

Vacuum Component



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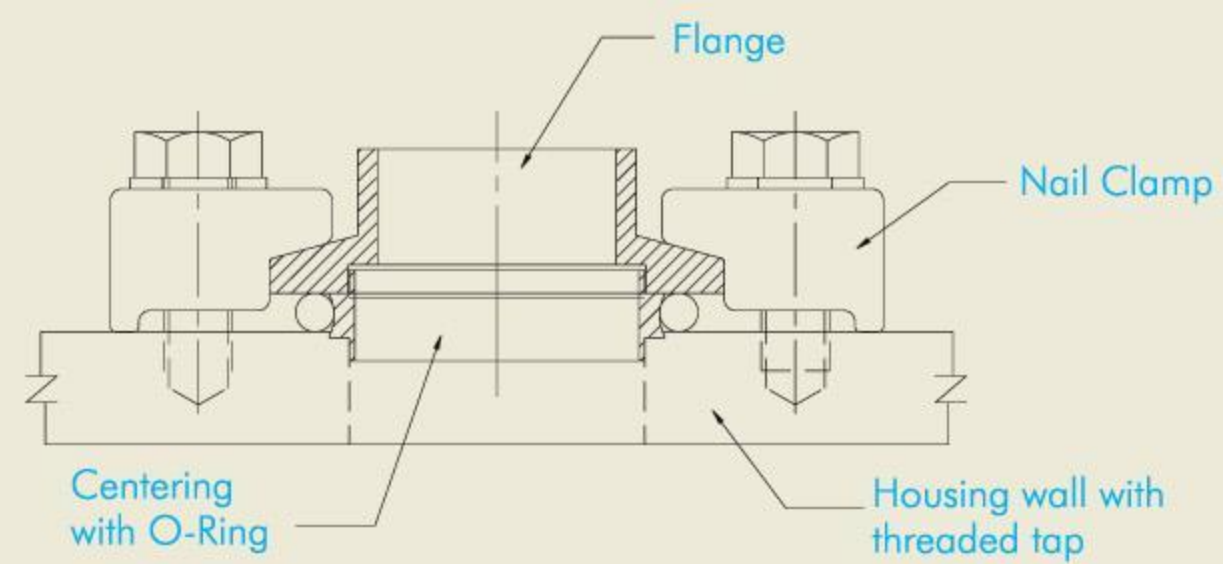
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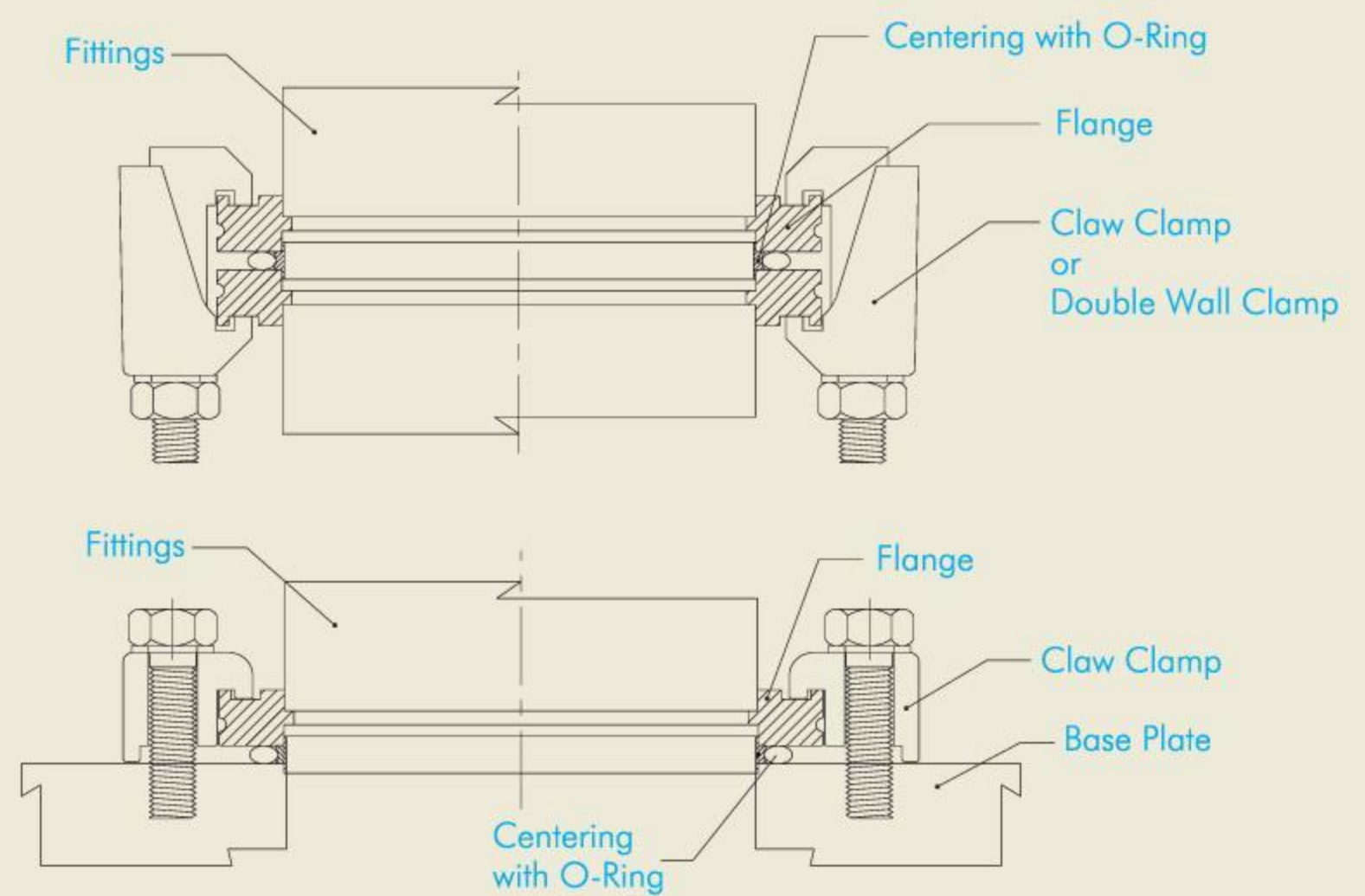
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- ② ISO-FLANGE SERIES
- ③ CF-FLANGE SERIES
- ④ CLAMP
- ⑤ CENTERING
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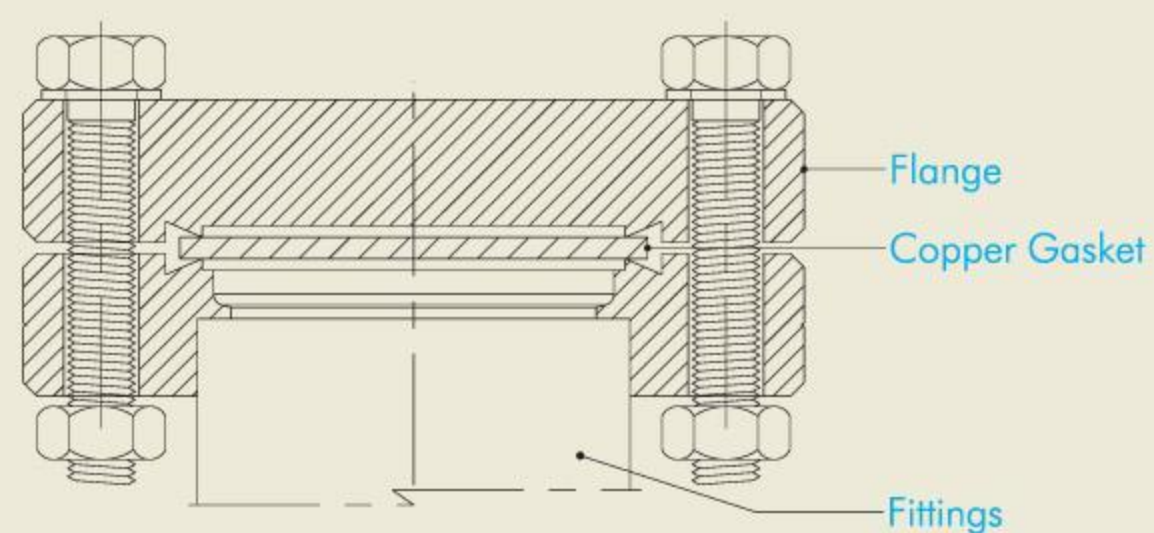
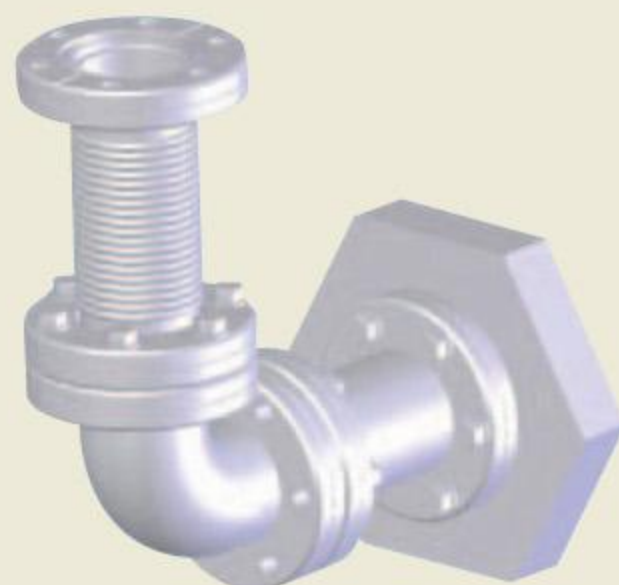
NW-Flange Components



ISO-Flange Components

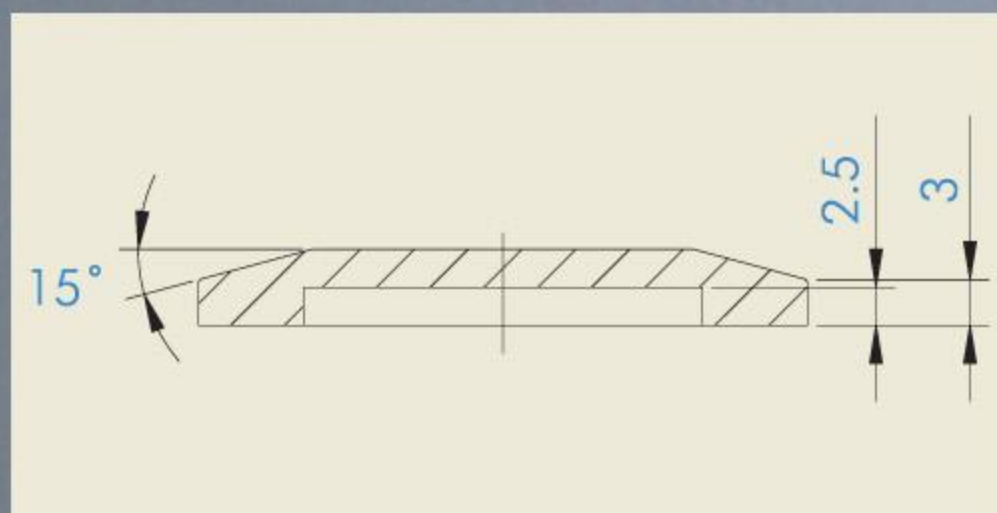


CF-Flange Components

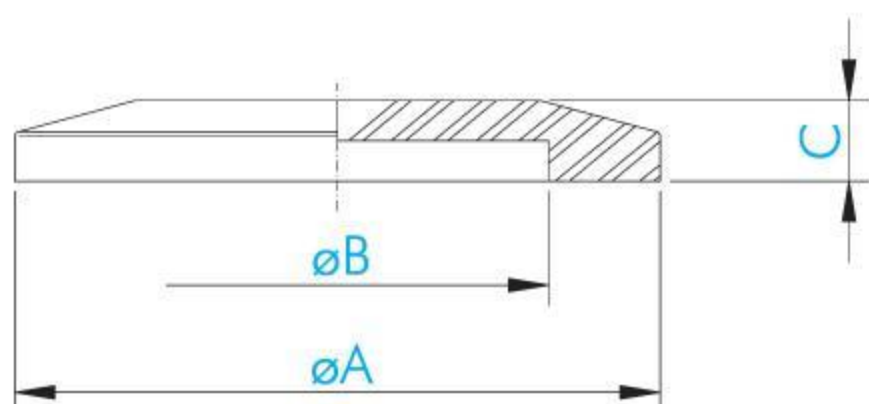


NW-FLANGE SERIES

1-1



NW-Blank

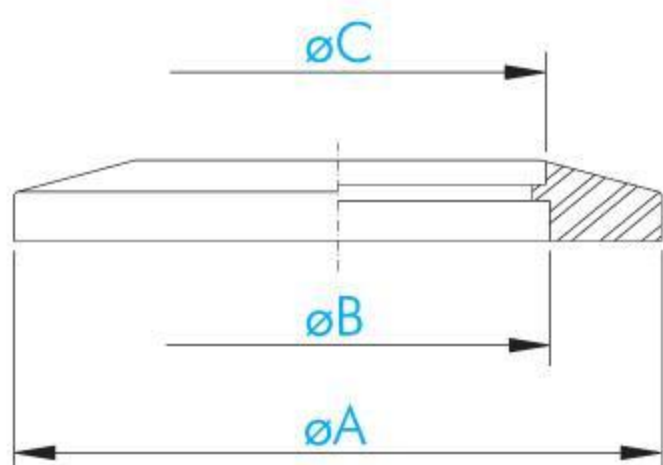


● Body

Stainless Steel or Aluminum (Special Order)

Model No.	A	B	C
NW10-BYS	30	12.2	5
NW16-BYS	30	17.2	5
NW25-BYS	40	26.2	5
NW40-BYS	55	41.2	5
NW50-BYS	75	52.2	5
NW63-BYS	87	70	12
NW80-BYS	114	83	12
NW100-BYS	134	102	12
NW160-BYS	190	153	12

NW-Bored Blank

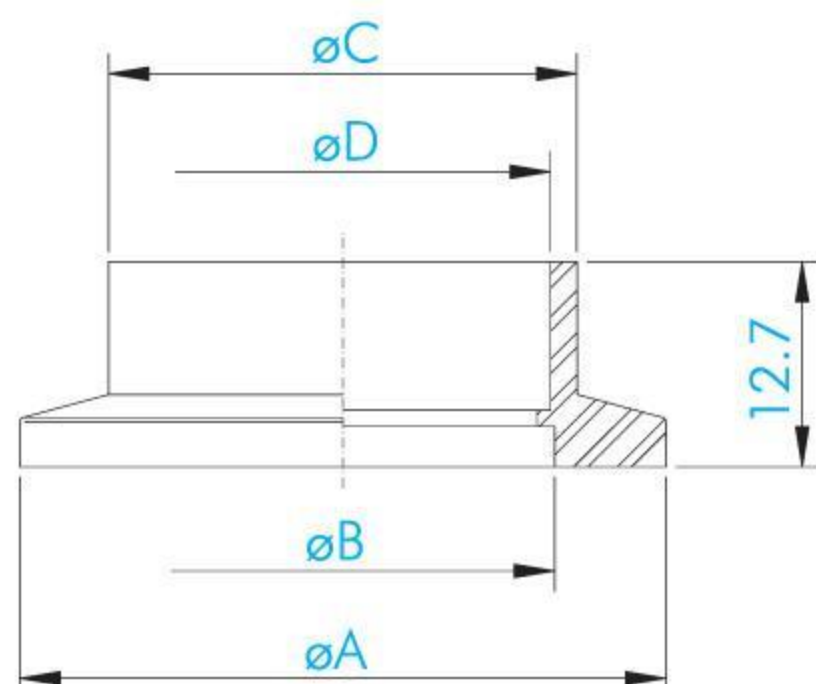


● Body

Stainless Steel

Model No.	A	B	C
NW10-DYS	30	12.2	12.9
NW16-DYS	30	17.2	19.3
NW25-DYS	40	26.2	25.7
NW40-DYS	55	41.2	38.4
NW50-DYS	75	52.2	51
NW63-DYS	87	70	63.7
NW80-DYS	114	83	76.4
NW100-DYS	134	102	101.8
NW160-DYS	190	153	152.9

NW-Socket Weld Flange

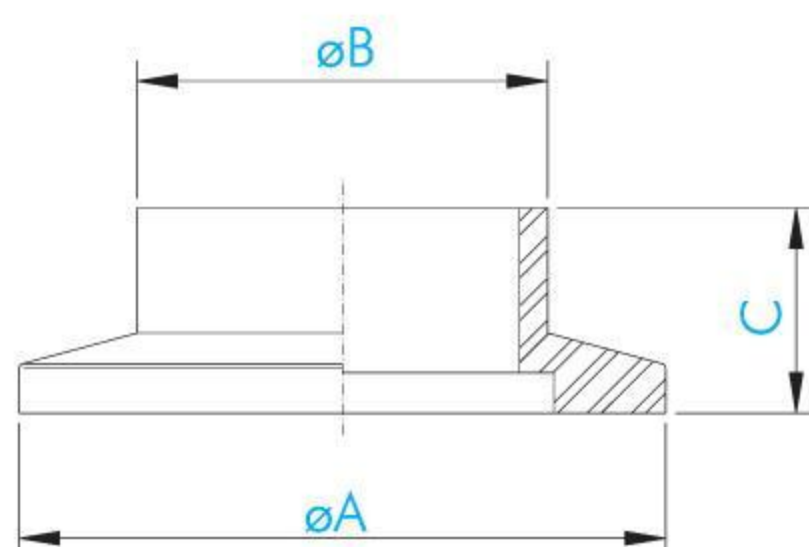


● **Body**
Stainless Steel

Model No.	A	B	C	D
NW10-FYS	30	12.2	16.5	13
NW16-FYS	30	17.2	20.5	19.3
NW25-FYS	40	26.2	29	25.7
NW40-FYS	55	41.2	44.7	38.4
NW50-FYS	75	52.2	57.4	51
NW63-FYS	87	70	67.5	63.7

1-2

NW-Half Nipple



● **Body**
Stainless Steel

(Short)

Model No.	A	B	C
NW10-NSS	30	12.7	12.7
NW16-NSS	30	19.05	12.7
NW25-NSS	40	25.4	12.7
NW40-NSS	55	38.1	19.1
NW50-NSS	75	50.8	19.1

(Long)

Model No.	C
NW10-NLS	40
NW16-NLS	40
NW25-NLS	40
NW40-NLS	40
NW50-NLS	40

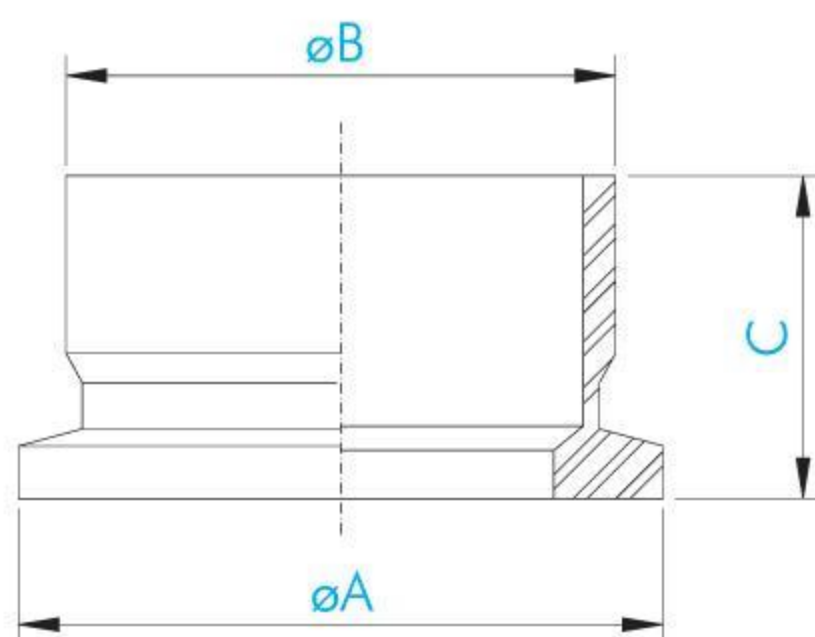
(Short Japanese Type)

Model No.	A	B	C
NW25-NSS-J	40	27.2	20
NW40-NSS-J	55	42.7	20
NW50-NSS-J	75	60.5	20

(Long Japanese Type)

Model No.	C
NW25-NLS-J	40
NW40-NLS-J	40
NW50-NLS-J	40

NW-Half Nipple



● **Body**
Stainless Steel

(Short Japanese Type)

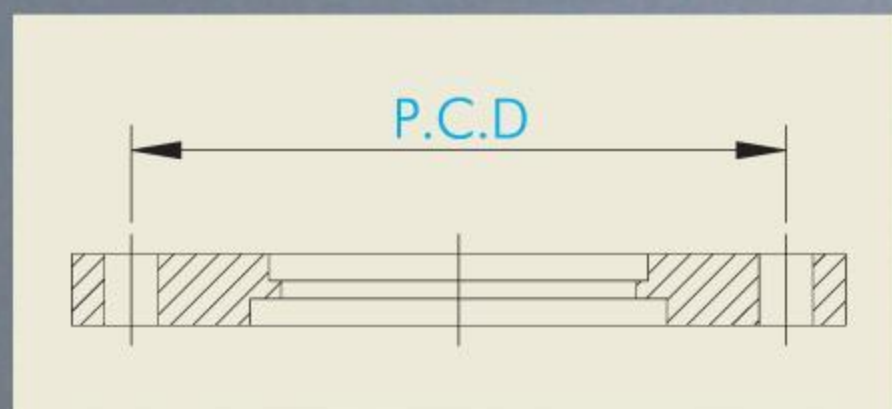
Model No.	A	B	C
NW25-HSS-J	40	34	20
NW40-HSS-J	55	48.6	20

(Long Japanese Type)

Model No.	A	B	C
NW25-HLS-J	40	34	40
NW40-HLS-J	55	48.6	40

ISO-FLANGE SERIES

2-1

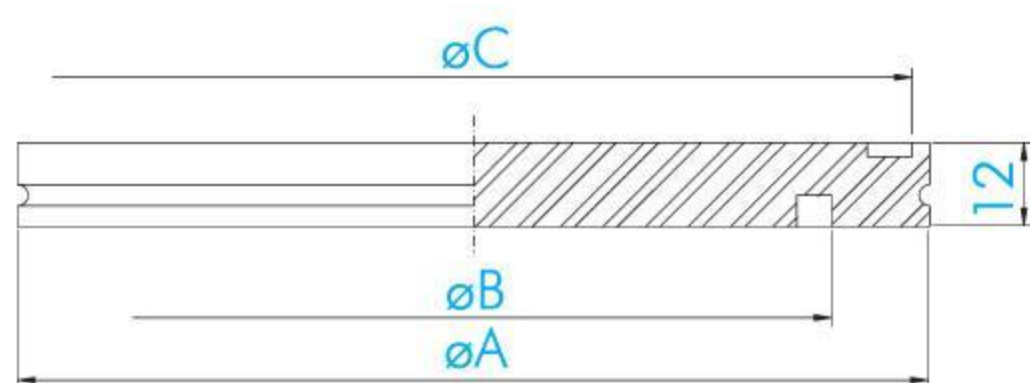


Specifications

Model No.	P.C.D
IS063	110
IS080	125
IS0100	145
IS0160	200
IS0200	260
IS0250	310



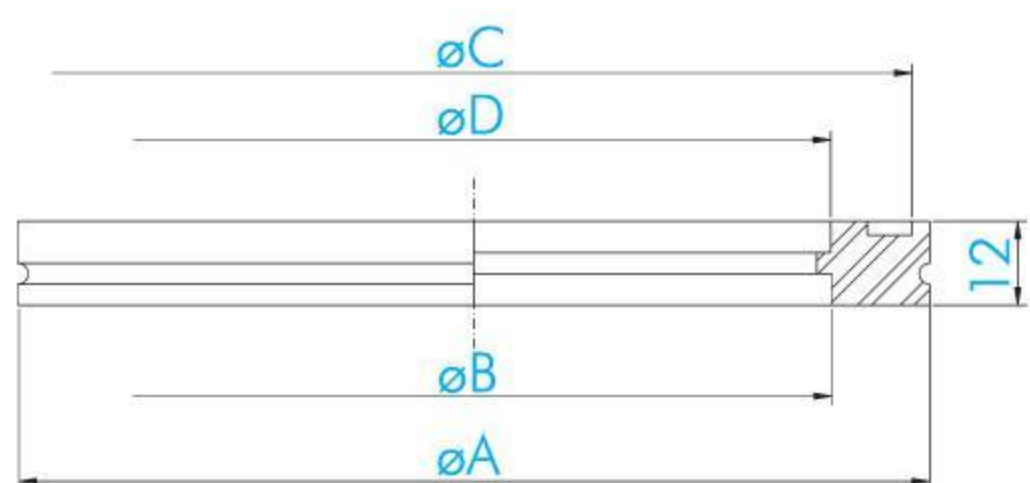
ISO-Blank



● Body Stainless Steel

Model No.	A	B	C
IS063-BYS	95	70	90
IS080-BYS	110	83	105
IS0100-BYS	130	102	125
IS0160-BYS	180	153	175
IS0200-BYS	240	213	235
IS0250-BYS	290	261	285

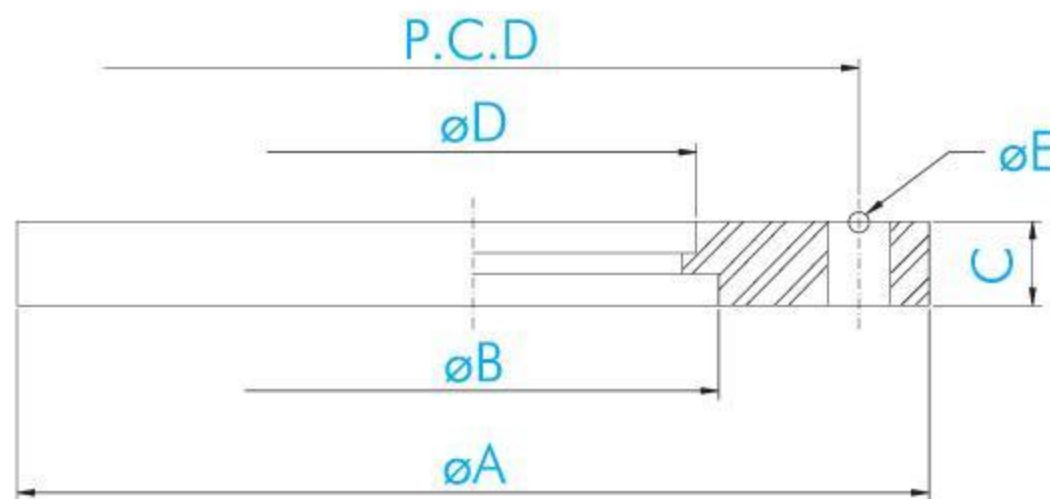
ISO-Bored Blank



● Body Stainless Steel

Model No.	A	B	C	D
IS063-DYS	95	70	90	63.7
IS080-DYS	110	83	105	76.4
IS0100-DYS	130	102	125	101.8
IS0160-DYS	180	153	175	152.9
IS0200-DYS	240	213	235	203.7
IS0250-DYS	290	261	285	254.5

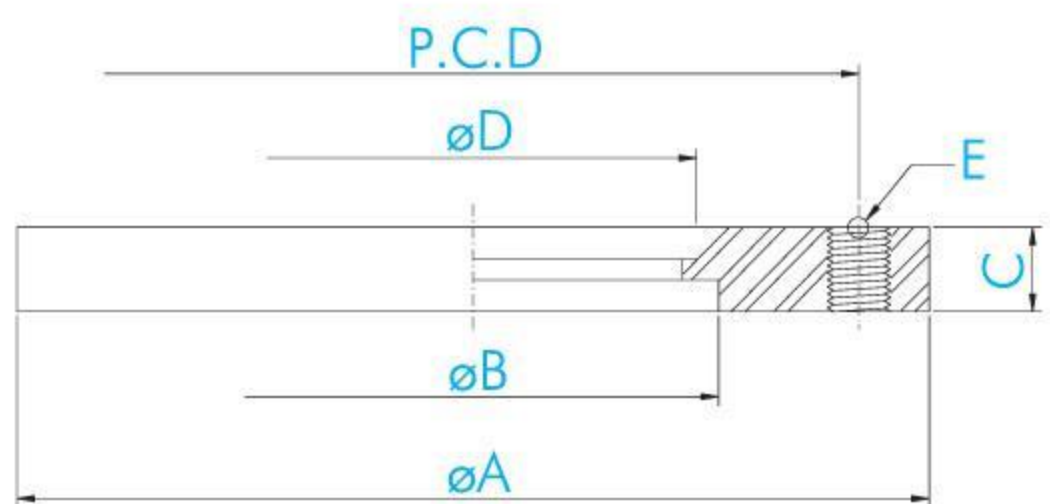
ISO-Bolted Flange



● Body Stainless Steel

Model No.	A	B	C	D	E
IS063-FYS	130	70	12	63.7	9x4
IS080-FYS	145	83	12	76.4	9x8
IS0100-FYS	165	102	12	101.8	9x8
IS0160-FYS	225	153	16	152.9	11x8
IS0200-FYS	285	213	16	203.7	11x12
IS0250-FYS	335	261	16	254.5	11x12

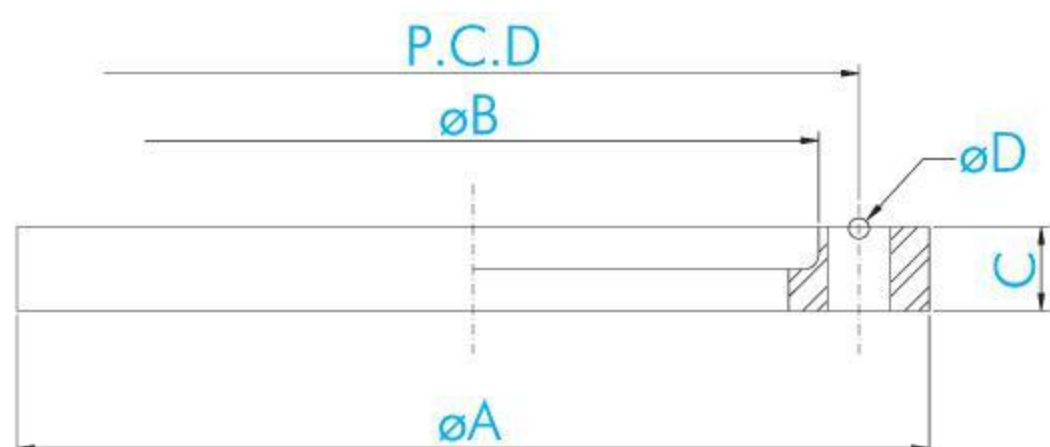
ISO-Bolted Flange-Tapped



● Body Stainless Steel

Model No.	A	B	C	D	E
IS063-FTS	130	70	12	63.7	M8x4
IS080-FTS	145	83	12	76.4	M8x8
IS0100-FTS	165	102	12	101.8	M8x8
IS0160-FTS	225	153	16	152.9	M10x8
IS0200-FTS	285	213	16	203.7	M10x12
IS0250-FTS	335	261	16	254.5	M10x12

ISO-Rotatable Bolt Ring



● Body Stainless Steel

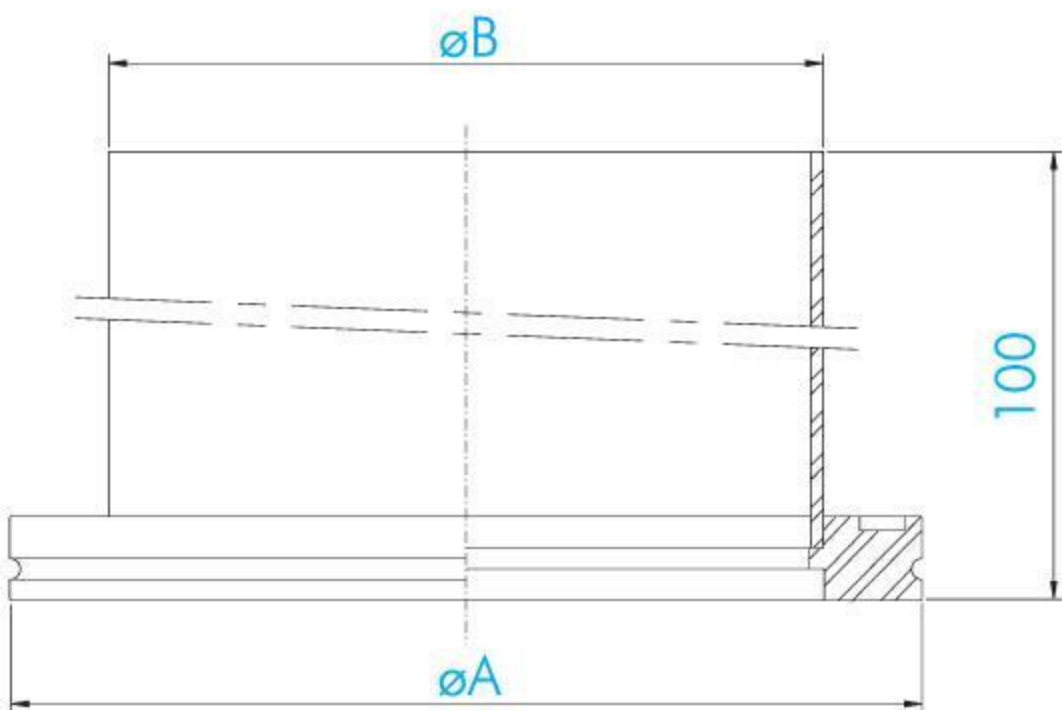
Model No.	A	B	C	D
IS063-FRS	130	98.5	12	9x4
IS080-FRS	145	113.5	12	9x8
IS0100-FRS	165	133.5	12	9x8
IS0160-FRS	225	185.7	16	11x8
IS0200-FRS	285	245.7	16	11x12
IS0250-FRS	335	295.7	16	11x12

ISO-FLANGE SERIES

2-3



ISO-Half Nipple

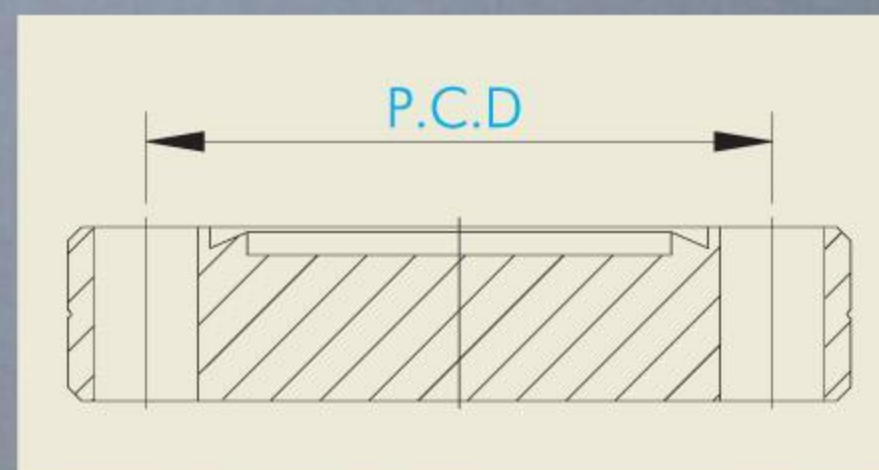


● **Body**
Stainless Steel

Model No.	A	B
IS063-NYS	95	63.5
IS080-NYS	110	76.2
IS0100-NYS	130	101.6
IS0160-NYS	180	152.4
IS0200-NYS	240	203.2
IS0250-NYS	290	254

CF-FLANGE SERIES

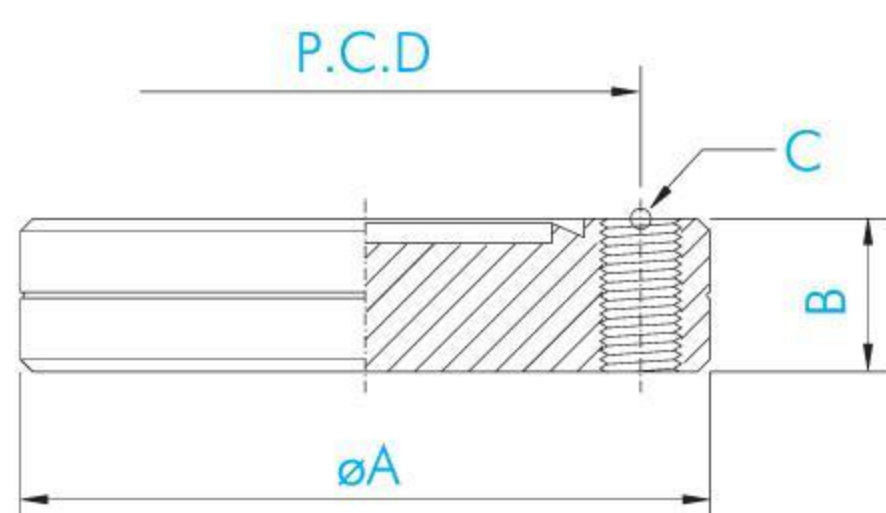
3-1



Specifications

Model No.	P.C.D
CF16	26.9
CF35	58.7
CF63	92.1
CF100	130.3
CF150	181
CF200	231.8

CF-Blank



- **Body**

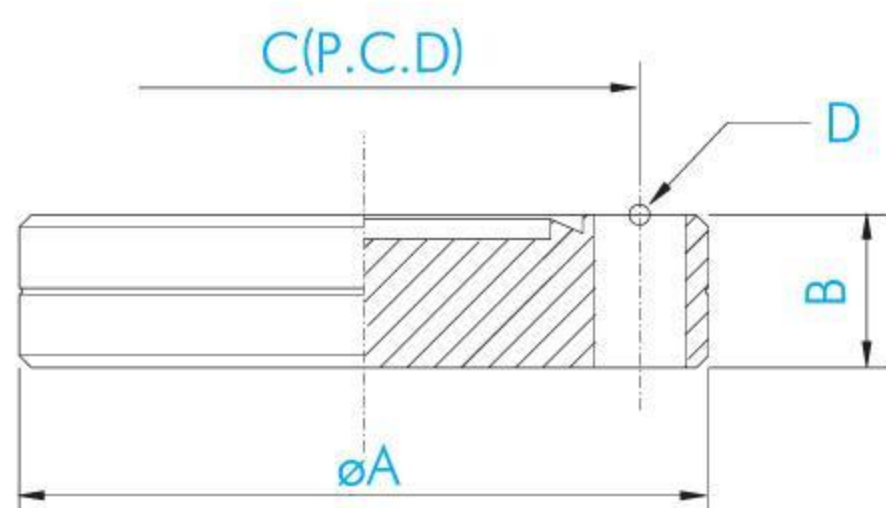
Stainless Steel

- **Type**

Nonrotatable-Tapped Bolt Holes

Model No.	A	B	C
CF16-BTS	33.8	7.5	M4x6
CF35-BTS	69.5	12.7	M6x6
CF63-BTS	113.6	18	M8x8
CF100-BTS	151.6	20	M8x16
CF150-BTS	202.5	22	M8x20
CF200-BTS	253.2	24.7	M8x24

CF-Blank



- **Body**

Stainless Steel

- **Type**

Nonrotatable

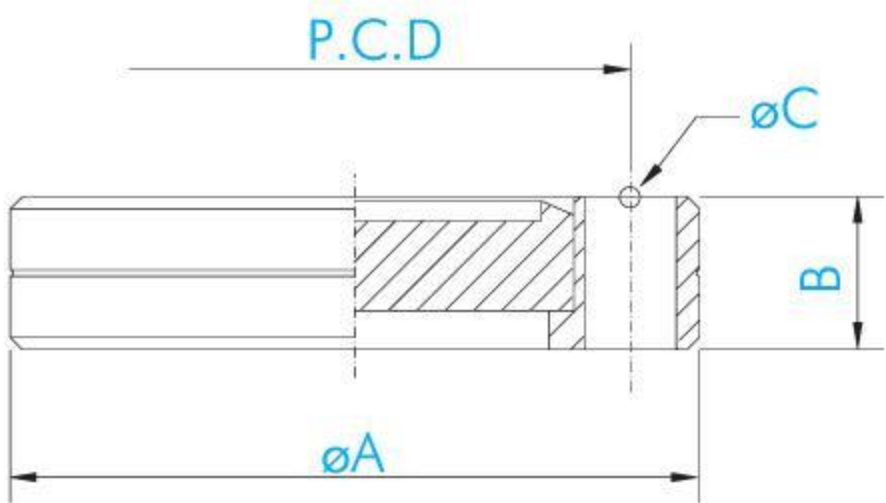
Model No.	A	B	C
CF16-BYS	33.8	7.5	4.4x6
CF35-BYS	69.5	12.7	6.7x6
CF63-BYS	113.6	18	8.4x8
CF100-BYS	151.6	20	8.4x16
CF150-BYS	202.5	22	8.4x20
CF200-BYS	253.2	24.7	8.4x24

CF-FLANGE SERIES

3-2



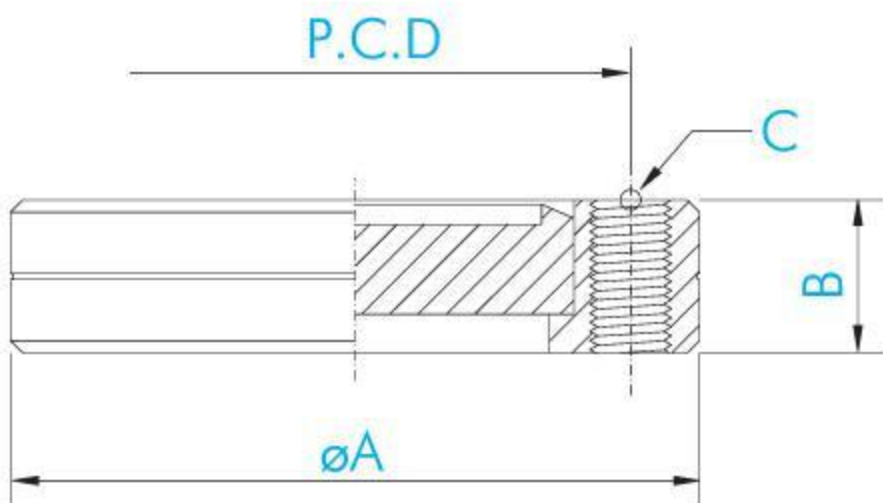
CF-Blank



- **Body**
Stainless Steel
- **Type**
Rotatable

Model No.	A	B	C
CF16-BRS	33.8	7.5	4.4x6
CF35-BRS	69.5	12.7	6.7x6
CF63-BRS	113.6	19	8.4x8
CF100-BRS	151.6	21.5	8.4x16
CF150-BRS	202.5	24	8.4x20
CF200-BRS	253.2	24.7	8.4x24

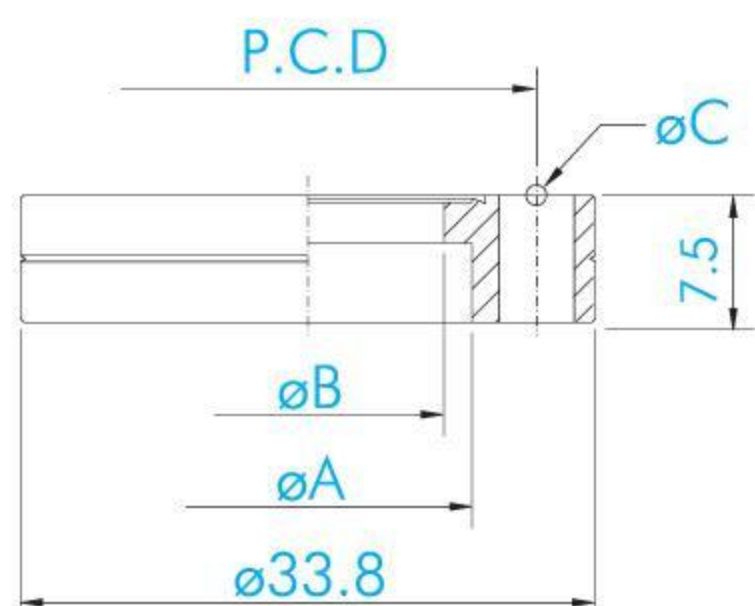
CF-Blank



- **Body**
Stainless Steel
- **Type**
Rotatable-Tapped Bolt Holes

Model No.	A	B	C
CF16-BHS	33.8	7.5	M4x6
CF35-BHS	69.5	12.7	M6x6
CF63-BHS	113.6	19	M8x8
CF100-BHS	151.6	21.5	M8x16
CF150-BHS	202.5	24	M8x20
CF200-BHS	253.2	24.7	M8x24

CF-Bored Blank (CF16)

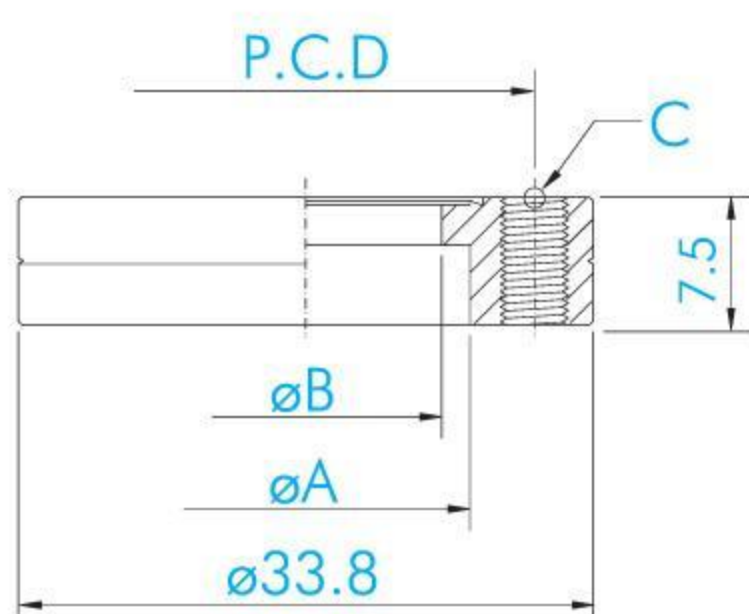


- **Body**
Stainless Steel

- **Type**
Nonrotatable

Model No.	A	B	C
CF16-7DYS	6.5	5.5	4.4x6
CF16-12DYS	12.9	10.4	4.4x6
CF16-19DYS	19.3	16	4.4x6

CF-Bored Blank (CF16)

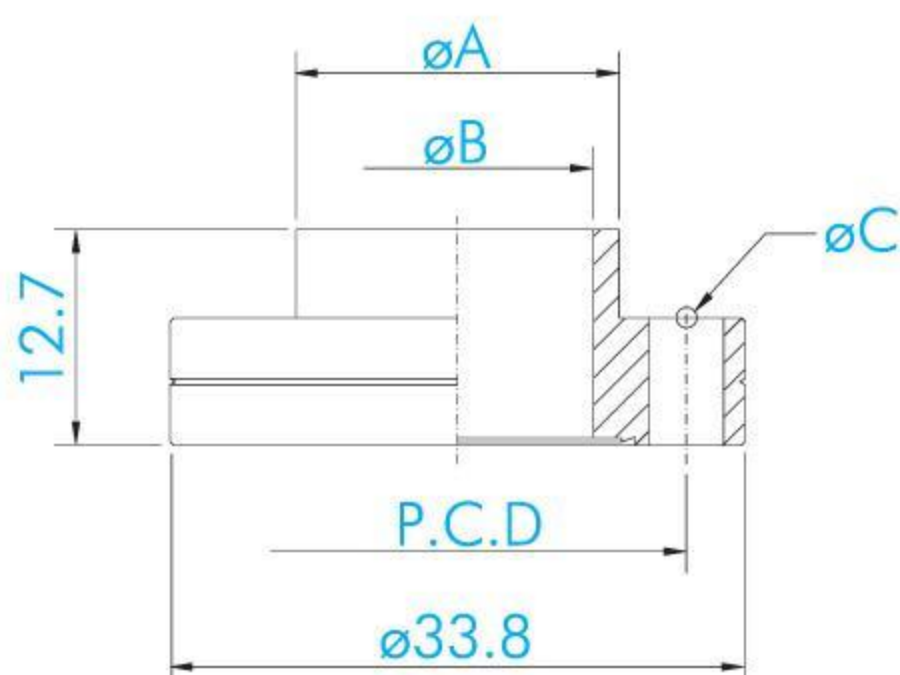


- **Body**
Stainless Steel

- **Type**
Nonrotatable-Tapped Bolt Holes

Model No.	A	B	C
CF16-7DTS	6.5	5.5	M4x6
CF16-12DTS	12.9	10.4	M4x6
CF16-19DTS	19.3	16	M4x6

CF-Bored Blank-Neck (CF16)



- **Body**
Stainless Steel

- **Type**
Nonrotatable

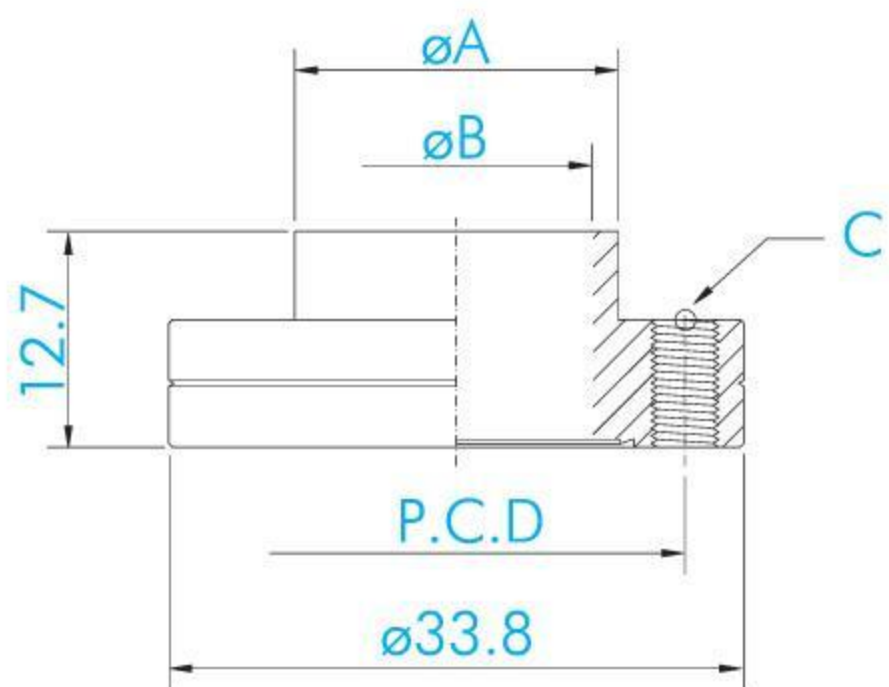
Model No.	A	B	C
CF16-7NYS	6.35	4.5	4.4x6
CF16-12NYS	12.7	9.5	4.4x6
CF16-19NYS	19.05	16	4.4x6

CF-FLANGE SERIES

3-4



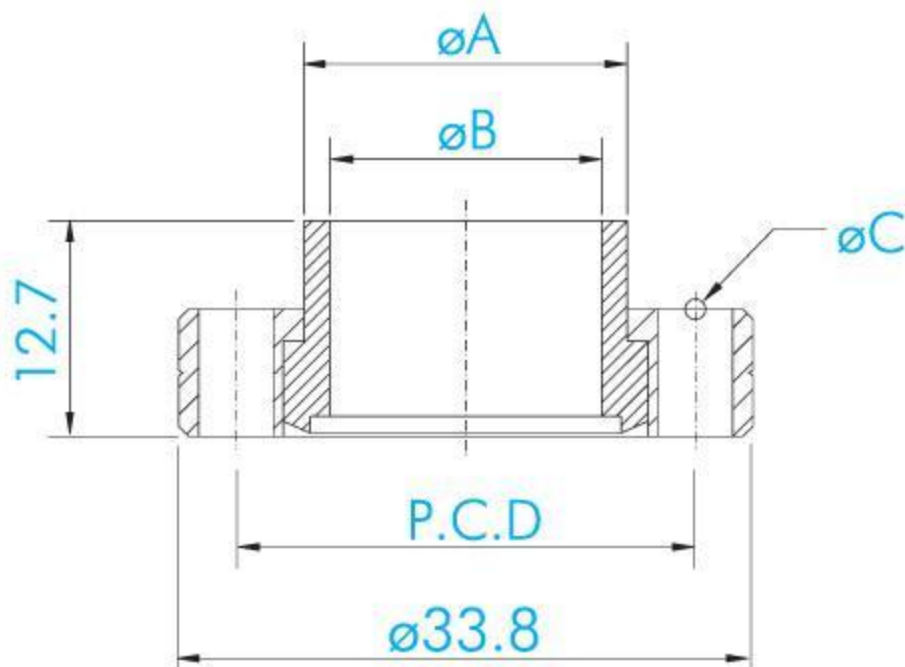
CF-Bored Blank-Neck (CF16)



- **Body**
Stainless Steel
- **Type**
Nonrotatable-Tapped Bolt Holes

Model No.	A	B	C
CF16-7NTS	6.35	4.5	M4x6
CF16-12NTS	12.7	9.5	M4x6
CF16-19NTS	19.05	6	M4x6

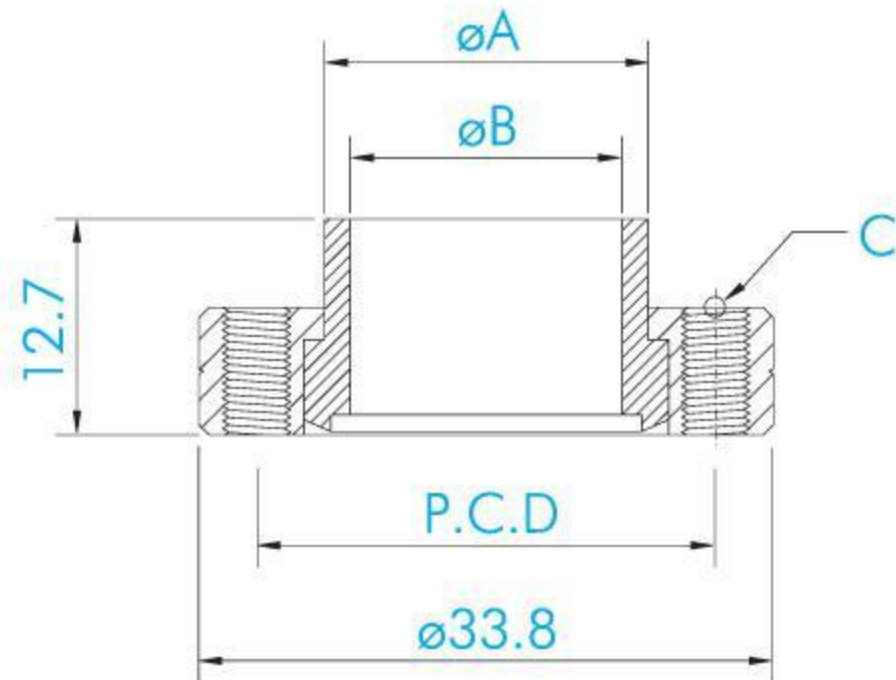
CF-Bored Blank-Neck (CR16)



- **Body**
Stainless Steel
- **Type**
Rotatable

Model No.	A	B	C
CF16-7NRS	6.35	4.5	4.4x6
CF16-12NRS	12.7	9.5	4.4x6
CF16-19NRS	19.05	16	4.4x6

CF-Bored Blank-Neck (CR16)



- **Body**

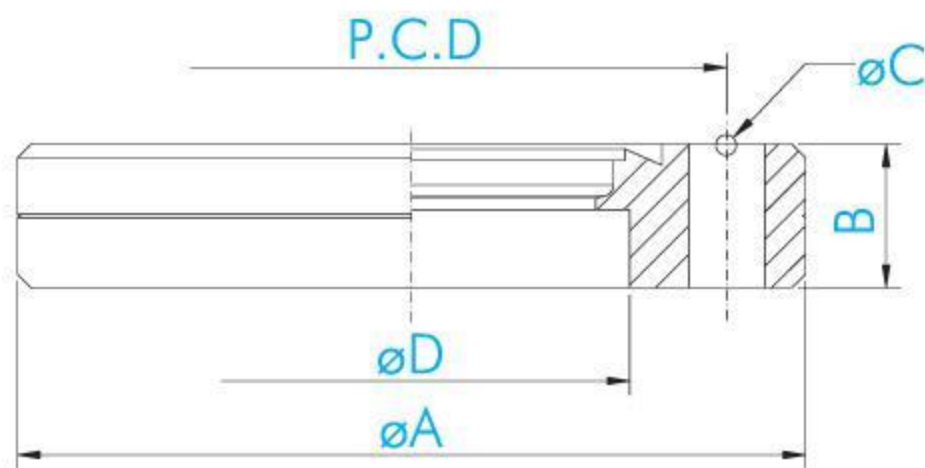
Stainless Steel

- **Type**

Rotatable-Tapped Bolt Holes

Model No.	A	B	C
CF16-7NHS	6.35	4.5	M4x6
CF16-12NHS	12.7	9.5	M4x6
CF16-19NHS	19.05	6	M4x6

CF-Bored Blank



- **Body**

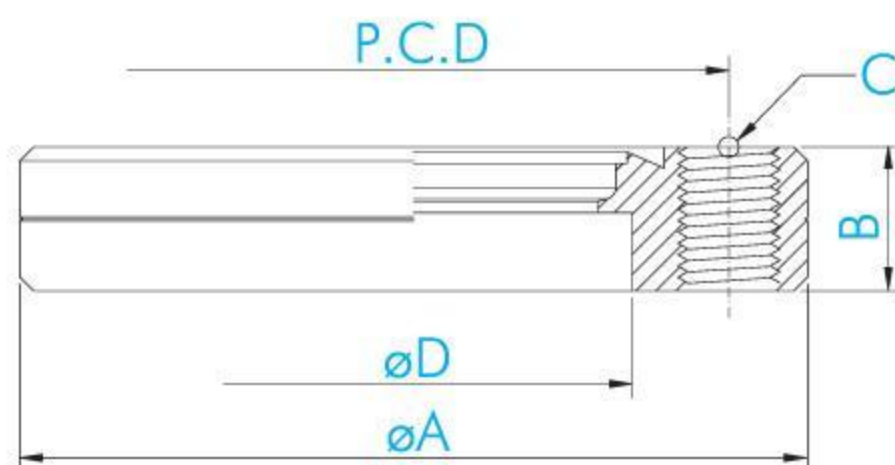
Stainless Steel

- **Type**

Nonrotatable

Model No.	A	B	C	D
CF35-25DYS	69.5	12.7	6.7x6	25.6
CF35-38DYS	69.5	12.7	6.7x6	38.3
CF35-42DYS	69.5	12.7	6.7x6	42.9
CF63-51DYS	113.6	18	8.4x8	51.1
CF63-63DYS	113.6	18	8.4x8	63.7
CF100-102DYS	151.6	20	8.4x16	101.8
CF150-153DYS	202.5	22	8.4x20	153.1
CF200-204DYS	253.2	24.7	8.4x24	203.7

CF-Bored Blank



- **Body**

Stainless Steel

- **Type**

Nonrotatable-Tapped Bolt Holes

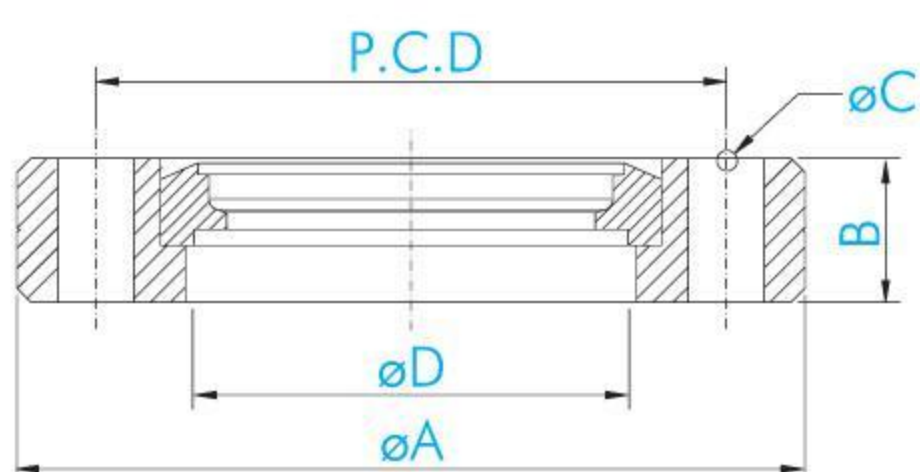
Model No.	A	B	C	D
CF35-25DTS	69.5	12.7	M6x6	25.6
CF35-38DTS	69.5	12.7	M6x6	38.3
CF35-42DTS	69.5	12.7	M6x6	42.9
CF63-51DTS	113.6	18	M8x8	51.1
CF63-63DTS	113.6	18	M8x8	63.7
CF100-102DTS	151.6	20	M8x16	101.8
CF150-153DTS	202.5	22	M8x20	153.1
CF200-204DTS	253.2	24.7	M8x24	203.7

CF-FLANGE SERIES

3-6



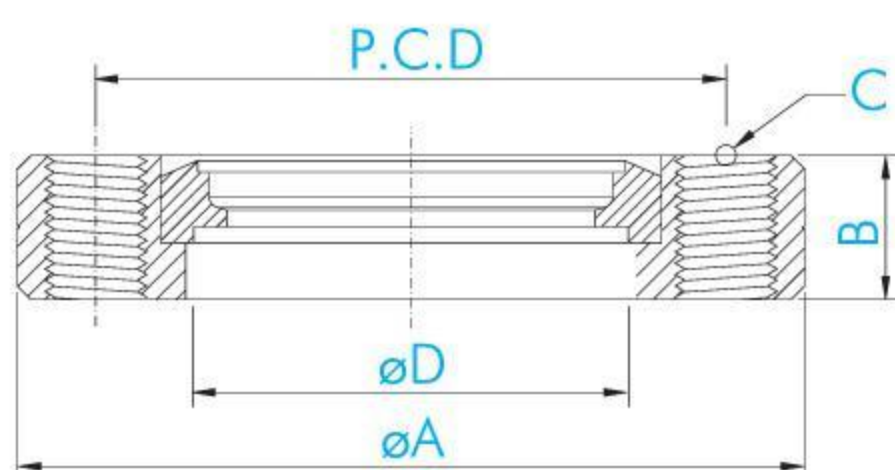
CF-Bored Blank



- **Body**
Stainless Steel
- **Type**
Rotatable

Model No.	A	B	C	D
CF35-25DRS	69.5	12.7	6.7x6	25.6
CF35-38DRS	69.5	12.7	6.7x6	38.3
CF35-42DRS	69.5	12.7	6.7x6	42.9
CF63-51DRS	113.6	19	8.4x8	51.1
CF63-63DRS	113.6	19	8.4x8	63.7
CF100-102DRS	151.6	21.5	8.4x16	101.8
CF150-153DRS	202.5	24	8.4x20	153.1
CF200-204DRS	253.2	24.7	8.4x24	203.7

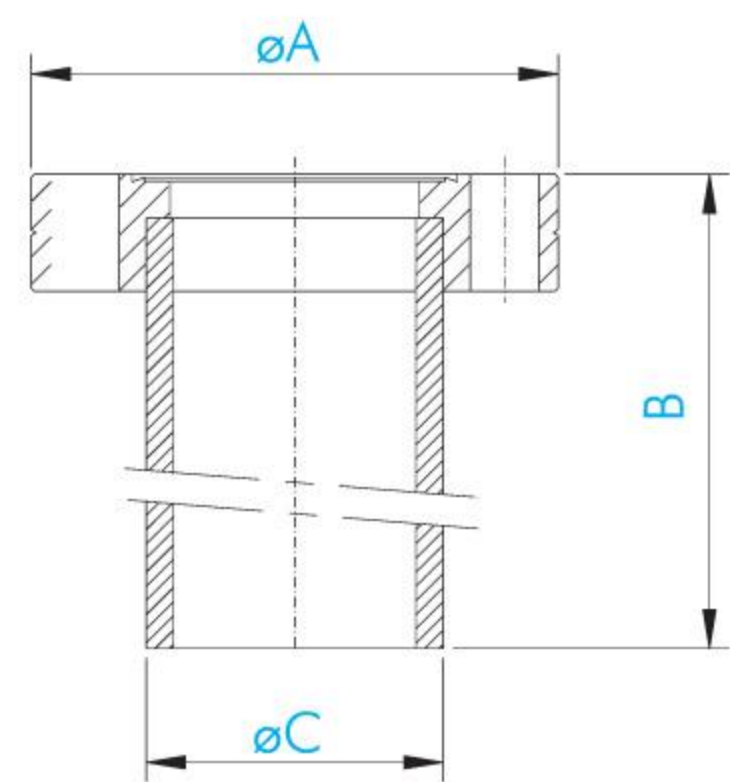
CF-Bored Blank



- **Body**
Stainless Steel
- **Type**
Rotatable-Tapped Bolt Holes

Model No.	A	B	C	D
CF35-25DHS	69.5	12.7	M6x6	25.6
CF35-38DHS	69.5	12.7	M6x6	38.3
CF35-42DHS	69.5	12.7	M6x6	42.9
CF63-51DHS	113.6	19	M8x8	51.1
CF63-63DHS	113.6	19	M8x8	63.7
CF100-102DHS	151.6	21.5	M8x16	101.8
CF150-153DHS	202.5	24	M8x20	153.1
CF200-204DHS	253.2	24.7	M8x24	203.7

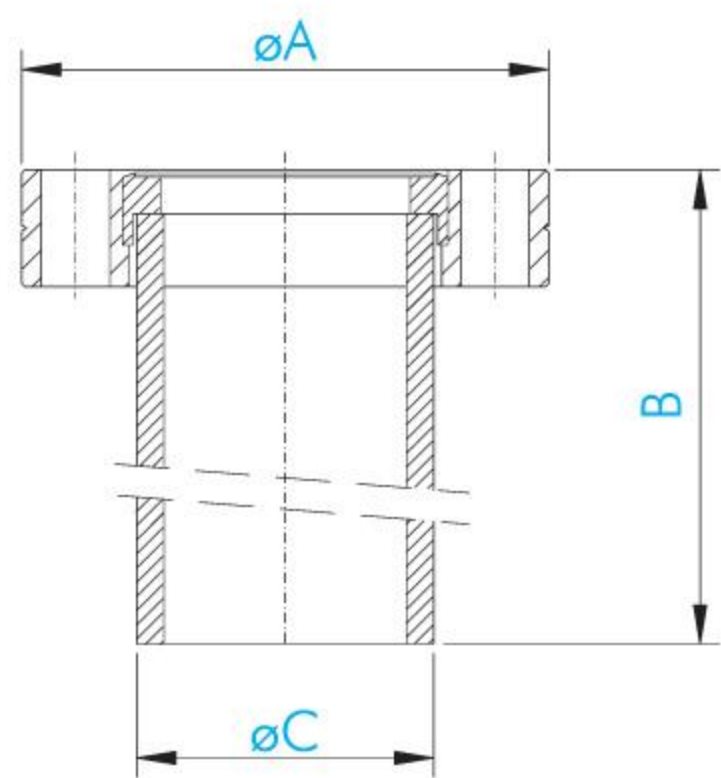
CF-Half Nipple



- **Body**
Stainless Steel
- **Type**
Nonrotatable

Model No.	A	B	C
CF16-HYS	33.8	38	19.05
CF35-HYS	69.5	63	38.1
CF63-HYS	113.6	105	63.5
CF100-HYS	151.6	135	101.6
CF150-HYS	202.5	167	152.4
CF200-HYS	253.2	167	203.2

CF-Half Nipple



- **Body**
Stainless Steel
- **Type**
Rotatable

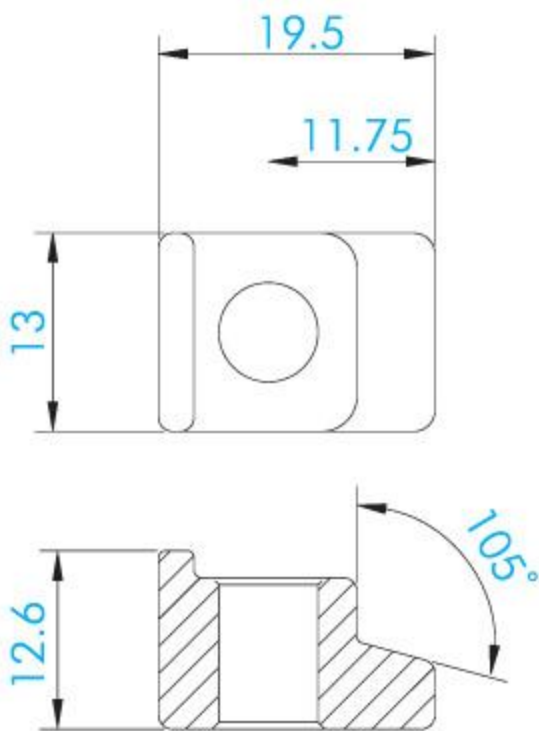
Model No.	A	B	C
CF16-HRS	33.8	38	19.05
CF35-HRS	69.5	63	38.1
CF63-HRS	113.6	105	63.5
CF100-HRS	151.6	135	101.6
CF150-HRS	202.5	167	152.4
CF200-HRS	253.2	167	203.2

CLAMP

4-1



NW-Nail Clamp

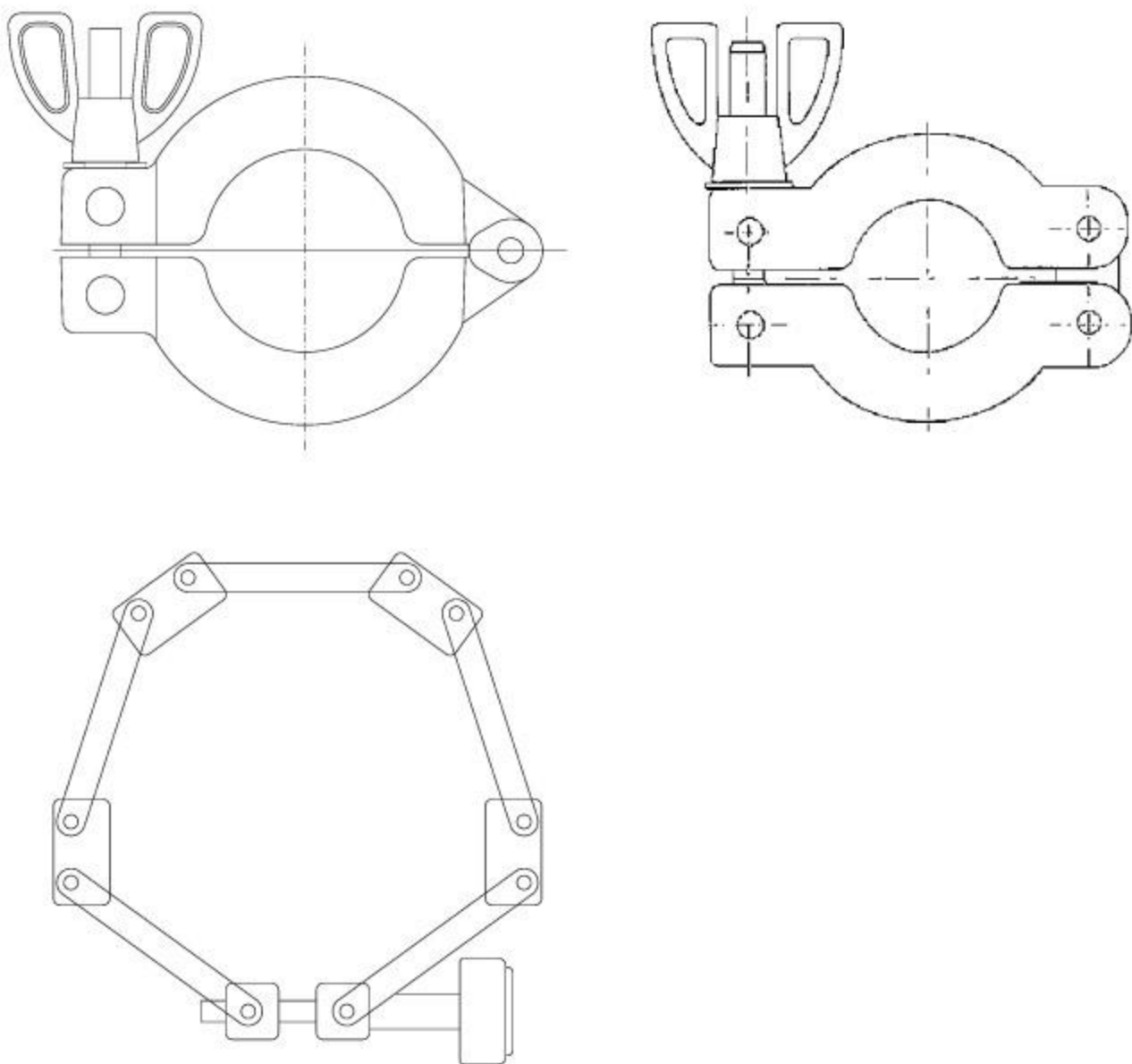


- **Body**
Aluminum
- **Bolt**
Stainless steel (M6x20)
- **Washer**
Stainless steel

Model No.	Fit Flange
NW-CNA	NW10-50

Set of 4 pcs.

NW-Clamp / KF-Clamp / NW-Clamp Chains



- **Body**
Aluminum(Excluding Pb)

NW-Clamp / KF-Clamp

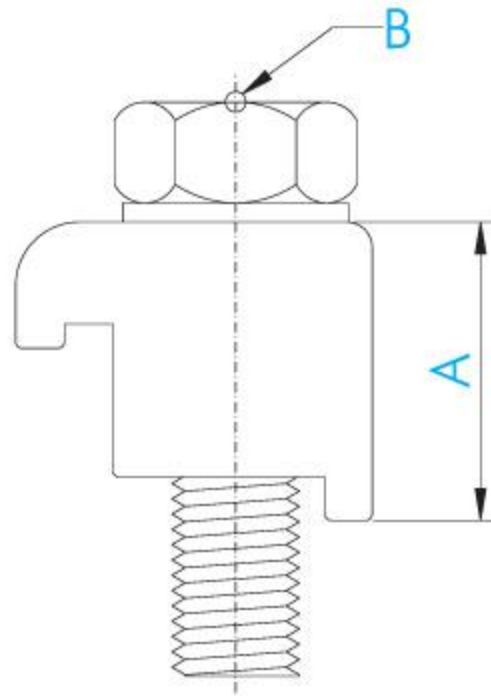
Model No.		Fit Flange
NW16-CLA	KF16-CLA	NW16
NW25-CLA	KF25-CLA	NW25
NW40-CLA	KF40-CLA	NW40
NW50-CLA	KF50-CLA	NW50

- **Body**
Aluminum

NW-Clamp Chain

Model No.	Fit Flange
NW80-CLA	NW80
NW100-CLA	NW100
NW160-CLA	NW160

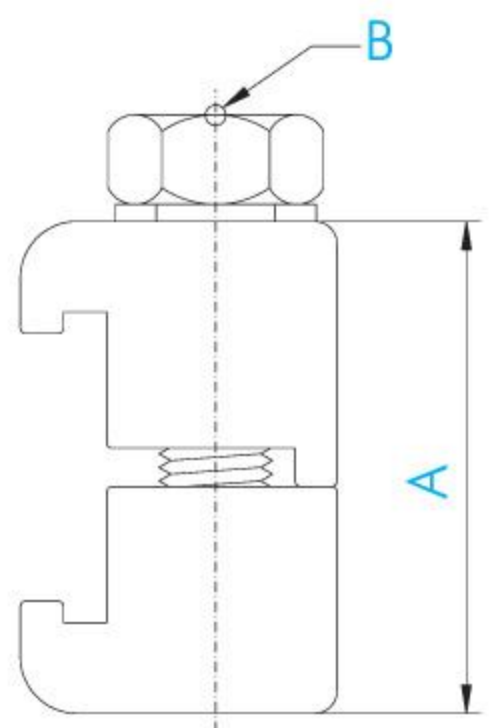
ISO-Single Wall Clamp



- **Body**
Aluminum
- **Bolt**
Stainless steel
- **Washer**
Stainless steel

Model No.	A	B	Fit Flange
ISO63-CSA	23.5	M8x35	ISO63-100
ISO160-CSA	23.5	M10x35	ISO160-250
ISO320-CSA	30	M12x50	ISO320-500

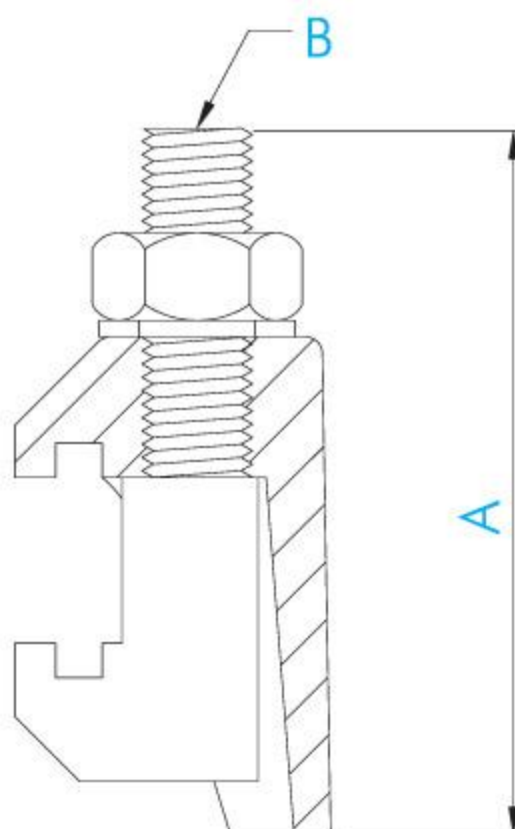
ISO-Double Wall Clamp



- **Body**
Aluminum
- **Bolt**
Stainless steel
- **Washer**
Stainless steel

Model No.	A	B	Fit Flange
ISO63-CDA	45	M8x45	ISO63-100
ISO160-CDA	45	M10x45	ISO160-250
ISO320-CDA	60	M12x60	ISO320-500

ISO-Double Claw Clamp



- **Body**
Steel + Zn Plated or SUS316
- **Washer**
Stainless steel

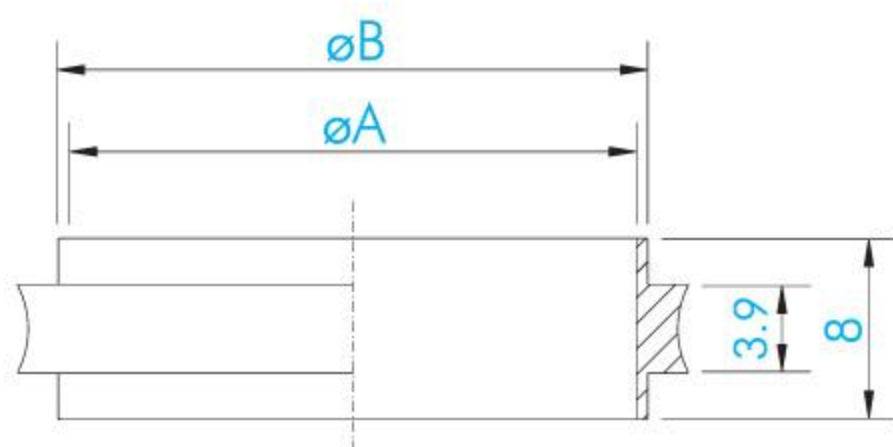
Model No.	A	B	Fit Flange
ISO63-CCS	61.5	M10	ISO63-250
ISO320-CCS	76	M12	ISO320-500
ISO630-CCS	86	M12	ISO630

CENTERING

5-1



Centering



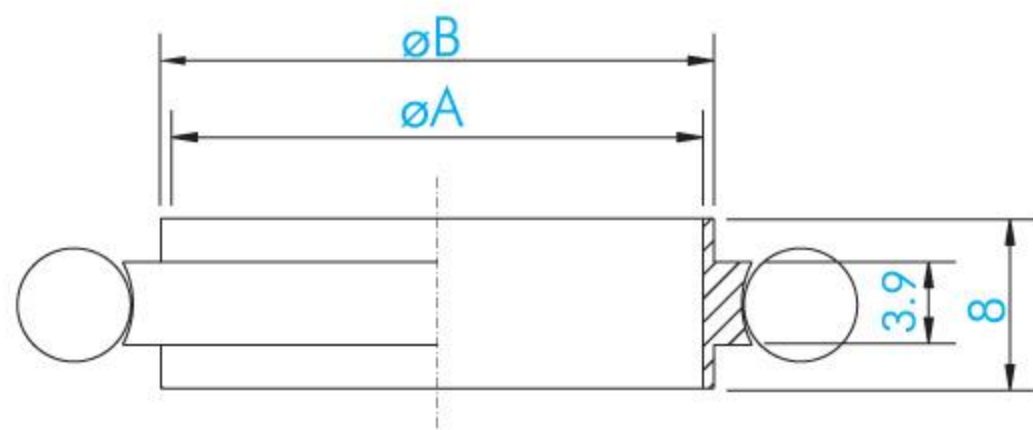
● Body

Stainless Steel or Aluminum (Special Order)

Model No.	A	B
NW10-RYS	10	12
NW16-RYS	16	17
NW25-RYS	25	26
NW40-RYS	40	41
NW50-RYS	50	52

Model No.	A	B
ISO63-RYS	67	69.6
ISO80-RYS	80	82.6
ISO100-RYS	100	101.6
ISO160-RYS	150	152.6
ISO200-RYS	210	212.6
ISO250-RYS	257.5	260.4

Centering with O-Ring



● Body

Stainless Steel or Aluminum (Special Order)

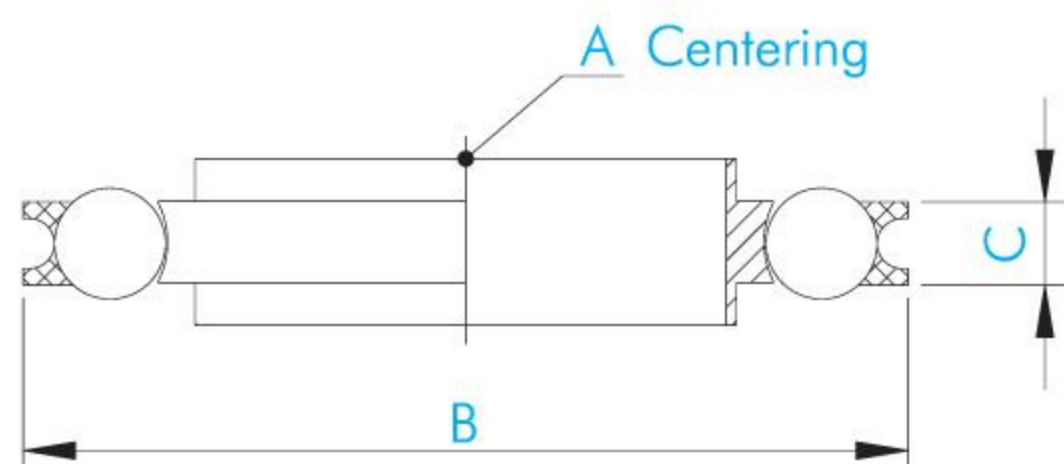
● O-Ring (Both black and brown colors are available)

Viton or NBR (Special Order)

Model No.	A	B
NW10-RVS	10	12
NW16-RVS	16	17
NW25-RVS	25	26
NW40-RVS	40	41
NW50-RVS	50	52

Model No.	A	B
ISO63-RVS	67	69.6
ISO80-RVS	80	82.6
ISO100-RVS	100	101.6
ISO160-RVS	150	152.6
ISO200-RVS	210	212.6
ISO250-RVS	257.5	260.4

Centering with O-Ring+Outer Ring

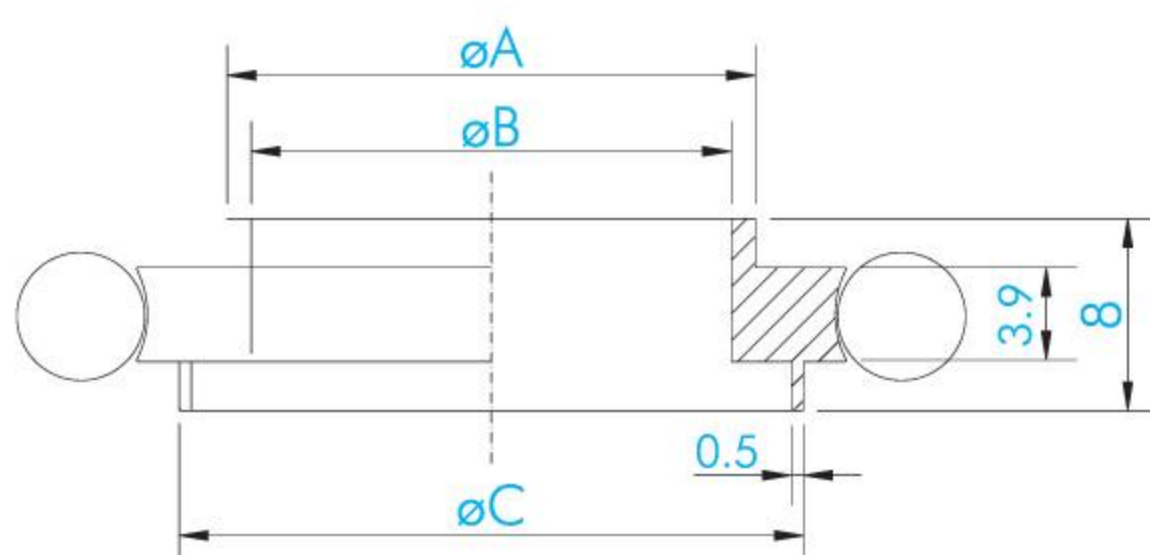


Model No.	A	B	C
NW16-OVS	NW16	32.5	8
NW25-OVS	NW25	42.5	8
NW40-OVS	NW40	57.5	8
NW50-OVS	NW50	77.5	8

- **Body**
Stainless Steel or Aluminum (Special Order)
- **O-Ring**
(Both black and brown colors are available)
Viton or NBR (Special Order)
- **Outer Ring**
Aluminum

Model No.	A	B	C
ISO63-OVS	ISO63	94	3.9
ISO80-OVS	ISO80	109	3.9
ISO100-OVS	ISO100	128	3.9
ISO160-OVS	ISO160	179	3.9
ISO200-OVS	ISO200	238	3.9
ISO250-OVS	ISO250	287	3.9

Centering Adaptor with O-Ring



- **Body**
Stainless Steel or Aluminum (Special Order)
- **O-Ring**
(Both black and brown colors are available)
Viton or NBR (Special Order)

Model No.	A	B	C
NW10-RVS-A	12	10	17
NW20-RVS-A	22	20	26
NW32-RVS-A	34	32	41

CENTERING



5-3

O-Ring

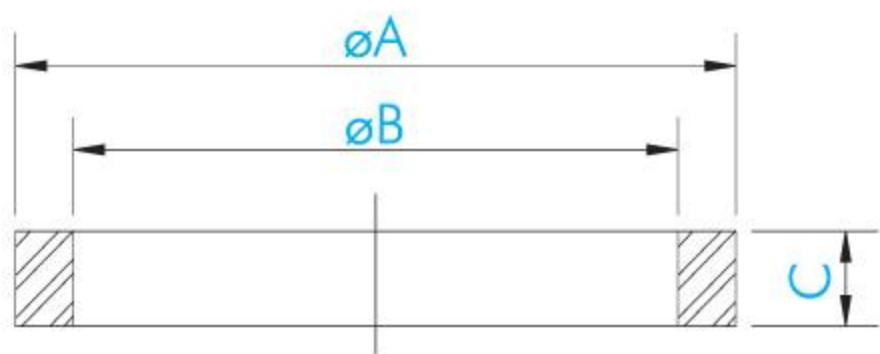


- **Body**
(Both black and brown colors are available)
Viton
or
NBR (Special Order)

Model No.	Fit Centering
AS-311	NW10
AS-314	NW16
AS-320	NW25
AS-326	NW40
AS-330	NW50

Model No.	Fit Centering
AS-337	ISO63
AS-341	ISO80
AS-347	ISO100
AS-362	ISO160
AS-371	ISO200
AS-378	ISO250

Overpressure Ring



- **Body**
Stainless Steel

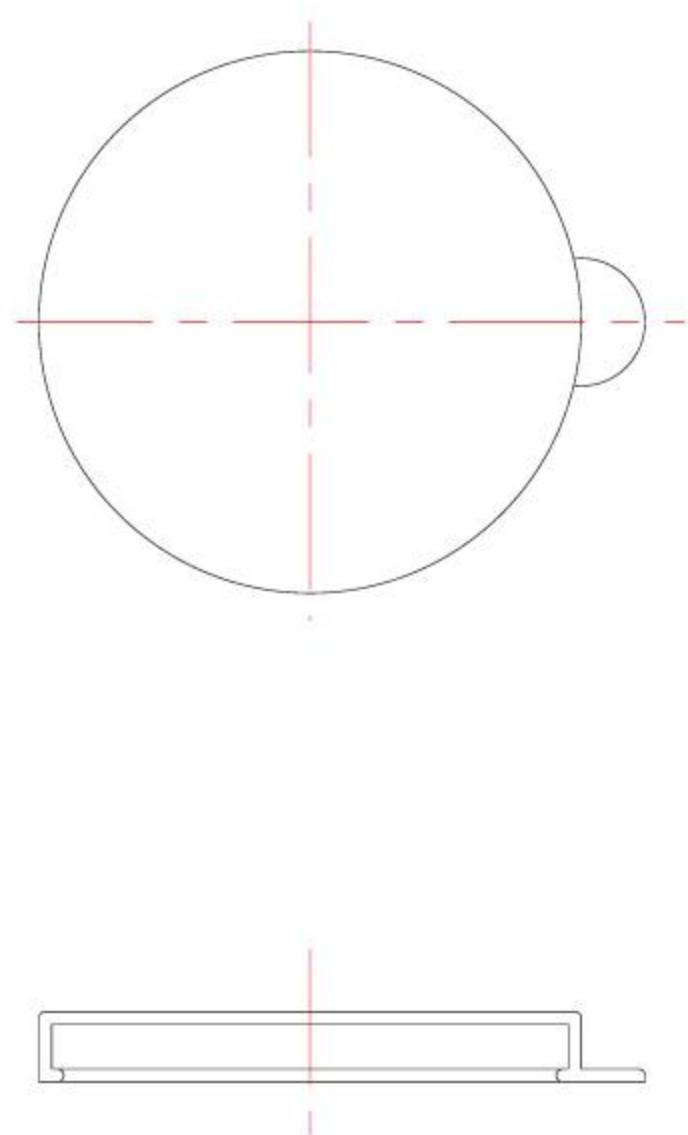
Model No.	A	B	C
10-ORS	28	23.5	3.7
16-ORS	31.75	30.12	3.7
25-ORS	40.4	38.86	3.7
40-ORS	57.15	54	3.7
50-ORS	69.85	66.55	3.7
80-ORS	106	100.2	3.9

CAP

6-1



Cap



● **Body**
Polyethylene

Model No.	Fit Centering
NW10-CAP	NW10
NW16-CAP	NW16
NW25-CAP	NW25
NW40-CAP	NW40
NW50-CAP	NW50

Model No.	Fit Centering
ISO63-CAP	ISO63
ISO80-CAP	ISO80
ISO100-CAP	ISO100
ISO160-CAP	ISO160
ISO200-CAP	ISO200
ISO250-CAP	ISO250

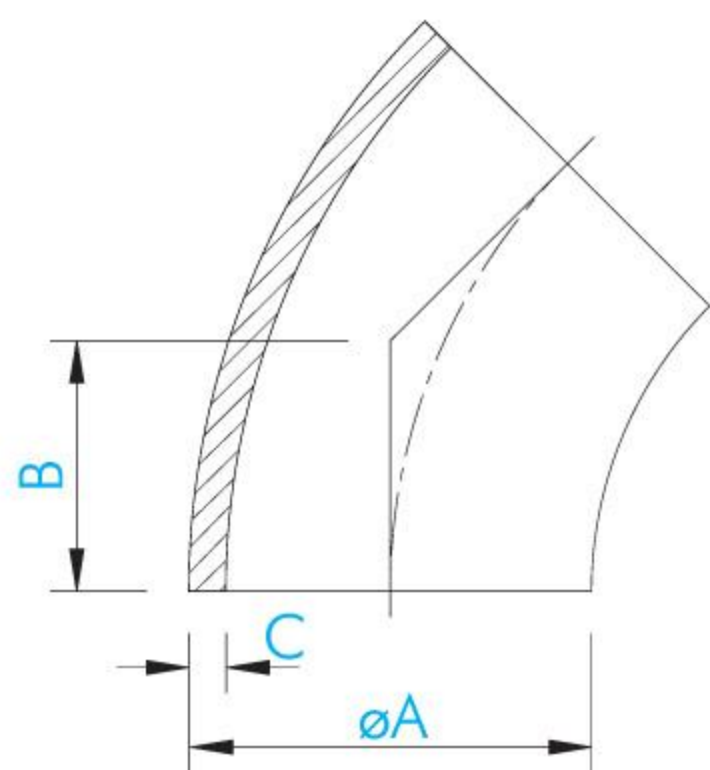
Model No.	Fit Centering
CF16-CAP	CF16
CF35-CAP	CF35
CF63-CAP	CF63
CF100-CAP	CF100
CF150-CAP	CF150
CF200-CAP	CF200

FITTING SERIES

7-1



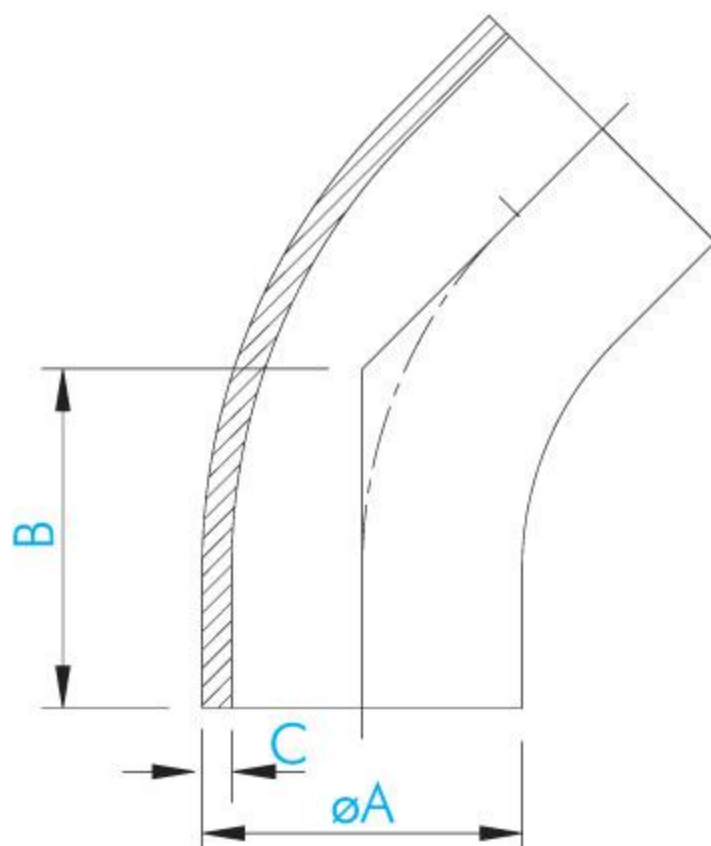
45° Elbow



● Body Stainless Steel

Model No.	A	B	C
E16-C	19.05	9.6	1.65
E25-C	25.4	15.9	1.65
E40-C	38.1	23.8	1.65
E50-C	50.8	31.8	1.65
E63-C	63.5	39.7	1.65
E80-C	76.2	47.6	1.65
E100-C	101.6	63.5	2

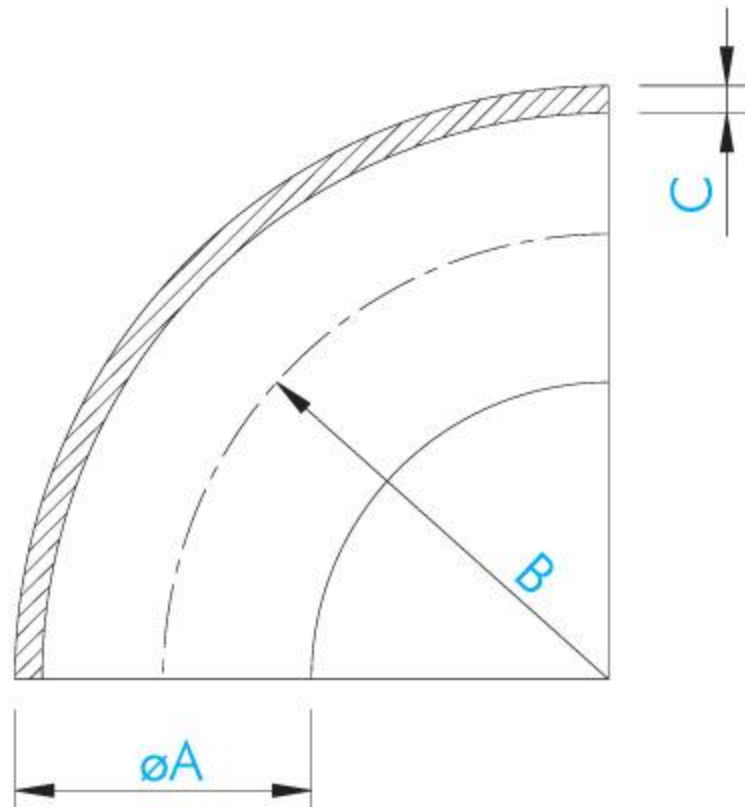
45° Elbow with Tangents



● Body Stainless Steel

Model No.	A	B	C
E16-CT	19.05	49	1.65
E25-CT	25.4	30.2	1.65
E40-CT	38.1	41.3	1.65
E50-CT	50.8	58.7	1.65
E63-CT	63.5	76.2	1.65
E80-CT	76.2	93.7	1.65
E100-CT	101.6	122.2	2

90° Elbow

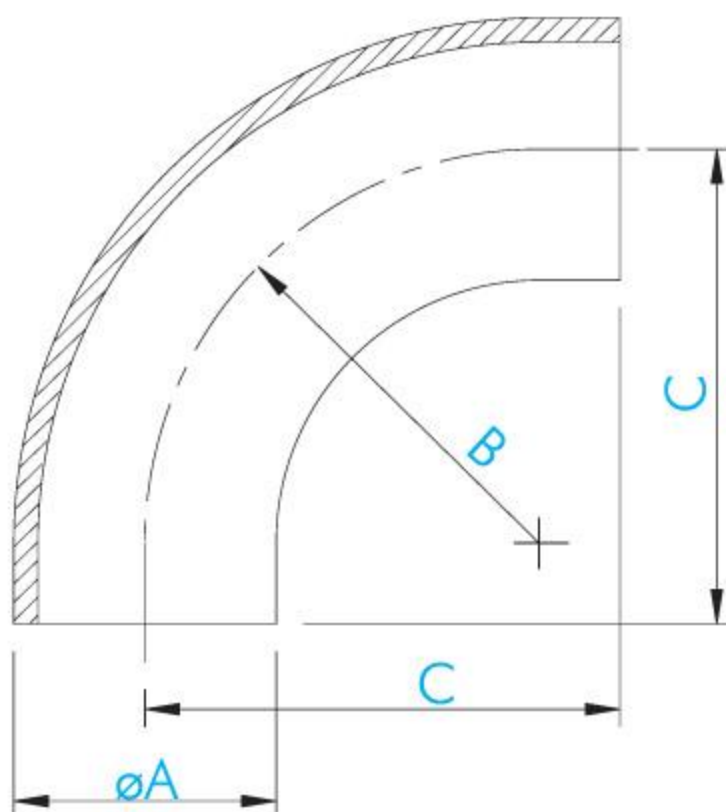


● Body Stainless Steel

Model No.	A	B	C
E16-L	19.05	28.6	1.65
E25-L	25.4	38.1	1.65
E40-L	38.1	57.2	1.65
E50-L	50.8	76.2	1.65
E63-L	63.5	95.2	1.65
E80-L	76.2	114.3	1.65
E100-L	101.6	152.4	2
E150-L	152.4	228.6	2.7

7-2

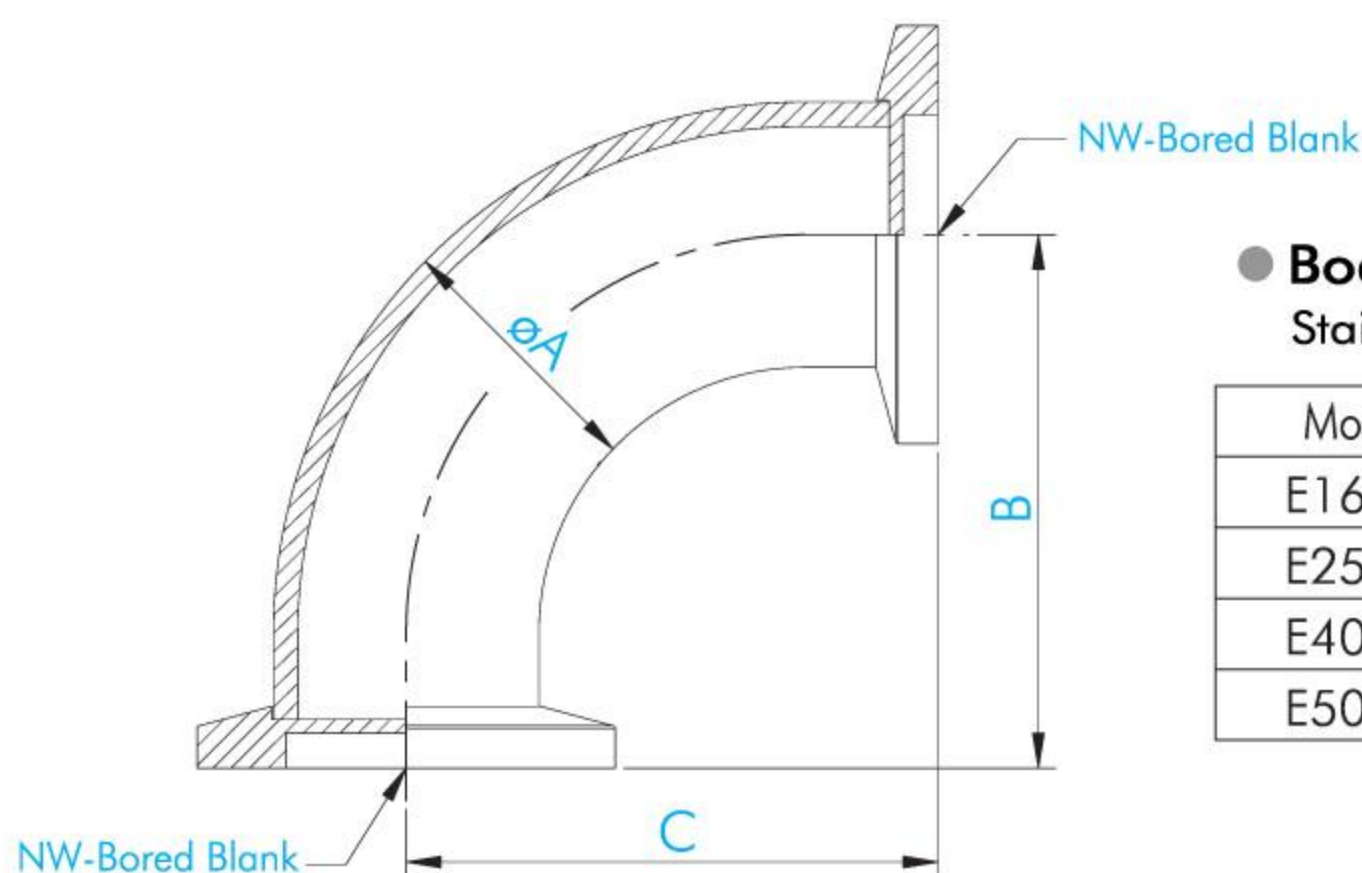
90° Elbow with Tangents



● Body Stainless Steel

Model No.	A	B	C
E16-LT	19.05	28.6	34.5
E25-LT	25.4	38.1	52.4
E40-LT	38.1	57.2	74.6
E50-LT	50.8	76.2	103.2
E63-LT	63.5	95.3	131.8
E80-LT	76.2	114.3	134.9
E100-LT	101.6	152.4	211.1

NW- 90° Elbow



● Body Stainless Steel

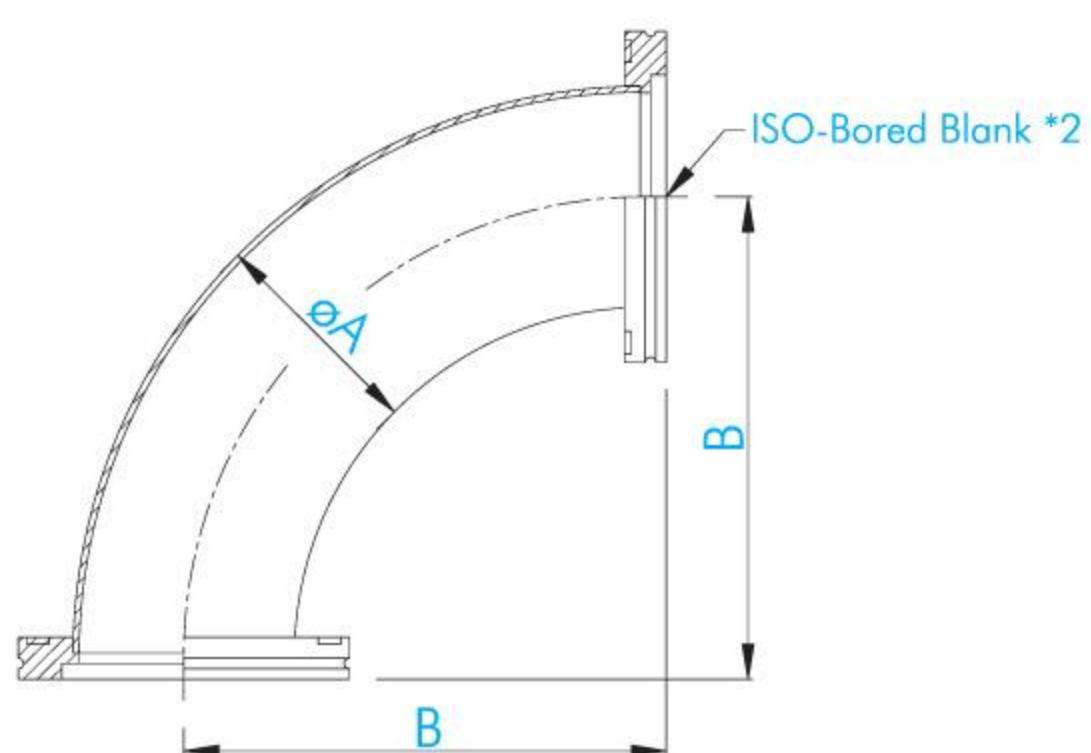
Model No.	A	B	Fit Bored Blank (NW)
E16-LNN	19.05	38.3	16
E25-LNN	25.4	56.2	25
E40-LNN	38.1	78.4	40
E50-LNN	50.8	107	50

FITTING SERIES

7-3



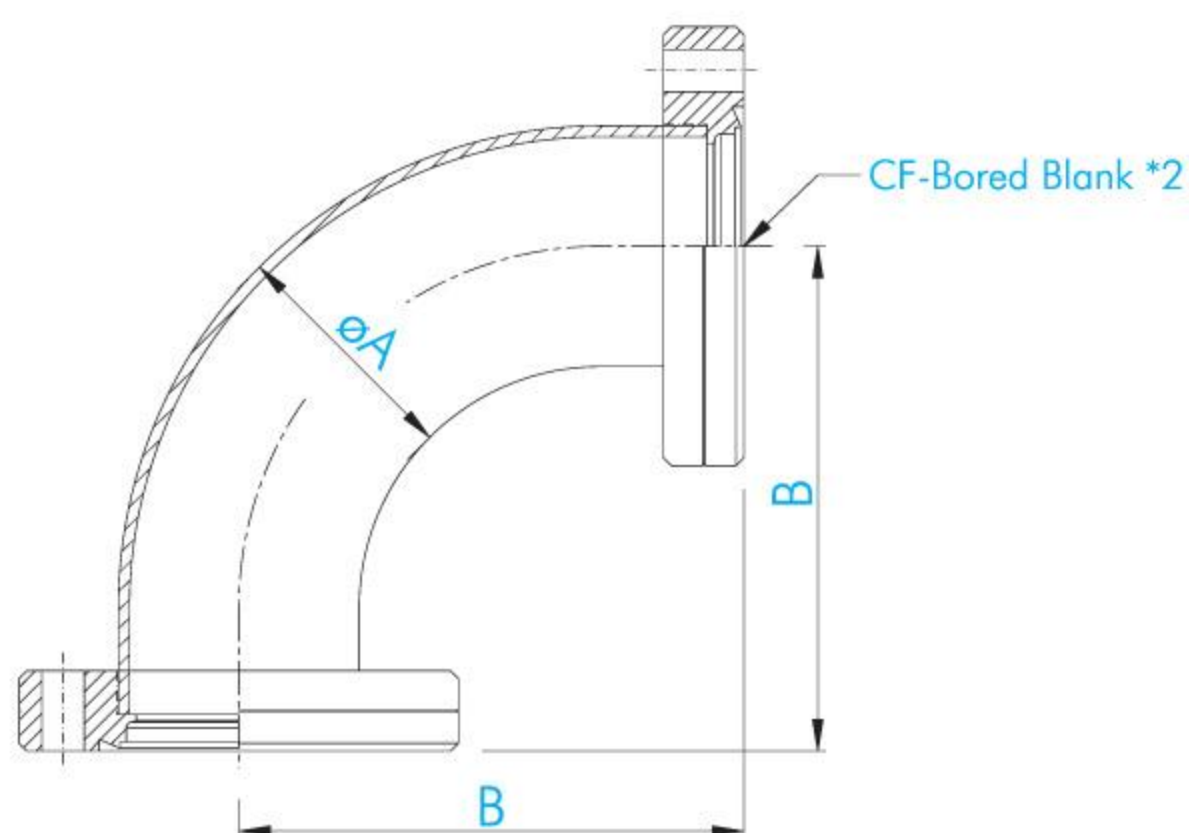
ISO- 90° Elbow



● Body Stainless Steel

Model No.	A	B	Fit Bored Blank (ISO)
E63-LII	63.5	138.4	63
E80-LII	76.2	141.5	80
E100-LII	101.6	217.7	100
E160-LII	152.4	235.2	160

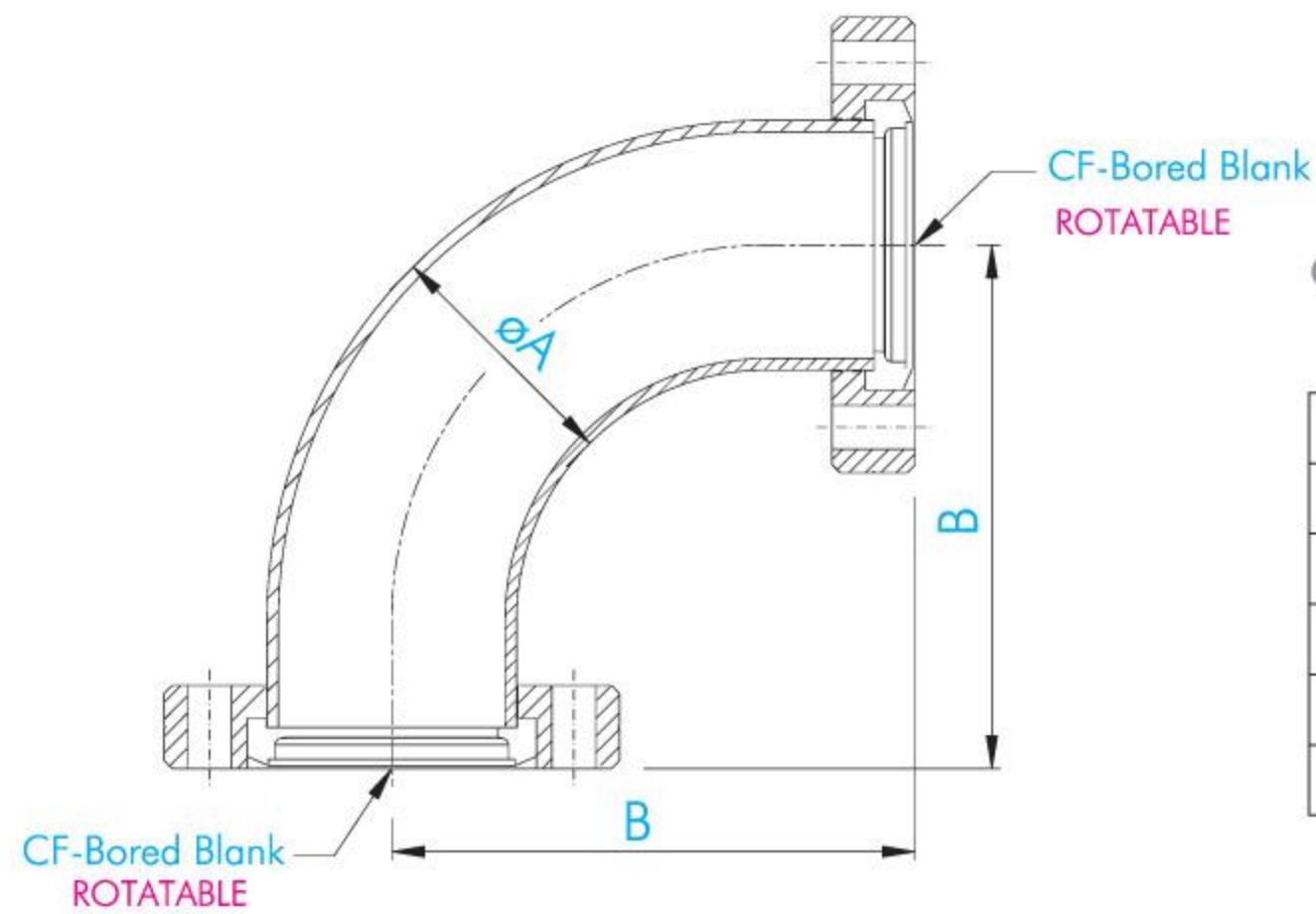
CF- 90° Elbow-Fixed



● Body Stainless Steel

Model No.	A	B	Fit Bored Blank (CF)
E16-LCC	19.05	37.5	16
E35-LCC	38.1	79.9	35
E63-LCC	63.5	141.3	63
E100-LCC	101.6	222.2	100
E150-LCC	152.4	241.3	150

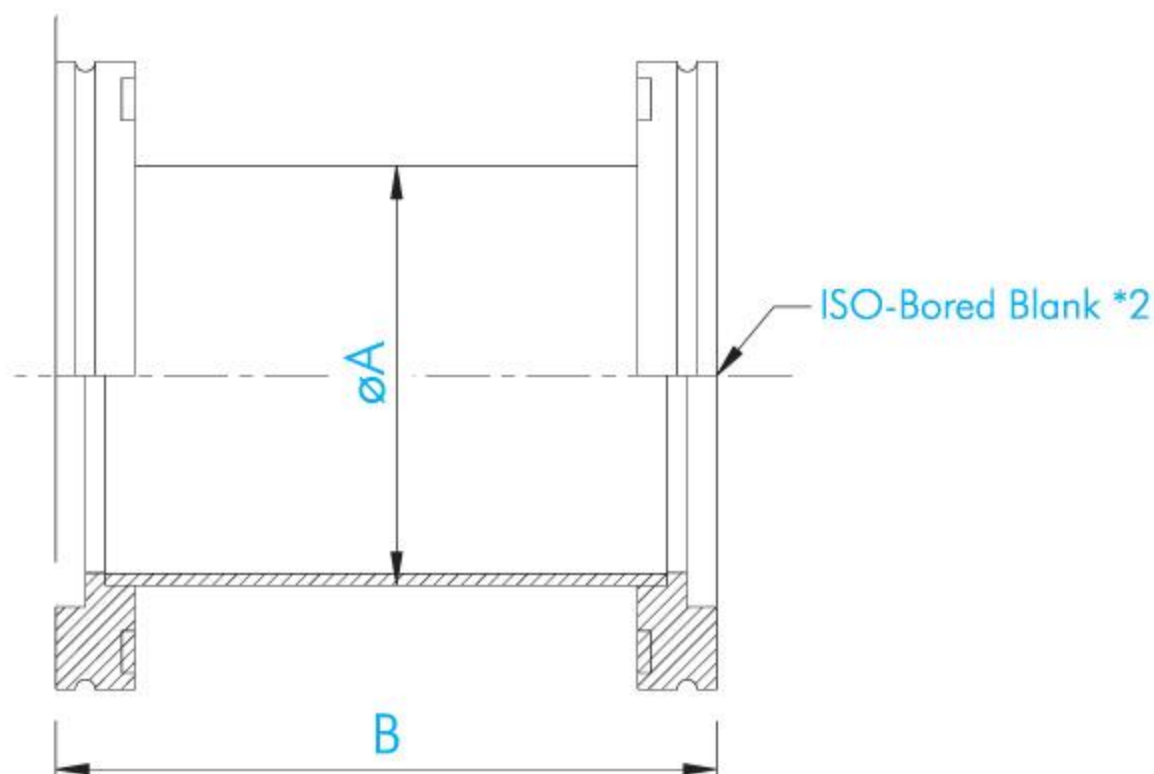
CF- 90° Elbow -Rotatable



● Body Stainless Steel

Model No.	A	B	Fit Bored Blank (CF)
E16-LRR	19.05	42.7	16
E35-LRR	38.1	79.9	35
E63-LRR	63.5	141.3	63
E100-LRR	101.6	222.2	100
E150-LRR	152.4	241.3	150

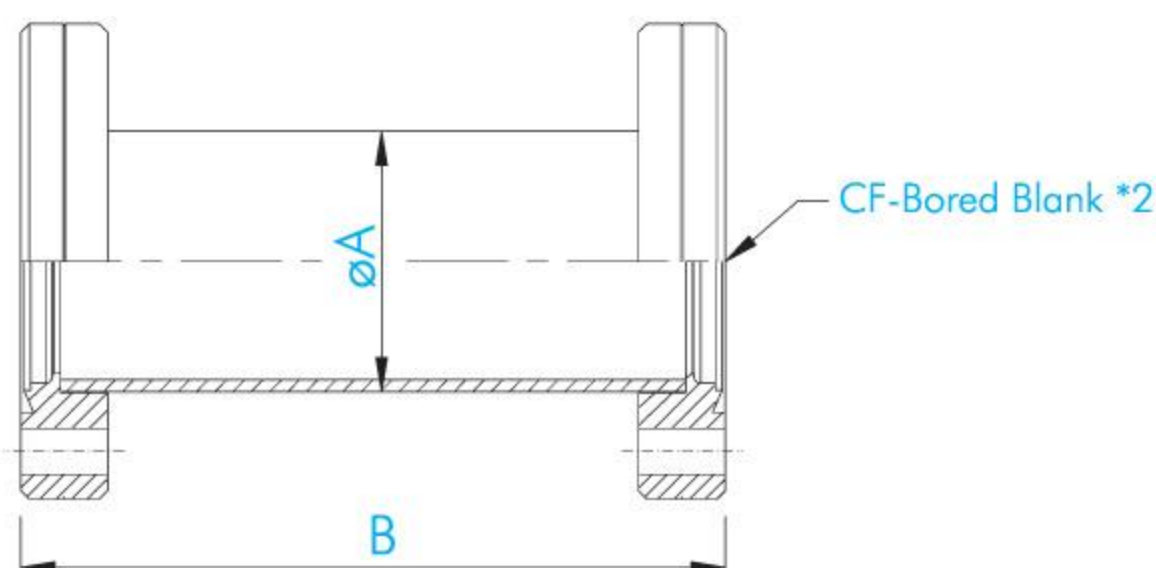
ISO- Full Nipple



● Body Stainless Steel

Model No.	A	B	Fit Bored Blank (ISO)
E63-III	63.5	100	63
E80-III	76.2	100	80
E100-III	101.6	100	100
E160-III	152.4	100	160
E200-III	203.2	100	200
E250-III	254	100	250
E320-III	304.8	200	320

CF- Nipple-Fixed



● Body Stainless Steel

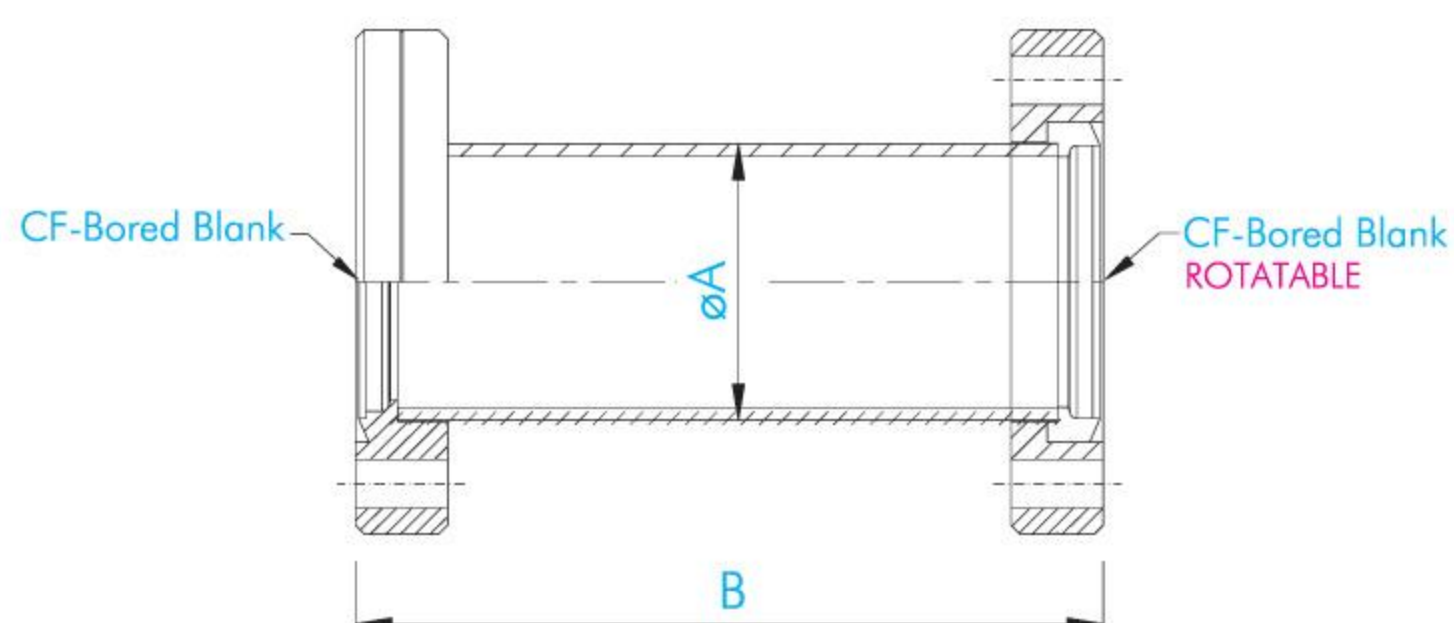
Model No.	A	B	Fit Bored Blank (CF)
E16-ICC	19.05	76	16
E35-ICC	38.1	126	35
E63-ICC	63.5	210	63
E100-ICC	101.6	270	100
E150-ICC	152.4	334	150
E200-ICC	203.2	334	200

FITTING SERIES

7-5



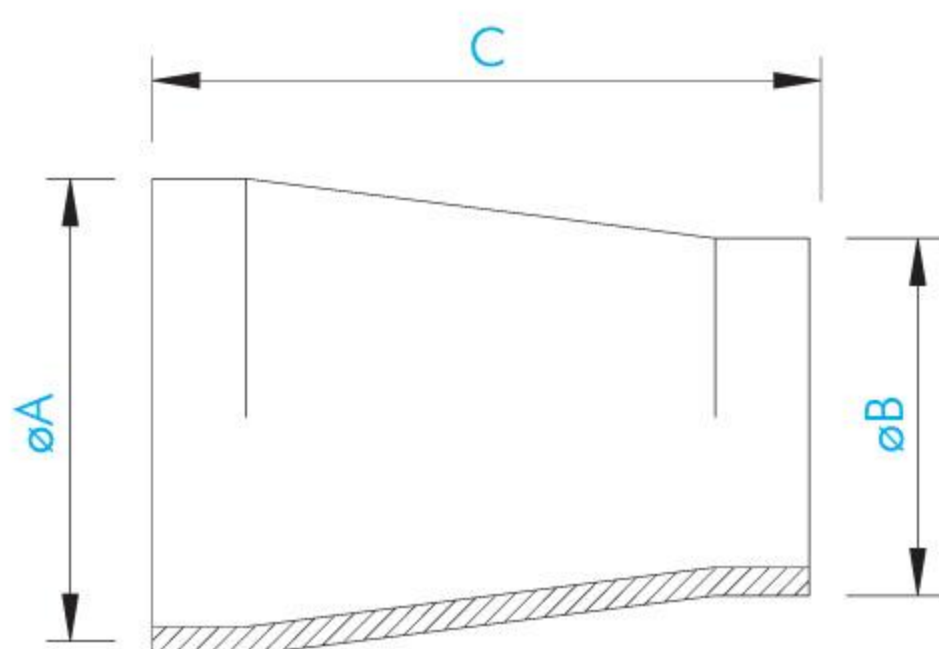
CF- Nipple-1 Flange Rotatable



● Body Stainless Steel

Model No.	A	B	Fit Bored Blank (CF)
E16-ICR	19.05	76	16
E35-ICR	38.1	126	35
E63-ICR	63.5	210	63
E100-ICR	101.6	270	100
E150-ICR	152.4	334	150
E200-ICR	203.2	334	200

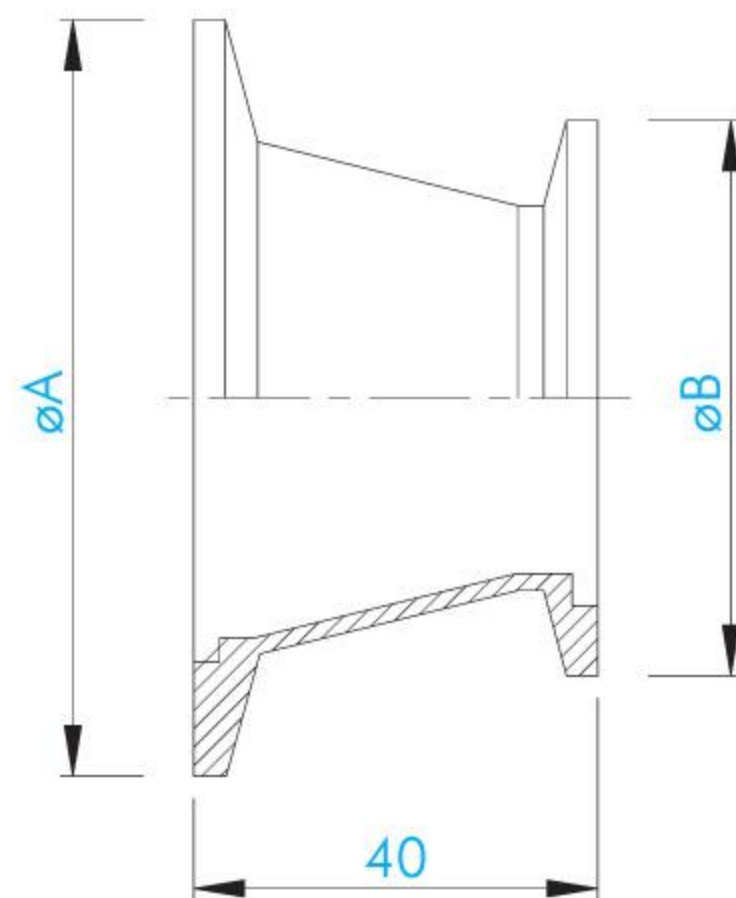
Conical Reducers



● Body Stainless Steel

Model No.	A	B	C
E25-16 I	25.4	19.05	35
E40-16 I	38.1	19.05	60.3
E40-25 I	38.1	25.4	60.3
E50-25 I	50.8	25.4	60.3
E50-40 I	50.8	38.1	60.3
E63-40 I	63.5	38.1	60.3
E63-50 I	63.5	50.8	60.3
E80-50 I	76.2	50.8	92
E80-63 I	76.2	63.5	92
E100-50 I	101.6	50.8	92
E100-63 I	101.6	63.5	92
E100-80 I	101.6	76.2	92
E150-80 I	152.4	76.2	152.4
E150-100 I	152.4	101.6	152.4

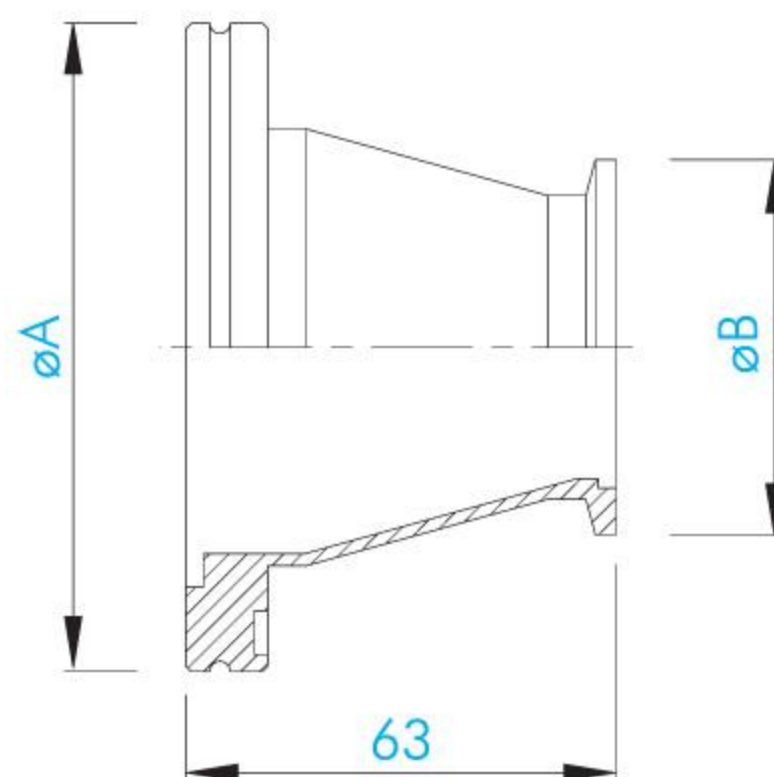
NW-NW Conical Reducing Adaptor



- **Body**
Stainless Steel

Model No.	A	B
E25-16NN	40	30
E40-16NN	55	30
E40-25NN	55	40
E50-16NN	75	30
E50-25NN	75	40
E50-40NN	75	55

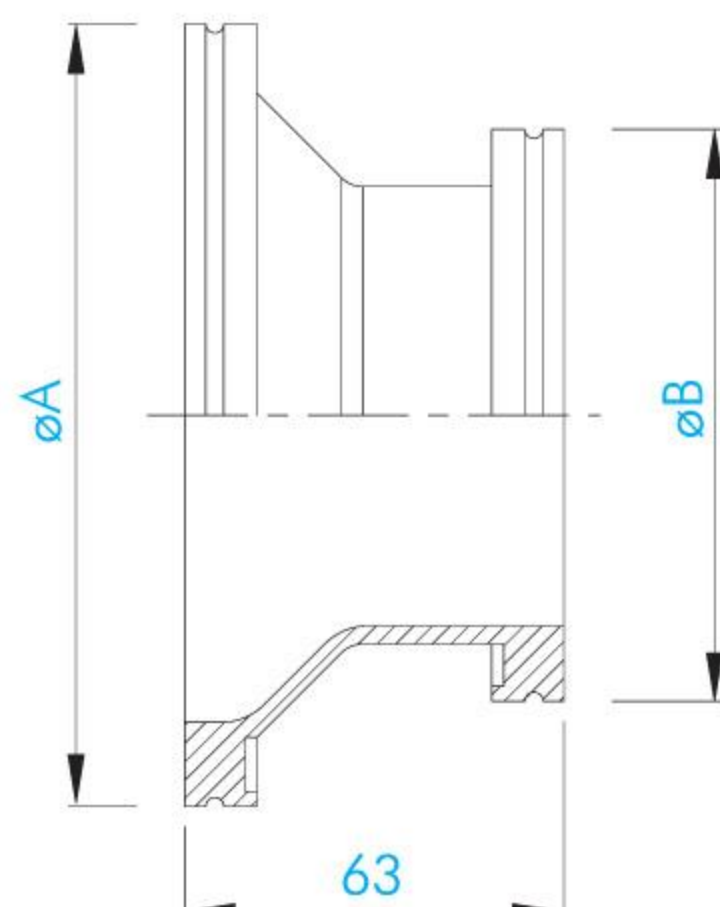
ISO-NW Conical Reducing Adaptor



- **Body**
Stainless Steel

Model No.	A	B
E63-25 IN	95	40
E63-40 IN	95	55
E80-40 IN	110	55
E80-50 IN	110	75
E100-25 IN	130	40
E100-40 IN	130	55
E100-50 IN	130	75

ISO-ISO Conical Reducing Adaptor



- **Body**
Stainless Steel

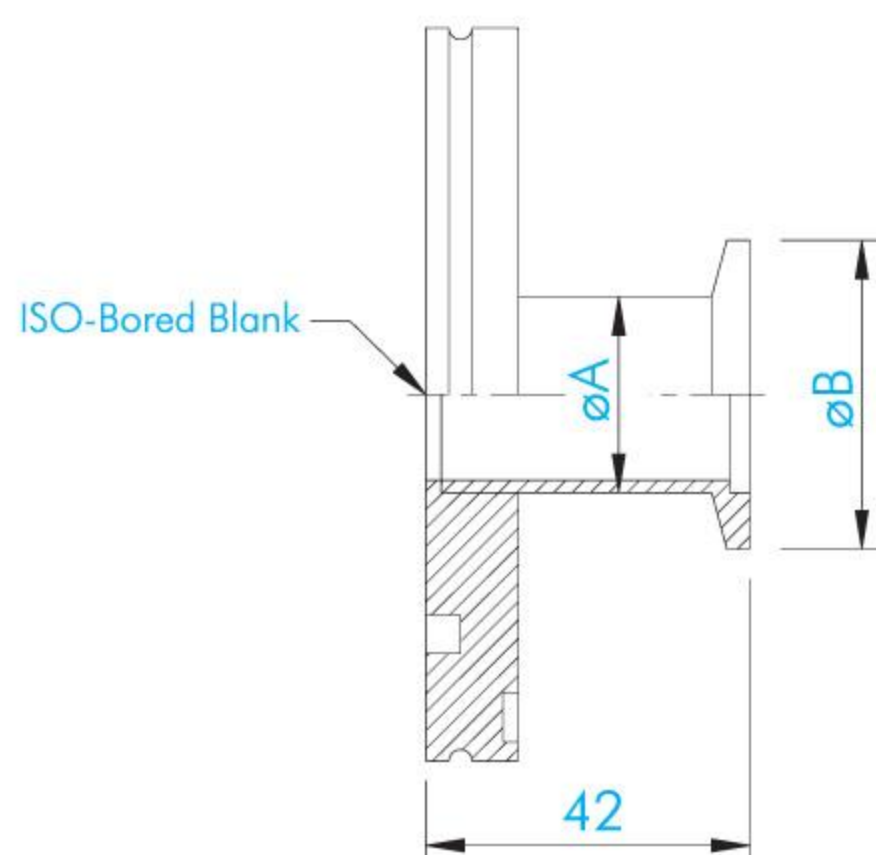
Model No.	A	B
E80-63 II	110	95
E100-63 II	130	95
E100-80 II	130	110
E160-63 II	180	95

FITTING SERIES

7-7



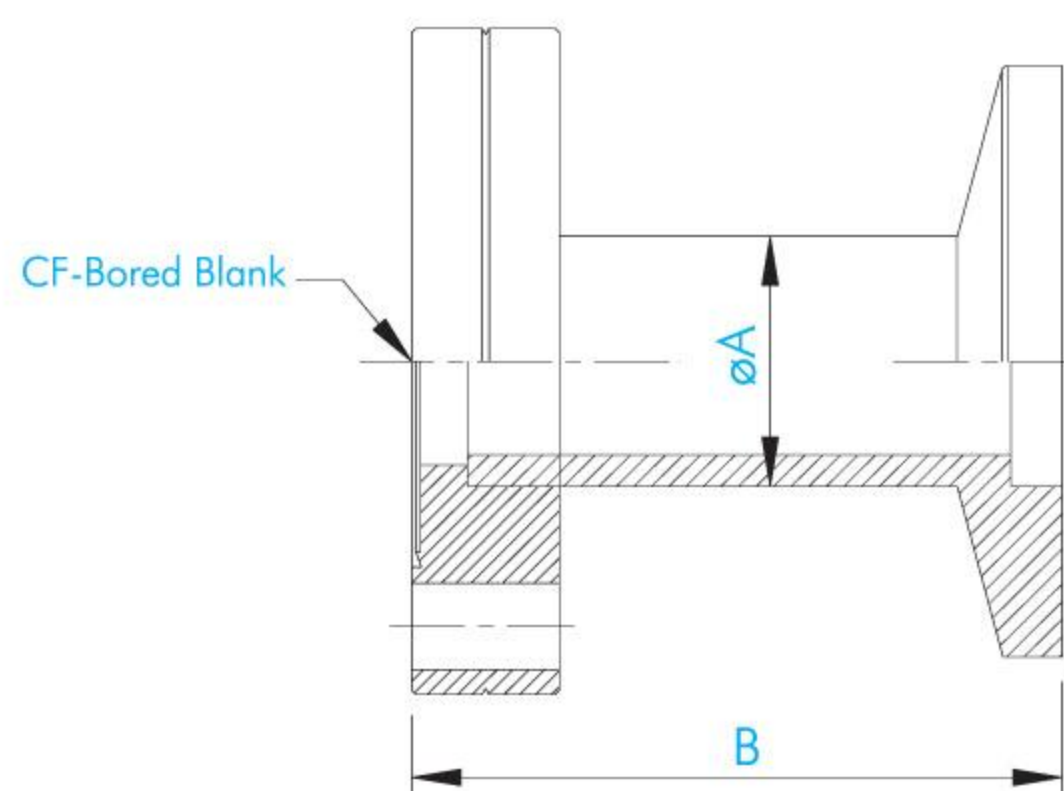
ISO-NW Tubulated Adaptor



- **Body**
Stainless Steel

Model No.	A	B	Fit Bored Blank (ISO)
E63-25 IT	25.4	40	63
E63-40 IT	38.1	55	63
E63-50 IT	50.8	75	63
E80-40 IT	38.1	55	80
E80-50 IT	50.8	75	80
E100-40 IT	38.1	55	100
E100-50 IT	50.8	75	100

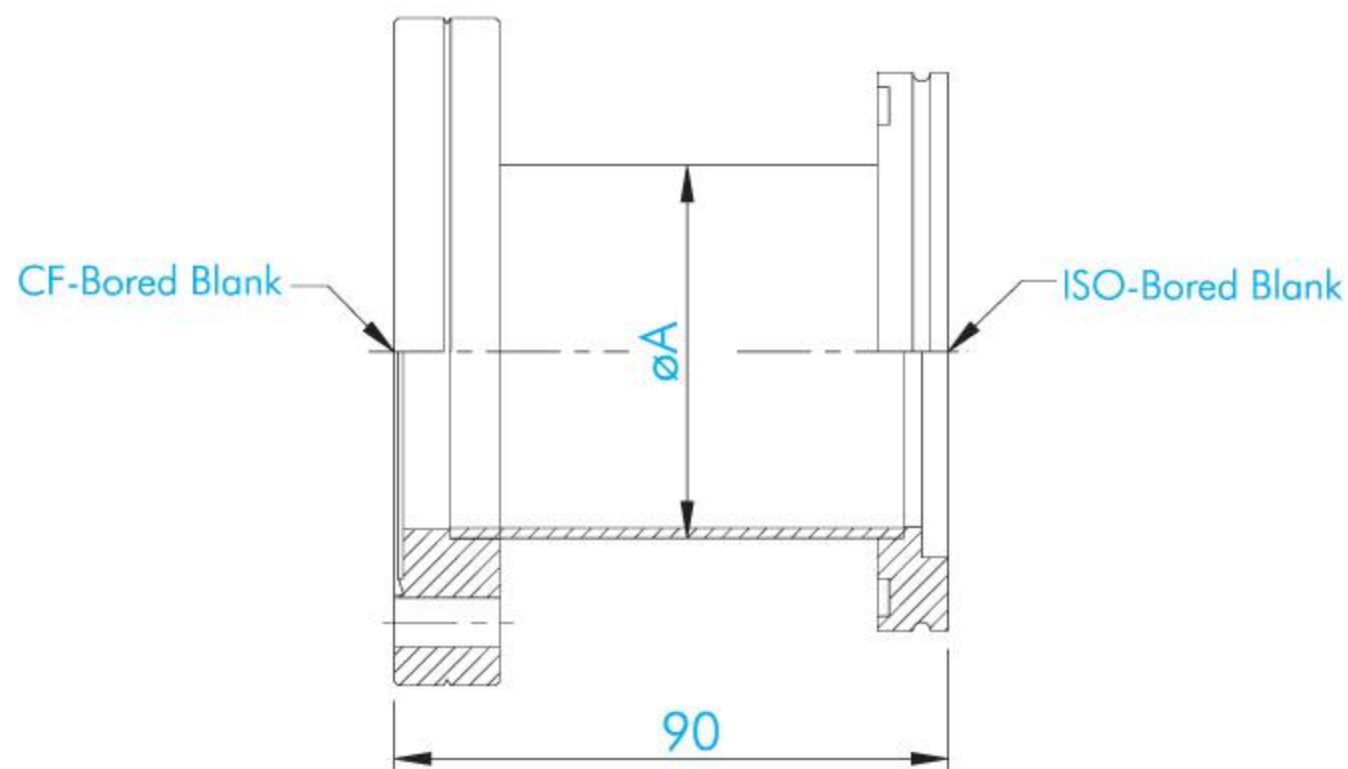
CF-NW Tubulated Adaptor



- **Body**
Stainless Steel

Model No.	A	B	Fit Bored Blank (CF)
E16-10CT	12.7	43	16
E16-16CT	19.05	43	16
E35-10CT	12.7	45.3	35
E35-16CT	19.05	45.3	35
E35-25CT	25.4	45.3	35
E63-50CT	50.8	49.5	63

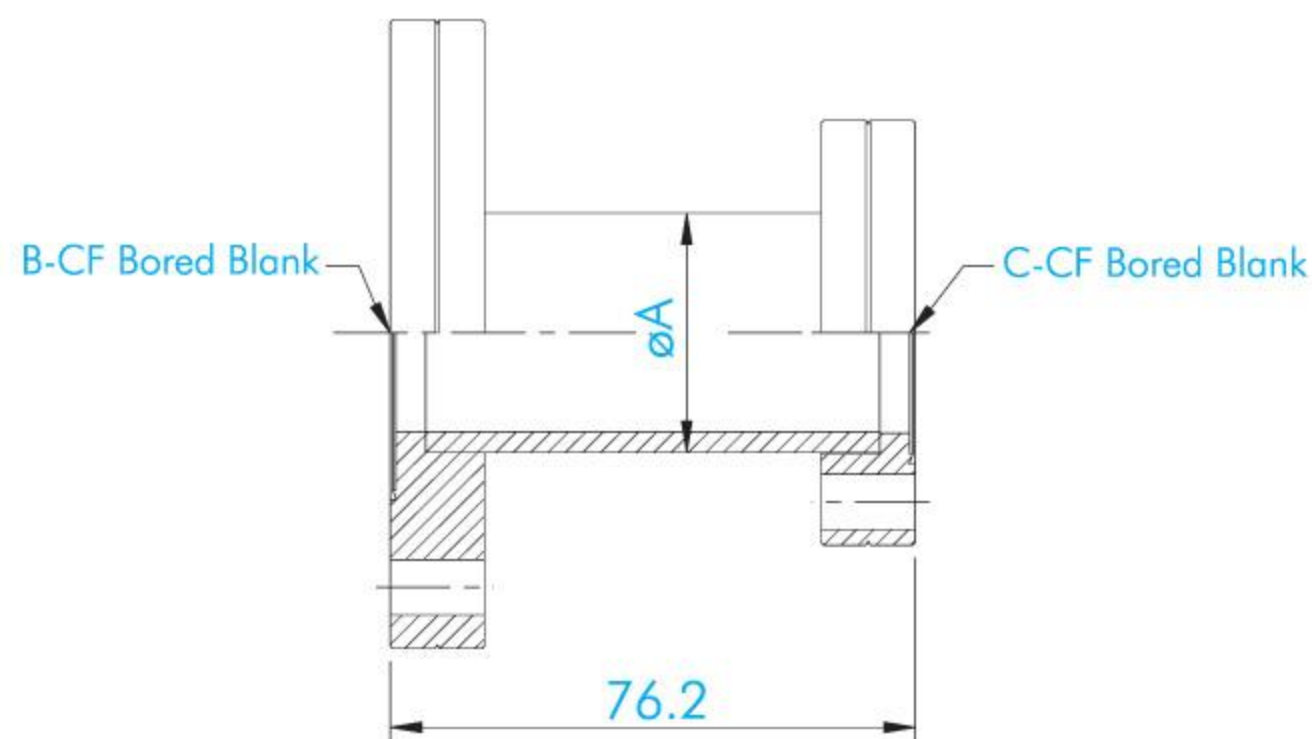
CF-ISO Tubulated Adaptor



● Body Stainless Steel

Model No.	A	Fit Bored Blank (CF)	Fit Bored Blank (ISO)
E63-63CI	63.5	63	63
E100-63CI	63.5	100	63
E100-100CI	101.6	100	100
E150-63CI	63.5	150	63
E150-100CI	101.6	150	100

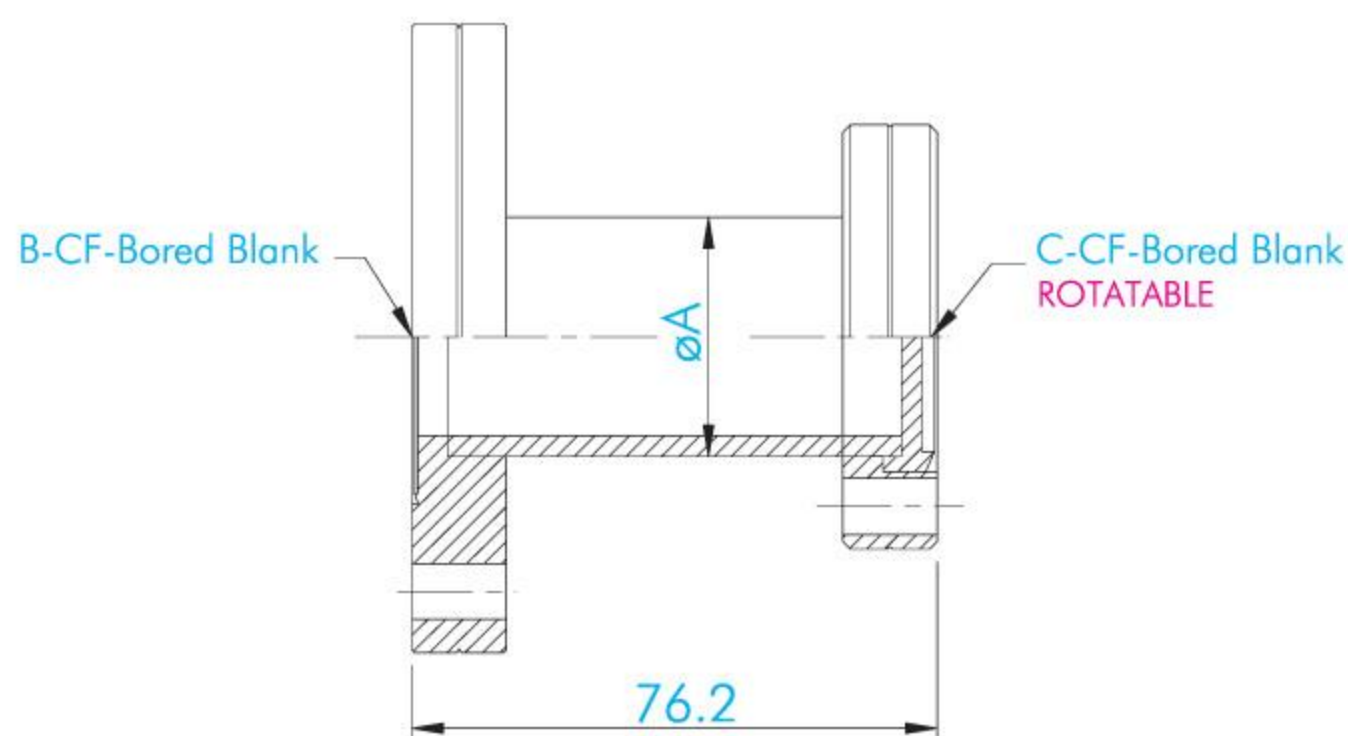
CF-Reducing Adaptor-Fixed



● Body Stainless Steel

Model No.	A	Fit Bored Blank (B-CF)	Fit Bored Blank (C-CF)
E35-16CC	19.05	35	16
E63-16CC	19.05	63	16
E63-35CC	38.1	63	35
E100-35CC	38.1	100	35
E100-63CC	63.5	100	63
E150-35CC	38.1	150	35
E150-63CC	63.5	150	63
E150-100CC	101.6	150	100

CF-Reducing Adaptor-Small Flange Rotatable



● Body Stainless Steel

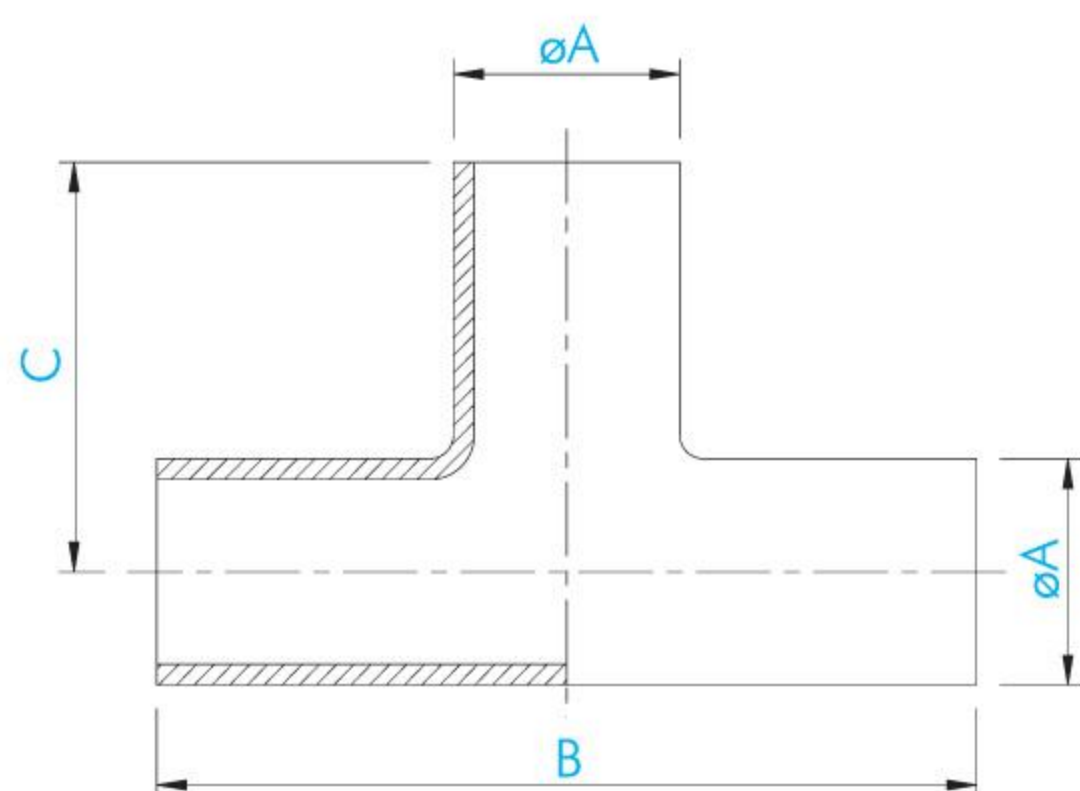
Model No.	A	Fit Bored Blank (B-CF)	Fit Bored Blank (C-CF)
E35-16CR	19.05	35	16
E63-16CR	19.05	63	16
E63-35CR	38.1	63	35
E100-35CR	38.1	100	35
E100-63CR	63.5	100	63
E150-35CR	38.1	150	35
E150-63CR	63.5	150	63
E150-100CR	101.6	150	100

FITTING SERIES

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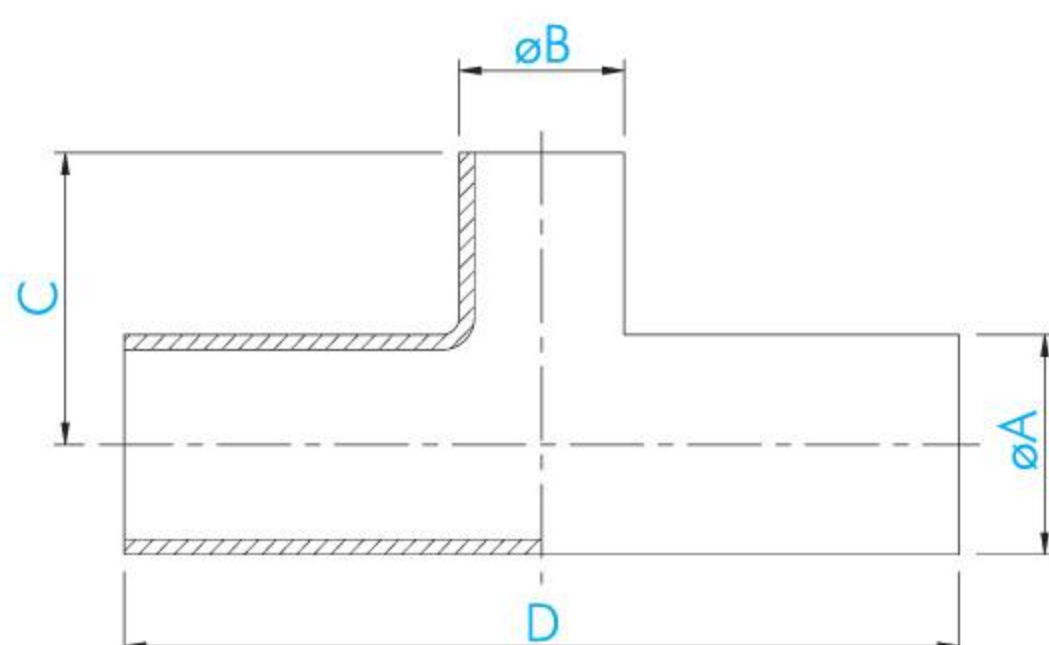
Tees



● Body Stainless Steel

Model No.	A	B	C
E16-T	19.05	69	34.5
E25-T	25.4	95.2	47.6
E40-T	38.1	114.3	57.2
E50-T	50.8	152.4	76.2
E63-T	63.5	152.4	76.2
E80-T	76.2	165.1	82.5
E100-T	101.6	196.8	98.4
E150-T	152.4	254	127

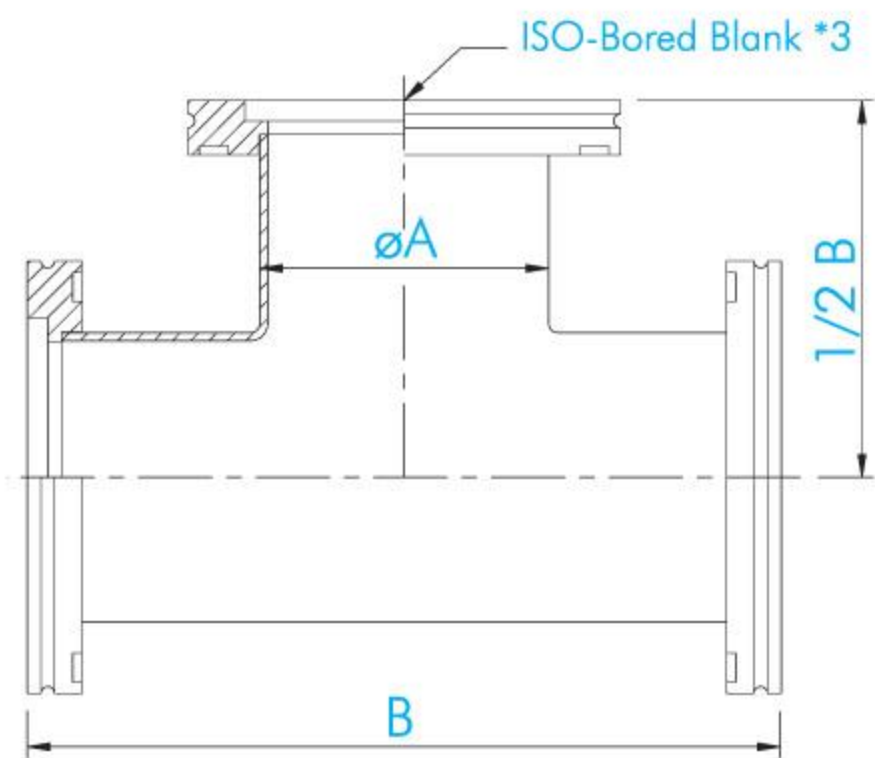
Unequal Tees



● Body Stainless Steel

Model No.	A	B	C	D
E25-16T	25.4	19.05	33.7	96.4
E40-16T	38.1	19.05	48.2	114.3
E40-25T	38.1	25.4	54	114.3
E50-16T	50.8	19.05	54.4	152.4
E50-25T	50.8	25.4	60.3	152.4
E50-40T	50.8	38.1	63.5	152.4
E80-63T	76.2	63.5	82.5	165
E100-50T	101.6	50.8	101.6	196.8
E100-63T	101.6	63.5	95.3	196.8
E100-80T	101.6	76.2	95.3	196.8
E150-80T	152.4	76.2	120.7	254
E150-100T	152.4	101.6	123.8	254

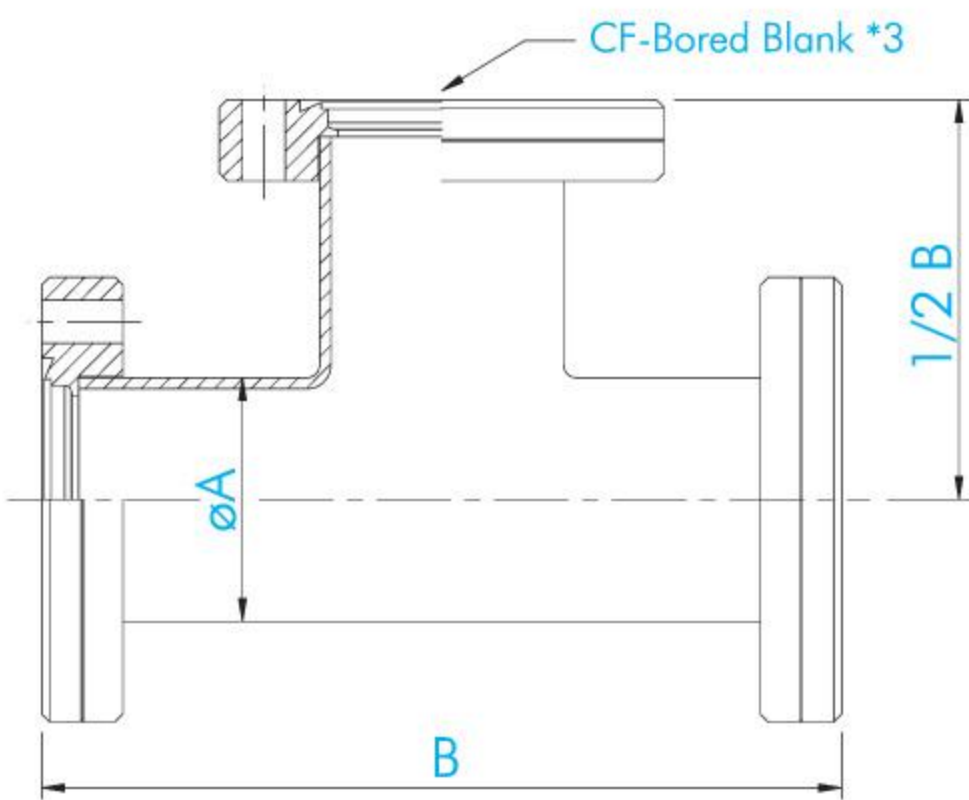
ISO- Tees



● **Body**
Stainless Steel

Model No.	A	B	Fit Bored Blank (ISO)
E63-TII	63.5	165.6	63
E80-TII	76.2	178.3	80
E100-TII	101.6	210	100
E160-TII	152.4	267.2	160

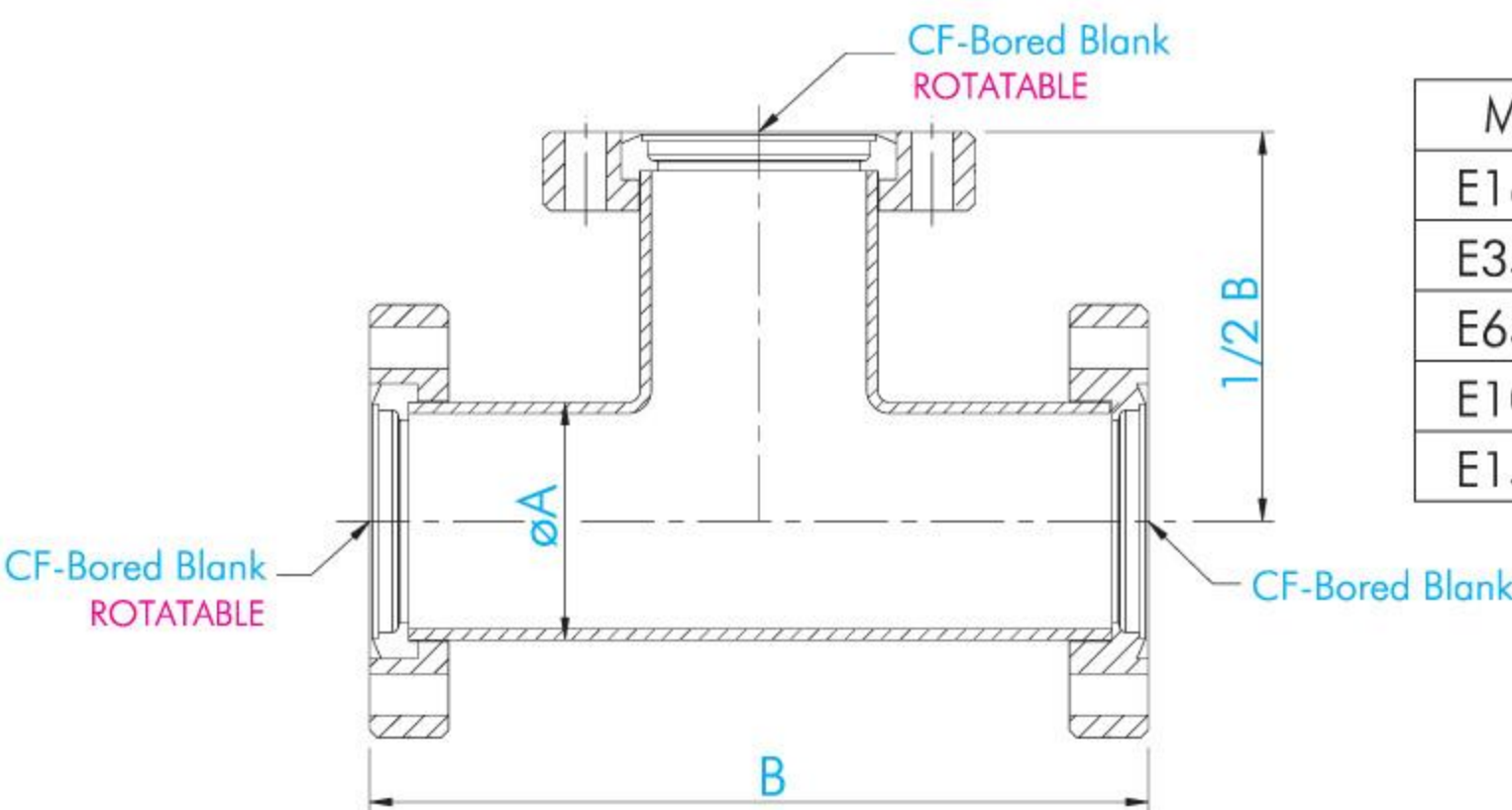
CF Tees-Fixed



● **Body**
Stainless Steel

Model No.	A	B	Fit Bored Blank (CF)
E16-TCC	19.05	75	16
E35-TCC	38.1	125	35
E63-TCC	63.5	171.4	63
E100-TCC	101.6	219	100
E150-TCC	152.4	279.4	150

CF Tees-2 Flanges Rotatable

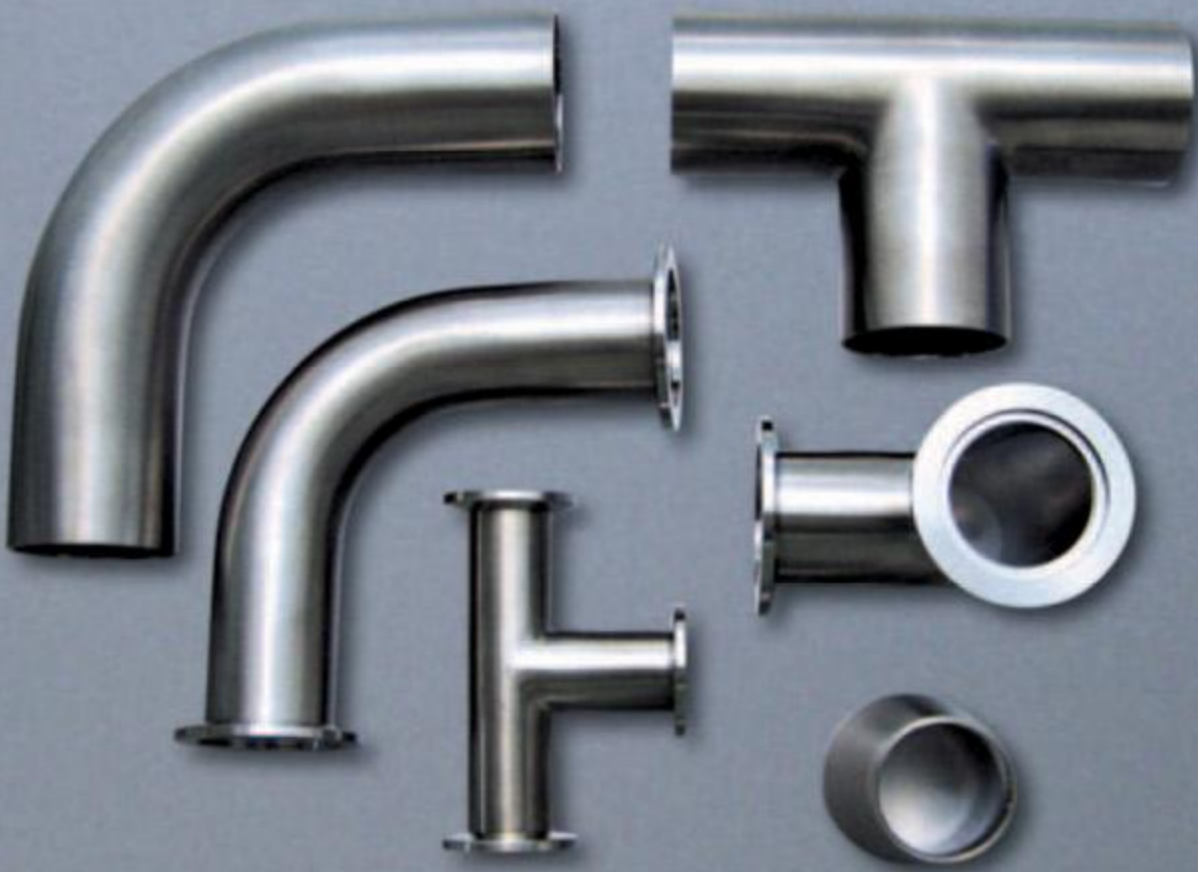


● **Body**
Stainless Steel

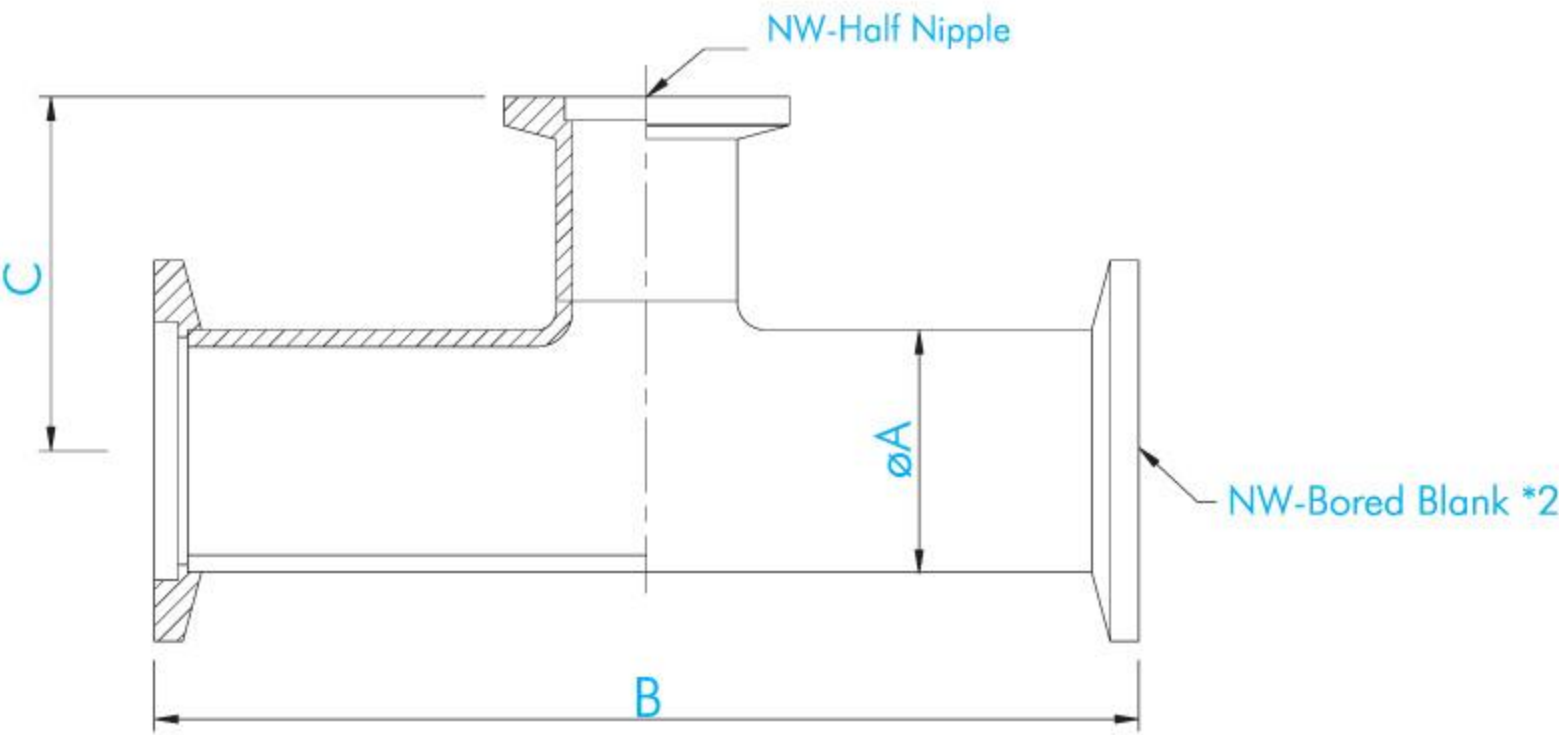
Model No.	A	B	Fit Bored Blank (CF)
E16-TCR	19.05	75	16
E35-TCR	38.1	125	35
E63-TCR	63.5	171.4	63
E100-TCR	101.6	219	100
E150-TCR	152.4	279.4	150

FITTING SERIES

7-11



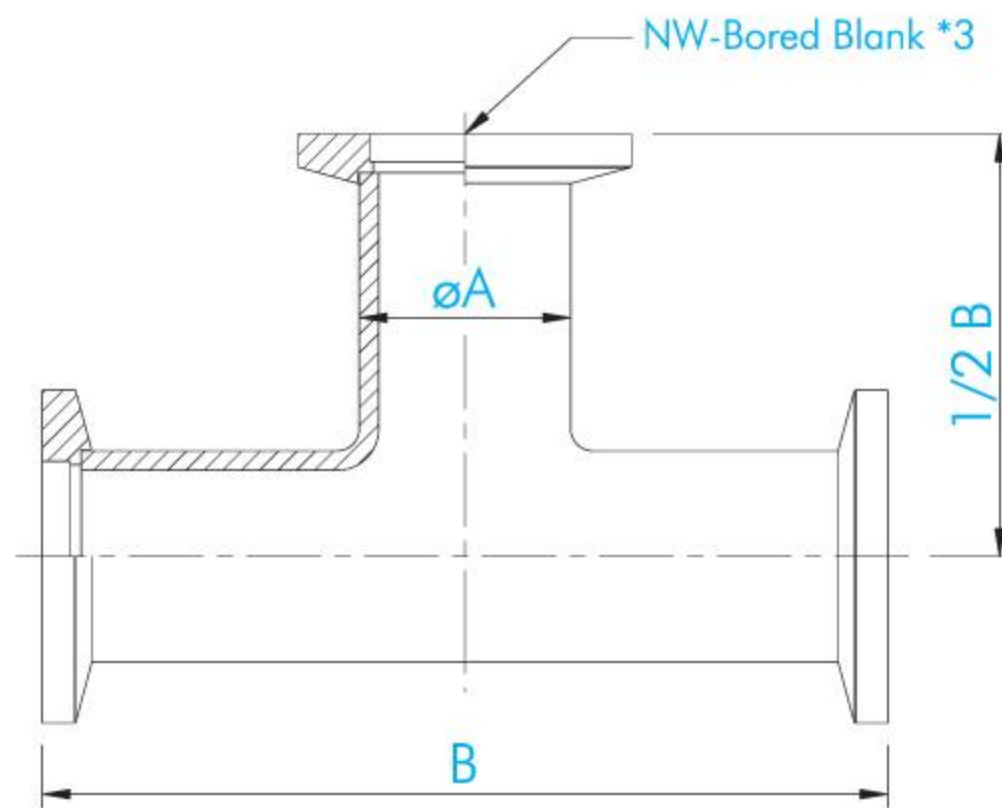
NW- Unequal Tees



- **Body**
Stainless Steel

Model No.	A	B	C	Fit Bored Blank (NW)	Fit Half Nipple (NW)
E25-16TNN	25.4	102.8	37.5	25	16
E40-16TNN	38.1	122	52	40	16
E40-25TNN	38.1	122	57.8	40	25
E50-16TNN	50.8	160	58.2	50	16
E50-25TNN	50.8	160	64.1	50	25
E50-40TNN	50.8	160	67.3	50	40

NW- Tees

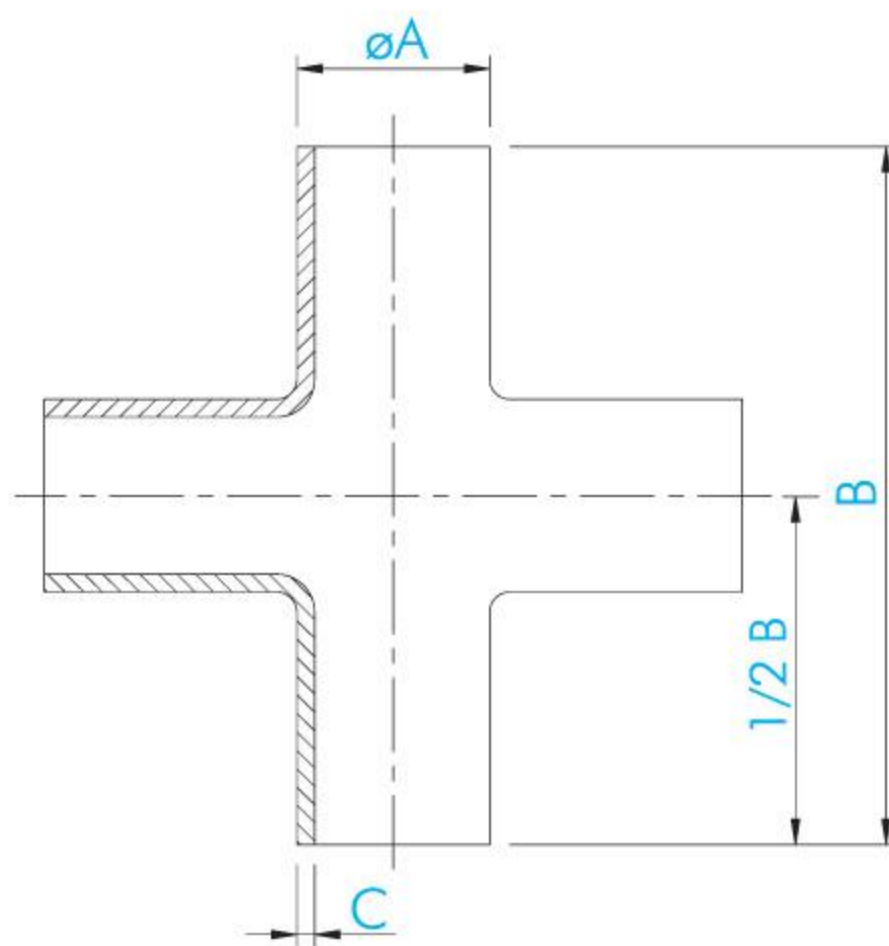


● Body Stainless Steel

Model No.	A	B	Fit Bored Blank (NW)
E16-TNN	19.05	76.2	16
E25-TNN	25.4	102.8	25
E40-TNN	38.1	122	40
E50-TNN	50.8	160	50

7-12

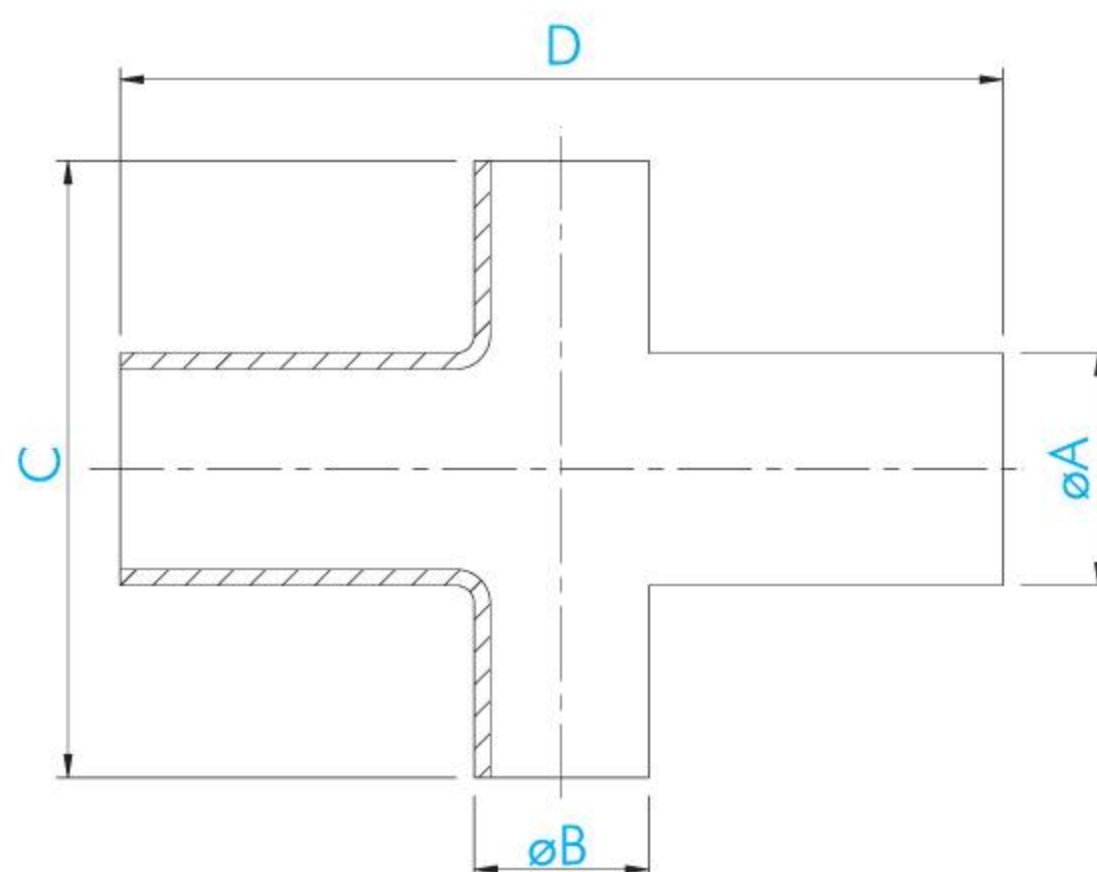
4- Way Crosses



● Body Stainless Steel

Model No.	A	B	C
E16-X	19.05	69	1.65
E25-X	25.4	95.2	1.65
E40-X	38.1	114.3	1.65
E50-X	50.8	152.4	1.65
E63-X	63.5	152.4	1.65
E80-X	76.2	165.1	1.65
E100-X	101.6	196.8	2
E150-X	152.4	254	2.7

Unequal 4- Way Crosses

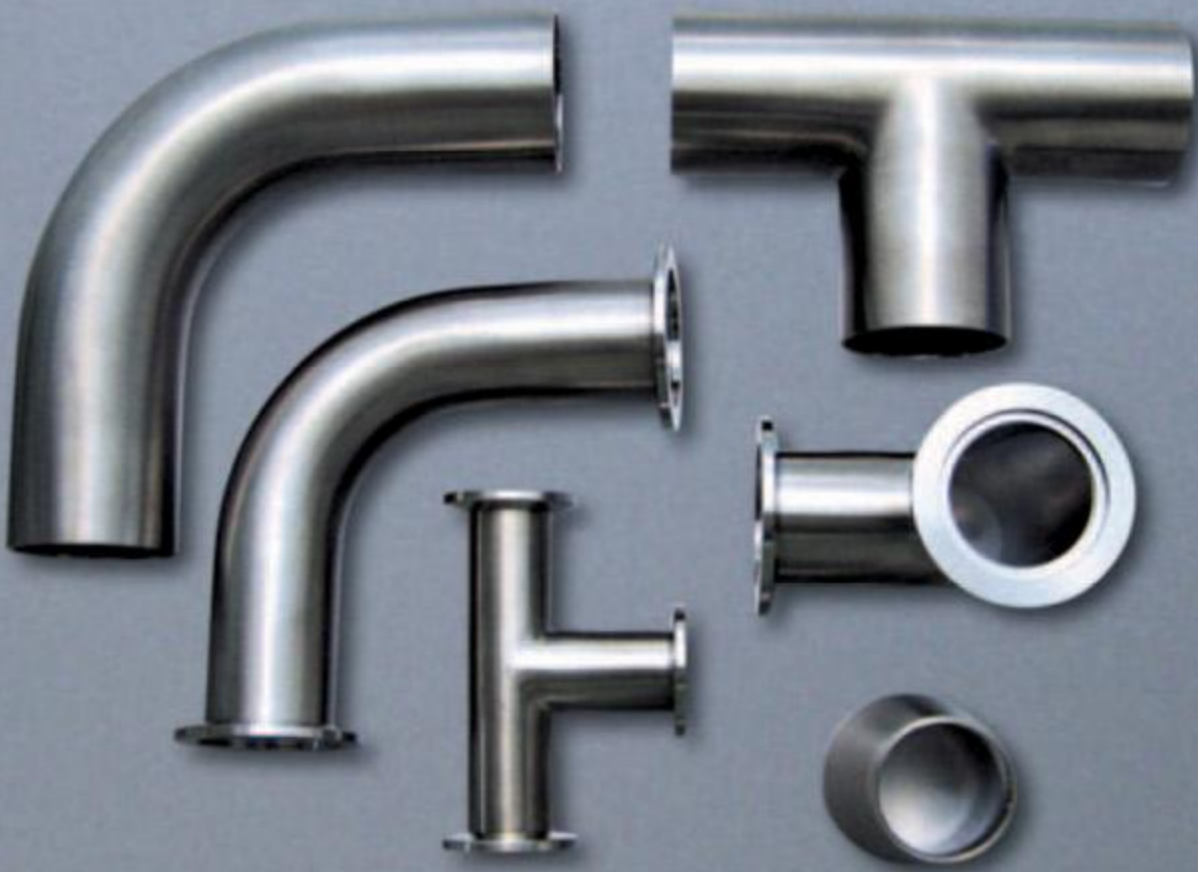


● Body Stainless Steel

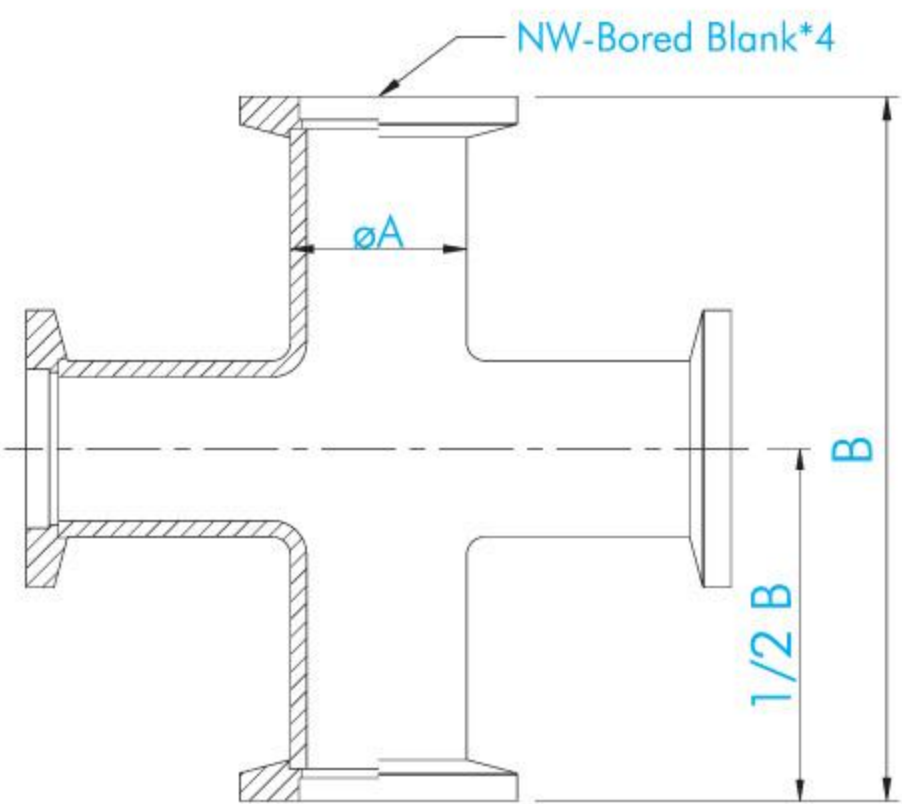
Model No.	A	B	C	D
E25-16-X	25.4	19.05	67.4	96.4
E40-16-X	38.1	19.05	96.4	114.3
E40-25-X	38.1	25.4	108	114.3
E50-16-X	50.8	19.05	108.8	152.4
E50-25-X	50.8	25.4	120.6	152.4
E50-40-X	50.8	38.1	127	152.4
E80-63-X	76.2	63.5	165	165
E100-50-X	101.6	50.8	203.2	196.8
E100-63-X	101.6	63.5	190.6	196.8
E100-80-X	101.6	76.2	190.6	196.8
E150-80-X	152.4	76.2	241.4	254
E150-100-X	152.4	101.6	247.6	254

FITTING SERIES

7-13



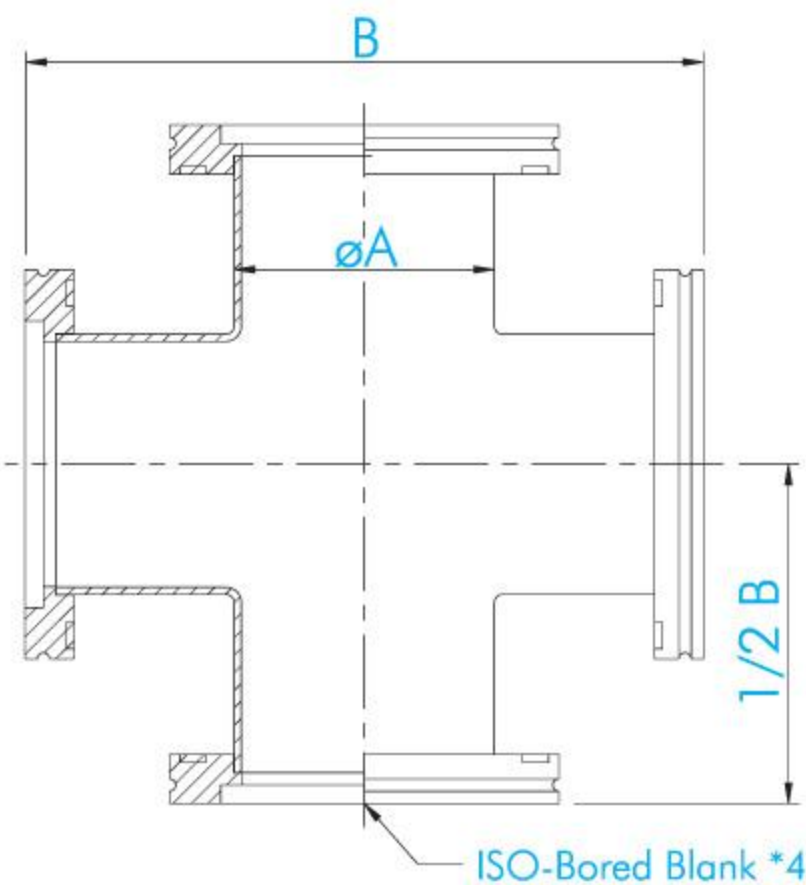
NW 4- Way Crosses



● **Body**
Stainless Steel

Model No.	A	B	Fit Bored B ank (NW)
E16-XNN	19.05	76.2	16
E25-XNN	25.4	102.8	25
E40-XNN	38.1	122	40
E50-XNN	50.8	160	50

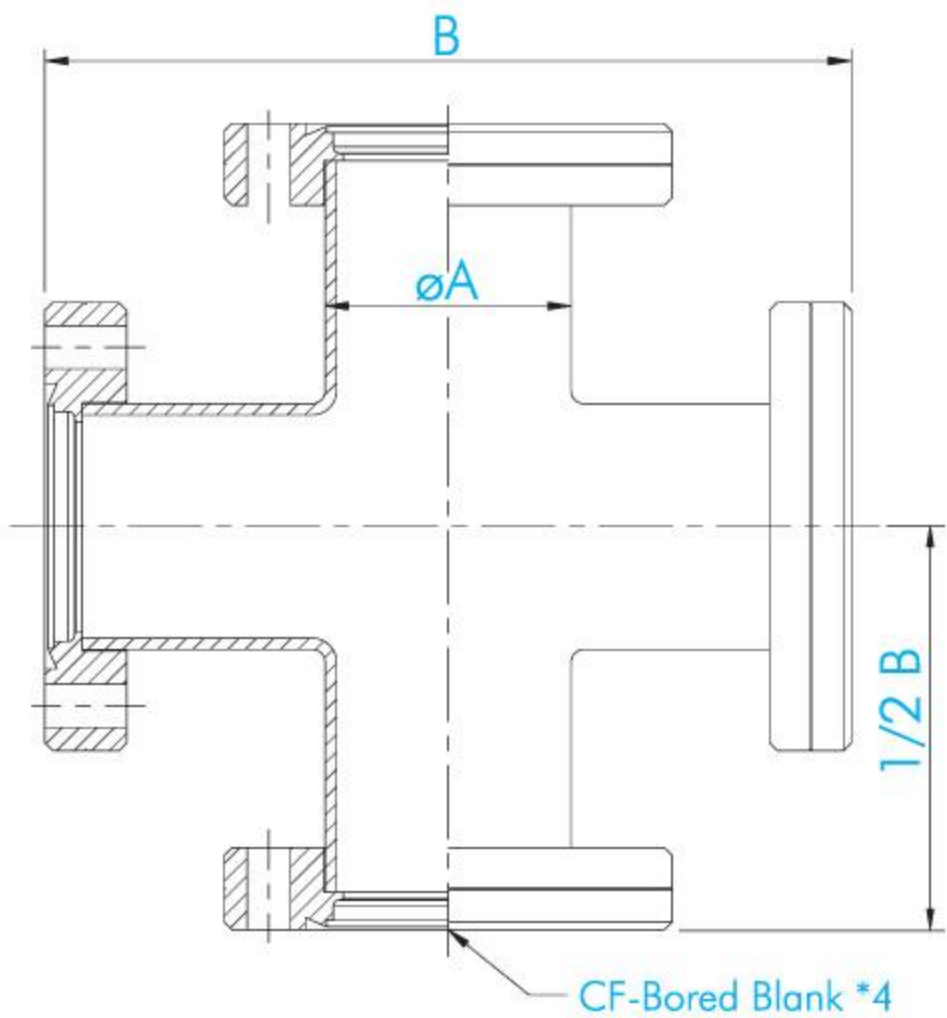
ISO 4- Way Crosses



● **Body**
Stainless Steel

Model No.	A	B	Fit Bored B ank (ISO)
E63-XII	63.5	165.6	63
E80-XII	76.2	178.3	80
E100-XII	101.6	210	100
E160-XII	152.4	267.2	160

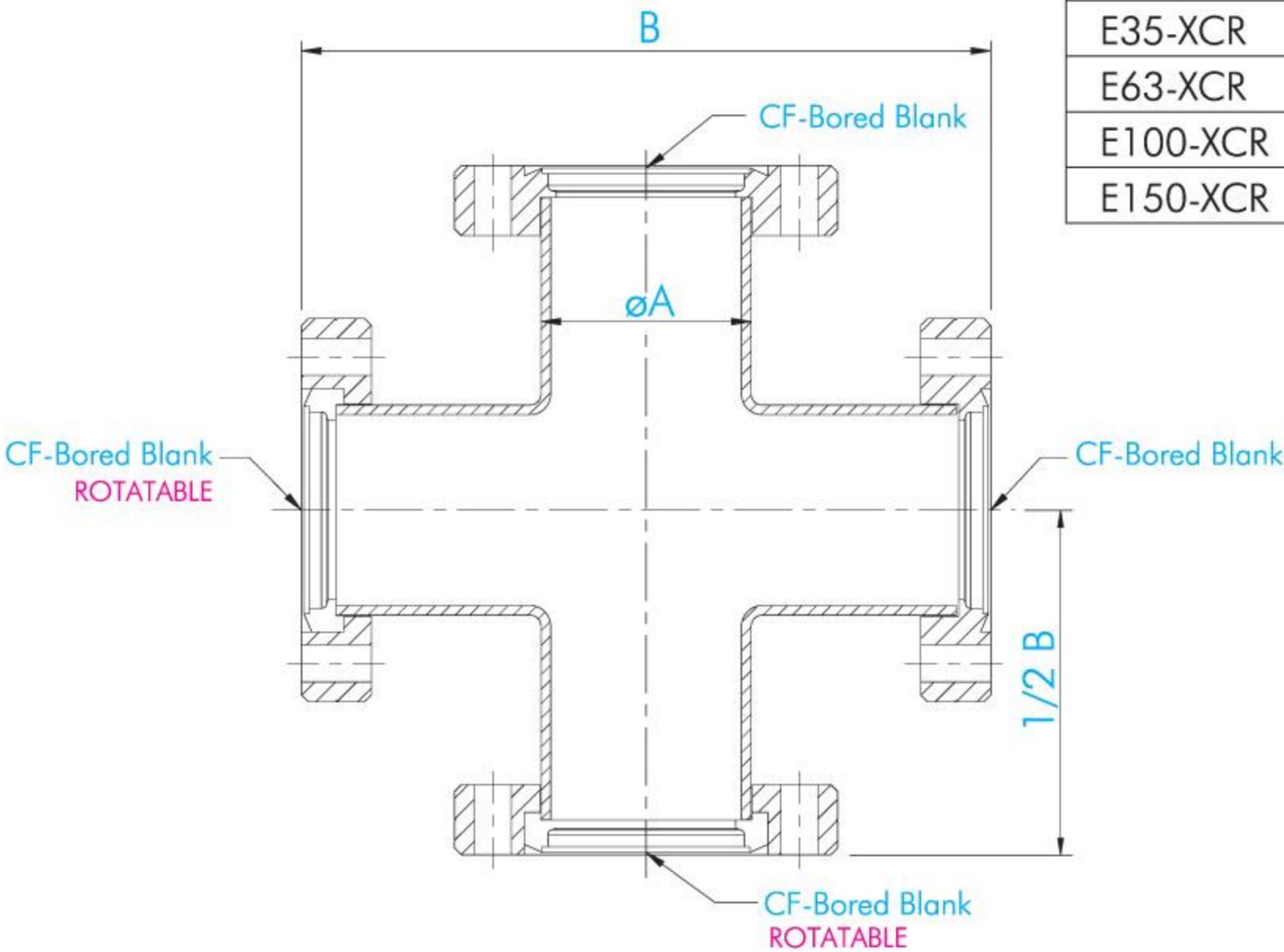
CF 4- Way Crosses-Fixed



● **Body**
Stainless Steel

Model No.	A	B	Fit Bored Blank (CF)
E16-XCC	19.05	75	16
E35-XCC	38.1	125	35
E63-XCC	63.5	171.4	63
E100-XCC	101.6	219	100
E150-XCC	152.4	279.4	150

CF 4- Way Crosses-2 Flanges Rotatable

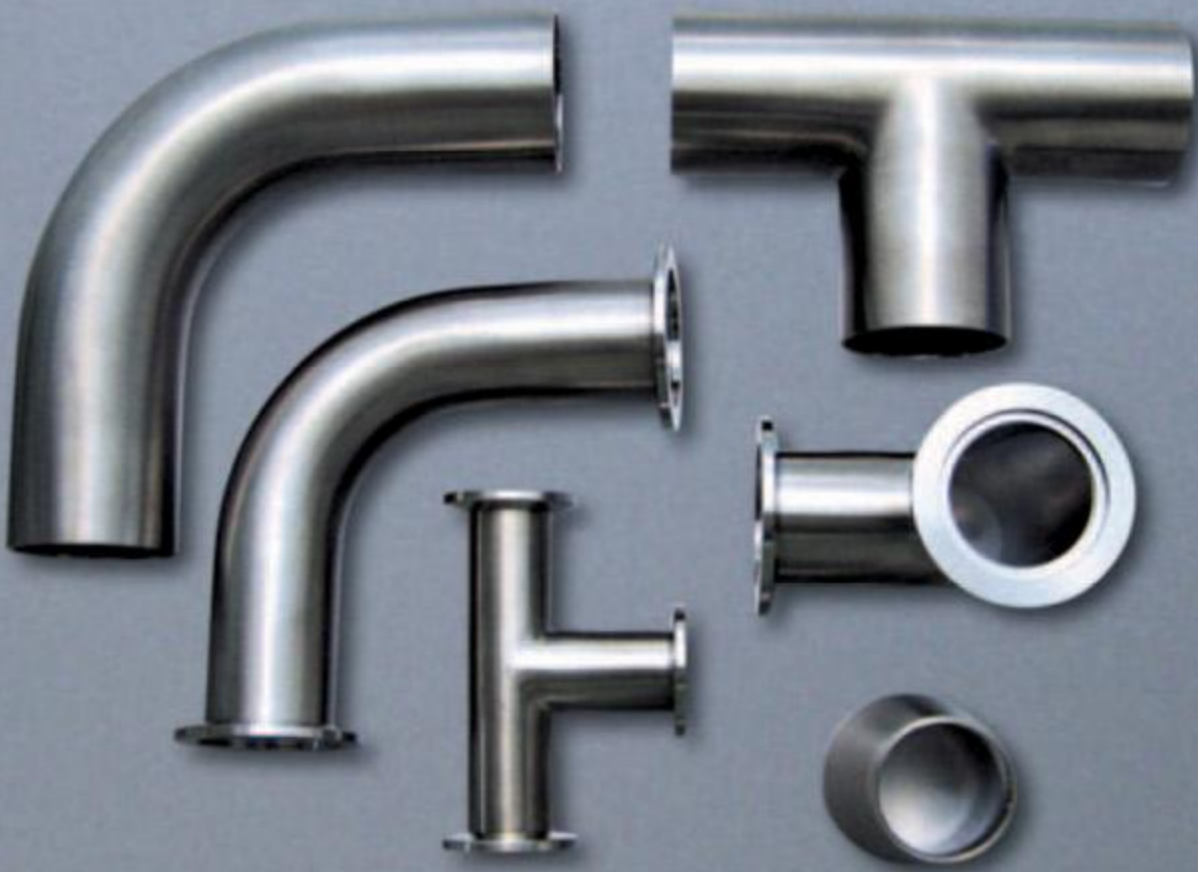


● **Body**
Stainless Steel

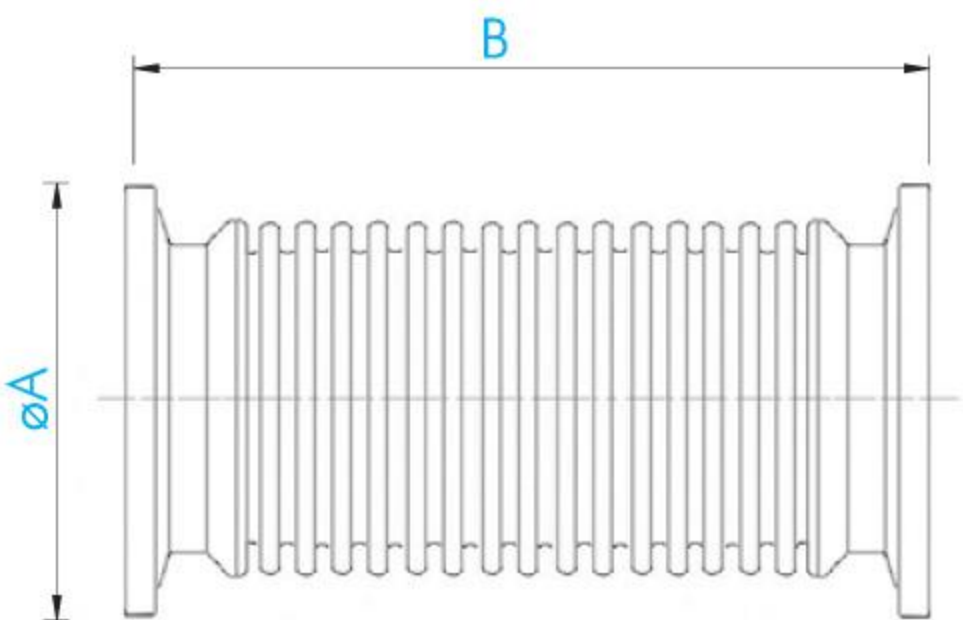
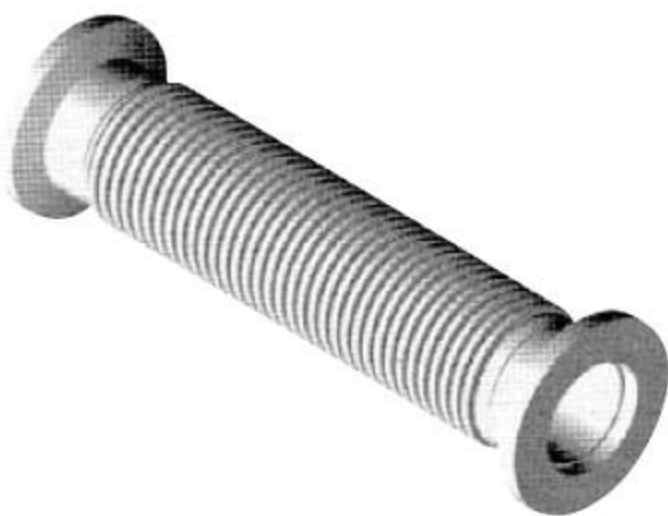
Model No.	A	B	Fit Bored Blank (CF)
E16-XCR	19.05	75	16
E35-XCR	38.1	125	35
E63-XCR	63.5	171.4	63
E100-XCR	101.6	219	100
E150-XCR	152.4	279.4	150

FITTING SERIES

7-15



NW Flexible Hoses

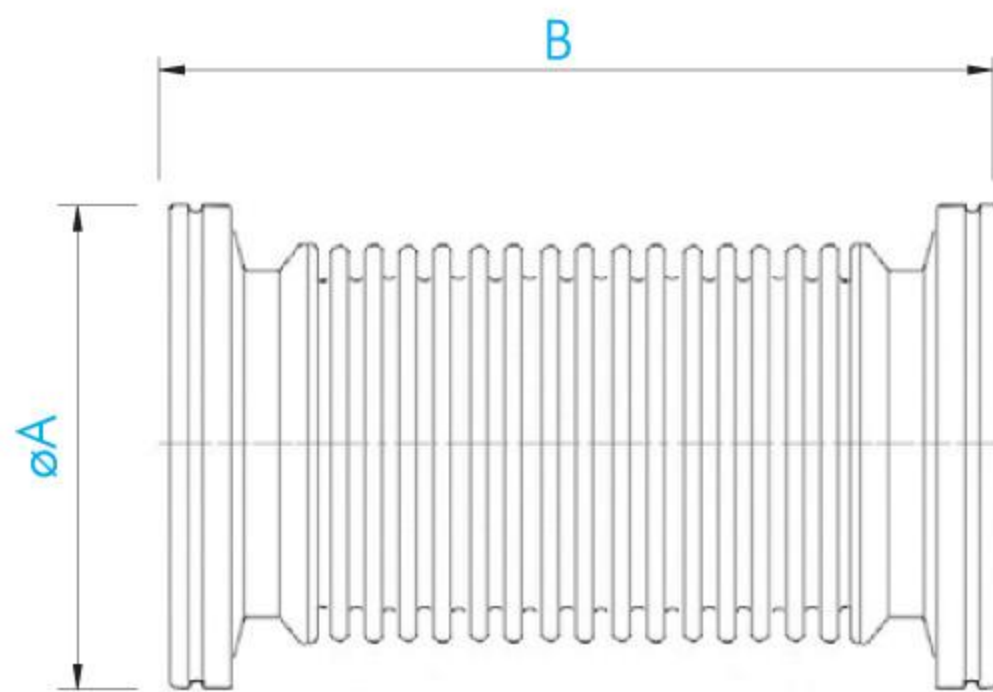


- **Body**
Stainless Steel

Model No.	A	B	Fit Flange (NW)
NW25-FXS	40	100	25
NW40-FXS	55	100	40
NW50-FXS	75	100	50

*Special length order is available.

ISO Flexible Hoses

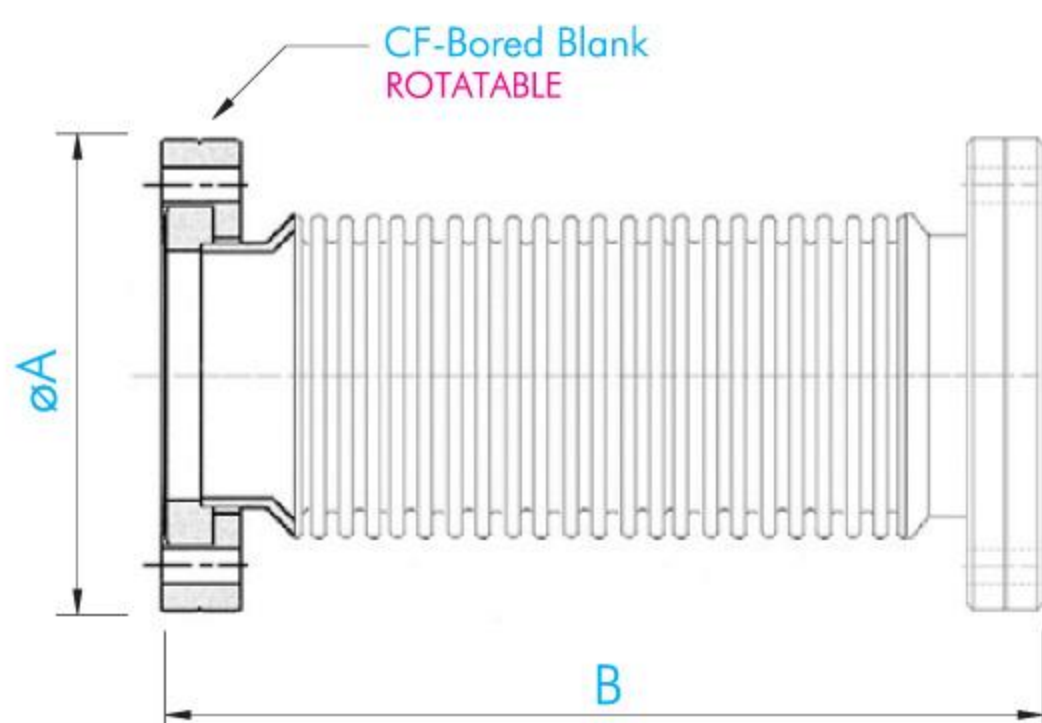


● Body Stainless Steel

Model No.	A	B	Fit Flange (ISO)
ISO63-FXS	95	180	63
ISO80-FXS	110	180	80
ISO100-FXS	130	180	100
ISO160-FXS	180	180	160

*Special length order is available.

CF Flexible Hoses-1 Flange Rotatable

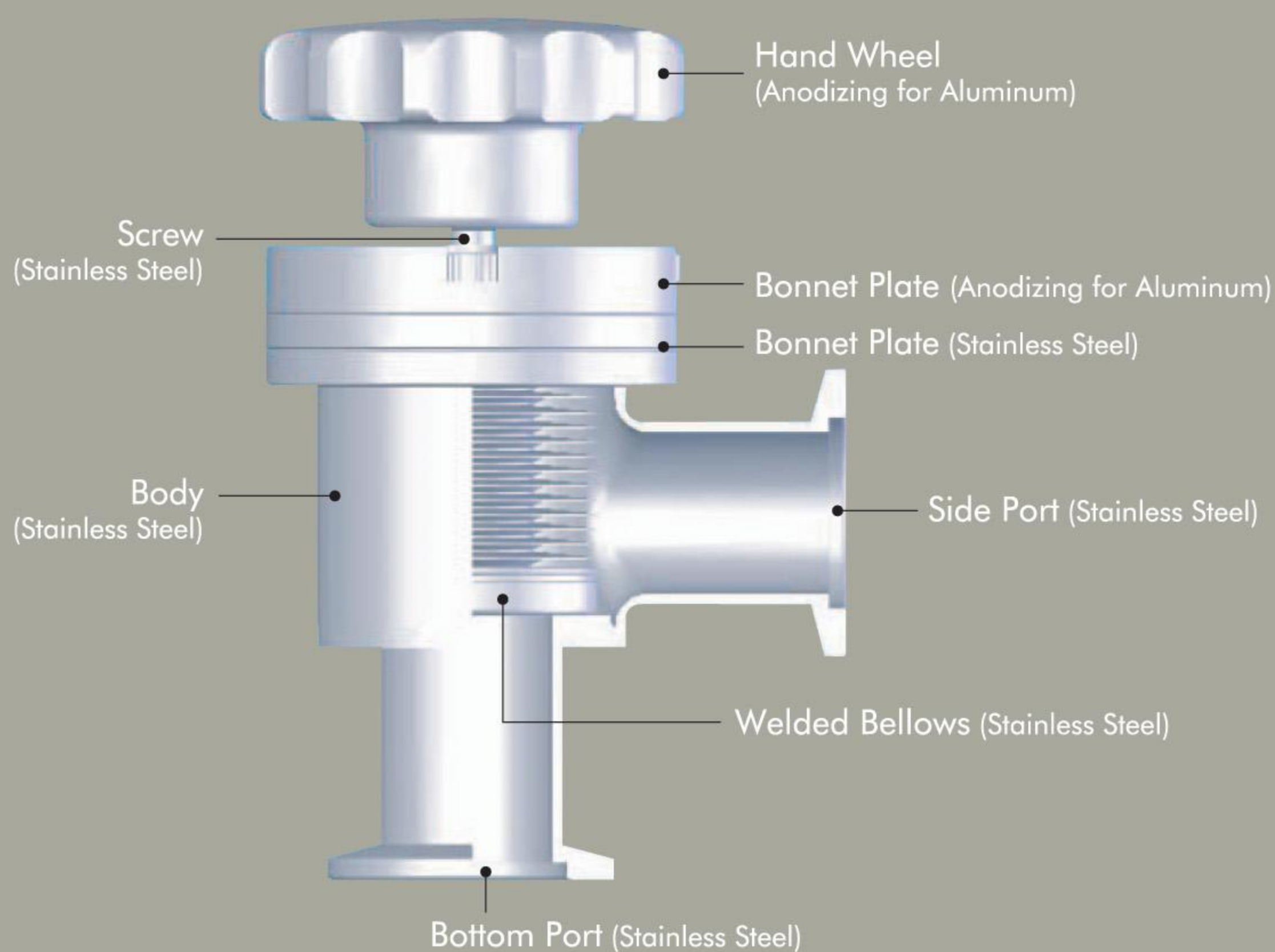


● Body Stainless Steel

Model No.	A	B	Fit Flange (CF)
CF35-FXS	69.5	180	35
CF63-FXS	113.6	180	63
CF100-FXS	151.6	180	100

*Special length order is available.

8 ANGLE VALVES



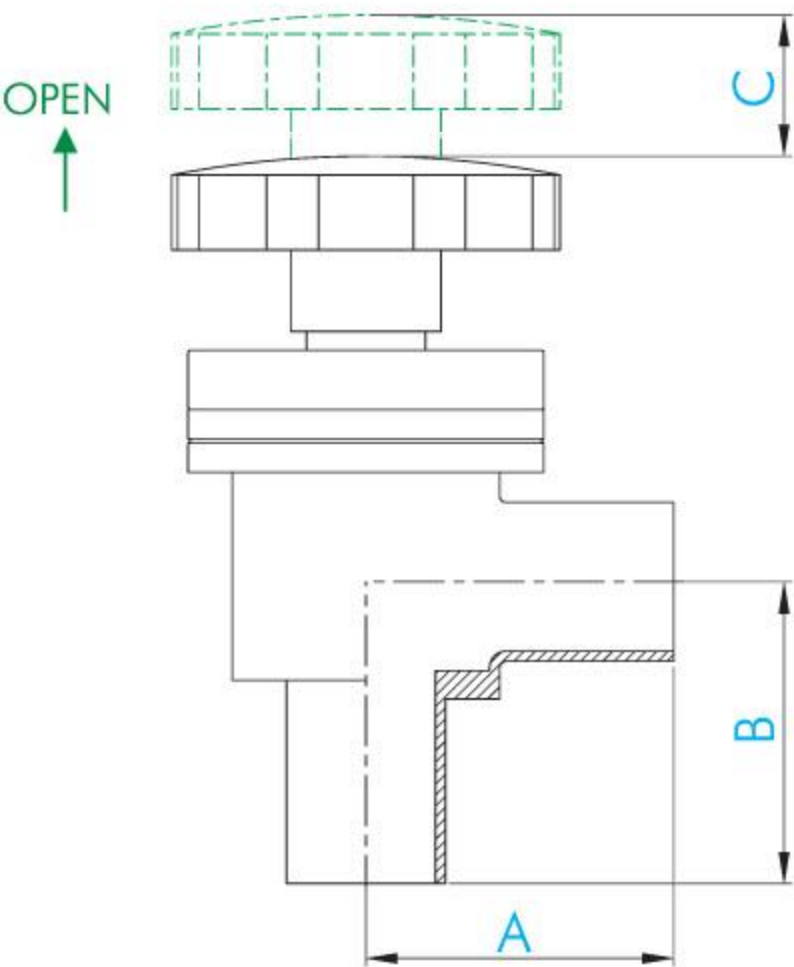
ANGLE VALVES

8-2



Angle Valves-Manual Operation

- **Body**
Stainless steel SUS 304 with metallic handle

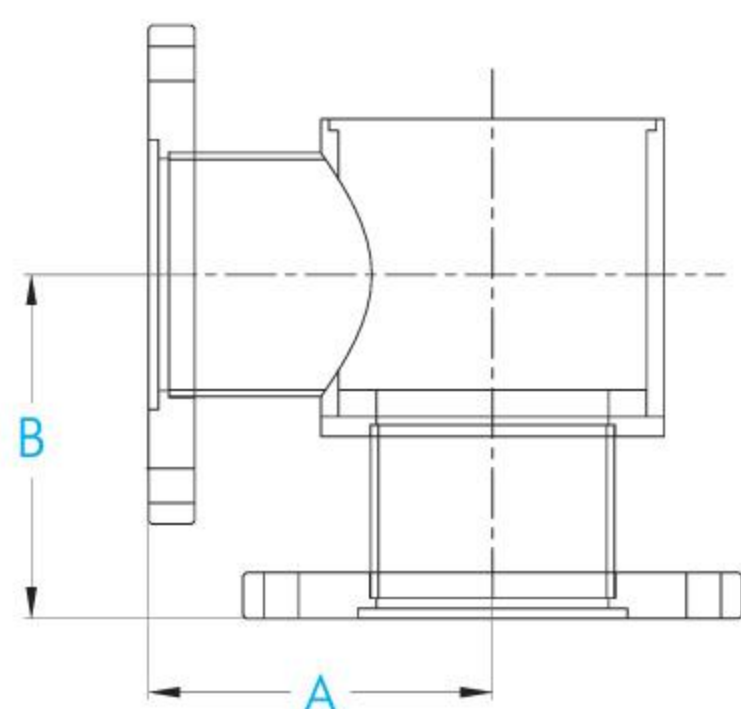


Tube End

Model No.	A	B	C
A16-AVM	40	40	25
A25-AVM	50	50	25
A40-AVM	65	65	30
A50-AVM	70	70	30
A63-AVM	88	88	35
A100-AVM	120	100	60

NW- Angle Valves-Manual Operation

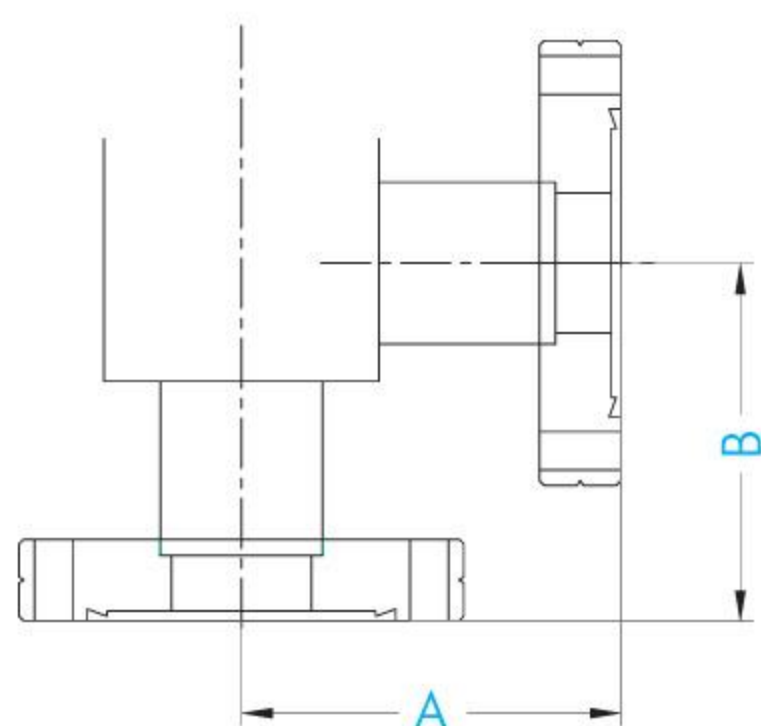
Model No.	A	B	C
NW16-AVM	44	44	25
NW25-AVM	54	54	25
NW40-AVM	69	69	30
NW50-AVM	75	75	30
NW63-AVM	98	98	35
NW100-AVM	130	110	60



- **Body**
Stainless steel SUS 304 with metallic handle

ISO- Angle Valves-Manual Operation

Model No.	A	B	C
ISO63-AVM	93	93	35
ISO100-AVM	125	105	60



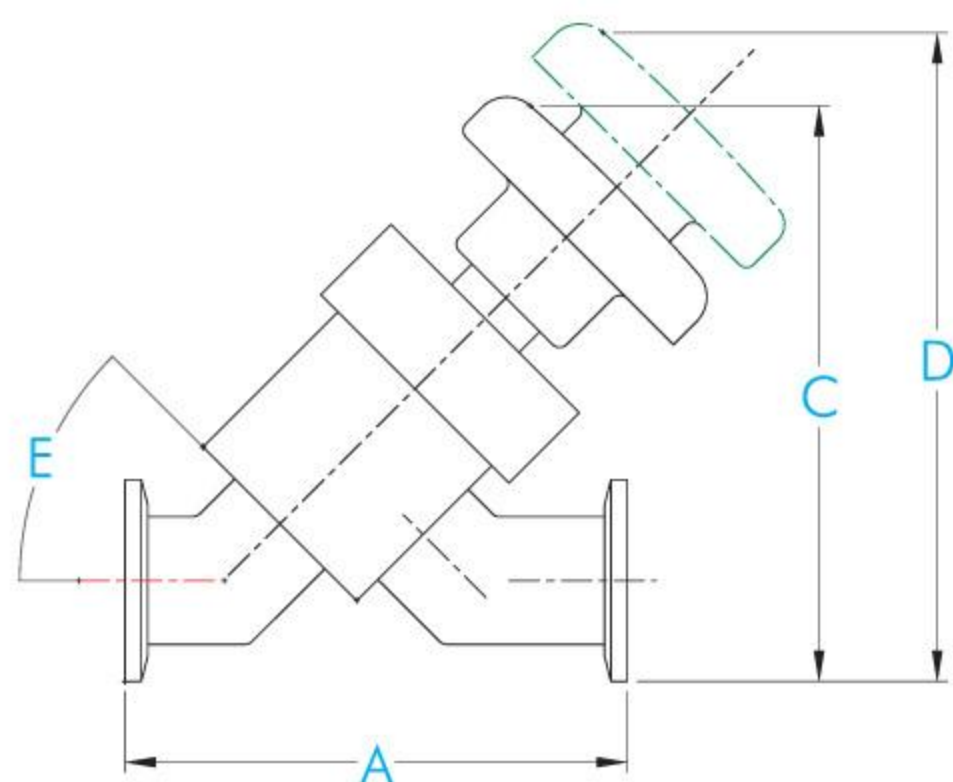
CF- Angle Valves-Manual Operation

Model No.	A	B	C
CF16-AVM	45	45	20
CF35-AVM	60	60	30
CF63-AVM	80	80	35
CF100-AVM	135	115	60

Rotatable

Model No.	A	B	C
CR35-AVM	60	60	30
CR63-AVM	80	80	35

Angle Valves-Manual Operation-45°



- **Body**
Stainless steel SUS 304 with metallic handle

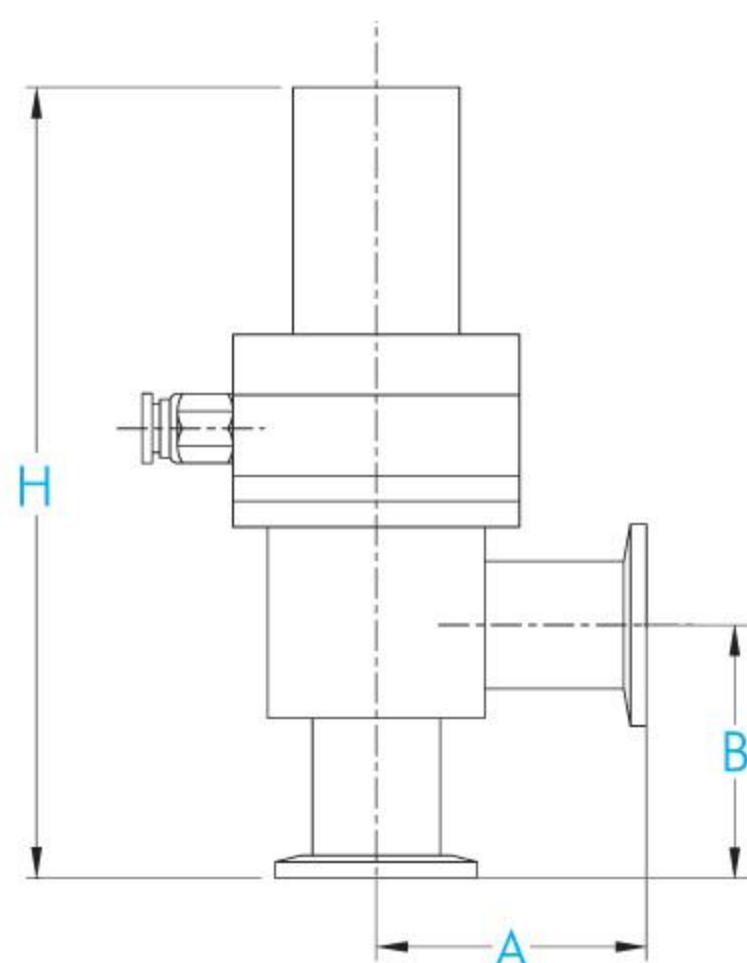
Model No.	A	C	D	E
NW16-4AM	95	106	123	45°
NW25-4AM	100	115	130	45°
NW40-4AM	130	146	167	45°
NW50-4AM	177.8	168	189	45°

ANGLE VALVES

8-4



Angle Valves-Automatic Operation

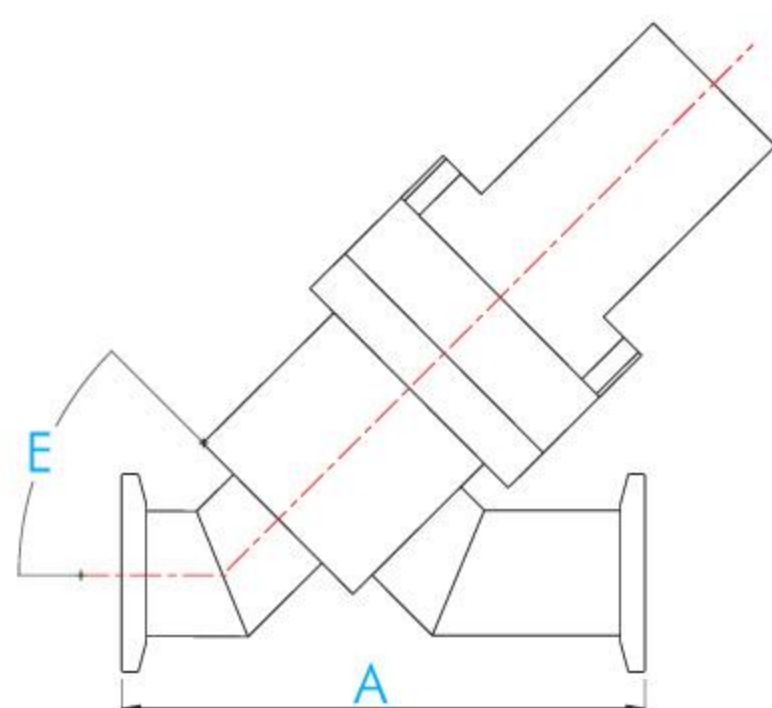


- **Body**
Stainless steel SUS 304

Model No.	A	B	H
NW16-AVA	40	40	155
NW25-AVA	50	50	168
NW40-AVA	65	65	220
NW50-AVA	72	72	237
NW63-AVA	88	88	252
NW100-AVA	105	105	295

Activation air pressure > 4kg/cm²

Angle Valves-Automatic Operation-45°



- **Body**
Stainless steel SUS 304

Model No.	A	E
NW16-4AA	95	45°
NW25-4AA	100	45°
NW40-4AA	130	45°
NW50-4AA	177.8	45°

Activation air pressure > 4kg/cm²