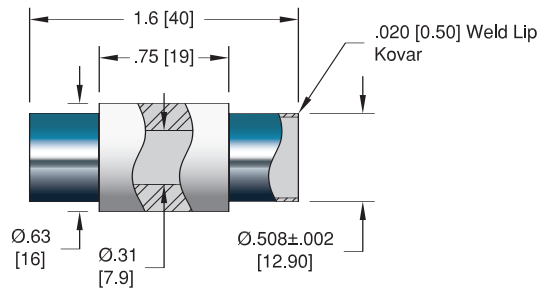
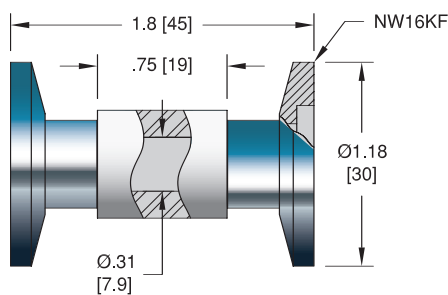
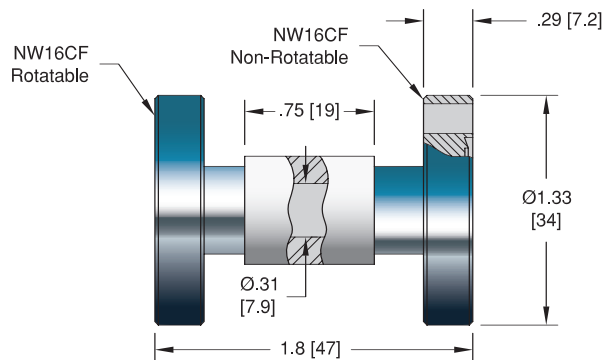
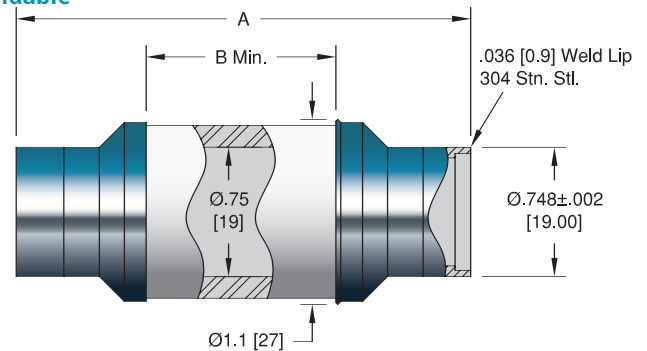
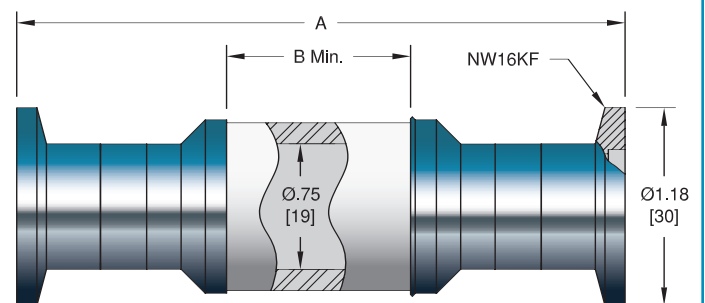
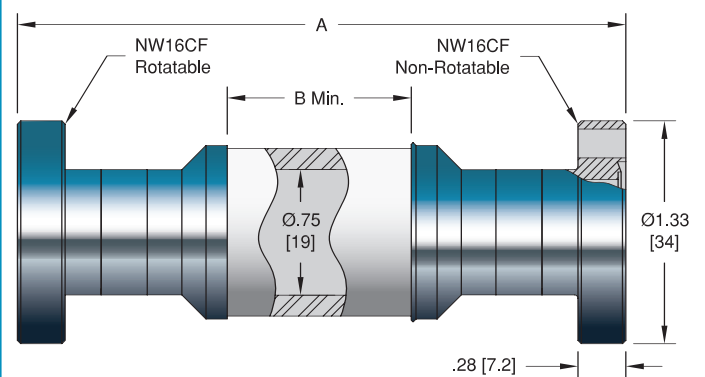


Insulator ID: .31 [7.9]**Weldable****ISO KF****ConFlat****Insulator ID: .75 [19]****Weldable****ISO KF****ConFlat****Specifications - Insulator ID: .31 [7.9]****Materials**

Tube: Kovar
 Insulation: Alumina ceramic
 Magnetic Materials: Yes

Voltage Rating 15 kV DC**Temperature Range** -55°C to 450°C, ISO KF -25°C to 205°C**Pressure @ 20°C** See table**Specifications - Insulator ID: .75 [19]****Materials**

Tube: Stainless steel
 Insulation: Alumina ceramic
 Magnetic Materials: See table

Voltage Rating See table**Temperature Range** See table**Pressure @ 20°C** See table



VOLTAGE DC	INSTALLATION	PRESSURE @ 20 °C		PART NUMBER
		PSIG	BAR	
15 kV	Weld	900	61	9997-05-W



ISO FLANGE				
15 kV	NW16KF	-	-	17235-01-KF



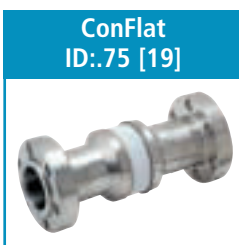
CONFLAT FLANGE				
15 kV	1 1/3" (NW16CF)	900	61	4511-01-CF



VOLTAGE DC	INSTALLATION	DIMENSIONS		PRESSURE @ 20 °C		TEMP °C		MAGNETIC MATERIALS	PART NUMBER
		A	B	PSIG	BAR	MIN	MAX		
6 kV	Weld	1.9 [48]	0.25 [6.3]	500	34	-55	450	Yes	9998-04-W
20 kV	Weld	2.6 [67]	1.0 [25]	500	34	-55	450	Yes	9998-01-W
35 kV	Weld	3.6 [92]	2.0 [51]	500	34	-55	450	Yes	9998-03-W
6 kV	Weld	1.9 [48]	0.25 [6.3]	350	24	-269	450	No	9998-06-W
20 kV	Weld	2.6 [67]	1.0 [25]	350	24	-269	450	No	9998-07-W
35 kV	Weld	3.6 [92]	2.0 [51]	350	24	-269	450	No	9998-08-W



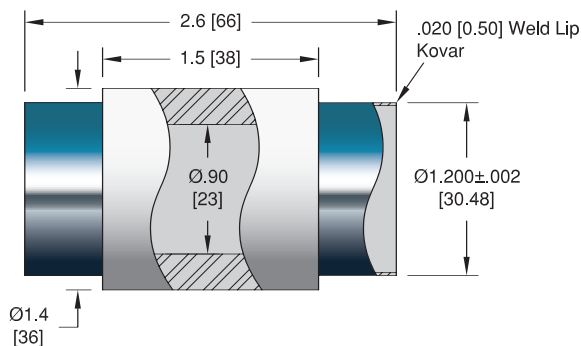
ISO FLANGE									
6 kV	NW16KF	2.9 [73]	0.25 [6.3]	-	-	-25	205	Yes	17236-01-KF
20 kV	NW16KF	3.6 [92]	1.0 [25]	-	-	-25	205	Yes	17236-02-KF
35 kV	NW16KF	4.6 [118]	2.0 [51]	-	-	-25	205	Yes	17236-03-KF
6 kV	NW16KF	2.9 [73]	0.25 [6.3]	-	-	-25	205	No	17236-04-KF
20 kV	NW16KF	3.6 [92]	1.0 [25]	-	-	-25	205	No	17236-05-KF
35 kV	NW16KF	4.6 [118]	2.0 [51]	-	-	-25	205	No	17236-06-KF



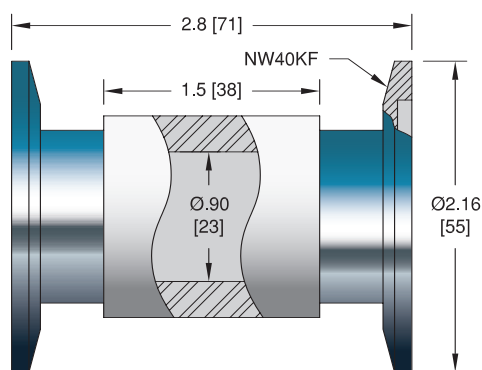
CONFLAT FLANGE									
6 kV	1 1/3" (NW16CF)	2.9 [73]	0.25 [6.3]	500	34	-55	450	Yes	8000-04-CF
20 kV	1 1/3" (NW16CF)	3.6 [92]	1.0 [25]	500	34	-55	450	Yes	8000-02-CF
35 kV	1 1/3" (NW16CF)	4.6 [118]	2.0 [51]	500	34	-55	450	Yes	8000-03-CF
6 kV	1 1/3" (NW16CF)	2.9 [73]	0.25 [6.3]	350	24	-269	450	No	8000-06-CF
20 kV	1 1/3" (NW16CF)	3.6 [92]	1.0 [25]	350	24	-269	450	No	8000-07-CF
35 kV	1 1/3" (NW16CF)	4.6 [118]	2.0 [51]	350	24	-269	450	No	8000-08-CF

Insulator ID: .90 [23]

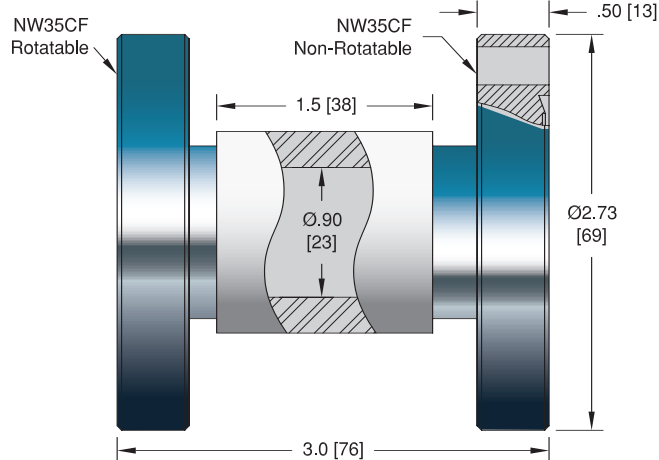
Weldable



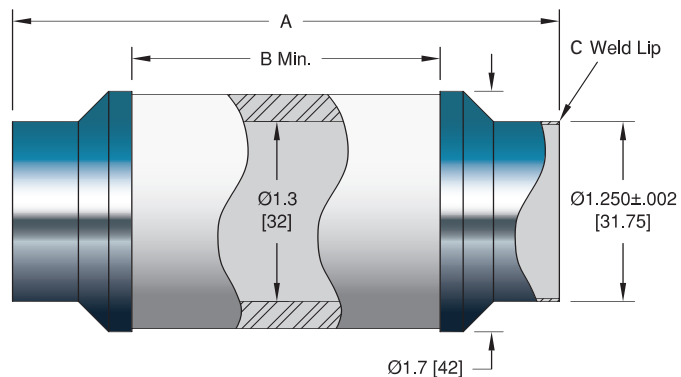
ISO KF



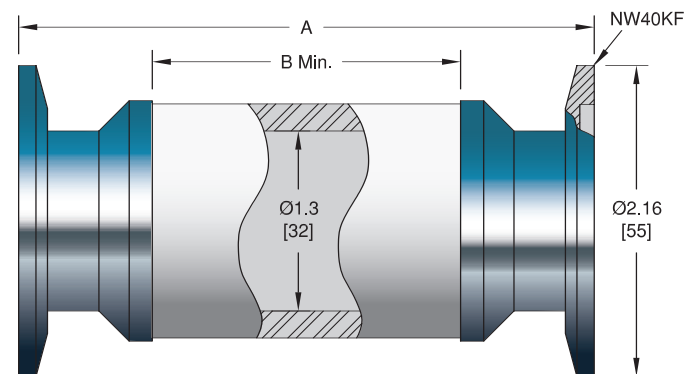
ConFlat

**Insulator ID: 1.3 [32]**

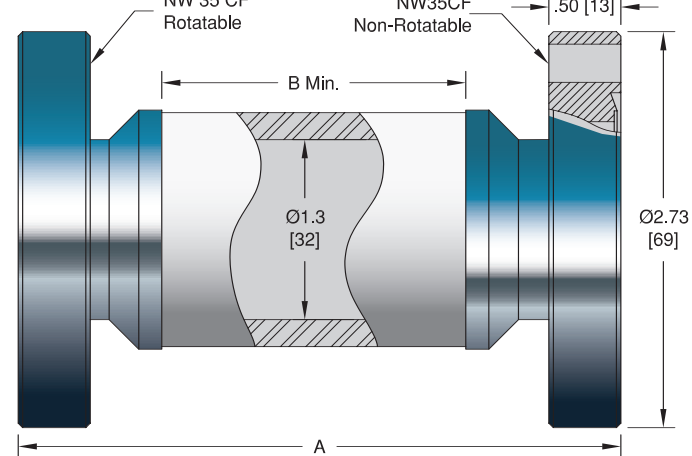
Weldable



ISO KF



ConFlat

**Specifications - Insulator ID: .90 [23]****Materials**

Tube: Kovar
 Insulation: Alumina ceramic
 Magnetic Materials: Yes

Voltage Rating 30 kV DC**Temperature Range** -55°C to 450°C, ISO KF -25°C to 205°C**Pressure @ 20°C** See table**Specifications - Insulator ID: 1.3 [32]****Materials**

Tube: Kovar or 304 stainless steel
 Insulation: Alumina ceramic
 Magnetic Materials: See table

Voltage Rating See table**Temperature Range** See table**Pressure @ 20°C** See table

**Weldable
ID: .90 [23]**



VOLTAGE DC	INSTALLATION	PRESSURE @ 20 °C PSIG BAR		PART NUMBER
30 kV	Weld	360	24	9997-09-W

**ISO KF
ID: .90 [23]**



ISO FLANGE

30 kV	NW40KF	-	-	17237-01-KF
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**ConFlat
ID: .90 [23]**



CONFLAT FLANGE

30 kV	2 3/4" (NW35CF)	360	24	4511-02-CF
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**Weldable
ID: 1.3 [32]**



VOLTAGE DC	INSTALLATION	DIMENSIONS			PRESSURE @ 20 °C		TEMP °C		MAGNETIC MATERIALS	PART NUMBER	
		A	B	C	PSIG	BAR	MIN	MAX			
5 kV	Weld	1.9 [49]	0.6 [4.0]	.020 [0.50]	Kovar	350	24	-55	450	Yes	9999-03-W
35 kV	Weld	3.8 [96]	2.0 [50]	.020 [0.50]	Kovar	350	24	-55	450	Yes	9999-01-W
65 kV	Weld	5.7 [144]	3.9 [99]	.020 [0.50]	Kovar	350	24	-55	450	Yes	9999-04-W
5 kV	Weld	1.9 [49]	0.6 [4.0]	.035 [0.90]	Stn.Stl.	250	17	-269	450	No	17199-01-W
35 kV	Weld	3.8 [96]	2.0 [50]	.035 [0.90]	Stn.Stl.	250	17	-269	450	No	17199-02-W
65 kV	Weld	5.7 [144]	3.9 [99]	.035 [0.90]	Stn.Stl.	250	17	-269	450	No	17199-03-W

**ISO KF
ID: 1.3 [32]**



ISO FLANGE

5 kV	NW40KF	2.1 [54]	0.16 [4.0]	-	-	-	-25	205	Yes	17238-01-KF
35 kV	NW40KF	4.0 [101]	2.0 [50]	-	-	-	-25	205	Yes	17238-02-KF
65 kV	NW40KF	5.9 [149]	3.9 [99]	-	-	-	-25	205	Yes	17238-03-KF
5 kV	NW40KF	2.1 [54]	0.16 [4.0]	-	-	-	-25	205	No	17238-04-KF
35 kV	NW40KF	4.0 [101]	2.0 [50]	-	-	-	-25	205	No	17238-05-KF
65 kV	NW40KF	5.9 [149]	3.9 [99]	-	-	-	-25	205	No	17238-06-KF

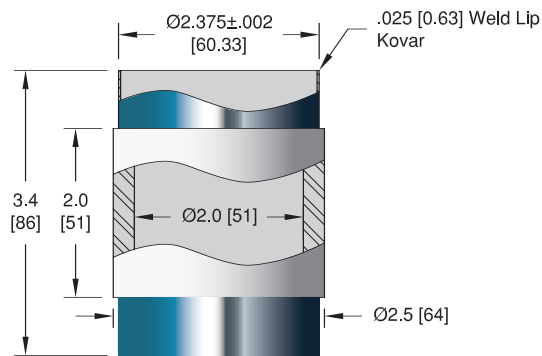
**ConFlat
ID: 1.3 [32]**



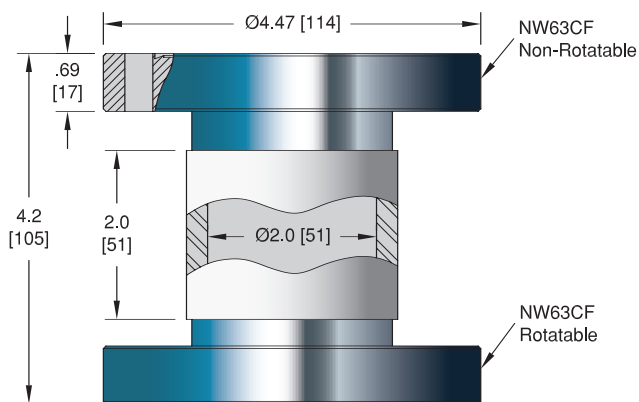
CONFLAT FLANGE

5 kV	2 3/4"(NW35CF)	2.3 [59]	0.16 [4.0]	-	350	24	-55	450	Yes	8001-03-CF
35 kV	2 3/4"(NW35CF)	4.2 [107]	2.0 [50]	-	350	24	-55	450	Yes	8001-02-CF
65 kV	2 3/4"(NW35CF)	6.1 [155]	3.9 [99]	-	350	24	-55	450	Yes	8001-04-CF
5 kV	2 3/4"(NW35CF)	2.3 [59]	0.16 [4.0]	-	250	17	-269	450	No	8001-06-CF
35 kV	2 3/4"(NW35CF)	4.2 [107]	2.0 [50]	-	250	17	-269	450	No	8001-07-CF
65 kV	2 3/4"(NW35CF)	6.1 [155]	3.9 [99]	-	250	17	-269	450	No	8001-08-CF

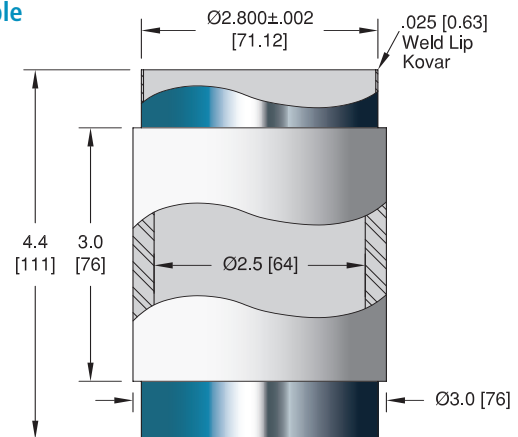
Insulator ID: 2.0 [51] Weldable



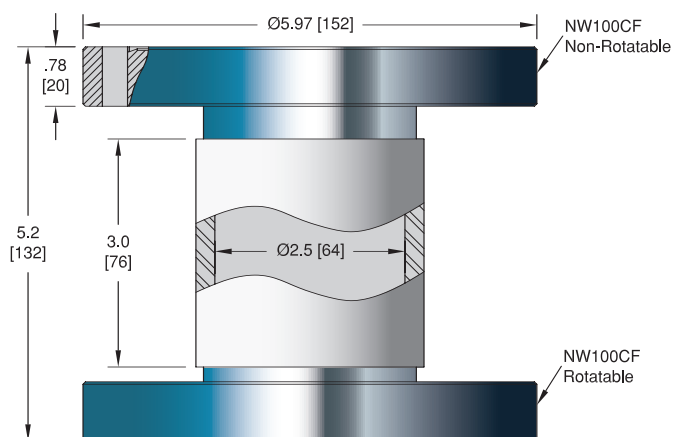
ConFlat



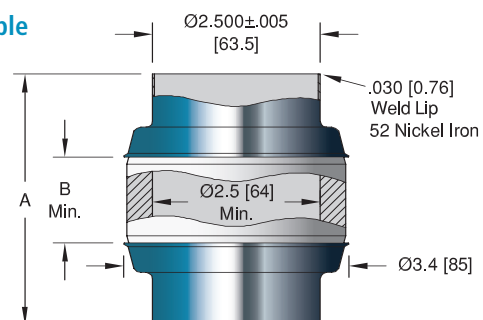
Insulator ID: 2.5 [64] Weldable



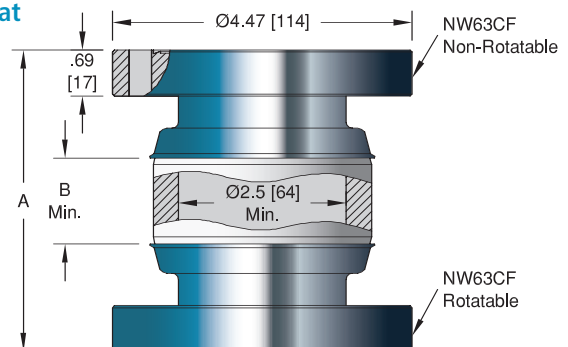
ConFlat



Weldable



ConFlat



Specifications - Insulator ID: 2.0 [51]

Materials

Tube: Kovar
Insulation: Alumina ceramic
Magnetic Materials: Yes

Voltage Rating 40 kV DC

Temperature Range -55°C to 450°C

Pressure @ 20°C 180 PSIG (12 Bar)

Specifications - Insulator ID: 2.5 [64]

Materials

Tube: Kovar or 52 Nickel iron
Insulation: Alumina ceramic
Magnetic Materials: Yes

Voltage Rating See table

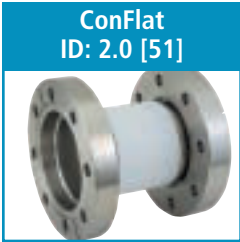
Temperature Range See table

Pressure @ 20°C See table



VOLTAGE DC	INSTALLATION
40 kV	Weld

PART NUMBER
9997-21-W

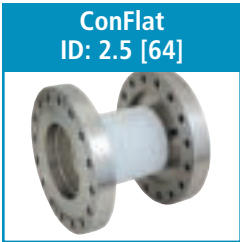


CONFLAT FLANGE		
VOLTAGE DC	INSTALLATION	PART NUMBER
40 kV	4 1/2" (NW63CF)	4511-03-CF



VOLTAGE DC	INSTALLATION	PRESSURE @ 20 °C		TEMP °C		PART NUMBER
		PSIG	BAR	MIN	MAX	
60 kV	Weld	150	10	-55	450	9997-25-W

PART NUMBER
9997-25-W

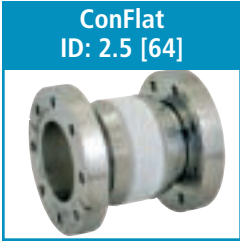


CONFLAT FLANGE		
VOLTAGE DC	INSTALLATION	PART NUMBER
60 kV	6" (NW100CF)	4511-05-CF



VOLTAGE DC	INSTALLATION	DIMENSIONS		PRESSURE @ 20 °C		TEMP °C		PART NUMBER
		A	B	PSIG	BAR	MIN	MAX	
20 kV	Weld	3.7 [95]	0.90 [22.8]	80	5	-269	450	17140-01-W
60 kV	Weld	6.5 [165]	3.65 [92.7]	80	5	-269	450	17140-02-W

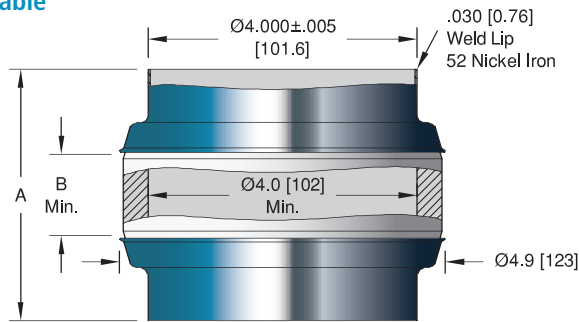
PART NUMBER
17140-01-W
17140-02-W



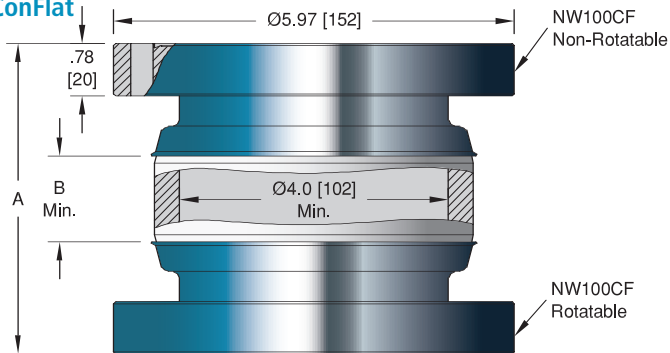
CONFLAT FLANGE								
VOLTAGE DC	INSTALLATION	DIMENSIONS A	DIMENSIONS B	PRESSURE @ 20 °C PSIG	PRESSURE @ 20 °C BAR	TEMP °C MIN	TEMP °C MAX	PART NUMBER
20 kV	4 1/2" (NW63CF)	4.5 [114]	0.90 [22.8]	80	5	-269	450	17144-01-CF
60 kV	4 1/2" (NW63CF)	7.3 [184]	3.65 [92.7]	80	5	-269	450	17144-02-CF

PART NUMBER
17144-01-CF
17144-02-CF

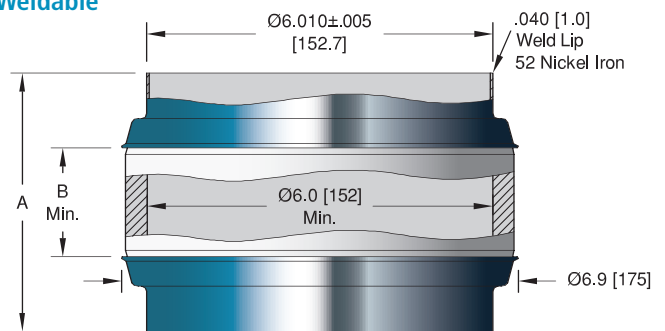
Insulator ID: 4.0 [102] Weldable



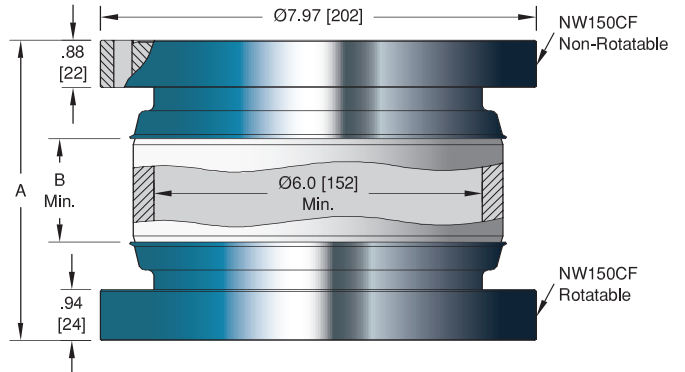
ConFlat



Insulator ID: 6.0 [152] Weldable



ConFlat



Specifications

Materials

Tube: 52 Nickel iron
Insulation: Alumina ceramic
Magnetic Materials: Yes

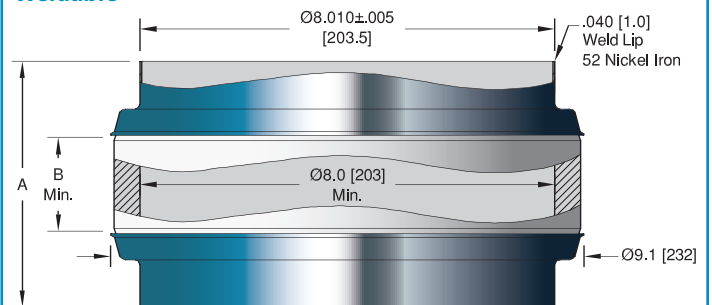
Voltage Rating See table

Temperature Range -269°C to 450°C

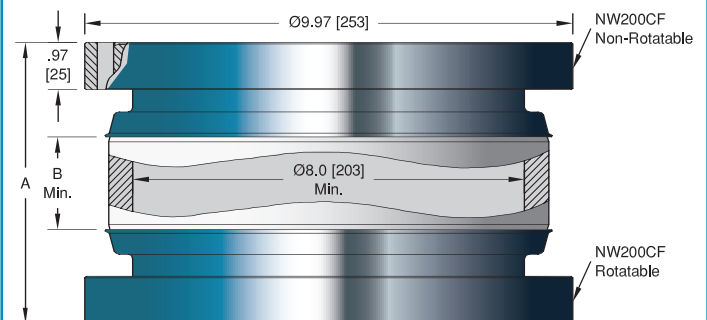
Pressure @ 20°C

Insulator ID: 4.0 [102] – 60 PSIG (4 Bar)
Insulator ID: 6.0 [152] – 40 PSIG (2.7 Bar)
Insulator ID: 8.0 [203] – 30 PSIG (2 Bar)

Insulator ID: 8.0 [203] Weldable

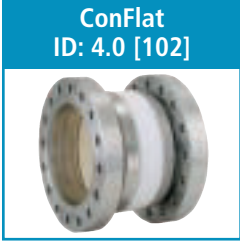


ConFlat





VOLTAGE DC	INSTALLATION	DIMENSIONS		PART NUMBER
		A	B	
20 kV	Weld	3.7 [95]	0.90 [22.8]	17141-01-W
60 kV	Weld	6.5 [165]	3.65 [92.7]	17141-02-W



CONFLAT FLANGE

20 kV	6" (NW100CF)	4.6 [117]	0.90 [22.8]	17145-01-CF
60 kV	6" (NW100CF)	7.4 [187]	3.65 [92.7]	17145-02-CF



VOLTAGE DC	INSTALLATION	DIMENSIONS		PART NUMBER
		A	B	
30 kV	Weld	4.5 [114]	1.5 [38]	17142-01-W
55 kV	Weld	6.0 [152]	3.0 [76]	17142-02-W
75 kV	Weld	7.5 [191]	4.5 [114]	17142-03-W



CONFLAT FLANGE

30 kV	8" (NW150CF)	5.5 [140]	1.5 [38]	17146-01-CF
55 kV	8" (NW150CF)	7.0 [178]	3.0 [76]	17146-02-CF
75 kV	8" (NW150CF)	8.5 [216]	4.5 [114]	17146-03-CF



VOLTAGE DC	INSTALLATION	DIMENSIONS		PART NUMBER
		A	B	
30 kV	Weld	4.75 [121]	1.5 [38]	17143-01-W
55 kV	Weld	6.25 [159]	3.0 [76]	17143-02-W
75 kV	Weld	7.75 [197]	4.5 [114]	17143-03-W



CONFLAT FLANGE

30 kV	10" (NW200CF)	5.8 [146]	1.5 [38]	17147-01-CF
55 kV	10" (NW200CF)	7.3 [184]	3.0 [76]	17147-02-CF
75 kV	10" (NW200CF)	8.8 [222]	4.5 [114]	17147-03-CF