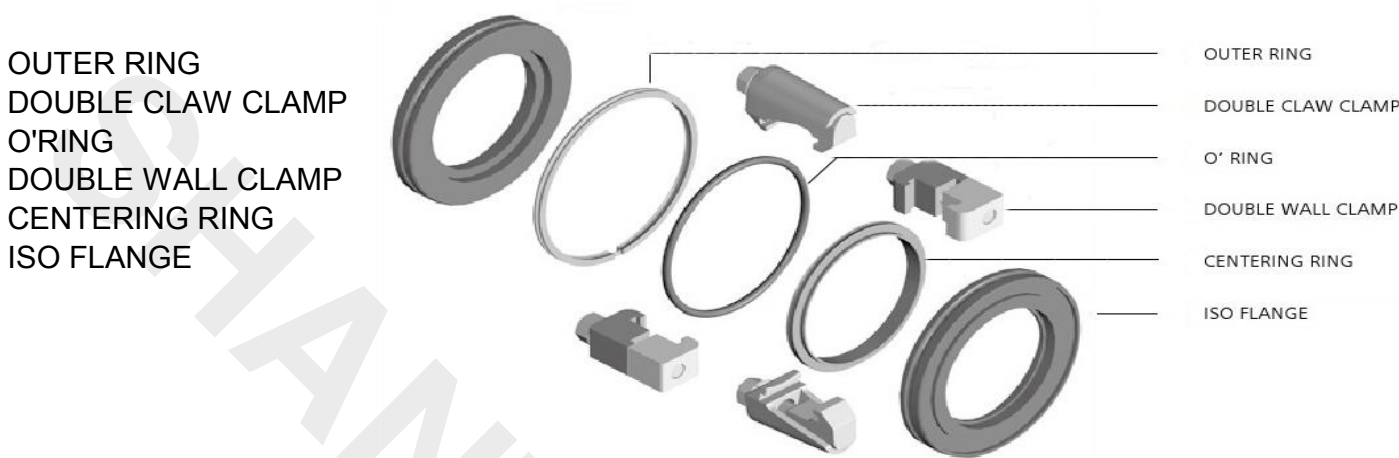


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ISO Flange Series

General Information



Features

The components of ISO universal flange system are defined by the International Standards Organization (ISO).

The construction of ISO flange series includes two smooth-faced sexless flanges clamped together with a combination metal centering ring and elastomeric O-ring between them.

ISO components are reusable and changeable with other ISO dimension components of the same size.

Specifications

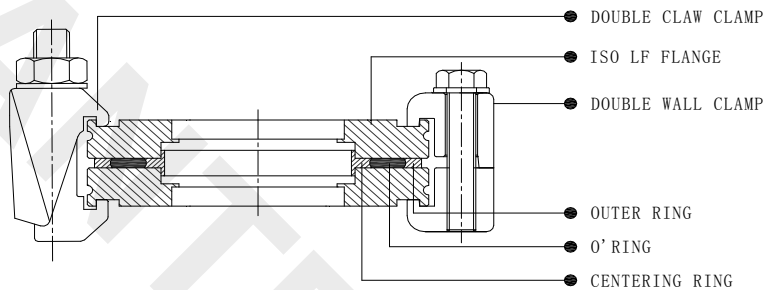
Blanks & Flanges	304 S.S. (Other material available upon request)
Retainer Rings	304 S.S. (Other material available upon request)
Centering Rings	304 S.S. (Other material available upon request)
Outer Rings	Aluminum
Clamps	Aluminum, Stainless steel, Steel plated
O'ring material	Viton or NBR
Temperature Ran	150°C (Viton) 80°C (NBR)
Vacuum Rate	10 ⁻⁸ Torr

Complete Clamp Assemblies

The system is versatile because of the many ways in which components can be assembled.

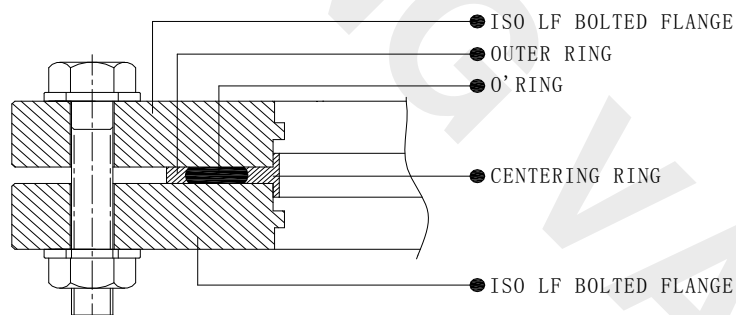
Double Wall-Clamp or Double Claw Clamp

Illustrates the double wall (claw) clamp assembly to connect pairs of ISO flanges. Ease of use and economic make this the most commonly used configuration.



Bolted Nonrotatable

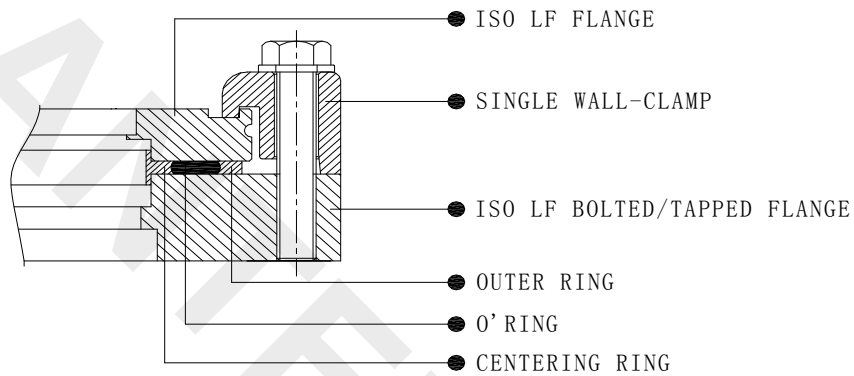
The two bolt flanges connected in the normal way.



Complete Clamp Assemblies

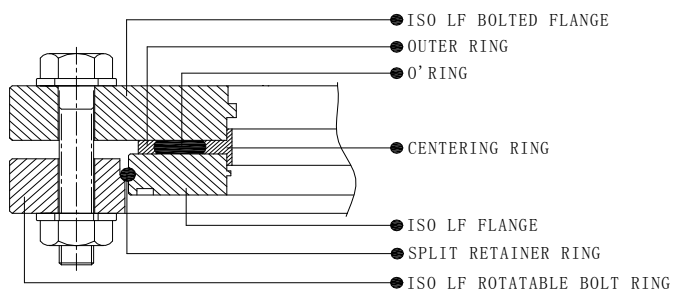
Single Wall Clamp

Single wall clamps are used to join an ISO flange to a tapped flange on a pump, chamber or gate valve.

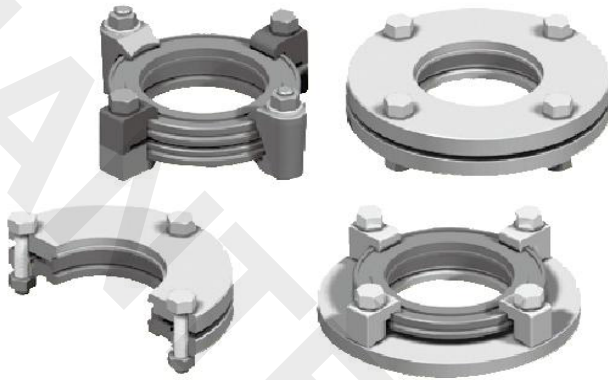


Bolted Rotatable

This fastening method allows the ISO flange to be rotated for ease of component alignment. Additionally, a rotatable bolt ring can be used to fasten an ISO flange to a non-rotatable flange using bolt.



Applications for ISO Components



Applications for this system are as varied as the imagination can make them. Some examples are:

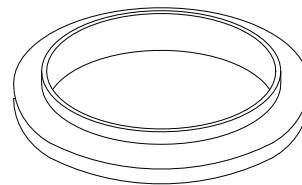
Roughing and foreline plumbing for large vacuum system.

High vacuum, high conductance, inter-connections.

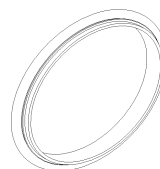
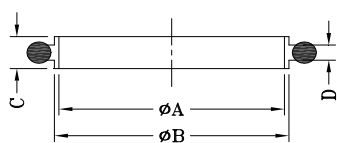
Modular system which will be modified frequently.

System requiring frequent cleaning.

Experimental system in research laboratories.

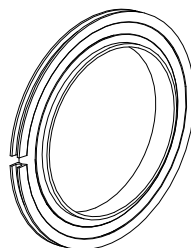
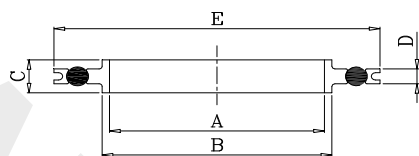


ISO Centering Ring										
Size	Model No.	Material	A		B		C		D	
			in	mm	in	mm	in	mm	in	mm
ISO63	ISO63CRSA	304 S.S.	2.64	67.0	2.74	69.60	0.31	8	0.15	3.9
ISO80	ISO80CRSA	304 S.S.	3.15	80.0	3.25	82.60	0.31	8	0.15	3.9
ISO100	ISO100CRSA	304 S.S.	3.94	100.0	4.00	101.60	0.31	8	0.15	3.9
ISO160	ISO160CRSA	304 S.S.	5.91	150.0	6.01	152.60	0.31	8	0.15	3.9
ISO200	ISO200CRSA	304 S.S.	8.27	210.0	8.37	212.60	0.31	8	0.15	3.9
ISO250	ISO250CRSA	304 S.S.	10.14	257.5	10.25	260.40	0.31	8	0.15	3.9
ISO320	ISO320CRSA	304 S.S.	12.28	312.0	12.53	318.30	0.47	12	0.22	5.6
ISO400	ISO400CRSA	304 S.S.	15.51	394.0	15.72	399.20	0.47	12	0.22	5.6
ISO500	ISO500CRSA	304 S.S.	19.45	494.0	19.69	500.20	0.47	12	0.22	5.6
ISO63	ISO63CRAA	Aluminum	2.64	67.0	2.74	69.60	0.31	8	0.15	3.9
ISO80	ISO80CRAA	Aluminum	3.15	80.0	3.25	82.60	0.31	8	0.15	3.9
ISO100	ISO100CRAA	Aluminum	3.94	100.0	4.00	101.60	0.31	8	0.15	3.9
ISO160	ISO160CRAA	Aluminum	5.91	150.0	6.01	152.60	0.31	8	0.15	3.9
ISO200	ISO200CRAA	Aluminum	8.27	210.0	8.37	212.60	0.31	8	0.15	3.9
ISO250	ISO250CRAA	Aluminum	10.14	257.5	10.25	260.40	0.31	8	0.15	3.9
ISO320	ISO320CRAA	Aluminum	12.28	312.0	12.53	318.30	0.47	12	0.22	5.6
ISO400	ISO400CRAA	Aluminum	15.51	394.0	15.72	399.20	0.47	12	0.22	5.6
ISO500	ISO500CRAA	Aluminum	19.45	494.0	19.69	500.20	0.47	12	0.22	5.6



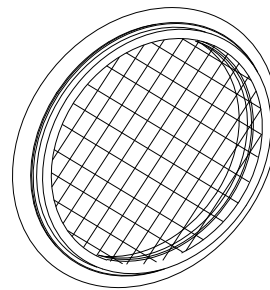
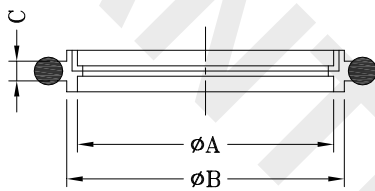
ISO Centering Ring with O'Ring

Size	Model No.	Material	O'Ring	O'Ring size	A		B		C		D	
					in	mm	in	mm	in	mm	in	mm
ISO63	ISO63CRVSA	304 S.S.	Viton	AS-337	2.64	67.0	2.74	69.60	0.31	8	0.15	3.9
ISO80	ISO80CRVSA	304 S.S.	Viton	AS-341	3.15	80.0	3.25	82.60	0.31	8	0.15	3.9
ISO100	ISO100CRVSA	304 S.S.	Viton	AS-347	3.94	100.0	4.00	101.60	0.31	8	0.15	3.9
ISO160	ISO160CRVSA	304 S.S.	Viton	AS-362	5.91	150.0	6.01	152.60	0.31	8	0.15	3.9
ISO200	ISO200CRVSA	304 S.S.	Viton	AS-371	8.27	210.0	8.37	212.60	0.31	8	0.15	3.9
ISO250	ISO250CRVSA	304 S.S.	Viton	AS-378	10.14	257.5	10.25	260.40	0.31	8	0.15	3.9
ISO320	ISO320CRVSA	304 S.S.	Viton	AS-454	12.28	312.0	12.49	317.30	0.47	12	0.22	5.6
ISO400	ISO400CRVSA	304 S.S.	Viton	AS-461	15.51	394.0	15.72	399.20	0.47	12	0.22	5.6
ISO500	ISO500CRVSA	304 S.S.	Viton	AS-469	19.45	494.0	19.69	500.20	0.47	12	0.22	5.6
ISO63	ISO63CRVAA	Aluminum	Viton	AS-337	2.64	67.0	2.74	69.60	0.31	8	0.15	3.9
ISO80	ISO80CRVAA	Aluminum	Viton	AS-341	3.15	80.0	3.25	82.60	0.31	8	0.15	3.9
ISO100	ISO100CRVAA	Aluminum	Viton	AS-347	3.94	100.0	4.00	101.60	0.31	8	0.15	3.9
ISO160	ISO160CRVAA	Aluminum	Viton	AS-362	5.91	150.0	6.01	152.60	0.31	8	0.15	3.9
ISO200	ISO200CRVAA	Aluminum	Viton	AS-371	8.27	210.0	8.37	212.60	0.31	8	0.15	3.9
ISO250	ISO250CRVAA	Aluminum	Viton	AS-378	10.14	257.5	10.25	260.40	0.31	8	0.15	3.9
ISO320	ISO320CRVAA	Aluminum	Viton	AS-454	12.28	312.0	12.49	317.30	0.47	12	0.22	5.6
ISO400	ISO400CRVAA	Aluminum	Viton	AS-461	15.51	394.0	15.72	399.20	0.47	12	0.22	5.6
ISO500	ISO500CRVAA	Aluminum	Viton	AS-469	19.45	494.0	19.69	500.20	0.47	12	0.22	5.6
ISO63	ISO63CRNSA	304 S.S.	NBR	AS-337	2.64	67.0	2.74	69.60	0.31	8	0.15	3.9
ISO80	ISO80CRNSA	304 S.S.	NBR	AS-341	3.15	80.0	3.25	82.60	0.31	8	0.15	3.9
ISO100	ISO100CRNSA	304 S.S.	NBR	AS-347	3.94	100.0	4.00	101.60	0.31	8	0.15	3.9
ISO160	ISO160CRNSA	304 S.S.	NBR	AS-362	5.91	150.0	6.01	152.60	0.31	8	0.15	3.9
ISO200	ISO200CRNSA	304 S.S.	NBR	AS-371	8.27	210.0	8.37	212.60	0.31	8	0.15	3.9
ISO250	ISO250CRNSA	304 S.S.	NBR	AS-378	10.14	257.5	10.25	260.40	0.31	8	0.15	3.9
ISO320	ISO320CRNSA	304 S.S.	NBR	AS-454	12.28	312.0	12.49	317.30	0.47	12	0.22	5.6
ISO400	ISO400CRNSA	304 S.S.	NBR	AS-461	15.51	394.0	15.72	399.20	0.47	12	0.22	5.6
ISO500	ISO500CRNSA	304 S.S.	NBR	AS-469	19.45	494.0	19.69	500.20	0.47	12	0.22	5.6
ISO63	ISO63CRNAA	Aluminum	NBR	AS-337	2.64	67.0	2.74	69.60	0.31	8	0.15	3.9
ISO80	ISO80CRNAA	Aluminum	NBR	AS-341	3.15	80.0	3.25	82.60	0.31	8	0.15	3.9
ISO100	ISO100CRNAA	Aluminum	NBR	AS-347	3.94	100.0	4.00	101.60	0.31	8	0.15	3.9
ISO160	ISO160CRNAA	Aluminum	NBR	AS-362	5.91	150.0	6.01	152.60	0.31	8	0.15	3.9
ISO200	ISO200CRNAA	Aluminum	NBR	AS-371	8.27	210.0	8.37	212.60	0.31	8	0.15	3.9
ISO250	ISO250CRNAA	Aluminum	NBR	AS-378	10.14	257.5	10.25	260.40	0.31	8	0.15	3.9
ISO320	ISO320CRNAA	Aluminum	NBR	AS-454	12.28	312.0	12.49	317.30	0.47	12	0.22	5.6
ISO400	ISO400CRNAA	Aluminum	NBR	AS-461	15.51	394.0	15.72	399.20	0.47	12	0.22	5.6
ISO500	ISO500CRNAA	Aluminum	NBR	AS-469	19.45	494.0	19.69	500.20	0.47	12	0.22	5.6

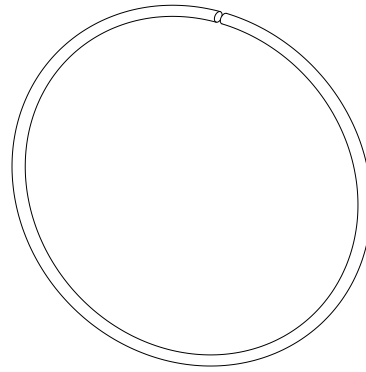
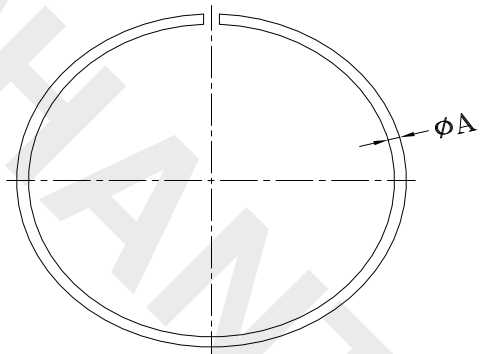


ISO Outer Ring Centering Ring, O'Ring

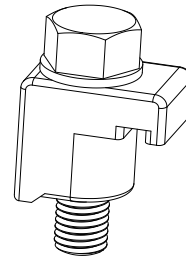
Size	Model No.	Material	C/R	O'Ring	O'Ring size	A		B		C		D		E	
						in	mm	in	mm	in	mm	in	mm	in	mm
ISO63	ISO63OCRVS	Aluminum	304 S.S.	Viton	AS-337	2.64	67.0	2.74	69.50	0.31	8	0.15	3.9	3.70	94
ISO80	ISO80OCRVS	Aluminum	304 S.S.	Viton	AS-341	3.15	80.0	3.25	82.60	0.31	8	0.15	3.9	4.29	109
ISO100	ISO100OCRVS	Aluminum	304 S.S.	Viton	AS-347	3.94	100.0	4.00	101.60	0.31	8	0.15	3.9	5.04	128
ISO160	ISO160OCRVS	Aluminum	304 S.S.	Viton	AS-362	5.91	150.0	6.01	152.60	0.31	8	0.15	3.9	7.05	179
ISO200	ISO200OCRVS	Aluminum	304 S.S.	Viton	AS-371	8.27	210.0	8.37	212.60	0.31	8	0.15	3.9	9.37	238
ISO250	ISO250OCRVS	Aluminum	304 S.S.	Viton	AS-378	10.14	257.5	10.25	260.40	0.31	8	0.15	3.9	11.30	287
ISO320	ISO320OCRVS	Aluminum	304 S.S.	Viton	AS-454	12.28	312.0	12.49	317.30	0.47	12	0.22	5.6	13.54	344
ISO400	ISO400OCRVS	Aluminum	304 S.S.	Viton	AS-461	15.51	394.0	15.72	399.20	0.47	12	0.22	5.6	17.56	446
ISO500	ISO500OCRVS	Aluminum	304 S.S.	Viton	AS-469	19.45	494.0	19.69	500.20	0.47	12	0.22	5.6	21.06	535
ISO63	ISO63OCRVA	Aluminum	Aluminum	Viton	AS-337	2.64	67.0	2.74	69.50	0.31	8	0.15	3.9	3.70	94
ISO80	ISO80OCRVA	Aluminum	Aluminum	Viton	AS-341	3.15	80.0	3.25	82.60	0.31	8	0.15	3.9	4.29	109
ISO100	ISO100OCRVA	Aluminum	Aluminum	Viton	AS-347	3.94	100.0	4.00	101.60	0.31	8	0.15	3.9	5.04	128
ISO160	ISO160OCRVA	Aluminum	Aluminum	Viton	AS-362	5.91	150.0	6.01	152.60	0.31	8	0.15	3.9	7.05	179
ISO200	ISO200OCRVA	Aluminum	Aluminum	Viton	AS-371	8.27	210.0	8.37	212.60	0.31	8	0.15	3.9	9.37	238
ISO250	ISO250OCRVA	Aluminum	Aluminum	Viton	AS-378	10.14	257.5	10.25	260.40	0.31	8	0.15	3.9	11.30	287
ISO320	ISO320OCRVA	Aluminum	Aluminum	Viton	AS-454	12.28	312.0	12.49	317.30	0.47	12	0.22	5.6	13.54	344
ISO400	ISO400OCRVA	Aluminum	Aluminum	Viton	AS-461	15.51	394.0	15.72	399.20	0.47	12	0.22	5.6	17.56	446
ISO500	ISO500OCRVA	Aluminum	Aluminum	Viton	AS-469	19.45	494.0	19.69	500.20	0.47	12	0.22	5.6	21.06	535
ISO63	ISO63OCRNS	Aluminum	304 S.S.	NBR	AS-337	2.64	67.0	2.74	69.50	0.31	8	0.15	3.9	3.70	94
ISO80	ISO80OCRNS	Aluminum	304 S.S.	NBR	AS-341	3.15	80.0	3.25	82.60	0.31	8	0.15	3.9	4.29	109
ISO100	ISO100OCRNS	Aluminum	304 S.S.	NBR	AS-347	3.94	100.0	4.00	101.60	0.31	8	0.15	3.9	5.04	128
ISO160	ISO160OCRNS	Aluminum	304 S.S.	NBR	AS-362	5.91	150.0	6.01	152.60	0.31	8	0.15	3.9	7.05	179
ISO200	ISO200OCRNS	Aluminum	304 S.S.	NBR	AS-371	8.27	210.0	8.37	212.60	0.31	8	0.15	3.9	9.37	238
ISO250	ISO250OCRNS	Aluminum	304 S.S.	NBR	AS-378	10.14	257.5	10.25	260.40	0.31	8	0.15	3.9	11.30	287
ISO320	ISO320OCRNS	Aluminum	304 S.S.	NBR	AS-454	12.28	312.0	12.49	317.30	0.47	12	0.22	5.6	13.54	344
ISO400	ISO400OCRNS	Aluminum	304 S.S.	NBR	AS-461	15.51	394.0	15.72	399.20	0.47	12	0.22	5.6	17.56	446
ISO500	ISO500OCRNS	Aluminum	304 S.S.	NBR	AS-469	19.45	494.0	19.69	500.20	0.47	12	0.22	5.6	21.06	535
ISO63	ISO63OCRNA	Aluminum	Aluminum	NBR	AS-337	2.64	67.0	2.74	69.50	0.31	8	0.15	3.9	3.70	94
ISO80	ISO80OCRNA	Aluminum	Aluminum	NBR	AS-341	3.15	80.0	3.25	82.60	0.31	8	0.15	3.9	4.29	109
ISO100	ISO100OCRNA	Aluminum	Aluminum	NBR	AS-347	3.94	100.0	4.00	101.60	0.31	8	0.15	3.9	5.04	128
ISO160	ISO160OCRNA	Aluminum	Aluminum	NBR	AS-362	5.91	150.0	6.01	152.60	0.31	8	0.15	3.9	7.05	179
ISO200	ISO200OCRNA	Aluminum	Aluminum	NBR	AS-371	8.27	210.0	8.37	212.60	0.31	8	0.15	3.9	9.37	238
ISO250	ISO250OCRNA	Aluminum	Aluminum	NBR	AS-378	10.14	257.5	10.25	260.40	0.31	8	0.15	3.9	11.30	287
ISO320	ISO320OCRNA	Aluminum	Aluminum	NBR	AS-454	12.28	312.0	12.49	317.30	0.47	12	0.22	5.6	13.54	344
ISO400	ISO400OCRNA	Aluminum	Aluminum	NBR	AS-461	15.51	394.0	15.72	399.20	0.47	12	0.22	5.6	17.56	446
ISO500	ISO500OCRNA	Aluminum	Aluminum	NBR	AS-469	19.45	494.0	19.69	500.20	0.47	12	0.22	5.6	21.06	535



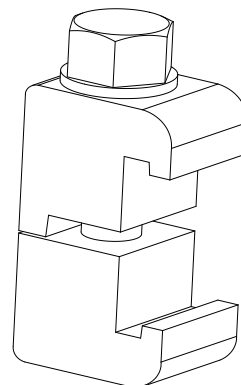
KF Mesh Centering Ring										
Size	Model No.	Material	O'ring	O'Ring size	A in / mm		B in / mm		C in / mm	
NW 63	KF63M3CRVS	304 S.S.	Viton	AS-337	2.38	60.5	2.74	69.6	0.15	3.9
NW 80	KF80M3CRVS	304 S.S.	Viton	AS-341	2.90	73.6	3.25	82.6	0.15	3.9
NW 100	KF100M3CRVS	304 S.S.	Viton	AS-347	3.61	91.8	4.00	101.6	0.15	3.9
NW 160	KF160M3CRVS	304 S.S.	Viton	AS-362	5.65	143.5	6.01	152.6	0.15	3.9
NW 63	KF63M3CRNS	304 S.S.	NBR	AS-337	2.38	60.5	2.74	69.6	0.15	3.9
NW 80	KF80M3CRNS	304 S.S.	NBR	AS-341	2.90	73.6	3.25	82.6	0.15	3.9
NW 100	KF100M3CRNS	304 S.S.	NBR	AS-347	3.61	91.8	4.00	101.6	0.15	3.9
NW 160	KF160M3CRNS	304 S.S.	NBR	AS-362	5.65	143.5	6.01	152.6	0.15	3.9



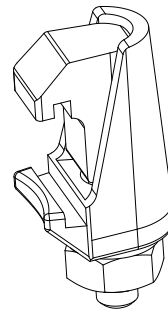
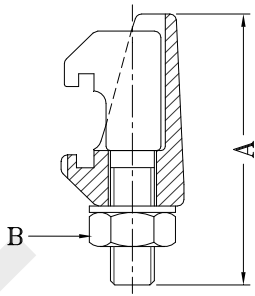
Split Retainer Ring				
Fits Flange	Model No.	Material	A	
			in	mm
ISO 63	ISO63SRR	304 S.S.	0.12	3.0
ISO 80	ISO80SRR	304 S.S.	0.12	3.0
ISO 100	ISO100SRR	304 S.S.	0.12	3.0
ISO 160	ISO160SRR	304 S.S.	0.18	4.5
ISO 200	ISO200SRR	304 S.S.	0.18	4.5
ISO 250	ISO250SRR	304 S.S.	0.18	4.5
ISO 320	ISO320SRR	304 S.S.	0.18	4.5
ISO 400	ISO400SRR	304 S.S.	0.31	8.0
ISO 500	ISO500SRR	304 S.S.	0.31	8.0



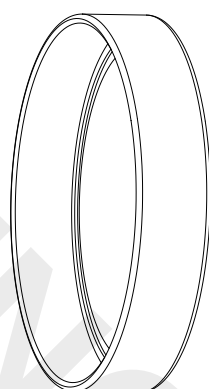
Single Wall Clamp							
Fits Flange	Model No.	Material	A in	B in mm		C in mm	
ISO 63	ISO63-100SWC304	304 S.S.	5/16-24	1.38	35	0.91	23.0
ISO 80							
ISO 100							
ISO 160	ISO160-250SWC304	304 S.S.	3/8-24	1.38	35	0.91	23.0
ISO 200							
ISO 250							
ISO 320	ISO320-500SWC304	304 S.S.	7/16-20	1.97	50	1.18	30.0
ISO 400							
ISO 500							
ISO 63	ISO63-100SWC-ZP	Steel Zinc Plated	5/16-24	1.38	35	0.91	23.0
ISO 80							
ISO 100							
ISO 160	ISO160-250SWC-ZP	Steel Zinc Plated	3/8-24	1.38	35	0.91	23.0
ISO 200							
ISO 250							
ISO 320	ISO320-500SWC-ZP	Steel Zinc Plated	7/16-20	1.97	50	1.18	30.0
ISO 400							
ISO 500							
ISO 63	ISO63-100SWCA	Aluminum	5/16-24	1.38	35	0.93	23.5
ISO 80							
ISO 100							
ISO 160	ISO160-250SWCA	Aluminum	3/8-24	1.38	35	0.93	23.5
ISO 200							
ISO 250							
ISO 320	ISO320-500SWCA	Aluminum	7/16-20	1.97	50	1.18	30.0
ISO 400							
ISO 500							



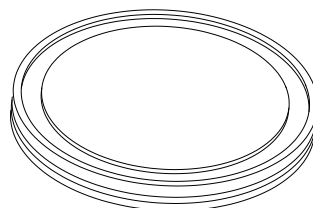
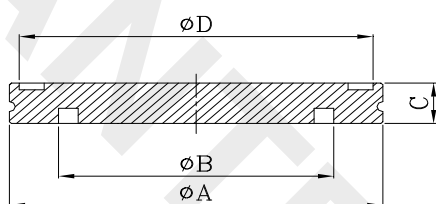
Double Wall Clamp						
Size	Model No.	Material	A in mm		B in	Fits Flange
ISO 63	ISO63-100DWCA	Aluminum	1.77	45	5/16 - 24	ISO 63
						ISO 80
						ISO 100
ISO 160	ISO160-250DWCA	Aluminum	1.77	45	3/8 - 24	ISO 160
						ISO 200
						ISO 250
ISO 320	ISO320-500DWCA	Aluminum	2.36	60	7/16 - 20	ISO 320
						ISO 400
						ISO 500



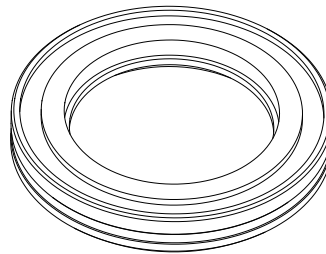
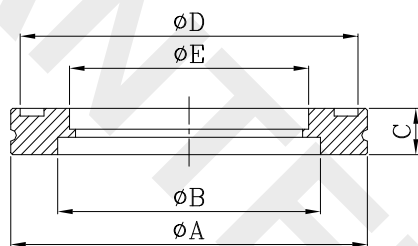
Double Claw Clamp						
Size	Model No.	Material	A in mm		B in	Fits Flange
ISO 63	ISO63-250DCC316	316 S.S.	2.42	61.5	3/8-24	ISO 63
						ISO 80
						ISO 100
						ISO 160
						ISO 200
						ISO 250
ISO 320	ISO320-500DCC316	316 S.S.	2.99	76.0	7/16-20	ISO 320
						ISO 400
						ISO 500
ISO 630	ISO630-DCC316	316 S.S.	3.39	86.0	7/16-20	ISO 630
ISO 63	ISO63-250DCC-ZP	Steel Zinc Plated	2.42	61.5	3/8-24	ISO 320
						ISO 400
						ISO 500
						ISO 63
						ISO 80
						ISO 100
						ISO 160
						ISO 200
						ISO 250
ISO 320	ISO320-500DCC-ZP	Steel Zinc Plated	2.99	76.0	7/16-20	ISO 320
						ISO 400
						ISO 500
ISO 630	ISO630-DCC-ZP	Steel Zinc Plated	3.39	86.0	7/16-20	ISO 630



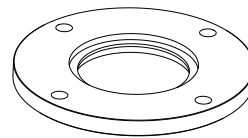
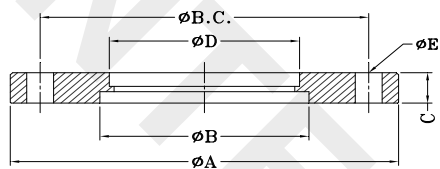
Cap		
Fits Flange	Model No.	Material
ISO 63	ISO63CAP	Polyethylene
ISO 80	ISO80CAP	Polyethylene
ISO 100	ISO100CAP	Polyethylene
ISO 160	ISO160CAP	Polyethylene
ISO 200	ISO200CAP	Polyethylene



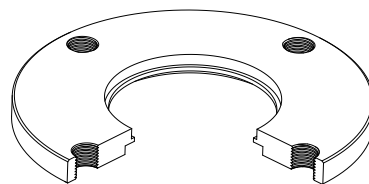
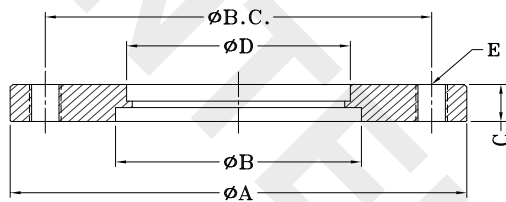
Blank Flange										
Size	Model No.	Material	A		B		C		D	
			in	mm	in	mm	in	mm	in	mm
ISO 63	ISO63B	304 S.S.	3.74	95	2.76	70	0.47	12.0	3.54	90
ISO 80	ISO80B	304 S.S.	4.33	110	3.27	83	0.47	12.0	4.13	105
ISO 100	ISO100B	304 S.S.	5.12	130	4.02	102	0.47	12.0	4.92	125
ISO 160	ISO160B	304 S.S.	7.09	180	6.02	153	0.47	12.0	6.89	175
ISO 200	ISO200B	304 S.S.	9.45	240	8.39	213	0.47	12.0	9.25	235
ISO 250	ISO250B	304 S.S.	11.42	290	10.28	261	0.47	12.0	11.22	285
ISO 320	ISO320B	304 S.S.	14.57	370	12.52	318	0.67	17.0	14.37	365
ISO 400	ISO400B	304 S.S.	17.72	450	15.75	400	0.67	17.0	17.52	445
ISO 500	ISO500B	304 S.S.	21.65	550	19.72	501	0.67	17.0	21.46	545



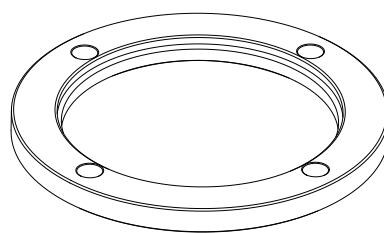
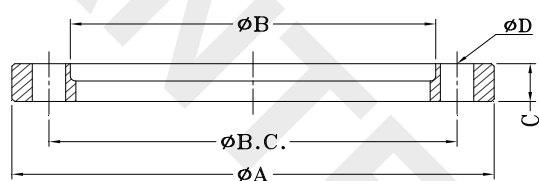
Bored Flange												
Size	Model No.	Material	A		B		C		D		E	
			in	mm	in	mm	in	mm	in	mm	in	mm
ISO 63	ISO63B63	304 S.S.	3.74	95	2.76	70	0.47	12.0	3.54	90	2.51	63.7
ISO 80	ISO80B76	305 S.S.	4.33	110	3.27	83	0.47	12.0	4.13	105	3.01	76.4
ISO 100	ISO100B102	304 S.S.	5.12	130	4.02	102	0.47	12.0	4.92	125	4.01	101.8
ISO 160	ISO160B153	304 S.S.	7.09	180	6.02	153	0.47	12.0	6.89	175	6.02	152.9
ISO 200	ISO200B204	304 S.S.	9.45	240	8.39	213	0.47	12.0	9.25	235	8.02	203.7
ISO 250	ISO250B255	304 S.S.	11.42	290	10.28	261	0.47	12.0	11.22	285	10.02	254.5
ISO 320	ISO320B305	304 S.S.	14.57	370	12.52	318	0.67	17.0	14.37	365	12.02	305.3
ISO 400	ISO400B407	304 S.S.	17.72	450	15.75	400	0.67	17.0	17.52	445	16.02	406.9
ISO 500	ISO500B509	304 S.S.	21.65	550	19.72	501	0.67	17.0	21.46	545	20.03	508.8



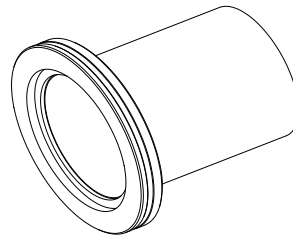
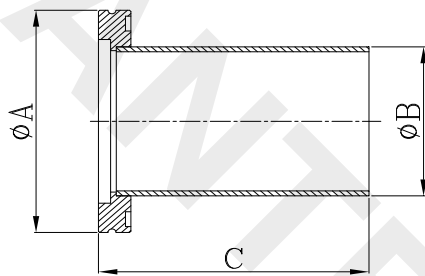
Bolted Flange														
Size	Model No.	Material	A		B		C		D		E		B.C.	
			in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
ISO 63	ISO63B	304 S.S.	5.12	130	2.76	70	0.47	12.0	2.51	63.7	.35 x 4	9 x 4	4.33	110.00
ISO 80	ISO80B	304 S.S.	5.71	145	3.27	83	0.47	12.0	3.01	76.4	.35 x 8	9 x 8	4.92	125.00
ISO 100	ISO100	304 S.S.	6.50	165	4.02	102	0.47	12.0	4.01	101.8	.35 x 8	9 x 8	5.71	145.00
ISO 160	ISO160	304 S.S.	8.86	225	6.02	153	0.63	16.0	6.02	152.9	.43 x 8	11 x 8	7.87	200.00
ISO 200	ISO200	304 S.S.	11.22	285	8.39	213	0.63	16.0	8.02	203.7	.43 x 12	11 x 12	10.24	260.00
ISO 250	ISO250	304 S.S.	13.19	335	10.28	261	0.63	16.0	10.02	254.5	.43 x 12	11 x 12	12.20	310.00
ISO 320	ISO320	304 S.S.	16.73	425	12.52	318	0.79	20.0	12.02	305.3	.55 x 12	14 x 12	15.55	395.00
ISO 400	ISO400	304 S.S.	20.08	510	15.75	400	0.79	20.0	16.02	406.9	.55 x 16	14 x 16	18.90	480.00
ISO 500	ISO500	304 S.S.	24.02	610	19.72	501	0.79	20.0	20.03	508.8	.55 x 16	14 x 16	22.83	580.00



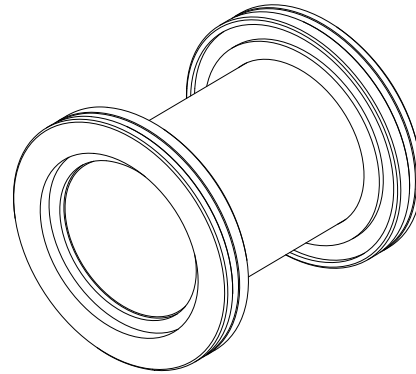
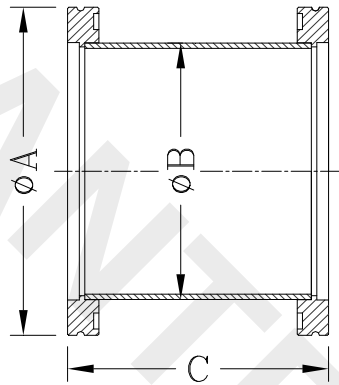
Bolted Flange-Tapped													
Size	Mode No.	Material	A		B		C		D		E	B.C.	
			in	mm	in	mm	in	mm	in	mm	in	in	mm
ISO 63	ISO63BF	304 S.S.	5.12	130	2.76	70	0.47	12	2.51	63.7	5/16-24	4.33	110
ISO 80	ISO80BF	304 S.S.	5.71	145	3.27	83	0.47	12	3.01	76.4	5/16-24	4.92	125
ISO 100	ISO100B	304 S.S.	6.50	165	4.02	102	0.47	12	4.01	101.8	5/16-24	5.71	145
ISO 160	ISO160B	304 S.S.	8.86	225	6.02	153	0.63	16	6.02	152.9	3/8-24	7.87	200
ISO 200	ISO200B	304 S.S.	11.22	285	8.39	213	0.63	16	8.02	203.7	3/8-24	10.24	260
ISO 250	ISO250B	304 S.S.	13.19	335	10.28	261	0.63	16	10.02	254.5	3/8-24	12.20	310
ISO 320	ISO320B	304 S.S.	16.73	425	12.52	318	0.79	20	12.02	305.3	7/16-24	15.55	395
ISO 400	ISO400B	304 S.S.	20.08	510	15.75	400	0.79	20	16.02	406.9	7/16-24	18.90	480
ISO 500	ISO500B	304 S.S.	24.02	610	19.72	501	0.79	20	20.03	508.8	7/16-24	22.83	580



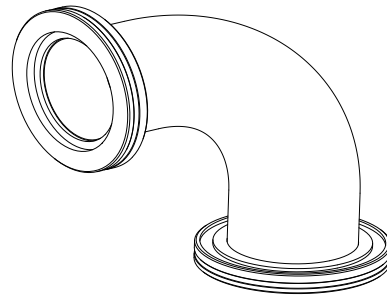
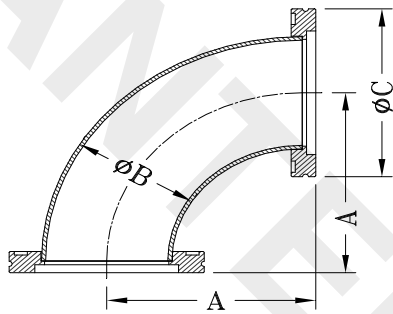
Rotatable Bolt Ring												
Size	Model No.	Material	A		B		C		D		B.C.	
			in	mm	in	mm	in	mm	in	mm	in	mm
ISO 63	ISO63RBR	304 S.S.	5.12	130	3.88	98.5	0.47	12.0	.35 x 4	9 x 4	4.33	110.0
ISO 80	ISO80RBR	304 S.S.	5.71	145	4.47	113.5	0.47	12.0	.35 x 8	9 x 8	4.92	125.0
ISO 100	ISO100RB	304 S.S.	6.50	165	5.26	133.5	0.47	12.0	.35 x 8	9 x 8	5.71	145.0
ISO 160	ISO160RB	304 S.S.	8.86	225	7.31	185.7	0.63	16.0	.43 x 8	11 x 8	7.87	200.0
ISO 200	ISO200RB	304 S.S.	11.22	285	9.67	245.7	0.63	16.0	.43 x	11 x 12	10.24	260.0
ISO 250	ISO250RB	304 S.S.	13.19	335	11.64	295.7	0.63	16.0	.43 x12	11 x 12	12.20	310.0
ISO 320	ISO320RB	304 S.S.	16.73	425	14.80	375.8	0.79	20.0	.55 x	14 x 12	15.55	395.0
ISO 400	ISO400RB	304 S.S.	20.08	510	18.06	458.8	0.79	20.0	.55 x	14 x 16	18.90	480.0
ISO 500	ISO500RB	304 S.S.	24.02	610	22.00	558.8	0.79	20.0	.55 x	14 x 16	22.83	580.0



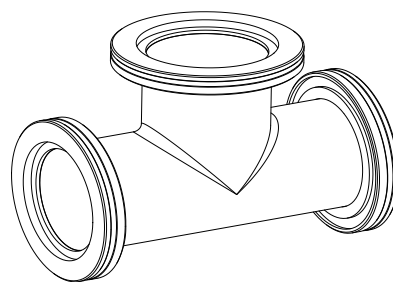
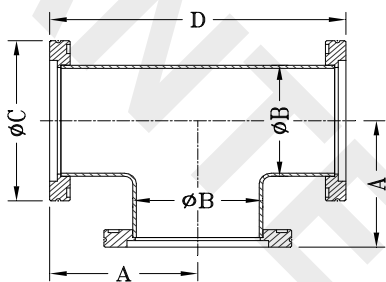
Welding Neck Flange								
Size	Model No.	Material	A		B		C	
			in	mm	in	mm	in	mm
ISO 63	ISO63HN	304 S.S.	3.74	95	2.50	63.5	3.94	100
ISO 80	ISO80HN	304 S.S.	4.33	110	3.00	76.2	3.94	100
ISO 100	ISO100HN	304 S.S.	5.12	130	4.00	101.6	3.94	100
ISO 160	ISO160HN	304 S.S.	7.09	180	6.00	152.4	3.94	100
ISO 200	ISO200HN	304 S.S.	9.45	240	8.00	203.2	3.94	100
ISO 250	ISO250HN	304 S.S.	11.42	290	10.00	254.0	3.94	100
ISO 320	ISO320HN	304 S.S.	14.57	370	12.00	304.8	3.94	100
ISO 400	ISO400HN	304 S.S.	17.72	450	16.02	406.8	3.94	100
ISO 500	ISO500HN	304 S.S.	21.65	550	20.00	508.0	3.94	100



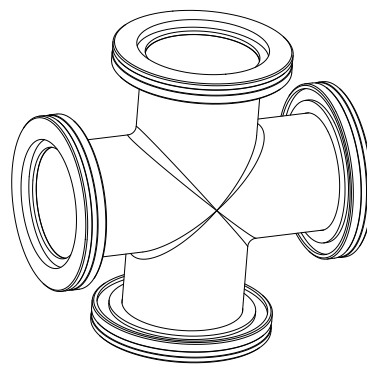
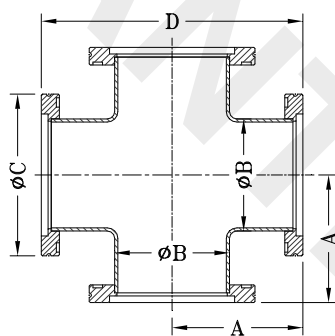
ISO Full Nipples								
Size	Model No.	Material	A		B		C	
			in	mm	in	mm	in	mm
ISO 63	ISO63N	304 S.S.	3.74	95	2.5	63.5	3.94	100
ISO 80	ISO80N	304 S.S.	4.33	110	3.0	76.2	3.94	100
ISO 100	ISO100N	304 S.S.	5.12	130	4.0	101.6	3.94	100
ISO 160	ISO160N	304 S.S.	7.09	180	6.0	152.4	3.94	100
ISO 200	ISO200N	304 S.S.	9.45	240	8.0	203.2	3.94	100
ISO 250	ISO250N	304 S.S.	11.42	290	10.0	254.0	3.94	100
ISO 320	ISO320N	304 S.S.	14.57	370	12.0	304.8	7.87	200
ISO 400	ISO400N	304 S.S.	17.72	450	16.0	406.4	7.87	200
ISO 500	ISO500N	304 S.S.	21.65	550	20.0	508.0	7.87	200



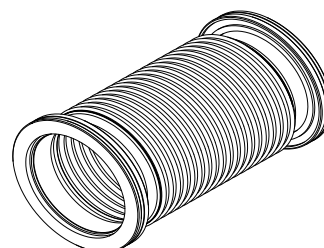
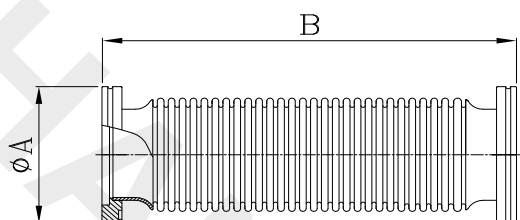
ISO 90° Elbows								
Size	Model No.	Material	A		B		C	
			in	mm	in	mm	in	mm
ISO 63	ISO63EL90A	304 S.S.	5.45	138.4	2.50	63.5	3.74	95
ISO 80	ISO80EL90A	304 S.S.	6.57	166.9	3.00	76.2	4.33	110
ISO 100	ISO100EL90	304 S.S.	8.57	217.7	4.00	101.6	5.12	130
ISO 160	ISO160EL90	304 S.S.	9.26	235.2	6.00	152.4	7.09	180



ISO Tees										
Size	Model No.	Material	A		B		C		D	
			in	mm	in	mm	in	mm	in	mm
DY-ISO 63	ISO63TA	304 S.S.	3.26	82.80	2.5	63.5	3.74	95	6.52	165.6
DY-ISO 80	ISO80TA	304 S.S.	3.51	89.15	3.0	76.2	4.33	110	7.02	178.3
DY-ISO 100	ISO100TA	304 S.S.	4.13	105.00	4.0	101.6	5.12	130	8.27	210.0
DY-ISO 160	ISO160TA	304 S.S.	5.26	133.60	6.0	152.4	7.09	180	10.52	267.2

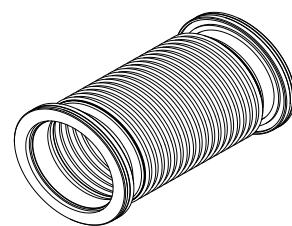
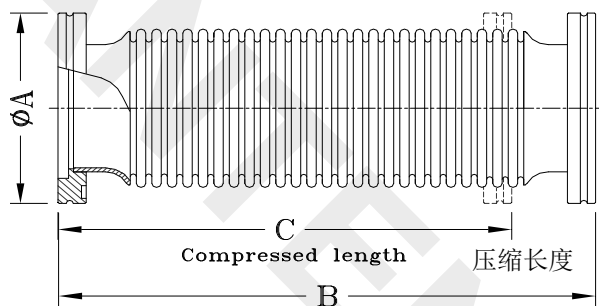


ISO 4-Way Crosses										
Size	Model No.	Material	A		B		C		D	
			in	mm	in	mm	in	mm	in	mm
DY-ISO 63	ISO63XA	304 S.S.	3.26	82.80	2.50	63.5	3.74	95	6.52	165.6
DY-ISO 80	ISO80XA	304 S.S.	3.51	89.15	3.00	76.2	4.33	110	7.02	178.3
DY-ISO 100	ISO100XA	304 S.S.	4.13	105.00	4.00	101.6	5.12	130	8.27	210.0
DY-ISO 160	ISO160XA	304 S.S.	5.26	133.60	6.00	152.4	7.09	180	10.52	267.2

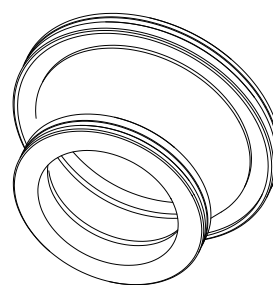
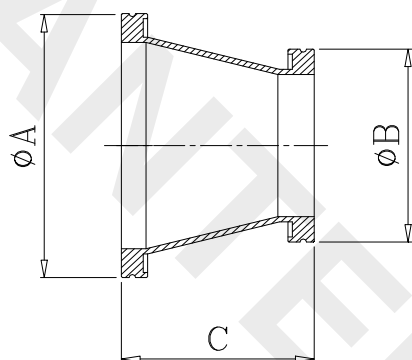


ISO Flexible Hoses

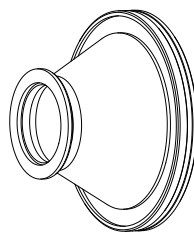
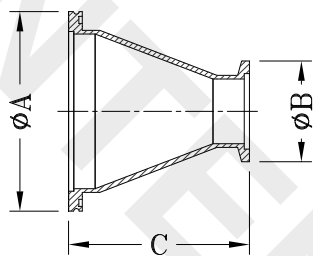
Size	Model No.	Material	A		B	
			in	mm	in	mm
ISO 63	ISO63FX250	304 S.S.	3.74	95	9.84	250
ISO 63	ISO63FX500	304 S.S.	3.74	95	19.69	500
ISO 63	ISO63FX750	304 S.S.	3.74	95	29.53	750
ISO 63	ISO63FX1000	304 S.S.	3.74	95	39.37	1,000
ISO 80	ISO80FX250	304 S.S.	4.33	110	9.84	250
ISO 80	ISO80FX500	304 S.S.	4.33	110	19.69	500
ISO 80	ISO80FX750	304 S.S.	4.33	110	29.53	750
ISO 80	ISO80FX1000	304 S.S.	4.33	110	39.37	1,000
ISO 100	ISO100FX250	304 S.S.	5.12	130	9.84	250
ISO 100	ISO100FX500	304 S.S.	5.12	130	19.69	500
ISO 100	ISO100FX750	304 S.S.	5.12	130	29.53	750
ISO 100	ISO100FX1000	304 S.S.	5.12	130	39.37	1,000



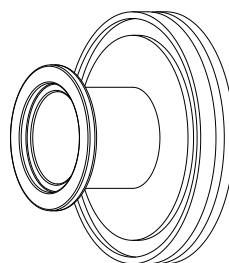
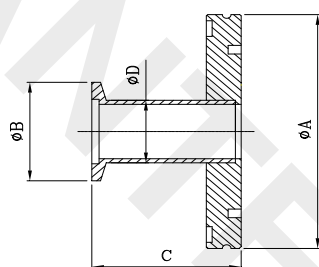
ISO Compressible Bellows Connections								
Size	Model No.	Material	A		B		C	
			in	mm	in	mm	in	mm
ISO 63	ISO63FXC140	304 S.S.	3.74	95	5.51	140	4.92	125
ISO 80	ISO80FXC187	304 S.S.	4.33	110	7.36	187	6.30	160
ISO 100	ISO100FXC187	304 S.S.	5.12	130	7.36	187	6.30	160



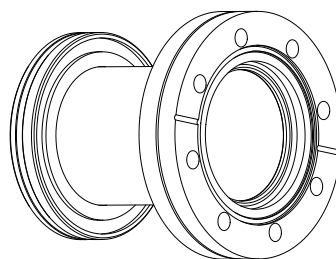
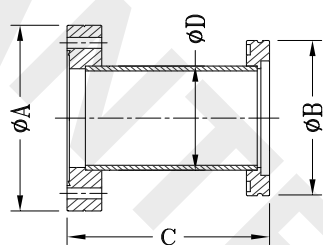
ISO - ISO Conical Reducing Adaptor								
Size	Model No.	Material	A		B		C	
			in	mm	in	mm	in	mm
ISO80 x ISO63	ISO80RA63	304 S.S.	4.33	110	3.74	95	2.48	63
ISO100 x ISO63	ISO100RA63	304 S.S.	5.12	130	3.74	95	2.48	63
ISO100 x ISO80	ISO100RA80	304 S.S.	5.12	130	4.33	110	2.48	63
ISO160 x ISO63	ISO160RA63	304 S.S.	7.09	180	3.74	95	2.48	63



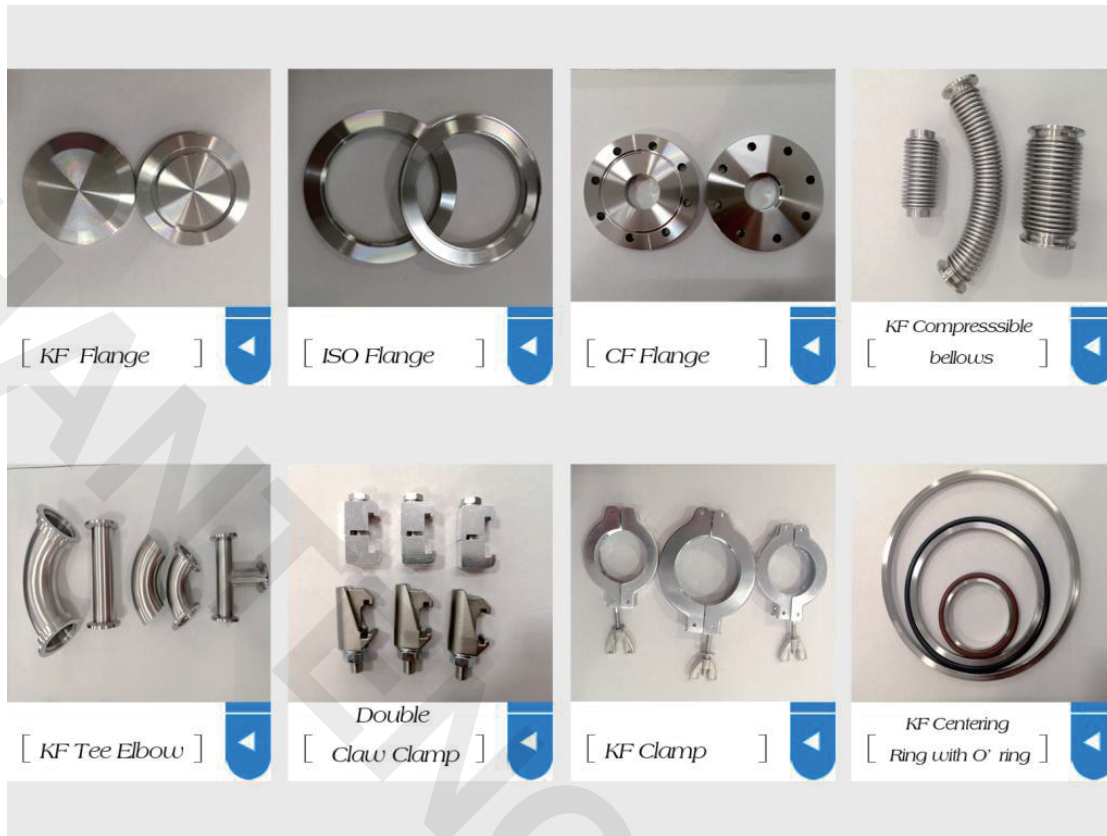
ISO - KF Conical Reducing Adaptor								
Size	Model No.	Material	A		B		C	
			in	mm	in	mm	in	mm
ISO80 x NW40	ISO80KRA40	304 S.S.	4.33	110	2.17	55	2.48	63
ISO100 x NW40	ISO100KRA40	304 S.S.	5.12	130	2.17	55	2.48	63
ISO80 x NW50	ISO80KRA50	304 S.S.	4.33	110	2.95	75	2.48	63
ISO100 x NW50	ISO100KRA50	304 S.S.	5.12	130	2.95	75	2.48	63



ISO - KF Tubulated Adaptor										
Size	Mode No.	Material	A		B		C		D	
			in	mm	in	mm	in	mm	in	mm
ISO63 x NW25	ISO63KA25	304 S.S.	3.74	95.0	1.57	40	1.65	42	1.00	25.4
ISO63 x NW40	ISO63KA40	304 S.S.	3.74	95.0	2.17	55	1.65	42	1.50	38.1
ISO63 x NW50	ISO63KA50	304 S.S.	3.74	95.0	2.95	75	1.65	42	2.00	50.8
ISO80 x NW40	ISO80KA40	304 S.S.	4.33	110.0	2.17	55	1.65	42	1.50	38.1
ISO80 x NW50	ISO80KA50	304 S.S.	4.33	110.0	2.95	75	1.65	42	2.00	50.8
ISO100 x NW40	ISO100KA40	304 S.S.	5.12	130.0	2.17	55	1.65	42	1.50	38.1
ISO100 x NW50	ISO100KA50	304 S.S.	5.12	130.0	2.95	75	1.65	42	2.00	50.8



ISO - CF Tubulated Adaptor										
Size	Model No.	Material	A		B		C		D	
			in	mm	in	mm	in	mm	in	mm
CF63 (450) x ISO63	CF63S63A	304 S.S.	4.47	113.6	3.74	95	3.54	90	2.50	63.5
CF100 (600) x ISO63	CF100S63A	304 S.S.	5.97	151.6	3.74	95	3.54	90	2.50	63.5
CF100 (600) x ISO100	CF100S100A	304 S.S.	5.97	151.6	5.12	130	3.54	90	4.00	101.6
CF100 (600) x ISO160	ISO160C100A	304 S.S.	5.97	151.6	7.09	180	3.54	90	4.00	101.6
CF150 (800) x ISO63	CF150S63A	304 S.S.	7.97	202.5	3.74	95	3.54	90	2.50	63.5
CF150 (800) x ISO100	CF150S100A	304 S.S.	7.97	202.5	5.12	130	3.54	90	4.00	101.6
CF150 (800) x ISO160	ISO160C150A	304 S.S.	7.97	202.5	7.09	180	3.54	90	6.00	152.4



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