



AGILENT VACUUM COMPONENTS

The Measure of Confidence



Agilent Technologies

FLANGES

Agilent Vacuum Flanges and Fittings

- Superior Quality Construction
- High Reliability
- Immediate Delivery



ConFlat Flanges & Fittings

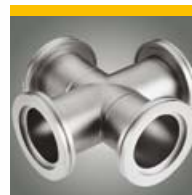
Agilent's ConFlat Flanges have set the industry standard for vacuum flange performance. These flanges are available in rotatable and non-rotatable models, and in sizes from 1.33 in. to 13.25 in. OD.

Agilent utilizes unique manufacturing processes and techniques to ensure leak-free performance in ConFlat Flanges. Our unbending commitment to quality assures you of trouble-free vacuum performance of the Agilent ConFlat Flange.



Klamp Flanges & Fittings

Designed in accordance with ISO standards the Agilent KF flange can be used in a variety of applications from atmospheric pressure to high vacuum. The KF flange is manufactured from 304 stainless steel and has a leak rate less than 1E^{-9} std cc/sec and can be baked to 150 °C when using a Viton O-Ring.



ISO Flanges & Fittings

ISO flanges and fittings are designed for applications requiring frequent disassembly and where tubing requirements generally exceed 2 in. OD. All ISO flanges and fittings listed are made of 304L stainless steel. These flanges can be used in a variety of applications from atmospheric to E^{-8} Torr. They can sustain a bakeout temperature of 150 °C when using Viton o-rings.



Feedthroughs

Rotary motion feedthrough.
High voltage feedthrough.



Supplies

Greases and lubricants.
Diffusion and mechanical pump fluids.

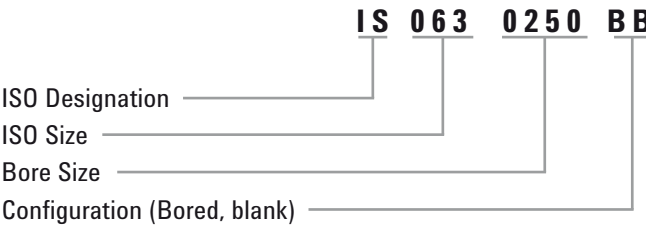
ISO FLANGES & FITTINGS

Agilent’s introduction of its extensive offering in vacuum flanges and fittings features an intuitive part numbering format. These part numbering format allows the customer to identify the product by the characters contained within the part number.

Depending on the product, the number and format of the characters in the part number will vary.

Please see examples below:

ISO Flange Example



ISO 80 to 63



VACUUM COMPONENTS

ISO flanges and fittings are designed for applications requiring frequent disassembly and where tubing requirements generally exceed 2 in. OD. All ISO flanges and fittings listed are made of 304L stainless steel. These flanges can be used in a variety of applications from atmospheric to E⁻⁸ Torr. They can sustain a bakeout temperature of 150 °C when using Viton o-rings.

ISO-Flanges & Fittings	Page
Flange Fastening Options	72
MF Flanges.....	73
Bolted Flanges.....	74
Bolt Sets.....	74
Bolted Tapped Flanges	75
Bolt Sets for Tapped Flanges.....	75
Centering Rings.....	76
Clamps	77
O-Rings	79
Weld Stubs.....	80
Half Nipples	81
Nipples.....	81
Elbows.....	82
Tees.....	82
4-Way Cross.....	83
Reducing Nipple.....	83
Flexible Couplings.....	84
Conical Reducers	85
Adapters, ISO to ConFlat.....	86
Adapters, ISO to KF	87

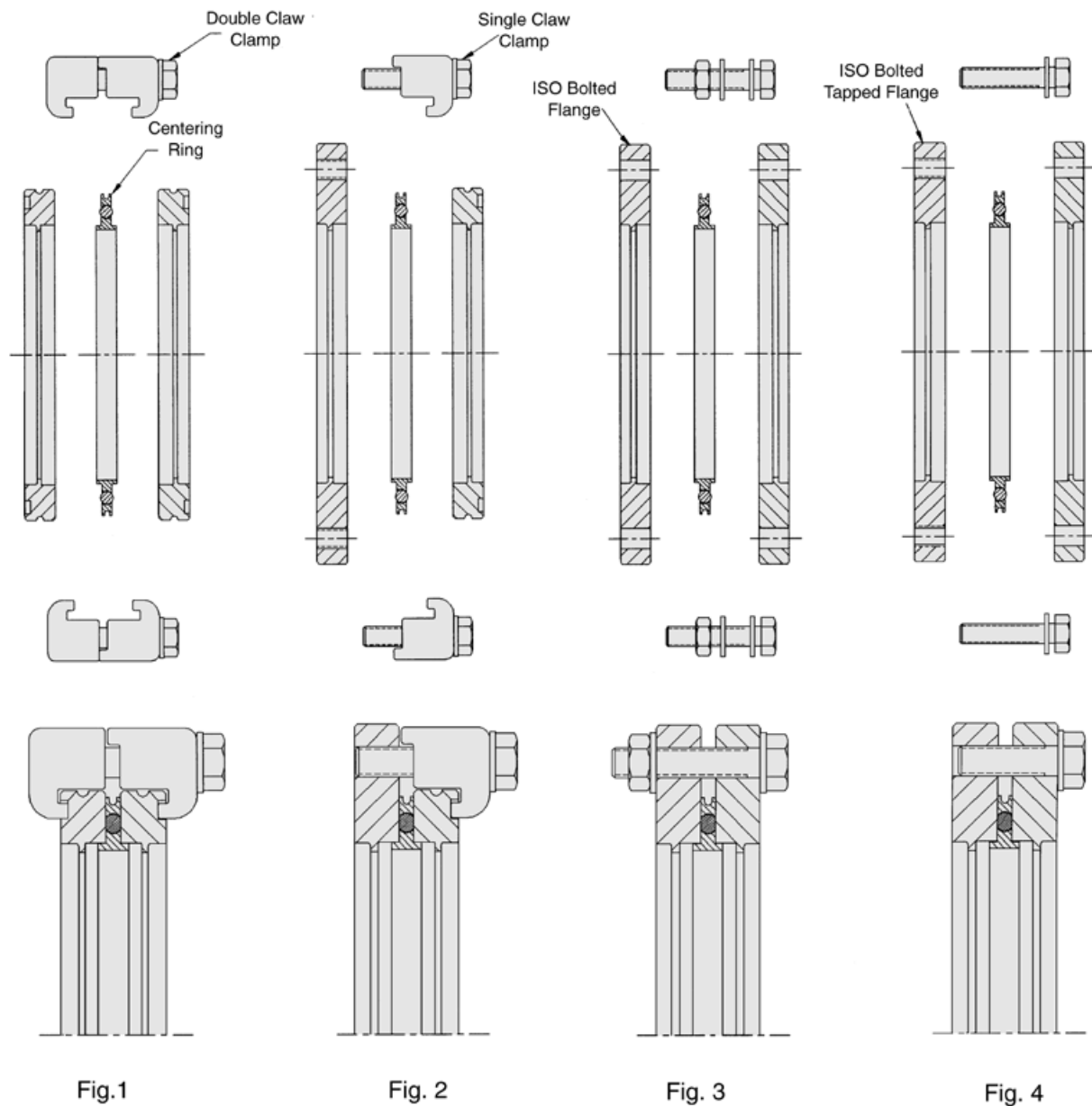
ISO FLANGES & FITTINGS

► Flange Fastening Options

Flanges are available in these bolting/clamping options:
Clamped Flanges (also called MF Flanges or Multi-Fastener) are fastened to each other with Double-Claw Clamps (Fig. 1), or to bolted tapped flanges with Single-Claw Clamps (Fig. 2). Bolted Flanges may be fastened to each other with Nut/Bolt Sets (Fig. 3), or bolted to ISO Bolted Tapped Flanges (Fig. 4).

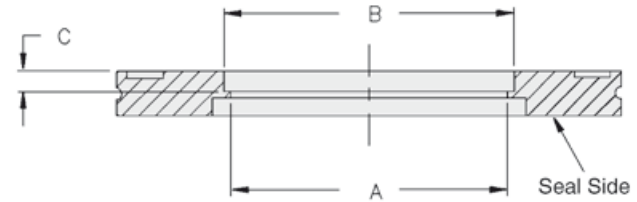
NOTE • At 10" (NW250) and above, some manufacturers standards vary. Please check dimensions carefully.

Flange Fastening Options



VACUUM COMPONENTS

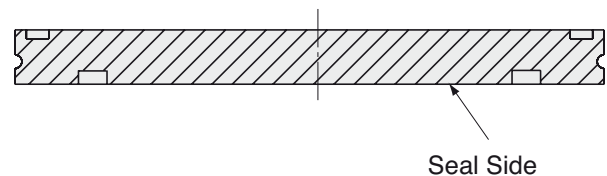
► MF Flanges-Bored



Ordering Information

Size	Part Number	Nominal Bore	A in. (mm)	B in. (mm)	C in. (mm)	Shipping Weight lbs (kg)
NW63	IS0630250BB	2.5 in.	2.37 (60.2)	2.53 (63.8)	0.22 (5.6)	1.0 (0.5)
NW100	IS1000400BB	4.0 in.	3.84 (97.5)	4.03 (101.9)	0.22 (5.6)	1.0 (0.5)
NW160	IS1600600BB	6.0 in.	5.85 (148.6)	6.03 (152.7)	0.22 (5.6)	2.0 (0.9)
NW200	IS2000800BB	8.0 in.	7.85 (199.4)	8.03 (203.5)	0.22 (5.6)	3.0 (1.4)
NW250	IS2501000BB	10.0 in.	9.86 (250.4)	10.04 (254.3)	0.22 (5.6)	4.0 (1.8)

► MF Flanges-Blank

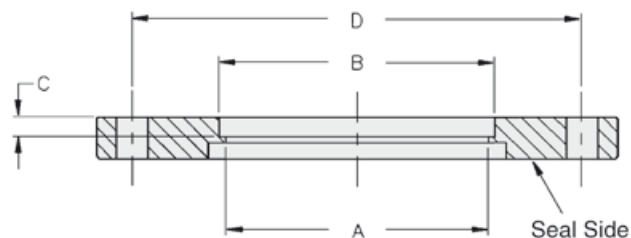


Ordering Information

Size	Part Number	Outer Diameter	Thickness	Shipping Weight lbs (kg)
NW63	IS0630000BL	3.74 (95.0)	0.47 (12.0)	1.0 (0.5)
NW100	IS1000000BL	5.12 (130.0)	0.47 (12.0)	2.5 (1.1)
NW160	IS1600000BL	7.09 (180.0)	0.47 (12.0)	5.0 (2.3)
NW200	IS2000000BL	9.45 (240.0)	0.47 (12.0)	8.0 (3.6)
NW250	IS2500000BL	11.42 (290.0)	0.47 (12.0)	13.0 (5.9)

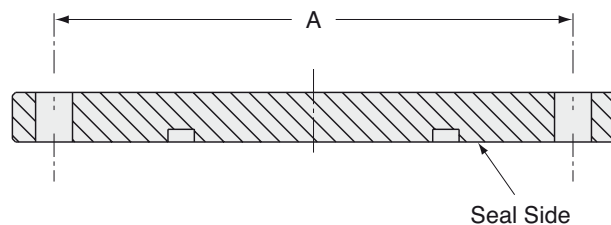
ISO FLANGES & FITTINGS

► Bolted Clear Hole Flanges



Ordering Information – Bolted Flanges-Bored

Size	Part Number	Nominal Bore	A in. (mm)	B in. (mm)	C in. (mm)	D in. (mm)	Bolt Holes	Weight lbs (kg)
NW63	IS0630250BBB	2.5 in.	2.37 (60.2)	2.53 (63.8)	0.22 (5.6)	4.33 (110.0)	4 x M9	0.50 (0.2)
NW100	IS1000400BBB	4.0 in.	3.83 (97.5)	4.03 (101.9)	0.22 (5.6)	5.71 (145.0)	8 x M9	1.00 (0.5)
NW160	IS1600600BBB	6.0 in.	5.83 (148.6)	6.03 (152.7)	0.22 (5.6)	7.87 (200.0)	8 x M11	1.50 (0.7)
NW250	IS2501000BBB	10.0 in.	9.76 (250.4)	10.04 (254.3)	0.22 (5.6)	12.20 (310.0)	12 x M11	3.00 (1.4)



Ordering Information – Bolted Flanges-Blank

Size	Part Number	A in. (mm)	Bolt Holes	Shipping Weight lbs (kg)
NW100	IS1000000BLB	5.71 (145.0)	8 x M9	2.5 (1.1)
NW160	IS1600000BLB	7.87 (199.9)	8 x M11	5.0 (2.3)
NW250	IS2500000BLB	12.20 (309.9)	12 x M11	13.0 (5.9)

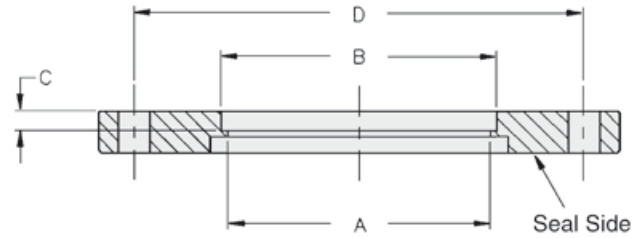
► Bolt Sets for Clear Hole Flanges

Ordering Information

Size	Part Number	Bolt Size	Qty/Pack	Shipping Weight lbs (kg)
NW160	IB160	M10 x 50 mm	8	0.50 (0.2)
NW200, NW250	IB200250	M10 x 50 mm	12	0.75 (0.3)

VACUUM COMPONENTS

► Bolted Tapped Flanges



Ordering Information

Size	Part Number	Nominal Bore	A in. (mm)	B in. (mm)	C in. (mm)	D in. (mm)	Bolt Holes	Weight lbs (kg)
NW63	IS0630250BBBT	2.5 in.	2.37 (60.2)	2.53 (63.8)	0.22 (5.6)	4.33 (110.0)	4 x M8	0.50 (0.2)
NW100	IS1000400BBBT	4.0 in.	3.83 (97.5)	4.03 (101.9)	0.22 (5.6)	5.71 (145.0)	8 x M8	1.00 (0.5)
NW200	IS2000800BBBT	8.0 in.	7.83 (199.4)	8.03 (203.5)	0.22 (5.6)	10.24 (260.0)	12 x M10	2.00 (0.9)
NW250	IS2501000BBBT	10.0 in.	9.76 (250.4)	10.04 (254.3)	0.22 (5.6)	12.20 (310.0)	12 x M10	3.00 (1.4)

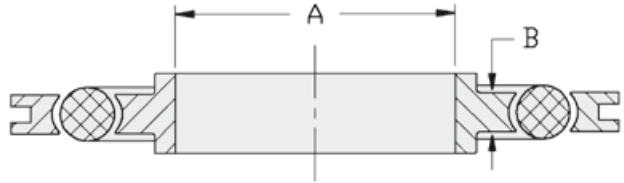
► Bolt Sets for Tapped Flanges

Ordering Information

Size	Part Number	Bolt Size	Qty/Pack	Shipping Weight lbs (kg)
NW80, NW100	IB080100T	M8 x 30 mm	8	0.50 (0.2)
NW200, NW250	IB200250T	M10 x 35 mm	12	0.75 (0.3)

ISO FLANGES & FITTINGS

► Centering Rings



Ordering Information – Aluminum Ring, Viton O-Ring

Size	Part Number	A in. (mm)	B in. (mm)	Shipping Weight lbs (kg)
NW63	IC063AV	2.62 (66.8)	0.15 (3.8)	1.0 (0.5)
NW80	IC080AV	3.13 (79.8)	0.15 (3.8)	1.0 (0.5)
NW100	IC100AV	3.88 (98.8)	0.15 (3.8)	1.0 (0.5)
NW160	IC160AV	5.87 (149.9)	0.15 (3.8)	1.0 (0.5)
NW200	IC200AV	8.24 (209.8)	0.15 (3.8)	1.0 (0.5)
NW250	IC250AV	10.13 (257.6)	0.15 (3.8)	1.0 (0.5)

Ordering Information – Aluminum Ring, Buna-N O-Ring

Size	Part Number	A in. (mm)	B in. (mm)	Shipping Weight lbs (kg)
NW63	IC063AB	2.62 (66.8)	0.15 (3.8)	1.0 (0.5)
NW100	IC100AB	3.88 (98.8)	0.15 (3.8)	1.0 (0.5)
NW160	IC160AB	5.87 (149.9)	0.15 (3.8)	1.0 (0.5)
NW200	IC200AB	8.24 (209.8)	0.15 (3.8)	1.0 (0.5)
NW250	IC250AB	10.13 (257.6)	0.15 (3.8)	1.0 (0.5)

Ordering Information – Stainless Steel Ring, Viton O-Ring

Size	Part Number	A in. (mm)	B in. (mm)	Shipping Weight lbs (kg)
NW63	IC063SV	2.62 (66.8)	0.15 (3.8)	1.0 (0.5)
NW80	IC080SV	3.13 (79.8)	0.15 (3.8)	1.0 (0.5)
NW100	IC100SV	3.88 (98.8)	0.15 (3.8)	1.0 (0.5)
NW160	IC160SV	5.87 (149.9)	0.15 (3.8)	1.0 (0.5)
NW200	IC200SV	8.24 (209.8)	0.15 (3.8)	1.0 (0.5)
NW250	IC250SV	10.13 (257.6)	0.15 (3.8)	1.0 (0.5)

VACUUM COMPONENTS

▶ Modified ISO Claw Clamps

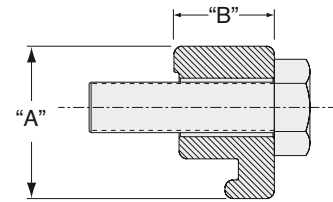
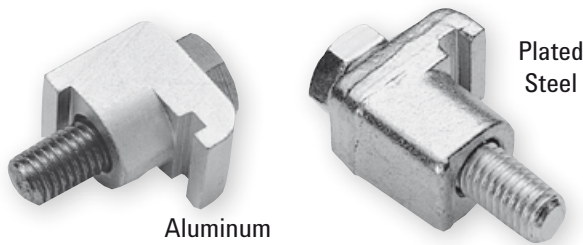


Figure 1

Features

- Heavy duty material
- Suitable for mounting equipment in any orientation and tight geometrics

Ordering Information – Single Claw Clamp – For use with a Standard ISO Flange and Centering Ring (NOT for Turbo Pumps)

Size	Figure	Part Number	Per Package	A in. (mm)	B in. (mm)	Bolt Size	Shipping Weight lbs (kg)
NW63/100	1	ICS063100CC22X5S	4	0.925 (23.5)	0.87 (22.5)	M8 x 35 mm	1.0 (0.50)
NW160/250	1	ICS160250CC23X0A*	1	1.126 (28.6)	0.91 (23.1)	M10 x 35 mm	0.5 (0.20)

* Aluminum

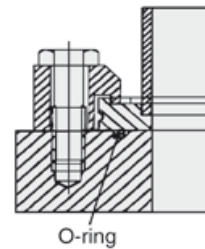
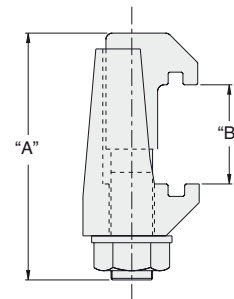
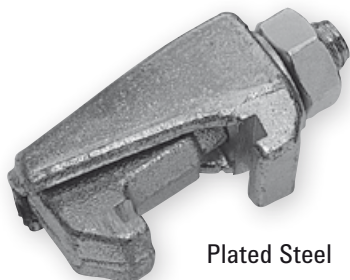


Figure 2

Ordering Information – Single Claw Clamp – For use with a Flange and Base Plate with Sealing Groove and O-ring (NOT for Turbo Pumps)

Size	Figure	Part Number	Per Package	A in. (mm)	B in. (mm)	Bolt Size	Shipping Weight lbs (kg)
NW160/250	1 & 2	ICS160250CC19X1S	1 & 2	1.14 (28.8)	.75 (19.1)	M10 x 35 mm	1.0 (0.5)

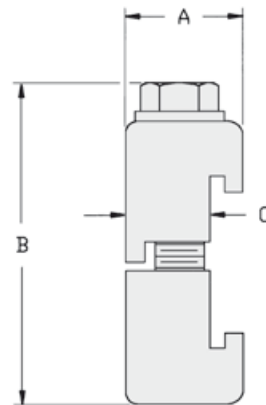
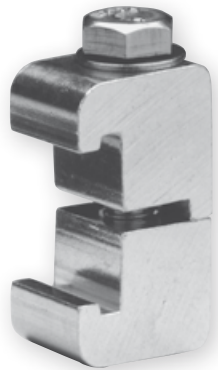


Ordering Information – Tapered Claw Clamp, ISO 63/250 (Suitable for Agilent Turbo Pumps)

Size	Part Number	A in. (mm)	B in. (mm)	Bolt Size	Shipping Weight lbs (kg)
NW63/250	IC63250DCMZ	2.34 (59.5)	0.67/1.05 (17.0/27)	M10	1.0 (0.5)

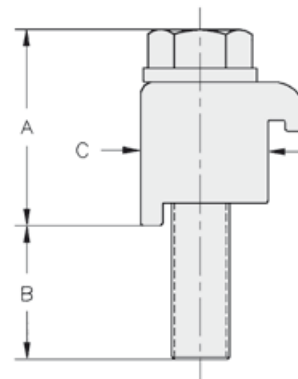
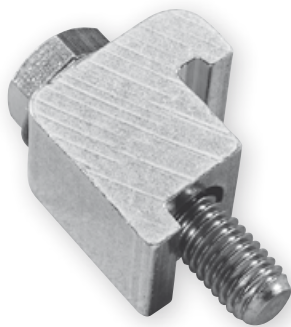
ISO FLANGES & FITTINGS

► Standard ISO Claw Clamps



Ordering Information – Double Claw (NOT for Turbo Pumps)

Size	Part Number	A in. (mm)	B in. (mm)	C in. (mm)	Shipping Weight lbs (kg)
For flange sizes NW63, 080, 100	IC063100A	0.95 (24.1)	1.98 (50.3)	0.63 (16.0)	0.5 (0.2)
For flange sizes NW160, 200, 250	IC160250A	1.10 (27.9)	2.05 (52.1)	0.80 (20.3)	0.5 (0.2)
For flange sizes NW400, 500	IC400500A	1.34 (34.0)	2.56 (65.0)	1.04 (26.4)	0.5 (0.2)



Ordering Information – Single Claw (NOT for Turbo Pumps)

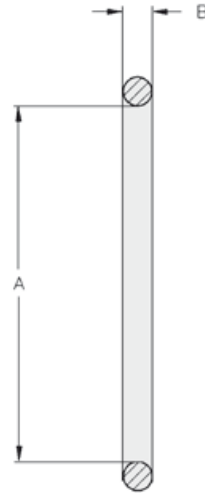
Size	Part Number	A in. (mm)	B in. (mm)	C in. (mm)	Shipping Weight lbs (kg)
For flange sizes NW63, 080, 100	ICS063100A	1.20 (30.4)	0.39 (9.9)	0.63 (16.0)	0.5 (0.2)
For flange sizes NW160, 200, 250	ICS160250A	1.25 (31.7)	0.39 (9.9)	0.80 (20.3)	0.5 (0.2)

NOTE • Use the chart below to determine proper quantities for all clamps on pages 77 and 78.

Flange Size	# of Clamps
NW63	4
NW100-160	8
NW250	12

VACUUM COMPONENTS

► O-Rings



Ordering Information – Viton

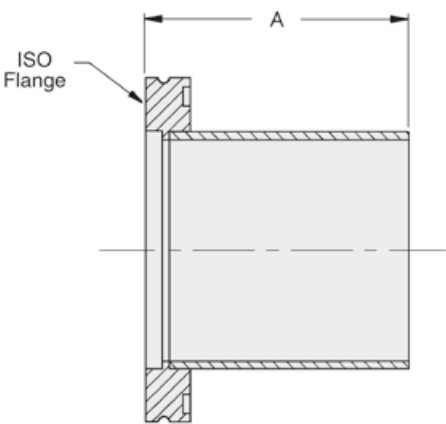
Size	Part Number	A in. (mm)	B in. (mm)	Shipping Weight lbs (kg)
NW63	IO063V	2.85 (72.4)	0.21 (5.33)	0.25 (0.1)
NW80	IO080V	3.35 (85.1)	0.21 (5.33)	0.25 (0.1)
NW100	IO100V	4.10 (104.1)	0.21 (5.33)	0.25 (0.1)
NW160	IO160V	5.98 (151.9)	0.21 (5.33)	0.25 (0.1)
NW250	IO250V	10.50 (266.2)	0.21 (5.33)	0.25 (0.1)

Ordering Information – Silicone

Size	Part Number	A in. (mm)	B in. (mm)	Shipping Weight lbs (kg)
NW100	IO100S	4.10 (104.1)	0.21 (5.3)	0.25 (0.1)

ISO FLANGES & FITTINGS

► Weld Stubs



Ordering Information – Weld Stubs, MF Flanges

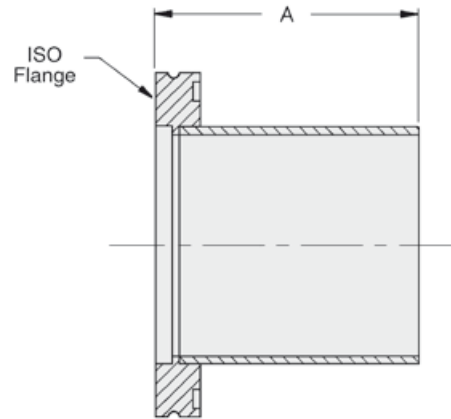
Size	Part Number	Tube Size	A in. (mm)	Shipping Weight lbs (kg)
NW63	IWS063	2.5 in.	3.94 (100.1)	1.0 (0.5)
NW100	IWS100	4.0 in.	3.94 (100.1)	2.0 (0.9)
NW160	IWS160	6.0 in.	3.94 (100.1)	3.0 (1.4)

Ordering Information – Weld Stubs, Bolted Flanges

Size	Part Number	Tube Size	A in. (mm)	Shipping Weight lbs (kg)
NW160	IWS160B	6.0 in.	3.94 (100.1)	3.0 (1.4)

VACUUM COMPONENTS

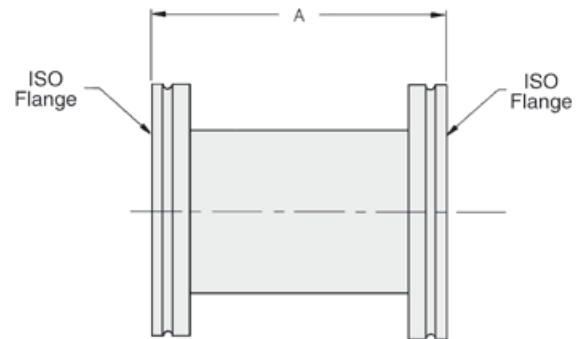
► Half Nipples



Ordering Information

Size	Part Number	Tube Size	A in. (mm)	Shipping Weight lbs (kg)
NW100	INH1000400	4.0 in.	5.12 (130.0)	2.0 (0.9)
NW160	INH1600600	6.0 in.	6.31 (160.3)	4.0 (1.8)

► Nipples

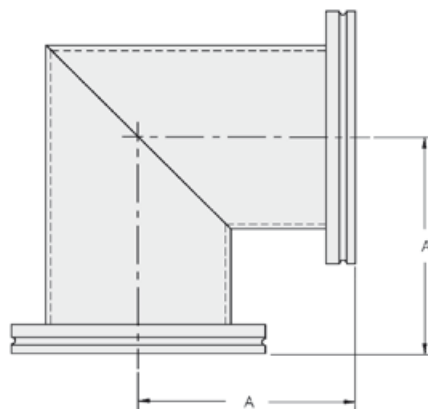


Ordering Information

Size	Part Number	Tube Size	A in. (mm)	Shipping Weight lbs (kg)
NW63	INF0630250	2.5 in.	8.00 (203.2)	2.0 (0.9)
NW100	INF1000400	4.0 in.	10.24 (260.1)	3.0 (1.4)
NW160	INF1600600	6.0 in.	12.62 (320.5)	8.0 (3.6)

ISO FLANGES & FITTINGS

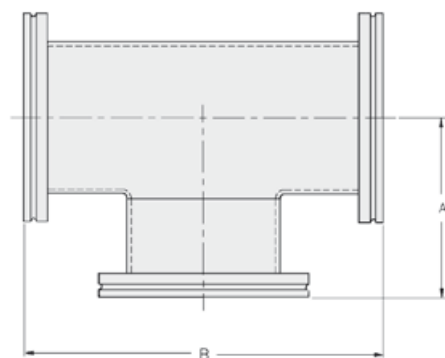
► Elbows 90°



Ordering Information

Size	Part Number	Tube Size	A in. (mm)	Shipping Weight lbs (kg)
NW63	IE02500346	2.5 in.	3.46 (87.9)	2.0 (0.9)
NW100	IE04000425	4.0 in.	4.25 (108.0)	6.0 (2.7)
NW160	IE06000543	6.0 in.	5.43 (137.9)	10.0 (4.5)

► Tees

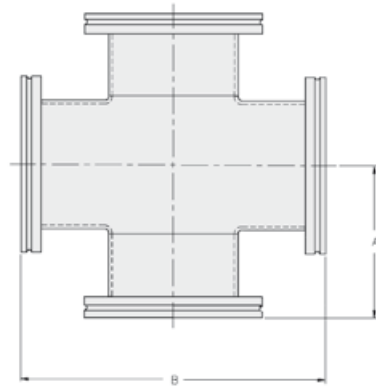


Ordering Information

Size	Part Number	Tube Size	A in. (mm)	B in. (mm)	Shipping Weight lbs (kg)
NW63	IT02500346	2.5 in.	3.46 (87.9)	6.92 (175.8)	3.0 (1.4)
NW100	IT04000425	4.0 in.	4.25 (108.0)	8.50 (215.9)	8.0 (3.6)
NW160	IT06000543	6.0 in.	5.43 (137.9)	10.86 (275.8)	13.0 (5.9)

VACUUM COMPONENTS

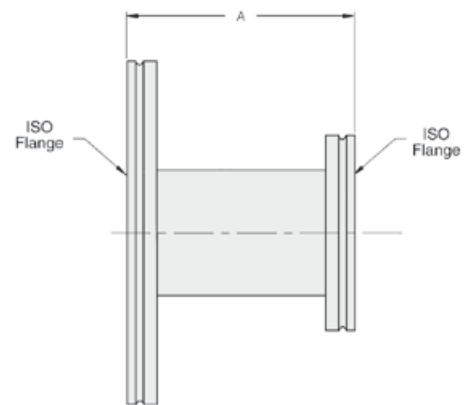
► 4-Way Cross



Ordering Information

Size	Part Number	Tube Size	A in. (mm)	B in. (mm)	Shipping Weight lbs (kg)
NW63	IC02500346	2.5 in.	3.46 (87.9)	6.92 (175.8)	6.0 (2.7)
NW100	IC04000425	4.0 in.	4.25 (108.0)	8.50 (215.9)	10.0 (4.5)
NW160	IC06000543	6.0 in.	5.43 (137.9)	10.86 (275.8)	15.0 (6.8)

► Reducing Nipple

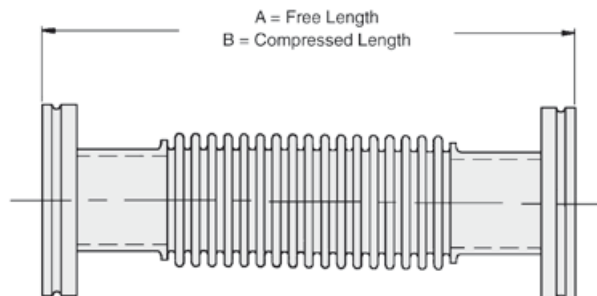


Ordering Information

Size	Part Number	Tube Size	A in. (mm)	Shipping Weight lbs (kg)
NW100-63	INR100063	2.5 in.	4.0 (101.6)	4.5 (2.0)
NW160-63	INR160063	2.5 in.	4.0 (101.6)	6.0 (2.7)
NW160-100	INR160100	4.0 in.	4.0 (101.6)	10.5 (4.8)
NW200-160	INR200160	6.0 in.	4.0 (101.6)	13.5 (6.1)
NW250-200	INR250200	8.0 in.	4.0 (101.6)	18.0 (8.2)

ISO FLANGES & FITTINGS

► Flexible Couplings



Features

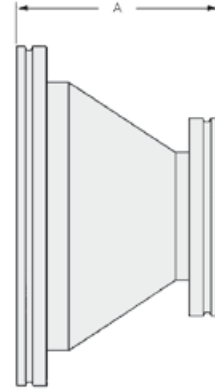
- Bellows Material: Type 321 SS

Ordering Information – Flexible Couplings, Non-Braided, ISO

Flange Size	Part Number	Length Free A in. (mm)	Length Compressed B in. (mm)	Static Bend Radius in. (mm)	Bellows Wall Thickness in.	Nominal ID in. (mm)	Shipping Weight lbs (kg)
ISO63	IL02000600	6.0 (152)	5.5 (140)	10.0 (254)	0.006	2.5 (64)	2.0 (0.9)
	IL02001200	12.0 (305)	10.9 (277)	10.0 (254)	0.006	2.5 (64)	2.0 (0.9)
	IL02502000	20.0 (508)	18.1 (461)	3.2 (81)	0.015	2.5 (64)	3.0 (1.4)
	IL02503000	30.0 (762)	24.0 (610)	3.2 (81)	0.015	2.5 (64)	3.0 (1.4)
	IL02504000	40.0 (1016)	36.1 (917)	3.2 (81)	0.015	2.5 (64)	4.0 (1.8)
ISO100	IL04000600	6.0 (152)	5.5 (141)	16.0 (406)	0.016	3.5 (89)	3.0 (1.4)
	IL04001200	12.0 (305)	10.9 (277)	19.0 (483)	0.010	4.0 (102)	4.0 (1.8)
	IL04002000	20.0 (508)	18.1 (460)	4.5 (114)	0.016	4.0 (102)	4.0 (1.8)
	IL04003000	30.0 (762)	27.1 (688)	4.5 (114)	0.016	4.0 (102)	5.0 (2.3)
	IL04004000	40.0 (1016)	36.1 (917)	4.5 (114)	0.016	4.0 (102)	5.0 (2.3)
ISO160	IL06000600	6.0 (152)	5.5 (140)	21.0 (533)	0.010	6.0 (152)	4.0 (1.8)
	IL06001200	12.0 (305)	10.9 (277)	21.0 (533)	0.010	6.0 (152)	5.0 (2.3)

VACUUM COMPONENTS

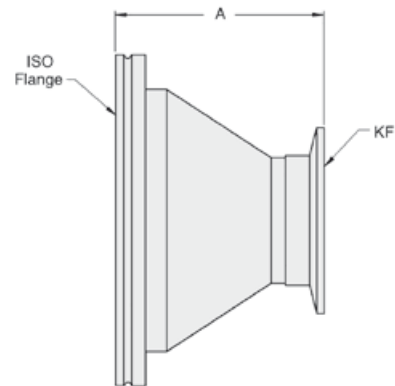
► Conical Reducers



Ordering Information

Size	Part Number	A in. (mm)	Shipping Weight lbs (kg)
NW100-63	IRC100063	4.13 (104.9)	4.5 (2.0)
NW100-80	IRC100080	4.13 (104.9)	4.5 (2.0)
NW160-100	IRC160100	9.50 (241.3)	5.0 (2.3)

► Conical Reducers – ISO to KF

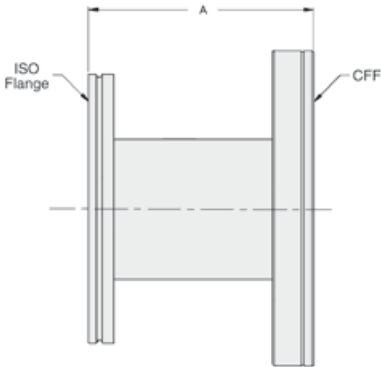
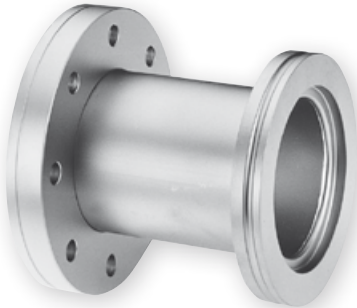


Ordering Information

Size	Part Number	A in. (mm)	Shipping Weight lbs (kg)
NW63-NW40	IKRC063040	2.84 (72.1)	1.5 (0.7)
NW63-NW50	IKRC063050	2.85 (72.4)	2.5 (1.1)
NW80-NW40	IKRC080040	4.09 (103.9)	3.0 (1.4)
NW100-NW50	IKRC100050	4.10 (104.1)	3.5 (1.6)

ISO FLANGES & FITTINGS

▶ Adapters – ISO to ConFlat

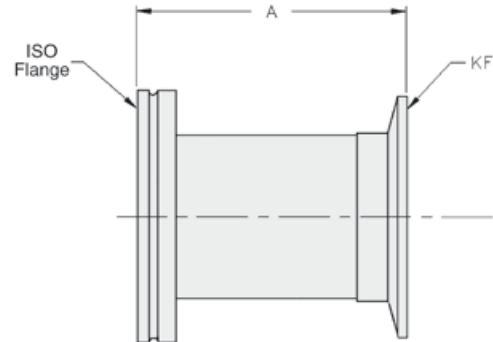
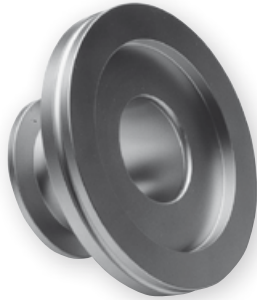


Ordering Information

Size	Part Number	Tube Size	A in. (mm)	Shipping Weight lbs (kg)
NW63-4.5 in. CFF	IFA0630450	2.5 in.	4.13 (104.9)	3.5 (1.6)
NW100-6 in. CFF	IFA1000600	4.0 in.	4.19 (106.4)	5.5 (2.5)
NW160-8 in. CFF	IFA1600800	6.0 in.	4.25 (108.0)	9.0 (4.1)
NW200-10 in. CFF	IFA2001000	8.0 in.	4.25 (108.0)	16.0 (7.2)

VACUUM COMPONENTS

► Adapters – ISO to KF, Short and Long



Ordering Information

Size	Part Number	Tube Size	A in. (mm)	Shipping Weight lbs (kg)
Long				
NW63-NW40	IKA063040L	1.50 in.	2.71 (68.8)	1.0 (0.5)
Short				
NW63-NW16	IKA063016S	0.75 in.	1.75 (44.5)	1.0 (0.5)
NW63-NW25	IKA063025S	1.00 in.	1.75 (44.5)	1.0 (0.5)
NW63-NW40	IKA063040S	1.50 in.	1.75 (44.5)	1.0 (0.5)
NW63-NW50	IKA063050S	2.00 in.	1.75 (44.5)	1.5 (0.7)
NW80-NW25	IKA080025S	1.00 in.	1.75 (44.5)	1.5 (0.7)
NW100-NW25	IKA100025S	1.00 in.	1.75 (44.5)	2.0 (0.9)
NW100-NW40	IKA100040S	1.50 in.	1.75 (44.5)	2.0 (0.9)
NW100-NW50	IKA100050S	2.00 in.	1.75 (44.5)	2.5 (1.1)
NW160-NW40	IKA160040S	1.50 in.	1.75 (44.5)	5.0 (2.3)
NW160-NW50	IKA160050S	2.00 in.	1.75 (44.5)	6.0 (2.7)

SUPPLIES, GREASES AND LUBRICANTS

▶ Torr Seal Low Vapor Pressure Resin Sealant



Torr Seal epoxy resin quickly seals leaks on any type of vacuum system or component. Provided in convenient tubes, Torr Seal is solvent-free and can be used at pressures of 10^{-9} Torr (mbar) and below, at temperatures from -45°C to 120°C (bakeable temperature). Additionally, Torr Seal permits leak checking immediately after curing and bonds with many materials including metal, ceramic, and glass.

Ordering Information

Description	Part Number	Weight lbs (kg)
Torr Seal base resin, 82 grams, and Torr Seal hardener, 36 grams	9530001	1.0 (0.45)

▶ Torr Seal Mixing System



The Torr Seal Mixing System includes an applicator gun, a premeasured Torr Seal cartridge, and an epoxy/resin mixer. The system uses the same low vapor pressure resin sealant as standard Torr Seal, while providing a systematic and scientific way of mixing the Torr Seal epoxy and resin. The applicator gun dispenses premeasured epoxy and resin from the cartridge through the mixer so that a uniform Torr Seal bead can be placed on any surface. As with the standard Torr Seal tubes, the mixing system can be used at pressures of 10^{-9} Torr and below, and at temperatures from -45°C to 120°C (bakeable temperature).

Ordering Information

Description	Part Number	Weight lbs (kg)
Applicator gun with Torr Seal cartridge (2 oz.) and three mixers	9530002	2.00 (0.91)
Applicator gun only	9530003	1.50 (0.68)
Torr Seal cartridge (2 oz.) and three mixers	9530004	0.75 (0.34)
Mixers only (six to a package)	9530005	0.25 (0.11)

▶ Fel-Pro Heavy Duty Anti-Seize

Fel-Pro Heavy Duty Anti-Seize is a high-temperature, anti-galling lubricant designed for screw threads and other mated components of all types. Generally used in applications that are external to vacuum systems, Fel-Pro is useful in temperature ranges of 70°C to $+1315^{\circ}\text{C}$.

Ordering Information

Description	Part Number	Weight lbs (kg)
Fel-Pro Heavy Duty Anti-Seize Lubricant	9530031	0.3 (0.13)

▶ Apiezon Vacuum Grease, Type L

Apiezon L is a general vacuum grease that has a vapor pressure from 10^{-11} Torr (mbar) at 20°C to 10^{-3} Torr (mbar) at 300°C , and has a melting point of $< 50^{\circ}\text{C}$.

Ordering Information

Description	Part Number	Weight lbs (kg)
Apiezon L vacuum grease, 1 oz.	695400004	1.0 (0.45)

▶ Agilent Vacuum Grease

This is a general purpose grease with a vapor pressure in the 10^{-6} Torr range. It is a non-silicone grease that comes in two viscosities and two sizes.

Ordering Information

Description	Part Number	Weight lbs (kg)
Agilent Vacuum grease, Medium Weight, $\frac{1}{4}$ lb size	LGCMID025	1.0 (0.45)
Agilent Vacuum grease, Medium Weight, 1 lb size	LGCMID100	1.0 (0.45)
Agilent Vacuum grease, Heavy Weight, $\frac{1}{4}$ lb size	LGCHEV025	1.0 (0.45)
Agilent Vacuum grease, Heavy Weight, 1 lb size	LGCHEV100	1.0 (0.45)