

# VACUUM FITTINGS & COMPONENTS

MechaTech Systems Ltd supply a wide range of NW/KF/ISO vacuum components, detailed herein, high quality, competitively priced. If you are unfamiliar with high vacuum components and not sure what to order, please contact us and we will be pleased to advise.

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SINGLE SOURCE STOCKISTS OF VACUUM PUMPS  
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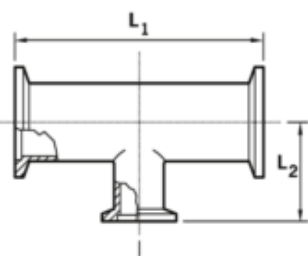
UK MANUFACTURERS OF FREEZE DRYERS,  
AND HIGH VACUUM SYSTEMS

MechaTech Systems Ltd, Units 9 and 10, Brunel Way, Thornbury Industrial Estate, Thornbury, Bristol. BS35 3UR  
Registered in England and Wales No.6469333 | VAT Reg no: 928 7530 93 | DUNS No: 211040934



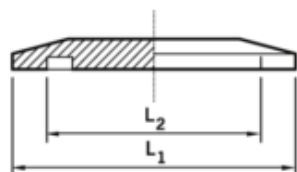
# NW/KF VACUUM FITTINGS

size	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	D	part numbers
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## Reducing T-Piece - Stainless Steel

NW25/16	100	27.4			KS-25-040
NW40/16	130	33.5			KS-40-040
NW40/25	130	65			KS-40-041
NW50/16	140	40			KS-50-040
NW50/25	140	65			KS-50-041

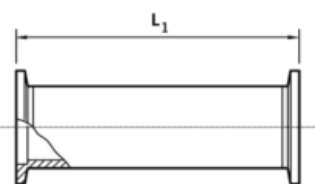


## Blank Flange - Aluminium

NW10	30	12.2			KA-10-026
NW16	30	17.2			KA-16-026
NW25	40	26.2			KA-25-026
NW40	55	41.2			KA-40-026

## Blank Flange - Stainless Steel

NW10	30	12.2			KS-10-026
NW16	30	17.2			KS-16-026
NW25	40	26.2			KS-25-026
NW40	55	41.2			KS-40-026
NW50	75	52.2			KS-50-026



## Full Nipple - Aluminium

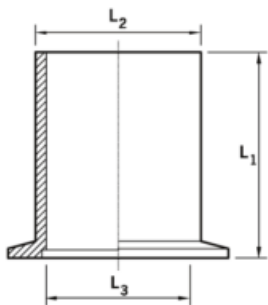
NW10	60				KA-10-028
NW16	80				KA-16-028
NW25	100				KA-25-028
NW40	130				KA-40-028

## Full Nipple - Stainless Steel

NW10	60				KS-10-028
NW16	80				KS-16-028
NW25	100				KS-25-028
NW40	130				KS-40-028
NW50	140				KS-50-028

# NW/KF VACUUM FITTINGS

**size** **L<sub>1</sub>** **L<sub>2</sub>** **L<sub>3</sub>** **D** **part numbers**



For inch tube: D= tube OD

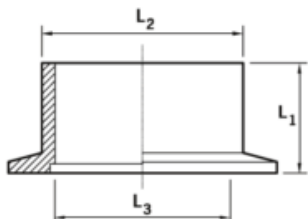
## Long Flange Weld Stub – Stainless Steel

NW10	70	15	10		KS-10-025
NW16	70	20	16		KS-16-025
NW25	70	28	24		KS-25-025
NW40	70	44.5	41		KS-40-025
NW50	70	57	51		KS-50-025

## - For inch tube

NW10	40	12.7	9.3	½	KS-10-006
NW16	40	19.1	15.7	¾	KS-16-007
NW25	40	25.4	22	1	KS-25-008
NW40	40	38.1	34.7	1 ½	KS-40-009
NW50	40	50.8	47.4	2	KS-50-010

## Short Flange Weld Stub – Stainless Steel



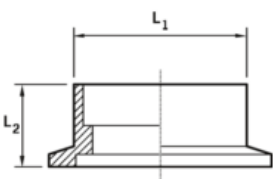
For inch tube: D= tube OD

NW10	30	15	10		KS-10-024
NW16	30	20	16		KS-16-024
NW25	30	28	24		KS-25-024
NW40	30	44.5	41		KS-40-024
NW50	30	57	51		KS-50-024

## - For inch tube

NW10	12.7	12.7	9.3	½	KS-10-001
NW16	12.7	19.1	15.7	¾	KS-16-002
NW25	12.7	25.4	22	1	KS-25-003
NW40	19.1	38.1	34.7	1 ½	KS-40-004
NW50	19.1	50.8	47.4	2	KS-50-005

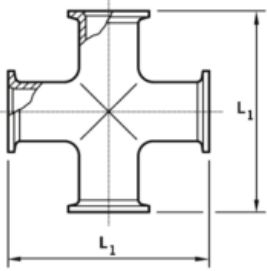

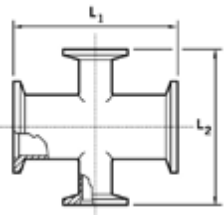
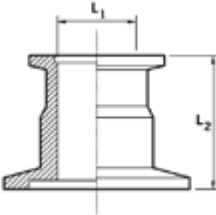
## Weld Socket Flange for Inch Tube – Stainless Steel



L<sub>3</sub> tube

NW16	15.5	12.7	12.7	½	KS-16-011
NW16	22.1	12.7	19.1	¾	KS-16-012
NW25	28.6	12.7	25.4	1	KS-25-013
NW40	44.5	12.7	38.1	1 ½	KS-40-014
NW50	57.2	15.7	50.8	2	KS-50-015

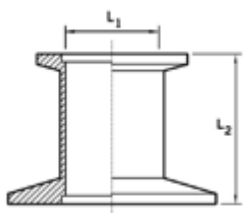
# NW/KF VACUUM FITTINGS

	size	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	D	part numbers
	Cross Piece – Aluminium					
	NW10	60				KA-10-031
	NW16	80				KA-16-031
	NW25	100				KA-25-031
	NW40	130				KA-40-031
	- Stainless Steel					
	NW10	60				KS-10-031
	NW16	80				KS-16-031
	NW25	100				KS-25-031
	NW40	130				KS-40-031
	NW50	140				KS-50-031
	Reducing Cross – Stainless Steel					
	NW25/10	70	70			KS-25-049
	NW25/16	100	80			KS-25-047
	NW40/16	130	80			KS-40-047
	NW40/25	130	100			KS-40-048
	NW50/25	140	100			KS-50-048
	Reducing Piece – Aluminium					
	NW25/10	10	40			KA-25-042
	NW25/16	10	40			KA-25-043
	NW40/25	24	40			KA-40-044
	NW40/16	16	40			KA-40-043
	NW50/16	16	40			KA-50-043
	NW50/25	24	40			KA-50-044
	NW50/40	41	40			KA-50-045

Can't see what you need? We also offer bespoke vacuum fittings. Please contact us for details

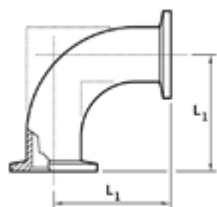
# NW/KF VACUUM FITTINGS

size	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	D	part numbers
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### Reducing Piece - Stainless Steel

NW25/10	10	40			KS-25-042
NW25/16	16	40			KS-25-043
NW40/25	16	40			KS-40-044
NW40/16	24	40			KS-40-043
NW50/16	16	40			KS-50-043
NW50/25	24	40			KS-50-044
NW50/40	40	40			KS-50-045



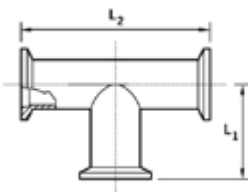
### Elbow 90° - Aluminium

NW10	30				KA-10-029
NW16	40				KA-16-029
NW25	50				KA-25-029
NW40	65				KA-40-029

### - Stainless steel

NW10	30				KS-10-029
NW16	40				KS-16-029
NW25	50				KS-25-029
NW40	60				KS-40-029
NW50	80.5				KS-50-029

### T-Piece - Aluminium



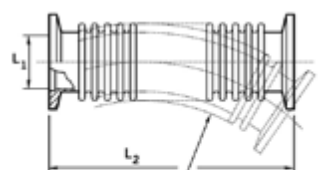
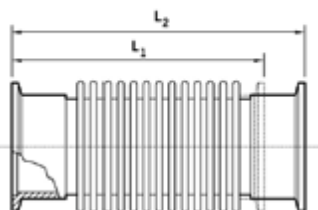
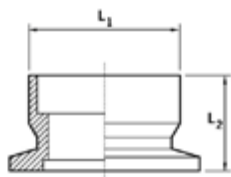
NW10	30	60			KA-10-030
NW16	40	80			KA-16-030
NW25	50	100			KA-25-030
NW40	65	130			KA-40-030



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# NW/KF VACUUM FITTINGS

size	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	D	part numbers
<b>T-Piece - Stainless Steel</b>					
NW10	30	60			KS-10-030
NW16	40	80			KS-16-030
NW25	50	100			KS-25-030
NW40	65	130			KS-40-030
NW50	70	140			KS-50-030
<b>Coupling Body – Brass</b>					
NW10	18	13			C105-11-328
NW25	32	20			C105-14-328
NW40	46	18			C105-16-628
<b>Flexible Bellows – stainless steel</b>					
NW10	65	85			KS-10-046
NW16	65	85			KS-16-046
NW25	65	85			KS-25-046
NW40	65	85			KS-40-046
NW50	80	100			KS-50-046
<b>Flexible pipelines – stainless steel</b>					
NW10	12.2	250	30	100	KS-10-021
NW16	17.2	250	30	100	KS-16-021
NW25	26.2	250	50	210	KS-25-021
NW40	41.2	250	80	260	KS-40-021
NW50	52.2	250	100	320	KS-50-021
NW10	12.2	500	30	100	KS-10-022
NW16	17.2	500	30	130	KS-06-022
NW25	26.2	500	50	210	KS-25-022
NW40	41.2	500	80	260	KS-40-022
NW50	52.2	500	100	320	KS-50-022
NW10	12.2	1000	30	100	KS-10-023
NW16	17.2	1000	30	130	KS-16-023



L<sub>3</sub> = minimum bend radius, static  
D = minimum bend radius, dynamic

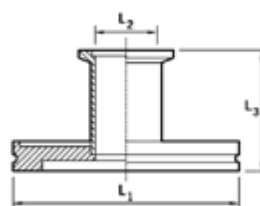
# NW/KF VACUUM FITTINGS

size	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	D	part numbers
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## Flexible pipelines – stainless steel (continued from overleaf)

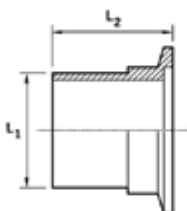
NW25	26.2	1000	50	210	KS-25-023
NW40	41.2	1000	80	260	KS-40-023
NW50	52.2	1000	100	320	KS-50-023

## Adaptor NW/ISO – stainless steel



NW25/ISO63	95	25	50		IS-63-044
NW40/ISO63	95	40	50		IS-63-045
NW40/ISO100	130	40	50		IS-10-045
NW50/ISO100	130	50	50		IS-10-055

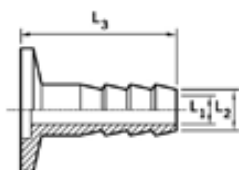
## Adaptor PVC Hose – Stainless steel



D = hose internal diameter

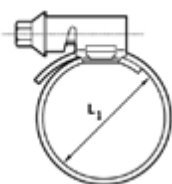
NW10/ ½" in hose	12.7	32		12.7	KS-10-016
NW16/ ½ in hose	12.7	32		12.7	KS-16-016
NW16/ ¾ in hose	19.1	32		19.1	KS-16-017
NW25/ 1 in hose	25.4	38.1		25.4	KS-25-018
NW40/1 ½ in hose	38.1	50		38.1	KS-40-019
NW50/2 in hose	47.4	55		50.8	KS-50-020

## Nozzle – Aluminium



NW10	7	12	40		KA-10-032
NW25	7	12	40		KA-25-032
NW40	7	12	40		KA-40-032

## PVC hose clamp – stainless steel



NW10/16	25				KS-10-039
NW25	36				KS-25-039
NW40	50				KS-40-039
NW50	60				KS-50-039

# NW/KF VACUUM FITTINGS

size	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	D	part numbers
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Centering ring with 'O' ring- fluoroelastomer/stainless steel carrier

NW10	12	3.9	8		KS-10-127
NW16	17	3.9	8		KS-16-127
NW25	26	3.9	8		KS-25-127
NW40	41	3.9	8		KS-40-127
NW50	52	3.9	8		KS-50-127

- Fluoroelastomer/aluminium carrier

NW10	12	3.9	8		KA-10-127
NW16	17	3.9	8		KA-16-127
NW25	26	3.9	8		KA-25-127
NW40	41	3.9	8		KA-40-127

- Nitrile/stainless steel carrier

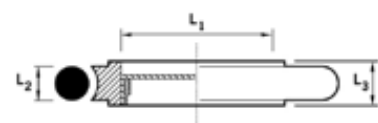
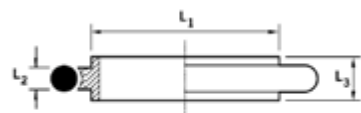
NW10	12	3.9	8		KS-10-227
NW16	17	3.9	8		KS-16-227
NW25	26	3.9	8		KS-25-227
NW40	41	3.9	8		KS-40-227
NW50	52	3.9	8		KS-50-227

- Nitrile/ aluminium steel carrier

NW10	12	3.9	8		KA-10-227
NW16	17	3.9	8		KA-16-227
NW25	26	3.9	8		KA-25-227
NW40	41	3.9	8		KA-40-227

Centering Ring with Screen- fluoroelastomer/stainless steel

NW16	16	3.9	8		KS-16-133
NW25	25	3.9	8		KS-25-133
NW40	40	3.9	8		KS-40-133
NW50	50	3.9	8		KS-50-133





# NW/KF VACUUM FITTINGS

size	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	D	part numbers
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Co-Seal – Nitrile/aluminium carrier



NW10/16	36	7			<b>B271-58-480</b>
NW20/25	42	7			<b>B271-58-490</b>
NW32/40	57	7			<b>B271-58-500</b>

Fluoroelastomer/aluminium carrier

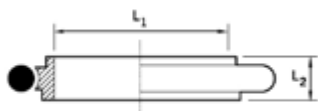
NW10/16	32	7			<b>B271-58-481</b>
NW20/25	42	7			<b>B271-58-491</b>
NW32/40	57	7			<b>B271-58-501</b>

Metal seals – Aluminium



NW10/16	32	7			<b>C271-59-004</b>
NW20/25	42	7			<b>C271-59-005</b>
NW32/40	57	7			<b>C271-59-006</b>
NW50	77	7			<b>C271-59-007</b>

Adapting Centering Ring with 'O' Ring – Nitrile

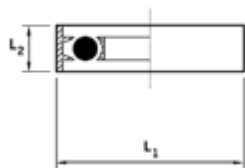


NW10/16 stainless steel	10	8			<b>KS-10-234</b>
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Fluoroelastomer

NW10/16 stainless steel	10	8			<b>KS-10-134</b>
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NW Trapped 'O' Ring – Fluoroelastomer/stainless steel/aluminium



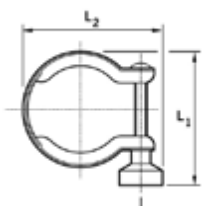
NW10/16	32.5	7			<b>KA-10-138</b>
NW25	42.5	7			<b>KA-25-138</b>
NW40	57.5	7			<b>KA-40-138</b>
NW50	77.5	7			<b>KA-50-138</b>



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# NW/KF VACUUM FITTINGS S

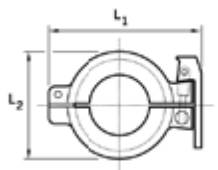
size	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	D	part numbers
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### Clamping ring – stainless steel

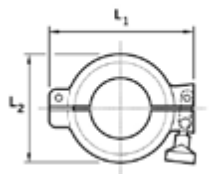
NW10/16	44	46			<b>C105-12-401</b>
NW20/25	60	60			<b>C105-14-401</b>
NW32/40	73	75			<b>C105-16-401</b>
NW50	90	96			<b>C105-17-401</b>

### Hinged Clamp- Aluminium



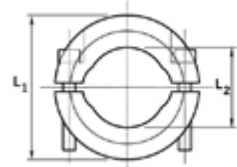
NW10/16	68	40			<b>C105-12-402</b>
NW20/25	80	50			<b>C105-14-402</b>
NW32/40	95	66			<b>C105-16-402</b>

### Swing Clamp- Aluminium



NW10/16	62	40			<b>KA-10-036</b>
NW20/25	75	50			<b>KA-25-036</b>
NW32/40	90	66			<b>KA-40-036</b>
NW50	120	86			<b>KA-50-036</b>

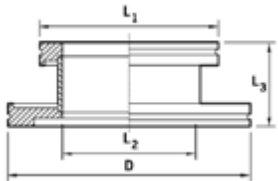
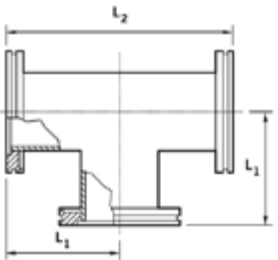
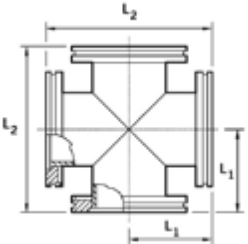
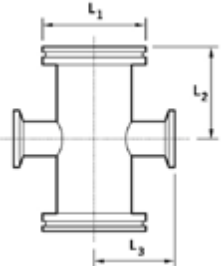
### Clamp (Metal Seals)- Stainless steel



NW10/16	54	22			<b>KS-10-037</b>
NW20/25	64	32			<b>KS-25-037</b>
NW32/40	82	47			<b>KS-40-037</b>
NW50	112	62			<b>KS-50-037</b>



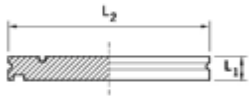
# ISO VACUUM FITTINGS

size	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	D	part numbers	
<b>ISO/ISO Adapting Piece- Stainless steel</b>						
	ISO100/ISO63	95	70	50	130	<b>IS-10-058</b>
	ISO160/ISO63	95	70	50	180	<b>IS-16-058</b>
	ISO160/ISO100	130	102	50	180	<b>OS-16-059</b>
<b>T-Piece- Stainless steel</b>						
	ISO63	88	176			<b>IS-63-030</b>
	ISO100	108	216			<b>IS-10-030</b>
	ISO160	138	276			<b>IS-16-030</b>
<b>Cross Piece- Stainless Steel</b>						
	ISO63	88	176			<b>IS-63-031</b>
	ISO100	108	216			<b>IS-10-031</b>
	ISO160	138	276			<b>IS-16-031</b>
<b>ISO To NW Reducing Cross- Stainless Steel</b>						
	ISO63/NW16	95	102	58		<b>IS-63-047</b>
	ISO63/NW25	95	102	79		<b>IS-63-048</b>
	ISO63/NW40	95	102	76		<b>IS-63-056</b>
	ISO100-NW25	130	130	98		<b>IS-10-048</b>
	ISO100-NW40	130	130	95		<b>IS-10-056</b>
	ISO160-NW40	180	160	121		<b>IS-16-056</b>
	ISO160/NW50	180	160	136		<b>IS-16-057</b>

Make the right connections with MechaTech Systems

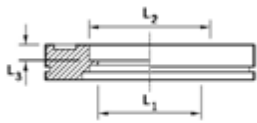
# ISO VACUUM FITTINGS

size	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	D	part numbers
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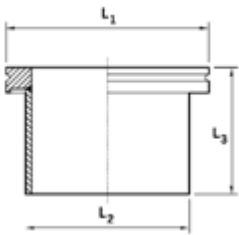
## Blanking Flange For Use With Collar Flange- Stainless Steel

ISO63	12	95			IS-63-026
ISO100	12	130			IS-10-026
ISO160	12	180			IS-16-026



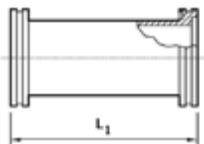
## ISO Bored Flange- Stainless Steel

ISO63	60.2	63.5	5.5		IS-63-061
ISO100	98.3	102	5.5		IS-10-061
ISO160	148	152	5.5		IS-16-061



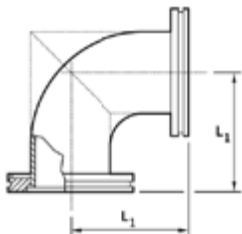
## Collar Weld Stub- Stainless Steel

ISO63	95	76	100		IS-63-025
ISO100	130	108	100		IS-10-025
ISO160	180	159	100		IS-16-025



## Nipple- Stainless Steel

ISO63	176				IS-63-028
ISO100	216				IS-10-028
ISO160	276				IS-16-028



## Elbow 90° - Stainless Steel

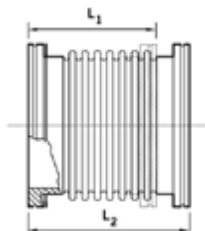
ISO63	88				IS-63-029
ISO100	108				IS-10-029
ISO160*	138				IS-16-029

\* Shown dotted

# ISO VACUUM FITTINGS

size	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	D	part numbers
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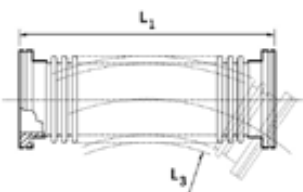
### Flexible Elbows- Stainless Steel AISI 316L DIN 1.4404



ISO63	130	150			IS-63-046
ISO100	130	150			IS-10-046
ISO160	130	150			IS-16-046

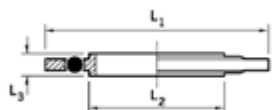
### Flexible Pipelines- Stainless Steel

ISO63	250	140			IS-63-021
ISO100	250	200			IS-10-021
ISO63	500	140			IS-63-022
ISO100	500	200			IS-10-022
ISO63	1000	140			IS-63-023
ISO100	1000	200			IS-10-023



L<sub>3</sub> = minimum bend radius, static

### Trapped O-ring- Stainless Steel-Aluminium outer



ISO63	95	70	8		IS-63-238
ISO100	128	102	8		IS-10-238
ISO160	179	153	8		IS-16-238

### \*Fluoroelastomer

ISO63	95	70	8		IS-63-138
ISO100	128	102	8		IS-10-138
ISO160	179	153	8		IS-16-138

### Claw Clamps-Aluminium



ISO63/ISO100					IA-63-054
ISO160/ISO250					IA-16-054

Number required: ISO63 – 4, ISO109 – 6, ISO160 -8, ISO250 – 10

# ISO VACUUM FITTINGS

size	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	D	part numbers
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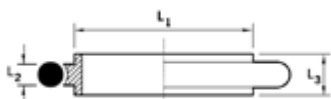
Trapped 'O' Ring – Aluminium centering ring, aluminium outer ring, fluoroelastomer



ISO63	95	70	8		<b>IA-63-138</b>
ISO100	128	102	8		<b>IA-10-138</b>
ISO160	179	153	8		<b>IA-16-138</b>

Centering Ring With 'O' Ring- Stainless Steel

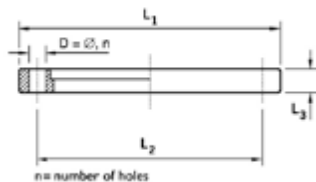
- Nitrile



ISO63	70	5.3	8		<b>IS-63-227</b>
ISO100	102	5.3	8		<b>IS-10-227</b>
ISO160	153	6.99	8		<b>IS-16-227</b>

- Fluoroelastomer

ISO63	70	5.3	8		<b>IS-63-127</b>
ISO100	102	5.3	8		<b>IS-10-127</b>
ISO160	153	6.99	8		<b>IS-16-127</b>



Rotatable Flange with Fitting Kit - Mild steel nickel plated

ISO63	130	110	12	9	4	<b>IN-63-060</b>
ISO100	165	145	12	9	8	<b>IN-10-060</b>
ISO160	225	200	16	11	8	<b>IN-16-060</b>



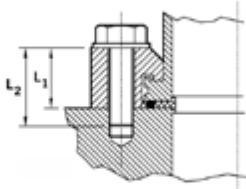
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# ISO VACUUM FITTINGS

size	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	D	part numbers
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Half Claw Clamp for Use With Centering Ring (Tapped Holes)

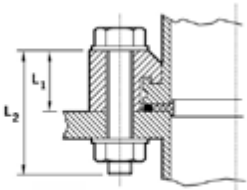
-Zinc plated mild steel body, stainless bolt



ISO63	22.5	35	M8	4	<b>IZ-63-052</b>
ISO100	22.5	35	M8	8	<b>IZ-10-052</b>
ISO160	23	40	M10	8	<b>IZ-16-052</b>

Half Claw Clamp For Use With Centering Ring (Clear Hole)

-Zinc plated mild steel body, stainless bolt



ISO63	22.5	35	M8	4	<b>IZ-63-053</b>
ISO100	22.5	35	M8	8	<b>IZ-10-053</b>
ISO160	23	40	M10	8	<b>IZ-16-053</b>



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