08	FR.SW.0200
63.5 (2.5")	63.5	60.2	77.5	1.65	21.5	0.10	FR.SW.0250
76.1 (3.0")	76.2	72.9	91.0	1.65	21.5	0.13	FR.SW.0300
101.6 (4.0")	101.6	97.4	119.0	2.10	21.5	0.21	FR.SW.0400



PHARMACEUTICAL
FERRULES
ASME BPE

Material	316L Low Sulphur / 1.4435 LS
Surface Finish	SFF1 - SFF6
Manufactured	3.1b Certified- Solid Bar

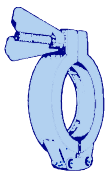


FERRULES - ASME BPE-a-2004									
Nominal Size Imperial	Dimensions (mm)						Mass (kg)	Ordering Code	Ordering Code
	OD ØA	ID ØB	Flange ØC	Wall WT	Length 'L'				
					Short	Long		Short Version	Long Version
1/4"	6.35	4.57	25.4	0.89	28.5	44.5	0.02	FR.BPE.0025.S	FR.BPE.0025.L
3/8"	9.52	7.74	25.4	0.89	28.5	44.5	0.02	FR.BPE.0038.S	FR.BPE.0038.L
1/2"	12.70	9.40	25.4	1.65	28.5	44.5	0.02	FR.BPE.0050.S	FR.BPE.0050.L
3/4"	19.05	15.75	25.4	1.65	28.5	44.5	0.02	FR.BPE.0075.S	FR.BPE.0075.L
1"	25.40	22.10	50.5	1.65	28.5	44.5	0.08	FR.BPE.0100.S	FR.BPE.0100.L
1 1/2"	38.10	34.80	50.5	1.65	28.5	44.5	0.08	FR.BPE.0150.S	FR.BPE.0150.L
2"	50.80	47.50	64.0	1.65	28.5	57.2	0.14	FR.BPE.0200.S	FR.BPE.0200.L
2 1/2"	63.50	60.20	77.5	1.65	28.5	57.2	0.21	FR.BPE.0250.S	FR.BPE.0250.L
3"	76.20	72.90	91.0	1.65	28.5	57.2	0.28	FR.BPE.0300.S	FR.BPE.0300.L
4"	101.60	97.38	119.0	2.11	28.5	57.2	0.42	FR.BPE.0400.S	FR.BPE.0400.L
6"	152.40	146.86	167.0	2.77	28.5	76.2	0.88	FR.BPE.0600.S	FR.BPE.0600.L

Internal Surface Finish	
Surface Finish Ra	Ordering Code
0.50	.SF1
0.63	.SF2
0.75	.SF3
0.38 E/Pol	.SF4
0.50 E/Pol	.SF5
0.63 E/Pol	.SF6

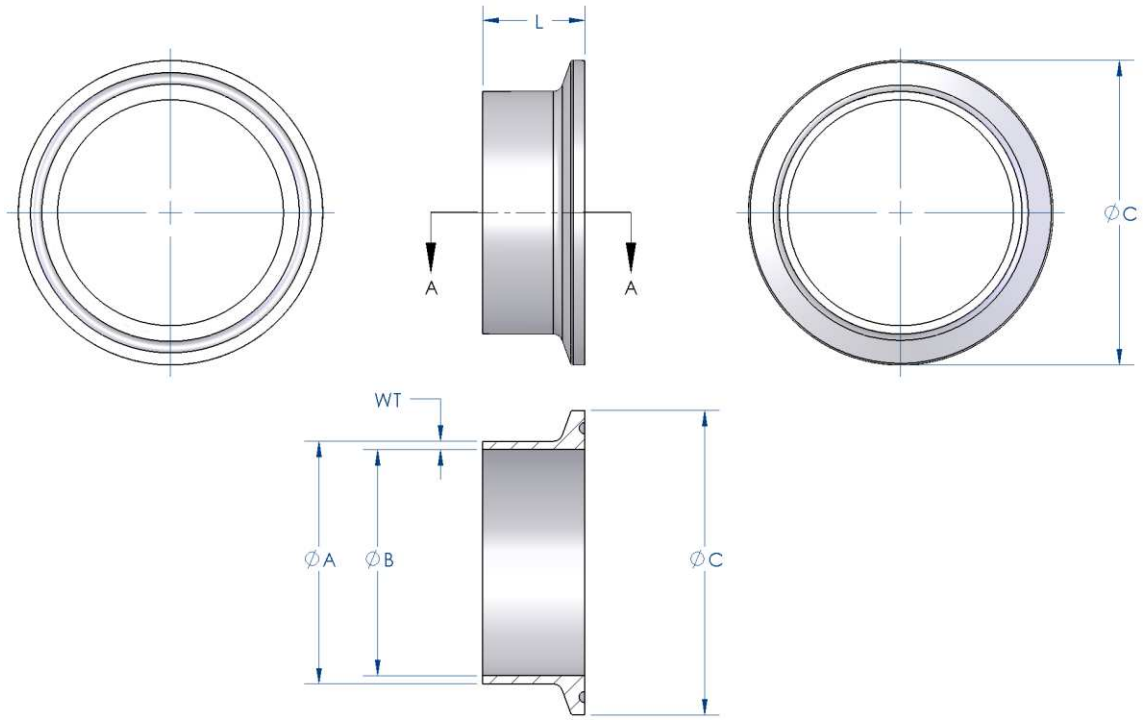
Ordering Code Example	
1" BPE Short Fer 0.63Ra - FR.BPE.S.0100.SF2	

BPE Ferrules are available in either short or long versions.
Please indicate you preferred length when ordering, using the codes shown above.



Material	316L / 1.4404
Surface Finish	0.8 Ra(µm) / 32 Ra(µin)
Manufactured	3.1b Certified- Solid Bar

**PHARMACEUTICAL
FERRULES
14 MPW TANK**



FERRULES - 14 MPW TANK						
Nominal Size Inch	Dimensions (mm)					Ordering Code
	OD ØA	ID ØB	Flange ØC	Wall WT	Length L	
1"	29.46	22.10	50.5	3.68	41.3	FR.MPW.0100
1 1/2"	42.57	34.80	50.5	3.89	41.3	FR.MPW.0150
2"	55.68	47.50	64.0	4.09	44.5	FR.MPW.0200
2 1/2"	68.78	60.20	63.5	4.29	44.5	FR.MPW.0250
3"	81.89	72.90	91.0	4.50	46.0	FR.MPW.0300
4"	108.10	97.38	119.0	5.36	54.0	FR.MPW.0400
6"	157.28	146.25	167.0	5.52	63.5	FR.MPW.0600
8"	208.08	197.05	217.4	5.52	63.5	FR.MPW.0800

The above table shows the full range of 14 MPW tank ferrules as given in the exacting standard. standard 14 MPW tank ferrule adaptations in varying lengths and internal surface finishes to suit individual customer requirements. Please contact our sales department if the ferrule you require cannot be found in our brochure.

