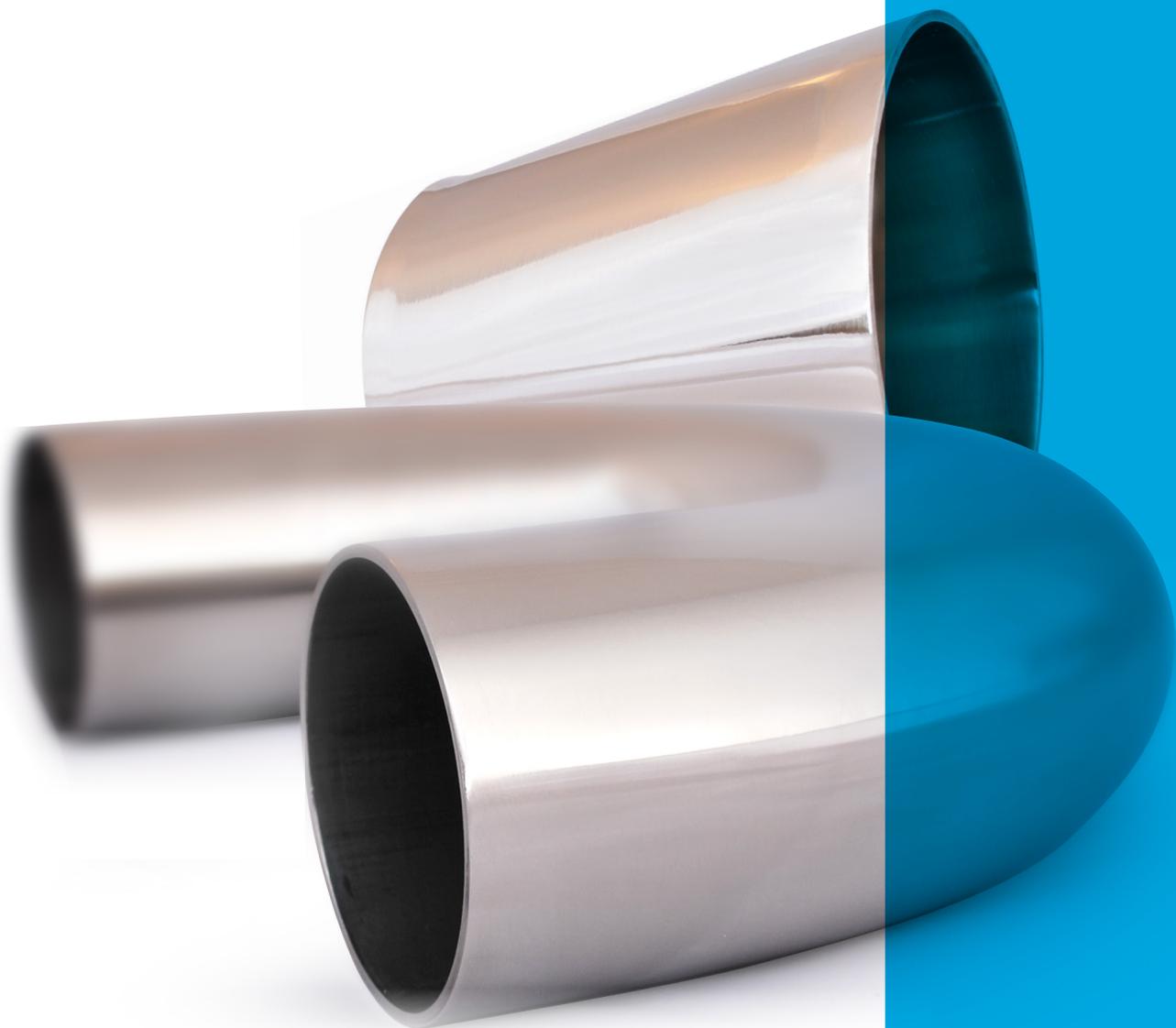


Ultibend

WE DO IT BETTER



▶ WHERE METAL MEETS MASTERY

ULTIBEND
INDUSTRIES
PRODUCT BOOK

WE DO IT BETTER

It's a big promise, but we've got it covered.

Proudly family-owned for two generations, Ultibend combines decades of experience with innovative solutions to meet customer needs. As the only bulk producer of stainless steel elbows in Australasia, our New Zealand-based team delivers quality, speed, and local expertise — supporting businesses and employment across the region.

Edition: May 2025

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At Ultibend, excellence is our standard. With decades of expertise, we craft precision-engineered stainless steel fittings and back them with exceptional service. Our efficient processes ensure industry-leading delivery times, with stock ready to ship same-day. More than just quality products, we build lasting partnerships—delivering reliability, fair pricing, and support you can count on.

Applications for Ultibend Industries fittings:

- Wineries
- Food processing
- Heat exchangers
- Dairy
- Architecture
- Potable water
- Breweries
- Marine
- Automotive

Our product range includes fittings in type T304, T316, and Duplex (UNS S31803) Stainless Steel.

Wall thicknesses include 1.2mm, 1.6mm, and 2.0mm. A variety of surface finishes are available on the I.D. and O.D.

Please contact us for further information.

Watch our story



We're social

Follow @ultibend for updates.



Important Disclaimer: Information presented in this catalogue pertaining to dimensions, tolerances and specifications is offered in good faith as a guide only, and Ultibend Industries Ltd does not herein provide any guarantee or accept any liability for the accuracy of this information. If any dimensions are critical to your end use, please contact us prior to ordering goods.



What makes an Ultibend bend the best?

Consistency – our bends are the same every time!
Whether it is cut squareness, bend angle or wall thickness, we pride ourselves on making it right every time.

As an installer/fabricator what this means for you:

- + Our Bends are easy to work with.
- + You can expect faster installs/quicker match up.
- + More consistent welding results.
- + Accurate bends make Pre-spooling easier and more accurate.
- + Less reworking issues or recall hassles down the track.

“High quality stainless componentry used extensively throughout our products. Great to see a company pushing out to the greater markets of the world with an excellent product to back their service. We have used Ultibend Products for over 20 years without a single quality defect.

Murray Baker
Sales Manager
Teralba Industries

"We prefer to use Ultibend for our stainless steel fittings because of the great quality of the product, the quick production time and the attractive price point. We use Ultibend's single pin heavy duty clamps 45 elbows, 90 elbows and tees and wouldn't hesitate to recommend them to others."

Charlene Herrmann
Director of Materials, USA
Premier Stainless

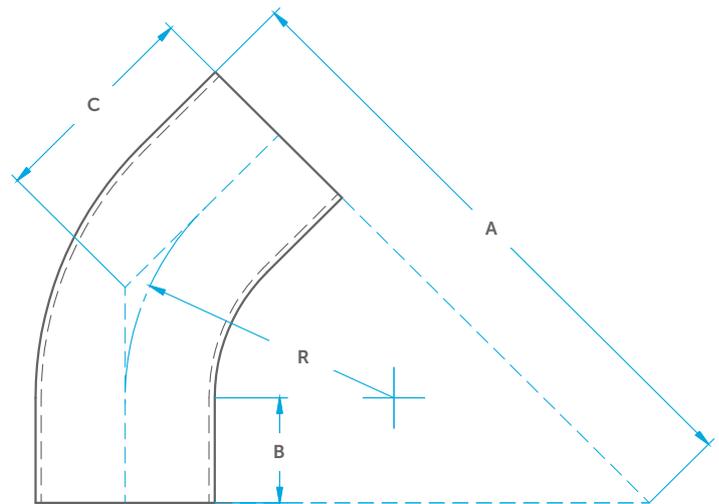
45° Bends



► Product Specification 45° Bends

Overview

- Fits the AS:1528.3 standard
- Standard New Zealand dairy dimensions
- 1.5D nominal centreline radius



45° UNI (AS:1528.3) / 45° NEW ZEALAND

Diameter mm	WT mm	Product Code		Dim A mm	Dim B mm	Dim C mm	Radius* mm	Weight Per Unit kg	Standard Pack size
		304	316						
12.7	1.6	N/A	05664U	97.83	30.0	37.9	19.05	0.03	10
19.1	1.6	N/A	07664U	110.5	30.0	41.8	28.7	0.06	10
25.4	1.6	10644U	10664U	123.0	30.0	45.7	38.1	0.08	10
31.8	1.6	12644U	12664U	136.0	30.0	49.8	47.6	0.12	10
38.1	1.6	15644U	15664U	148.0	30.0	53.4	57.2	0.12	10
44.5	1.6	17644N	17664N	193.6	38.1	71.0	79.4	0.23	60
50.8	1.6	20644U	20664U	174.0	30.0	61.6	76.2	0.23	60
63.5	1.6	25644U	25644U	199.0	30.0	69.3	95.3	0.32	32
76.2	1.6	30644U	30664U	225.0	30.0	77.4	114.3	0.43	20
101.6	1.6/2.0	40644U	40664U	275.0	30.0	92.9	152.4	0.66	18
127.0	1.6/2.0	50644U	50664U	350.6	40.0	118.9	190.5	1.12	4
152.4	2.0	602044U	602064U	401.4	40.0	134.7	228.6	2.00	3

TOLERANCES

Diameter $\pm 0.5\%$ of OD

Square Target <0.2mm, Max 0.4mm

Dim A ± 1.0 mm

Dim B/C Nominal

Radius Nominal

POLISH FINISHES

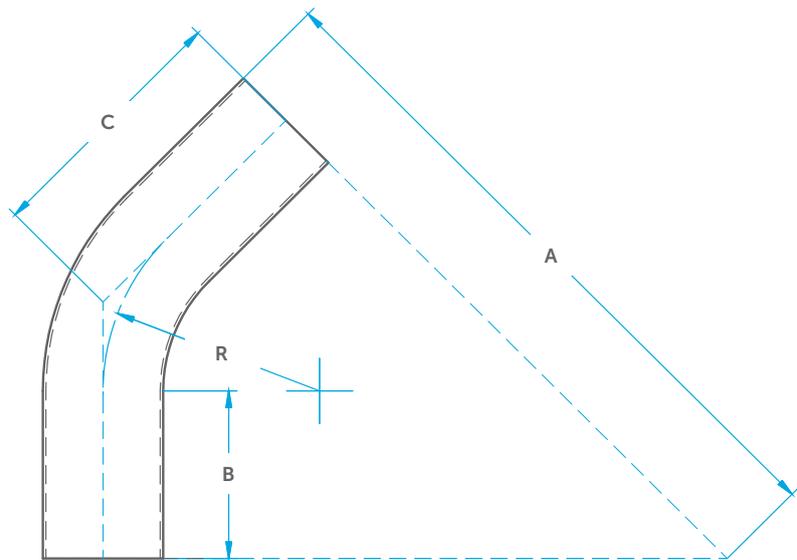
OD Polish 'P' Suffix on stock-code

*Nominal dimensions only. Typically a bend is formed to a slightly tighter radius to allow for radial growth and springback. The 'A' dimension will always be correct. If the radius dimension is critical to your end use please contact us to discuss options.

▶ Product Specification **45° Bends**

Overview

- Comparatively longer centreline radius
- Comparatively longer leg length



45° LONG LEG

Diameter	WT	Product Code		Dim A	Dim B	Dim C	Radius*	Weight Per Unit	Standard Pack size
mm	mm	304	316	mm	mm	mm	mm	kg	
31.8	1.2	12244L	N/A	188.5	47.8	71.5	57.2	0.13	10
38.1	1.2	15244L	N/A	227.8	54.9	86.5	76.2	0.18	60
50.8	1.2	20244L	N/A	281.0	63.8	105.9	101.6	0.30	36
63.5	1.2	25244L	N/A	361.2	89.1	136.5	114.3	0.47	14
76.2	1.6	30644L	N/A	462.9	118.1	176.0	139.7	1.00	5

TOLERANCES

Diameter $\pm 0.5\%$ of OD

Square Target <0.2mm, Max 0.4mm

Dim A $\pm 1.0\text{mm}$

Dim B/C Nominal

Radius Nominal

POLISH FINISHES

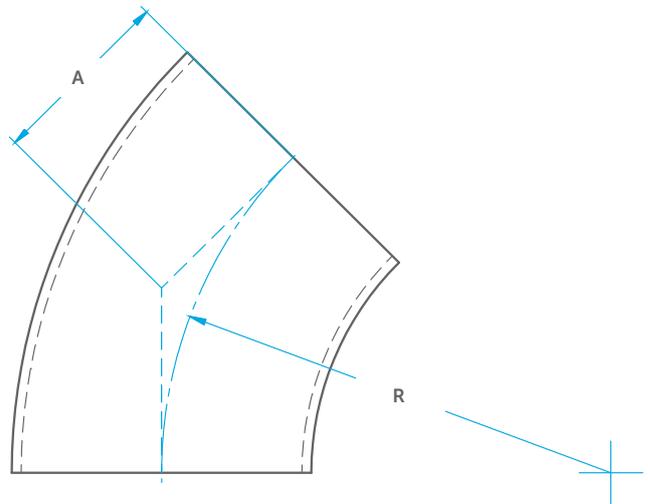
OD Polish 'P' Suffix on stock-code

*Nominal dimensions only. Typically a bend is formed to a slightly tighter radius to allow for radial growth and springback. The 'A' dimension will always be correct. If the radius dimension is critical to your end use please contact us to discuss options.

► Product Specification 45° Bends

Overview

- 1.5D centreline radius across all sizes
- Short bend with no leg



45° SHORT ELBOW

Diameter	WT	Product Code		Dim A	Radius*	Weight Per Unit		Standard Pack size
		304	316			kg	lbs	
25.4	1.6	10644ZIP	10664ZIP	15.8	38.1	0.03	0.07	10
38.1	1.6	15644ZIP	15664ZIP	23.8	57.2	0.07	0.15	10
50.8	1.6	20644ZIP	20664ZIP	31.8	76.2	0.11	0.24	100
63.5	1.6	25644ZIP	25664ZIP	39.6	95.3	0.18	0.40	50
76.2	1.6	30644ZIP	30664ZIP	47.6	114.3	0.25	0.55	35
101.6	2.0	402044ZIP	402064ZIP	63.5	152.4	0.57	1.26	30

TOLERANCES

Diameter $\pm 0.5\%$ OD

Square Target <0.2mm, Max 0.4mm

Dim A ± 1.0 mm

Radius Nominal

POLISH FINISHES

OD/ID 'IP' Suffix on stock-code

*Nominal dimensions only. Typically a bend is formed to a slightly tighter radius to allow for radial growth and springback. The 'A' dimension will always be correct. If the radius dimension is critical to your end use please contact us to discuss options.



"We've built a great relationship with Ultibend over the years. Their products are consistently of high quality, and their service is defined by consistency and professionalism. Stirlings confidently recommends Ultibend"

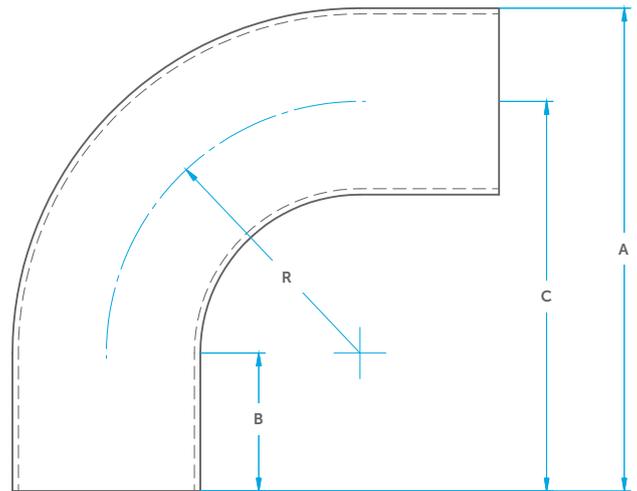
Jeremy Fitzgerald
Purchasing Manager, Stirlings Australia

90° Bends

► Product Specification 90° Bends

Overview

- Fits the AS1528.3 standard
- Nominal 1.5D centreline radius across all sizes
- Standard leg length



90° UNI (AS:1528.3)

Diameter	WT	Product Code		Dim A	Dim B	Dim C	Radius*	Weight Per Unit	Standard Pack size
mm	mm	304	316	mm	mm	mm	mm	kg	
12.7	1.6	05649U	05669U	55.4	30.0	49.1	19.0	0.04	10
15.9	1.6	06649U	06669U	61.7	30.0	53.8	23.8	0.05	10
19.1	1.6	07649U	07669U	68.2	30.0	58.7	28.6	0.07	10
25.4	1.6	10649U	10669U	80.8	30.0	68.1	38.1	0.11	10
31.8	1.6	12649U	12669U	93.5	30.0	77.6	47.6	0.15	10
38.1	1.6	15649U	15669U	106.2	30.0	87.2	57.2	0.21	80
50.8	1.2/1.6/2.0	20649U	20669U	131.6	30.0	106.2	76.2	0.34	35
63.5	1.6	25649U	25669U	157.1	30.0	125.4	95.3	0.48	16
76.2	1.6	30649U	30669U	182.4	30.0	144.3	114.3	0.66	10
101.6	1.6/2.0	40649U	40669U	233.2	30.0	182.4	152.4	1.12	10
127.0	1.6/2.0	50649U	50669U	294.0	40.0	230.5	190.5	1.85	2
152.4	1.6/2.0	602049U	602069U	344.8	40.0	268.6	228.6	3.20	2

TOLERANCES

Diameter ± 0.5% of OD

Square Target <0.2mm, Max 0.4mm

Dim A/C +/- 0.5mm

Dim B Nominal

Radius Nominal

POLISH FINISHES

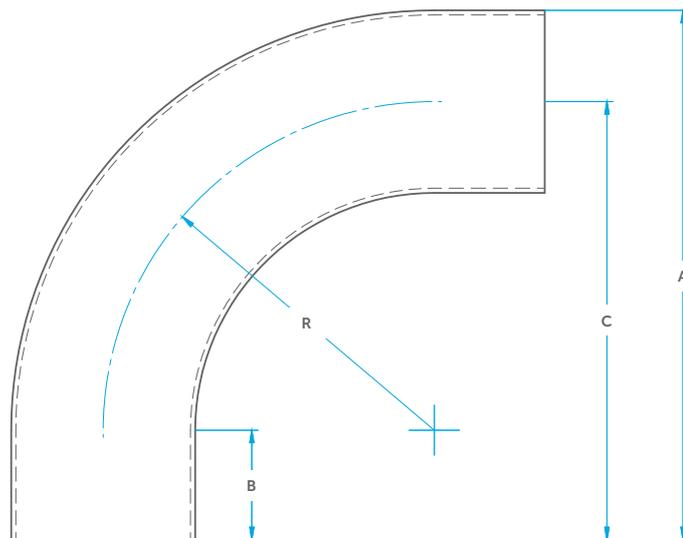
OD Polish 'P' Suffix on stock-code

*Nominal dimensions only. Typically a bend is formed to a slightly tighter radius to allow for radial growth and springback. The 'A' dimension will always be correct. If the radius dimension is critical to your end use please contact us to discuss options.

▶ Product Specification **90° Bends**

Overview

- Standard New Zealand dairy dimensions
- Nominal centreline radius differs across sizes
- Remaining sizes only available in AS1528.3



90° NEW ZEALAND

Diameter	WT	Product Code		Dim A	Dim B	Dim C	Radius*	Weight Per Unit	Standard Pack size
		304	316						
31.8	1.6	12649N	12669N	104.9	31.8	89.0	57.2	0.18	100
38.1	1.6	15649N	15669N	130.2	34.9	111.2	76.2	0.27	60
44.5	1.6	17649N	17669N	139.8	38.1	117.6	79.4	0.32	36
50.8	1.6	20649N	20669N	158.8	31.8	133.4	101.6	0.43	25
63.5	1.6	25649N	25669N	184.2	38.1	152.5	114.3	0.60	20
76.2	1.6	30649N	30669N	215.9	38.1	177.8	139.7	0.84	10

TOLERANCES

Diameter $\pm 0.5\%$ of OD

Square Target <0.2mm, Max 0.4mm

Dim A/C ± 0.5 mm

Dim B Nominal

Radius Nominal

POLISH FINISHES

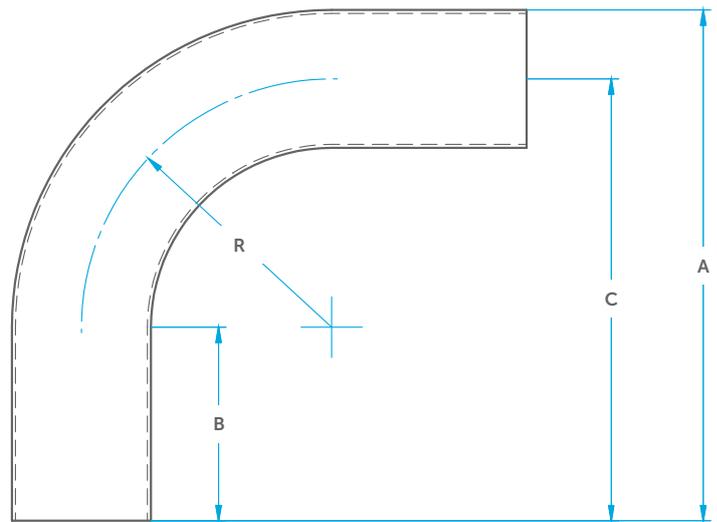
OD Polish 'P' Suffix on stock-code

*Nominal dimensions only. Typically a bend is formed to a slightly tighter radius to allow for radial growth and springback. The 'A' dimension will always be correct. If the radius dimension is critical to your end use please contact us to discuss options.

► Product Specification 90° Bends

Overview

- Centreline radius same as New Zealand
- Comparatively longer leg length than New Zealand



90° LONG LEG

Diameter	WT	Product Code		Dim A	Dim B	Dim C	Radius*	Weight Per Unit	Standard Pack size
mm	mm	304	316	mm	mm	mm	mm	kg	
25.4	1.2	10249L	N/A	94.4	37.2	81.7	44.5	0.10	10
31.8	1.2	12249L	N/A	120.9	47.8	105.0	57.2	0.16	90
38.1	1.2	15249L	N/A	150.1	54.9	131.1	76.2	0.24	40
50.8	1.2	20249L	N/A	190.8	63.8	165.4	101.6	0.41	20
63.5	1.2	25249L	N/A	235.2	89.1	203.5	114.3	0.63	12
76.2	1.6	30649L	N/A	295.9	118.1	257.8	139.7	1.24	5
101.6	1.6	40649L	N/A	328.6	125.4	277.8	152.4	1.81	5

TOLERANCES

Diameter ± 0.5% of OD

Square Target <0.2mm, Max 0.4mm

Dim A/C +/- 0.5mm

Dim B Nominal

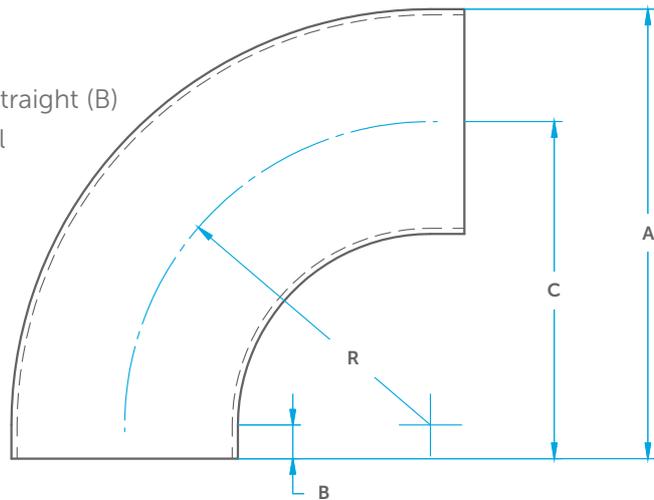
Radius Nominal

*Nominal dimensions only. Typically a bend is formed to a slightly tighter radius to allow for radial growth and springback. The 'A' dimension will always be correct. If the radius dimension is critical to your end use please contact us to discuss options.

Product Specification 90° Bends

Overview

- Nominal 1.35D centreline radius to achieve short straight (B)
- Unique in-house design for easier and faster install
- Sometimes called 'short radius'
- Some sizes available with a 2mm wall



90° ZETAN™

Diameter	WT	Product Code		Dim A	Dim B	Dim C	Radius*	Weight Per Unit	Pack size
		304	316						
mm	mm			mm	mm	mm	mm	kg	
25.4	1.6	10649Z	10669Z	50.8	3.8	38.1	34.3	0.05	10
31.8	1.6	12649Z	12669Z	76.2	12.7	60.3	47.6	0.12	10
38.1	1.6	15649Z	15669Z	76.2	5.8	57.2	51.4	0.13	10
50.8	1.6	20649Z	20669Z	101.6	7.6	76.2	68.6	0.23	50
63.5	1.6/2.0	25649Z	25669Z	127.0	9.5	95.3	85.7	0.36	20
76.2	1.6/2.0	30649Z	30669Z	152.4	11.4	114.3	102.9	0.55	15
101.6	1.6/2.0	40649Z	40669Z	203.2	15.2	152.4	137.2	1.00	15

TOLERANCES

Diameter ± 0.5% OD

Square Target <0.2mm, Max 0.4mm

Dim A/C +/- 0.5mm

Dim B Nominal

Radius Nominal

POLISH FINISHES

OD Polish 'P' Suffix on stock-code

OD/ID 'IP' Suffix on stock-code

*Nominal dimensions only. Typically a bend is formed to a slightly tighter radius to allow for radial growth and springback. The 'A' dimension will always be correct. If the radius dimension is critical to your end use please contact us to discuss options.

Jacketing bends

"The smooth installation process saved us both time and money. The concentric end caps made aligning the two bends much easier. We couldn't have asked for a better solution."

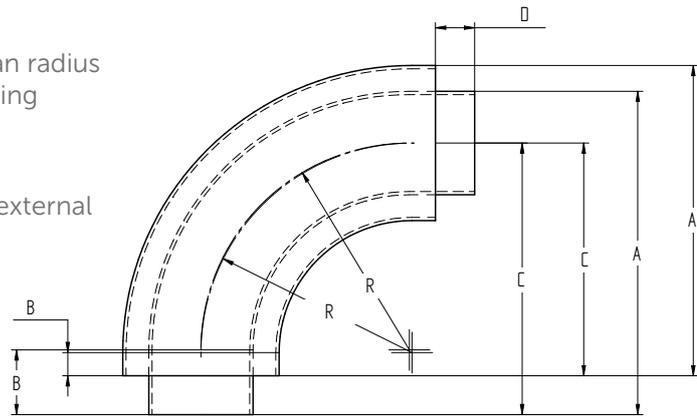
Jared Lamb
Owner – [Lamb Engineering](#)



▶ Product Specification **Jacketing Bends**

Overview

- Combines a NZ radius internal bend with a Zetan radius external bend (1" larger) for aligned pipelines using concentric end plates.
- Simplifies and speeds up installation.
- The longer internal elbow extends beyond the external bend, making jacketed elbow welding easier.



Pipeline Diameter	Diameter	WT	Product Code		Dim A	Dim B	Dim C	Dim D	Radius	
mm	mm	mm	304	316	mm	mm	mm	mm	mm	
38.1	38.1	1.6	15649N	15669N	130.2	34.9	111.2	15.9	76.2	Internal Bend
	63.5	1.6	25649Z	25669Z	127	9.5	95.3		85.7	External Bend
50.8	50.8	1.6	20649N	20669N	158.8	31.8	133.4	19.1	101.6	Internal Bend
	76.2	1.6	30649Z	30669Z	152.4	11.4	114.3		102.9	External Bend
76.2	76.2	1.6	30649N	30669N	215.9	38.1	177.8	25.4	139.7	Internal Bend
	101.6	1.6	40649Z	40669Z	203.2	15.2	152.4		137.2	External Bend

TOLERANCES

Diameter ± 0.5% of OD

Square Target <0.2mm, Max 0.4mm

Dim A/C +/- 0.5mm

Dim B Nominal

Radius Nominal

Looking for a different jacketing combination?

Get in touch with Ultibend to see what other combinations are available.

sales@ultibend.com

180° Bends

"We use more than 98% of bends from only Ultibend, as this is the only brand that we can trust."

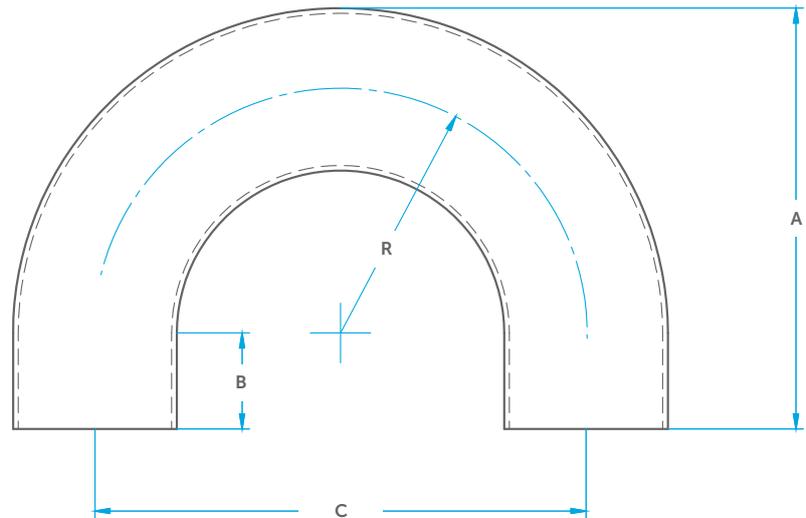
Opal Kolkarnprasert
Wilfab Group



► Product Specification **180° Bends**

Overview

- Fits the AS:1528.3 standard
- 1.5D centreline radius across all sizes
- Standard leg length



180° UNI (AS:1528.3)

Diameter	WT	Product Code		Dim A	Dim B	Dim C	Radius*	Weight Per Unit	Standard Pack size
		304	316						
mm	mm			mm	mm	mm	mm	kg	
19.1	1.6	07648U	07668U	68.2	30.0	58.5	28.6	0.12	10
25.4	1.6	10648U	10668U	80.8	30.0	77.9	38.1	0.16	10
31.8	1.6	12648U	12668U	93.5	30.0	96.3	47.6	0.23	10
38.1	1.6	15648U	15668U	106.3	30.0	115.6	57.2	0.32	40
50.8	1.6	20648U	20668U	131.6	30.0	154.2	76.2	0.55	18
63.5	1.6	25648U	25668U	157.1	30.0	193.2	95.3	0.81	8
76.2	1.6	30648U	30668U	182.4	30.0	232.2	114.3	1.14	8
101.6	1.6	40648U	40668U	233.2	30.0	307.8	152.4	2.00	4

TOLERANCES

Diameter $\pm 0.5\%$ OD

Square Target <0.2mm, Max 0.4mm

Dim A ± 0.5 mm

Dim B Nominal

Dim C As measured ± 0.5 mm.

If critical to your end use, please talk to us first.

POLISH FINISHES

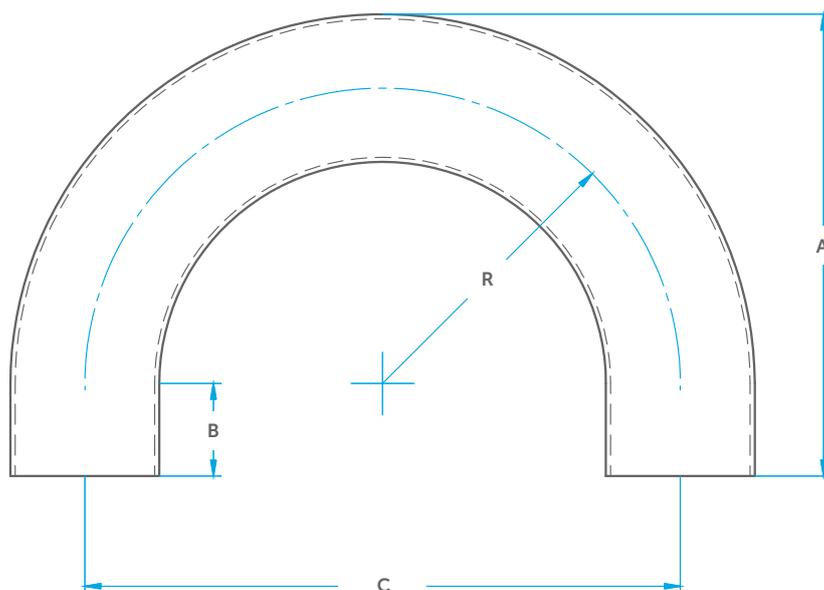
OD Polish 'P' Suffix on stock-code

*Nominal dimensions only. The 'A' dimension will always be correct. If the radius dimension is critical to your end use please contact us to discuss options.

► Product Specification 180° Bends

Overview

- Standard New Zealand dairy dimensions
- Centreline radius differs across sizes



180° NEW ZEALAND

Diameter	WT	Product Code		Dim A	Dim B	Dim C	Radius*	Weight Per Unit	Standard Pack size
		304	316						
31.8	1.6	12648N	12668N	104.9	31.8	116.2	57.2	0.28	30
38.1	1.6	15648N	15668N	130.2	34.9	155.6	76.2	0.43	30
44.5	1.6	17648N	17668N	139.8	38.1	161.9	79.4	0.52	18
50.8	1.6	20648N	20668N	158.8	31.8	207.2	101.6	0.70	12
63.5	1.6	25648N	25668N	184.2	38.1	233.8	114.3	1.02	6
76.2	1.6	30648N	30668N	215.9	38.1	286.6	139.7	1.46	4

TOLERANCES

Diameter $\pm 0.5\%$ OD

Square Target <0.2mm, Max 0.4mm

Dim A ± 1.0 mm

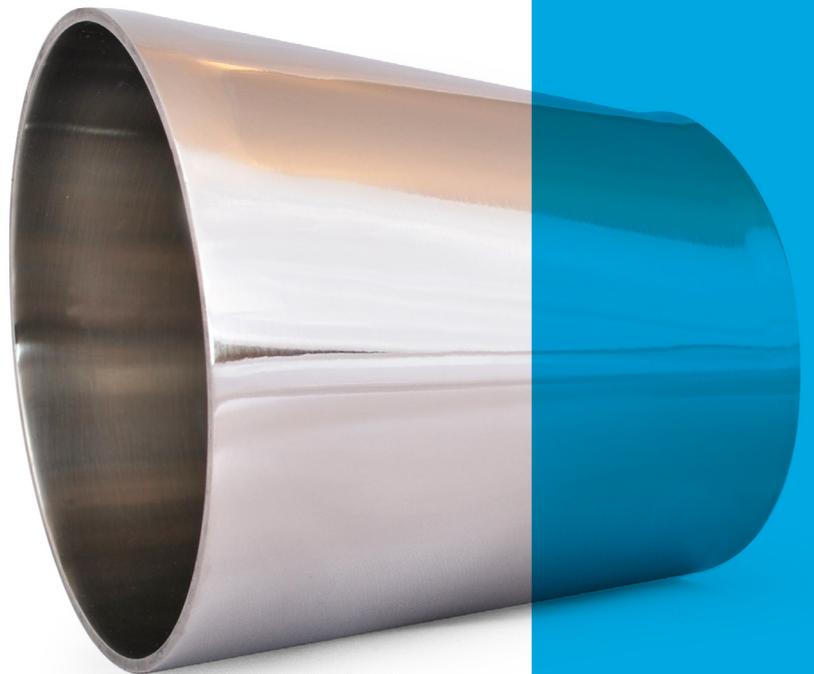
Dim B Nominal

Dim C As measured ± 0.5 mm.

If critical to your end use, please talk to us first.

*Nominal dimensions only. Typically a bend is formed to a slightly tighter radius to allow for radial growth and springback. The 'A' dimension will always be correct. If the radius dimension is critical to your end use please contact us to discuss options.

"Experience flawless size transitions with
Ultibend's precision Reducers"

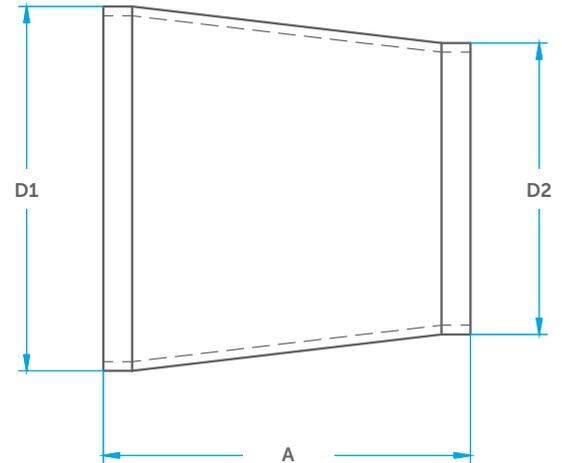


Reducers

► Product Specification Reducers

Overview

- Fits the AS:1528.3 standard
- Short reducer – height equal to widest diameter



CONCENTRIC REDUCER (AS:1528.3)

Product Code	WT	D1	D2	Dim A	Weight Per Unit	Standard Pack size
	mm	mm	mm	mm	kg	
100566CS	1.6	25.4	12.5	25.4	0.02	5
100766CS	1.6	25.4	19.1	25.4	0.02	5
121066CS	1.6	31.8	25.4	31.8	0.03	5
151066CS	1.6	38.1	25.4	38.1	0.05	5
151266CS	1.6	38.1	31.8	38.1	0.05	5
201066CS	1.6	50.8	25.4	50.8	0.08	5
201266CS	1.6	50.8	31.8	50.8	0.18	5
201566CS	1.6	50.8	38.1	50.8	0.08	5
251066CS	1.6	63.5	25.4	63.5	0.13	5
251266CS	1.6	63.5	31.8	63.5	0.13	5
251566CS	1.6	63.5	38.1	63.5	0.13	5
252066CS	1.6	63.5	50.8	63.5	0.13	5
301066CS	1.6	76.2	25.4	76.2	0.15	5
301566CS	1.6	76.2	38.1	76.2	0.19	5
302066CS	1.6	76.2	50.8	76.2	0.18	5
302566CS	1.6	76.2	63.5	76.2	0.19	5
401566CS	1.6	101.6	38.1	101.6	0.30	5
402066CS	1.6	101.6	50.8	101.6	0.33	5
402566CS	1.6	101.6	63.5	101.6	0.32	5
403066CS	1.6	101.6	76.2	101.6	0.33	5
503066CS	1.6	127.0	76.2	127.0	0.55	2
504066CS	1.6	127.0	101.6	127.0	0.59	2
602066CS	1.6	152.4	50.8	152.4	0.66	2
603066CS	1.6	152.4	76.2	152.4	0.79	2
604066CS	1.6	152.4	101.6	152.4	0.98	2

TOLERANCES

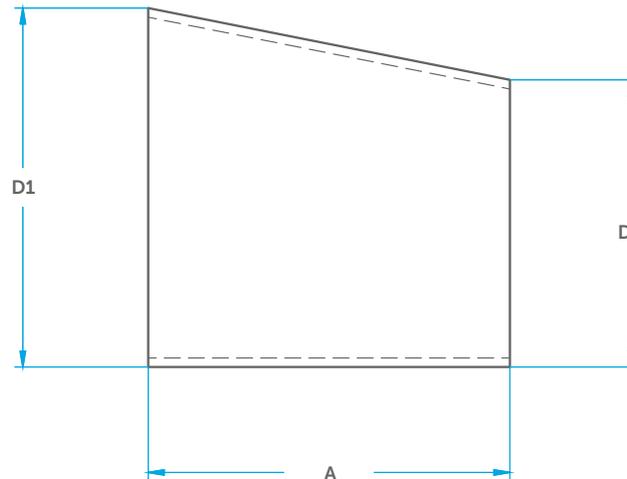
Dim A ± 1.25mm

Diameter ± 0.5% OD

▶ Product Specification Reducers

Overview

- Fits the AS:1528.3 standard
- Short reducer – height equal to widest diameter



ECENTRIC REDUCER (AS:1528.3)

Product Code	WT	D1	D2	Dim A	Weight Per Unit	Standard Pack size
	mm	mm	mm	mm	kg	
151066ES	1.6	38.1	25.4	38.1	0.05	5
151266ES	1.6	38.1	31.8	38.1	0.05	5
201066ES	1.6	50.8	25.4	50.8	0.09	5
201566ES	1.6	50.8	38.1	50.8	0.08	5
251566ES	1.6	63.5	38.1	63.5	0.13	5
252066ES	1.6	63.5	50.8	63.5	0.13	5
301566ES	1.6	76.2	38.1	76.2	0.19	5
302066ES	1.6	76.2	50.8	76.2	0.18	5
302566ES	1.6	76.2	63.5	76.2	0.19	5
401566ES	1.6	101.6	38.1	101.6	0.30	5
402066ES	1.6	101.6	50.8	101.6	0.33	5
402566ES	1.6	101.6	63.5	101.6	0.32	5
403066ES	1.6	101.6	76.2	101.6	0.33	5
504066ES	1.6	127.0	101.6	127.0	0.59	2
6030266ES	2.0-1.6	152.4	76.2	152.4	0.79	2
6040266ES	2.0-1.6	152.4	101.6	152.4	0.98	2

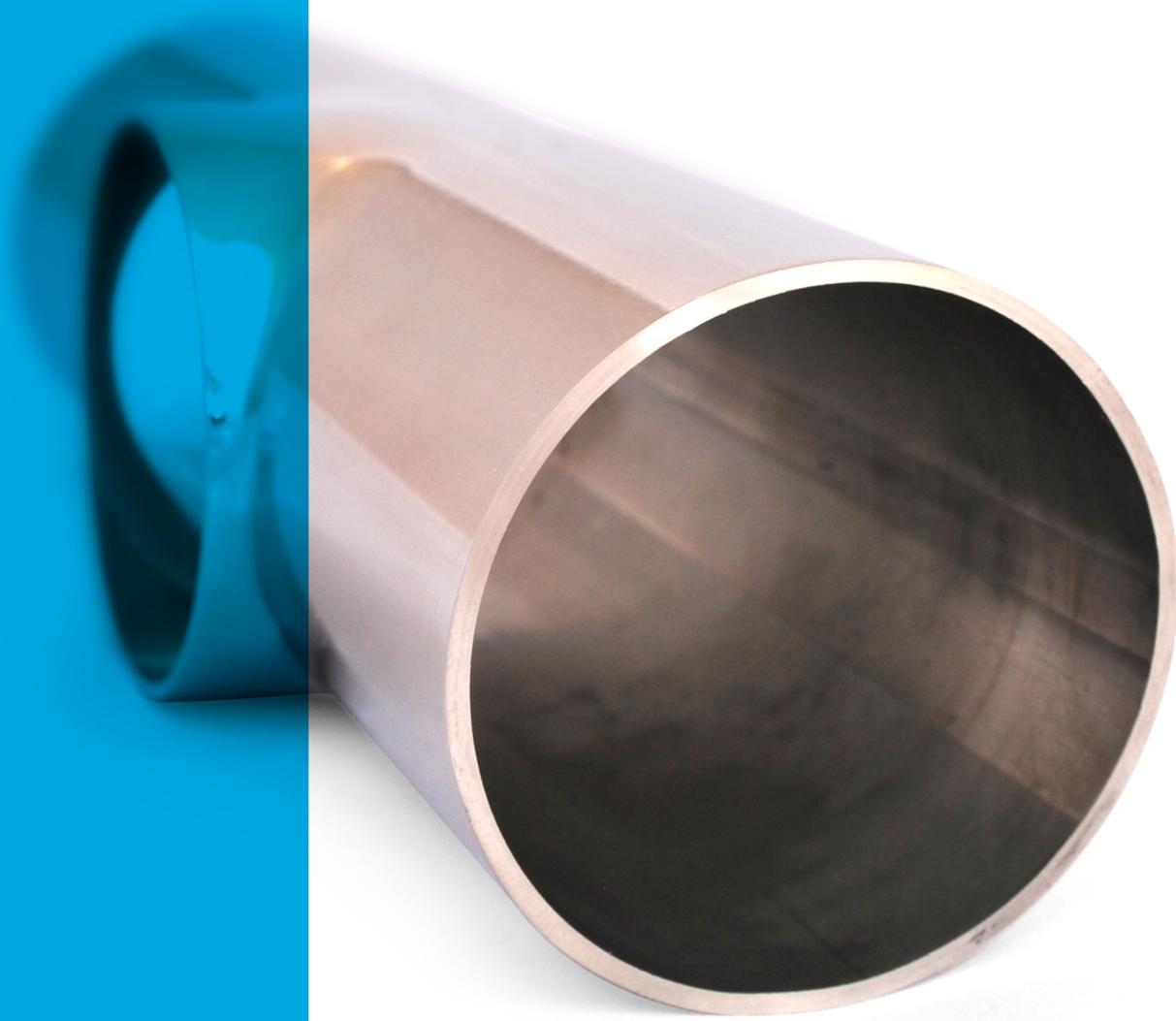
TOLERANCES

Dim A ± 1.25mm

Diameter ± 0.5% OD

Tees

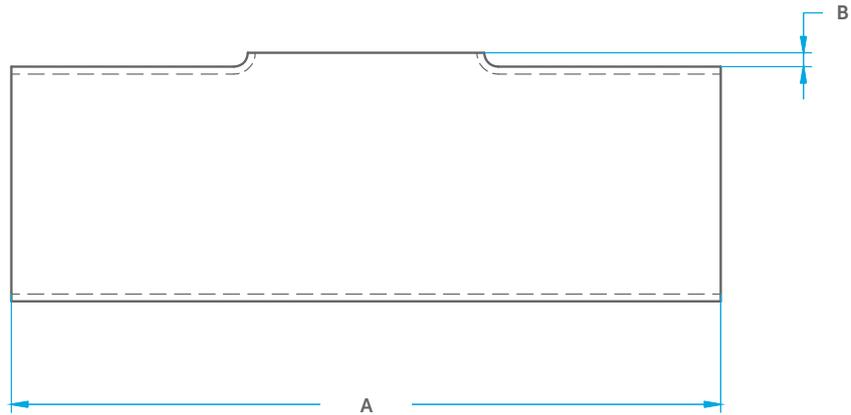
"Experience perfect alignment with Ultibend Tees."



► Product Specification Tees

Overview

- Fits the AS:1528.3 standard
- Very short leg length
- Tee length 3x tube diameter



PULLED TEE (AS:1528.3)

Diameter		WT		Product Code		Dim A		Dim B		Weight Per Unit		Standard Pack size
mm	mm	mm	mm	304	316	mm	mm	mm	mm	kg	kg	
12.7	0.500	1.6	0.065	0564PT	0566PT	38.1	1.500	3.0	0.118	0.02	0.04	10
19.1	0.750	1.6	0.065	0764PT	0766PT	57.2	2.252	3.0	0.118	0.04	0.09	10
25.4	1.000	1.6	0.065	1064PT	1066PT	76.2	3.000	3.0	0.118	0.08	0.18	10
31.8	1.250	1.6	0.065	1264PT	1266PT	95.4	3.756	3.0	0.118	0.11	0.24	10
38.1	1.500	1.6	0.065	1564PT	1566PT	114.3	4.500	3.0	0.118	0.17	0.37	120
50.8	2.000	1.6	0.065	2064PT	2066PT	152.4	6.000	3.0	0.118	0.29	0.64	50
63.5	2.500	1.6	0.065	2564PT	2566PT	190.5	7.500	3.0	0.118	0.52	1.15	20
76.2	3.000	1.6	0.065	3064PT	3066PT	228.6	9.000	3.0	0.118	0.68	1.50	14
101.6	4.000	1.6/2.0	0.065	-	4066PT	304.8	12.000	5.0	0.197	1.19	2.62	12

TOLERANCES

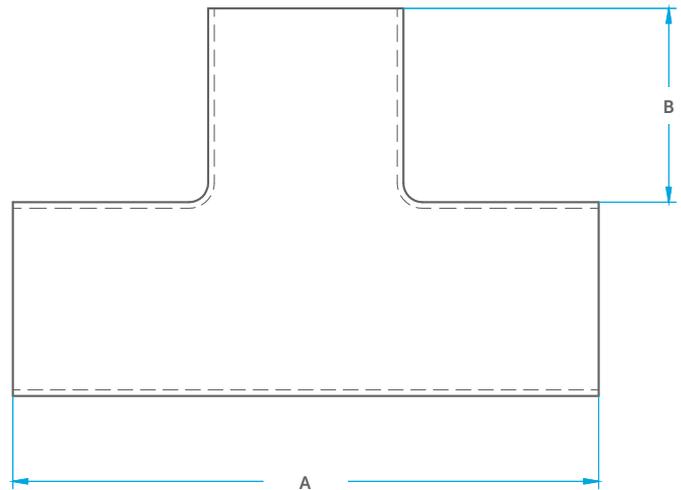
Dim A $\pm 1.25\text{mm}$

Diameter $\pm 0.5\% \text{ OD}$

► Product Specification Tees

Overview

- Fits the AS:1528.3 standard
- Leg length equal to tube diameter
- Tee length 3x tube diameter



EQUAL TEE (AS:1528.3)

Diameter	WT	Product Code		Dim A	Dim B	Weight Per Unit	Standard Pack size
		304	316				
mm	mm			mm	mm	kg	
12.7	1.6	0564ET	0566ET	38.1	12.7	0.03	10
19.1	1.6	0764ET	0766ET	57.2	19.1	0.06	10
25.4	1.6	1064ET	1066ET	76.2	25.4	0.09	10
31.8	1.6	1264ET	1266ET	95.4	31.8	0.15	10
38.1	1.6	1564ET	1566ET	114.3	38.1	0.21	80
50.8	1.6	2064ET	2066ET	152.4	50.8	0.38	32
63.5	1.6	2564ET	2566ET	190.5	63.5	0.69	12
76.2	1.6/2.0	3064ET	3066ET	228.6	76.2	0.89	8
101.6	1.6/2.0	4064ET	4066ET	304.8	101.6	1.63	6

TOLERANCES

Dim A $\pm 1.25\text{mm}$

Dim B $\pm 1.25\text{mm}$

Diameter $\pm 0.5\% \text{ OD}$

Elevate your installation with precision-engineered Clamp Fittings and comprehensive Accessories for seamless connections and enhanced functionality.

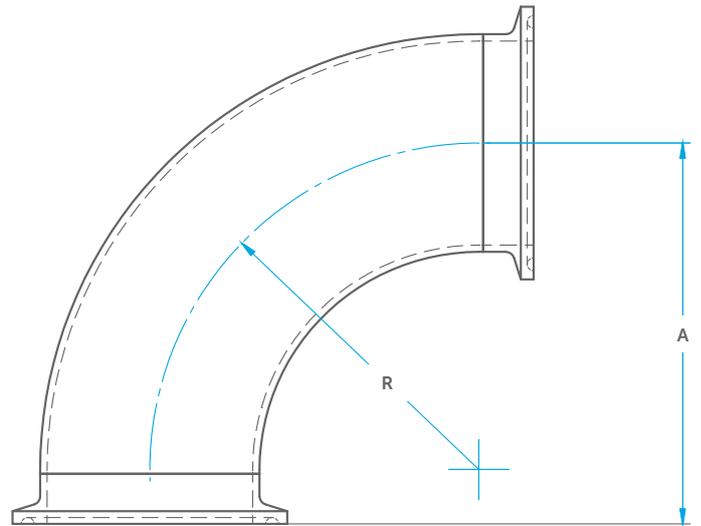


Clamp Fittings and Accessories

► Product Specification **Clamp Fittings and Accessories**

Overview

- 1.5D centreline radius
- Ferrule on both ends
- CIP bends also known as Bend Tri Ferrule



90° CLAMP BEND

Diameter	WT	Product Code		Radius	Dim A	Weight Per Unit		Carton Quantity
		304	316			kg	lbs	
38.1	1.6	15649CIP	15669CIP	57.2	69.90	0.21	0.46	50
50.8	1.6	20649CIP	20669CIP	76.2	88.90	0.35	0.77	25

TOLERANCES

Diameter $\pm 0.5\%$ OD

Square Target <0.2mm, Max 0.4mm

Dim A ± 1.5 mm

Radius Nominal

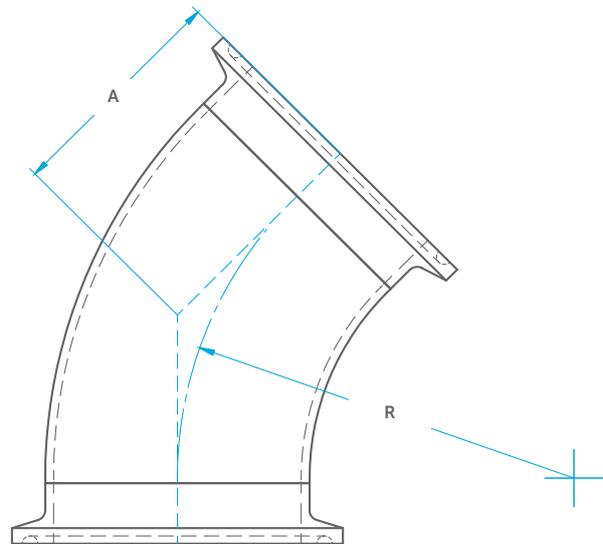
POLISH FINISHES

OD/ID 'IP' Suffix on stock-code

Product Specification **Clamp Fittings and Accessories**

Overview

- 1.5D centreline radius
- Ferrule on both ends
- CIP bends also known as Bend Tri Ferrule



45° CLAMP BEND

Diameter	WT	Product Code		Radius	Dim A	Weight Per Unit		Carton Quantity
		304	316			kg	lbs	
38.1	1.6	15644CIP	15664CIP	57.2	36.5	0.15	0.34	100
50.8	1.6	20644CIP	20664CIP	76.2	44.5	0.24	0.52	50

TOLERANCES

Diameter $\pm 0.5\%$ OD

Square Target <0.2mm, Max 0.4mm

Dim A ± 1.5 mm

Radius Nominal

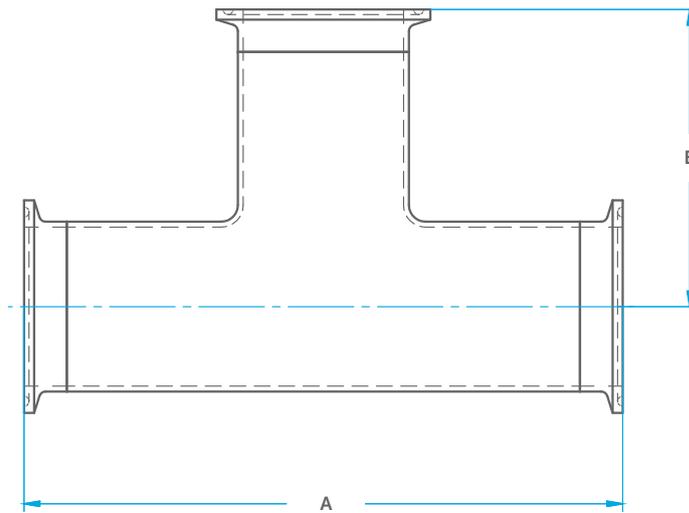
POLISH FINISHES

OD/ID 'IP' Suffix on stock-code

► Product Specification **Clamp Fittings and Accessories**

Overview

- All legs of equal diameter
- Ferrules on all leg ends



CLAMPED LONG TEE

Diameter	WT	Product Code		Dim A	Dim B	Weight Per Unit		Carton Quantity
		304	316			kg	lbs	
38.1	1.6	1564CLT	1566CLT	139.8	69.9	0.33	0.72	32
50.8	1.6	2064CLT	2066CLT	177.8	88.9	0.57	1.25	20

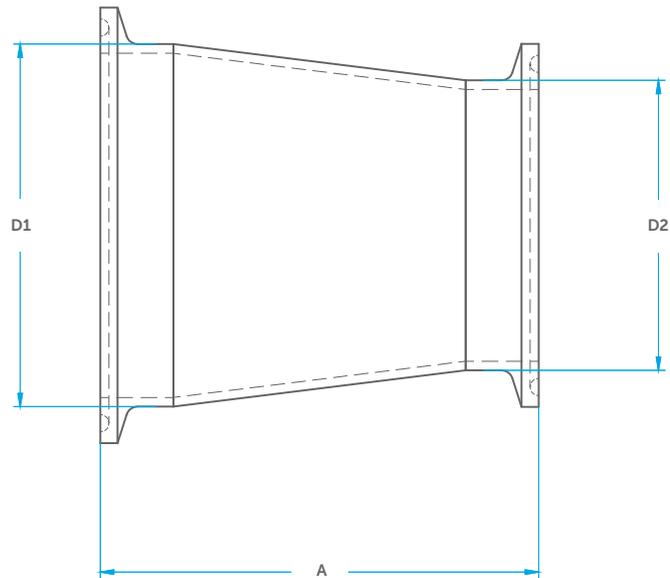
TOLERANCES

Dim A $\pm 1.25\text{mm}$

▶ Product Specification **Clamp Fittings and Accessories**

Overview

- Ferrules on both ends
- Height to diameter ratio varies across sizes



CLAMPED CONCENTRIC REDUCER

Product Code		D1	D2	WT	Dim A	Weight Per Unit		Carton Quantity
304	316	mm	mm	mm	mm	kg	lbs	
201564CCR	201566CCR	50.8	38.1	1.6	76.2	0.20	0.44	40

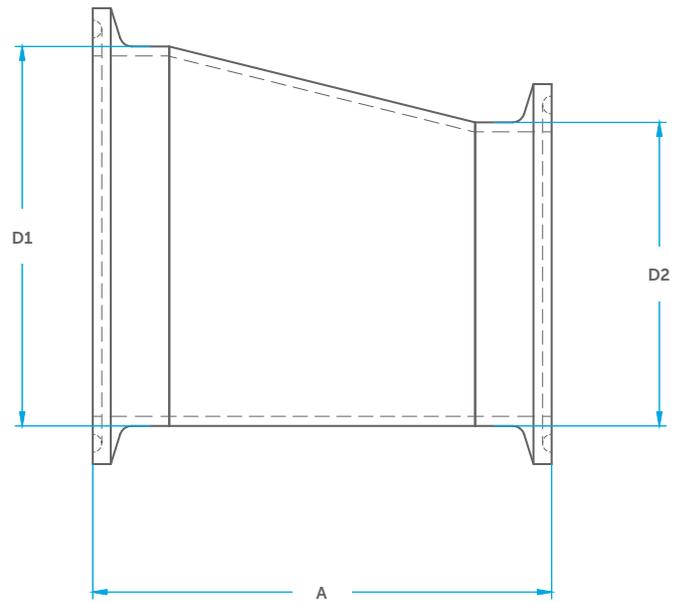
TOLERANCES

Dim A $\pm 1.25\text{mm}$

► Product Specification **Clamp Fittings and Accessories**

Overview

- Ferrules on both ends
- Height to diameter ratio varies across sizes



CLAMPED ECCENTRIC REDUCER

Product Code		WT	D1	D2	Dim A	Weight Per Unit		Carton Quantity
304	316	mm	mm	mm	mm	kg	lbs	
201564CER	201566CER	1.6	50.8	38.1	76.2	0.20	0.43	50

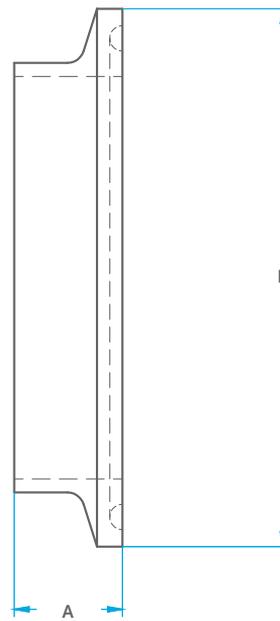
TOLERANCES

Dim A $\pm 1.25\text{mm}$

▶ Product Specification **Clamp Fittings and Accessories**

Overview

- Short welding ferrule for butt weld fittings
- Length increases on larger sizes
- Note – Ferrules can also be referred to as “Tri Clover”



SHORT WELDING FERRULE - 14WMP

Diameter	WT	Product Code		Dim A	Dim B	Weight Per Unit		Standard Pack Size
		304	316			kg	lbs	
25.4	1.6	1064SF	1066SF	12.7	50.5	0.06	0.13	5
38.1	1.6	1564SF	1566SF	12.7	50.5	0.04	0.09	5
50.8	1.6	2064SF	2066SF	12.7	64.0	0.06	0.13	5
63.5	1.6	2564SF	2566SF	12.7	77.5	0.08	0.18	5
76.2	1.6	3064SF	3066SF	12.7	91.0	0.10	0.22	5
101.6	2.0	40204SF	40206SF	15.8	119.0	0.18	0.40	5
154.4	2.7	60274SF	60276SF	22.2	167.0	0.43	0.95	5

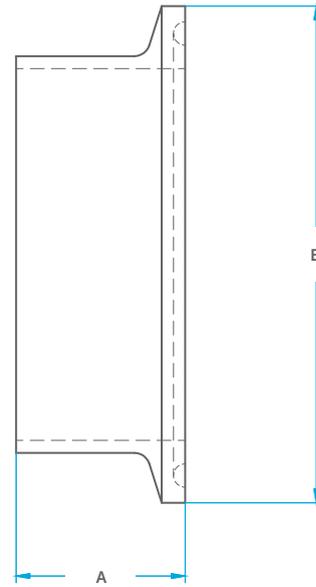
TOLERANCES

Dim A $\pm 1.25\text{mm}$

► Product Specification **Clamp Fittings and Accessories**

Overview

- Medium welding ferrule for butt weld fittings
- Note – Ferrules can also be referred to as “Tri Clover”



MEDIUM WELDING FERRULE - 14MMP

Diameter	WT	Product Code	Dim A	Dim B	Weight Per Unit	Standard Pack Size
mm	mm	316	mm	mm	kg	
25.4	1.6	1066MF	21.5	50.5	0.06	5
38.1	1.6	1566MF	21.5	50.5	0.06	5
50.8	1.6	2066MF	21.5	64.0	0.08	5
63.5	1.6	2566MF	21.5	77.5	0.10	5
76.2	1.6	3066MF	21.5	91.0	0.13	5
101.6	2.0	40206MF	21.5	119.0	0.22	5
152.4	2.7	60276MF	28.6	167.0	0.59	5

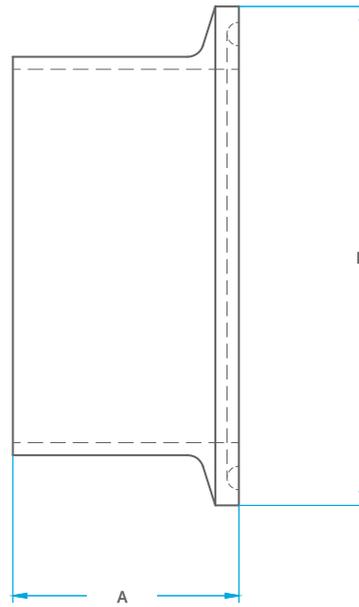
TOLERANCES

Dim A $\pm 1.25\text{mm}$

▶ Product Specification **Clamp Fittings and Accessories**

Overview

- Long welding ferrule for butt weld fittings
- Length consistent across sizes
- Note – Ferrules can also be referred to as “Tri Clover”



LONG WELDING FERRULE - 14AMP

Diameter	WT	Product Code		Dim A	Dim B	Weight Per Unit		Standard Pack Size
		304	316			kg	lbs	
25.4	1.6	1064LF	1066LF	28.6	50.5	0.07	0.15	5
38.1	1.6	1564LF	1566LF	28.6	50.5	0.07	0.15	5
50.8	1.6	2064LF	2066LF	28.6	64.0	0.09	0.20	5
63.5	1.6	2564LF	2566LF	28.6	77.5	0.12	0.26	5
76.2	1.6	3064LF	3066LF	28.6	91.0	0.15	0.33	5
101.6	2.0	40204LF	40206LF	28.6	119.0	0.25	0.55	5
154.4	2.7	60274LF	60276LF	31.8	167.0	0.59	1.30	5

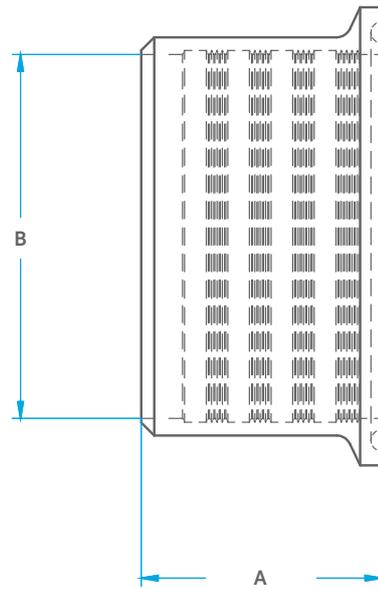
TOLERANCES

Dim A $\pm 1.25\text{mm}$

► Product Specification **Clamp Fittings and Accessories**

Overview

- Short welding ferrule for butt weld fittings
- Length increases on larger sizes
- Note – Ferrules can also be referred to as “Tri Clover”



ROLL-ON FERRULE - 14RMP

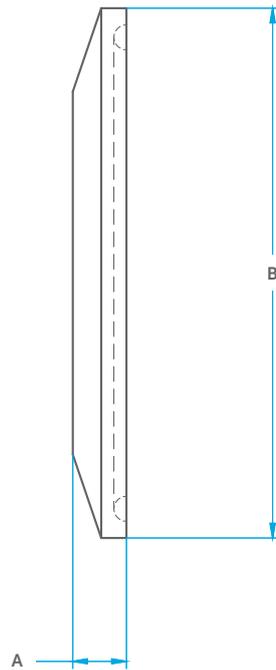
Diameter	WT	Product Code	Dim A	Dim B	Weight Per Unit
mm	mm	304	mm	mm	kg
38.1	1.6	1564EF	28.6	38.2	0.07
50.8	1.6	2064EF	33.3	50.9	0.12
63.5	1.6	2564EF	34.9	63.6	0.17
76.2	1.6	3064EF	36.5	76.3	0.22
101.6	2.0	40204EF	38.1	101.7	0.36

TOLERANCES

Dim A $\pm 1.25\text{mm}$

Overview

- Solid end cap for clamp fittings



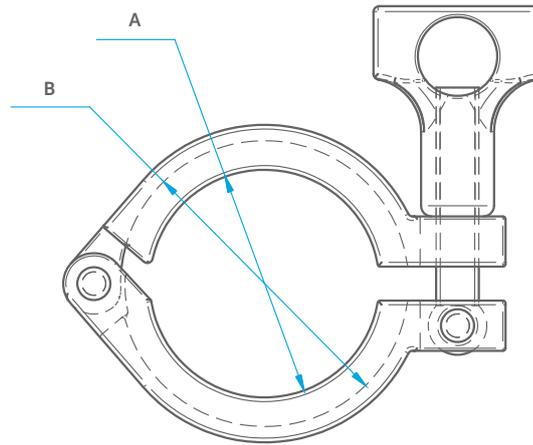
SOLID END CAP - 16AMP

Diameter mm	Product Code		Dim A mm	Dim B mm	Weight Per Unit		Standard Pack Size
	304	316			kg	lbs	
25.4-38.1	1564EC	1566EC	6.4	50.4	0.08	0.18	5
50.8	2064EC	2066EC	6.4	63.9	0.13	0.29	5
63.5	2564EC	2566EC	6.4	77.4	0.20	0.44	5
76.2	3064EC	3066EC	6.4	90.9	0.28	0.62	5
101.6	40204EC	40206EC	7.9	118.9	0.64	1.41	5
154.4	60274EC	60276EC	11.1	166.9	1.72	3.80	5

▶ Product Specification **Clamp Fittings and Accessories**

Overview

- Heavy duty
- Supplied with 13MHH-14 wingnut
- Single pin clamp also known as Tri Clamp

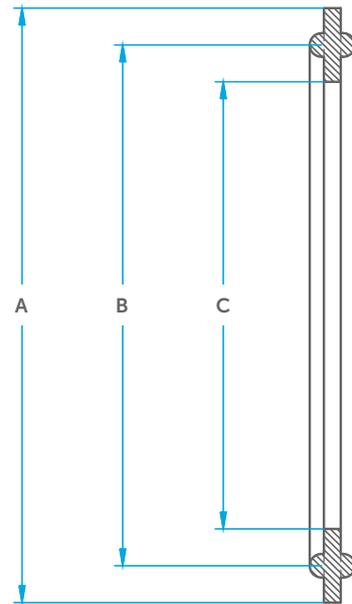


HEAVY DUTY SINGLE PIN CLAMP

Diameter	Product Code	Dim A	Dim B	Weight Per Unit		Standard Pack size
				mm	304	
19.1	07H4SC	20.0	28.2	0.13	0.28	50
25.4-38.1	15H4SC	44.4	53.6	0.21	0.46	50
50.8	20H4SC	57.8	67.0	0.26	0.57	50
63.5	25H4SC	71.4	80.6	0.29	0.64	50
76.2	30H4SC	84.0	94.2	0.33	0.73	50
101.6	40H4SC	110.0	122.2	0.43	0.95	25
154.4	60H4SC	155.4	170.4	0.92	2.01	25

Overview

- Used between clamp end fittings with a clamp to create a tight seal

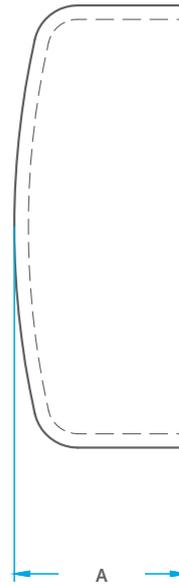


GASKETS

Diameter	Product Code				Dim A	Dim B	Dim C
mm	BUNA	EPDM	PTFE	Silicone	mm	mm	mm
25.4	10BPG	10EPG	10TPG	10SPG	50.4	43.6	22.7
38.1	15BPG	15EPG	15TPG	15SPG	50.4	43.6	35.6
50.8	20BPG	20EPG	20TPG	20SPG	63.8	56.3	48.3
63.5	25BPG	25EPG	25TPG	25SPG	77.5	70.6	60.9
76.2	30BPG	30EPG	30TPG	30SPG	91.0	83.3	73.6
101.6	40BPG	40EPG	40TPG	40SPG	118.9	110.3	98.3
152.4	60BPG	60EPG	60TPG	60SPG	165.3	156.4	147.8

Overview

- Domed butt weld end cap with tangent



TUBE WELD CAP - 16W

Diameter	WT	Product Code		Dim A	Weight Per Unit		Standard Pack Size
		304	316		kg	lbs	
25.4	1.6	1064WC	1066WC	9.5	0.02	0.04	5
38.1	1.6	1564WC	1566WC	14.3	0.03	0.05	5
50.8	1.6	2064WC	2066WC	19.1	0.05	0.11	5
63.5	1.6	2564WC	2566WC	25.4	0.10	0.22	5
76.2	1.6	3064WC	3066WC	31.8	0.13	0.29	5
101.6	2.0	40204WC	40206WC	38.1	0.20	0.44	5

TOLERANCES

Dim A $\pm 1.25\text{mm}$

Ultiform

BY ULTIBEND

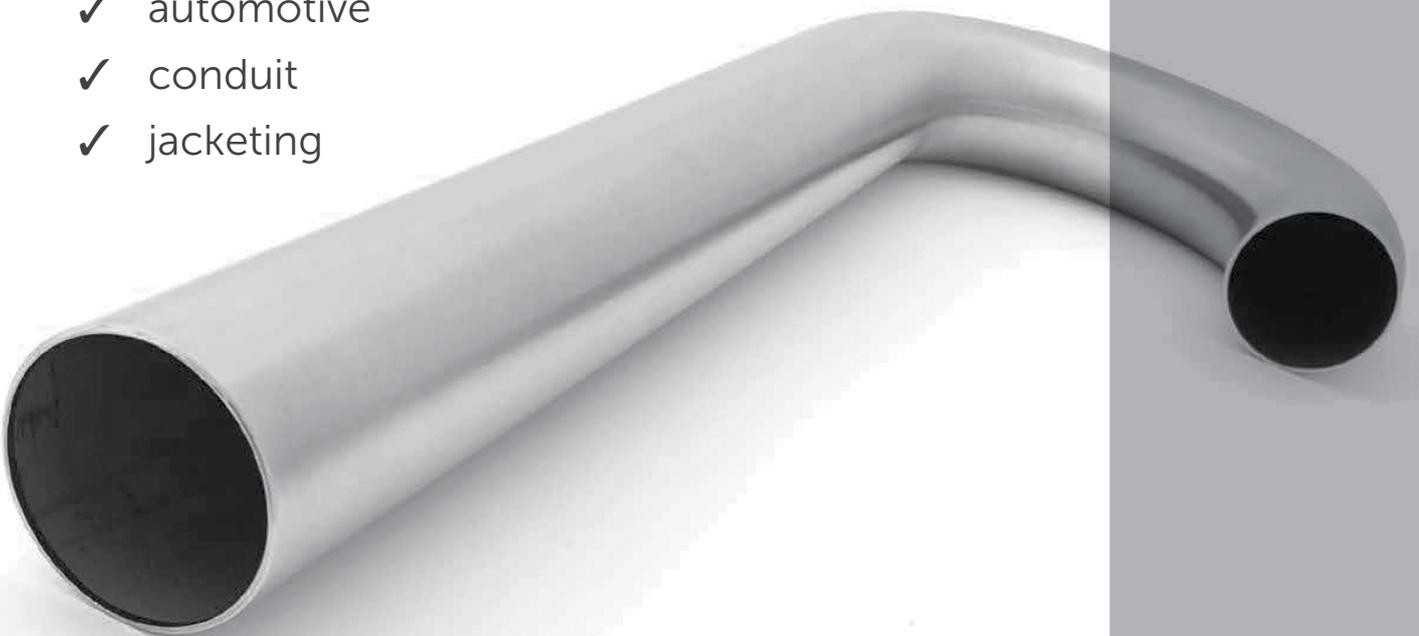
"When fabricating our premium custom exhausts we choose to use Ultiform bends. Every bend we pull from the packaging is clean, precise and ready to weld."

Troy Tschirpig
TNT Fabrications

Ultiform is our value product range. Manufactured specifically for your non-food grade build requirements with our proven quality, consistency and reliability.

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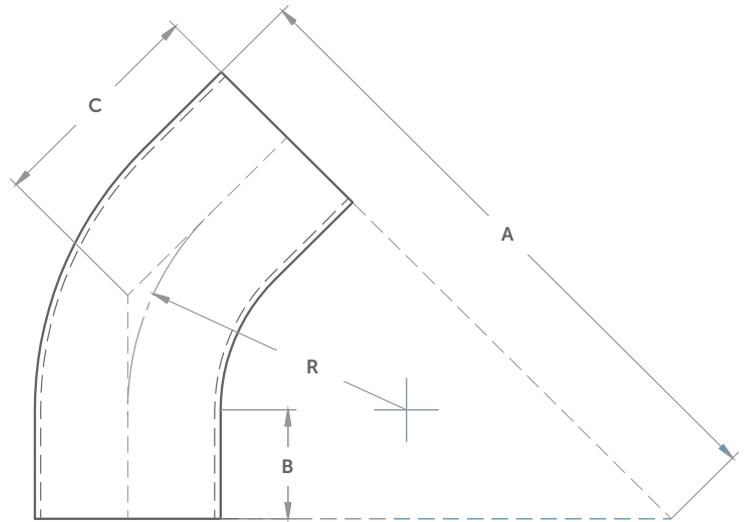
- ✓ architecture
- ✓ automotive
- ✓ conduit
- ✓ jacketing



► Product Specification 90 Degree bends

Overview

- 1.5D nominal centreline radius



45° UNI

Diameter mm	WT mm	Product Code		Dim A mm	Dim B mm	Dim C mm	Radius* mm	Weight Per Unit kg	Standard Pack size
		304	316						
38.1	1.5	15544U	15564U	148.0	30.0	53.4	57.2	0.12	10
44.5	1.5	17544U	17564U	161.0	30.0	57.6	66.7	0.16	60
50.8	1.5	20544U	20564U	174.0	30.0	61.6	76.2	0.23	60
63.5	1.5	25544U	25544U	199.0	30.0	69.3	95.3	0.32	32
76.2	1.5	30544U	30564U	225.0	30.0	77.4	114.3	0.43	20
88.9	1.5	35544U	35564U	250.0	30.0	85.1	133.3	0.57	20
101.6	1.5	40544U	40564U	275.0	30.0	92.9	152.4	0.66	18

TOLERANCES

Diameter ± 0.5% of OD

Square Target <0.2mm, Max 0.4mm

Dim A +/- 1mm

Dim B/C Nominal

Radius Nominal

POLISH FINISHES

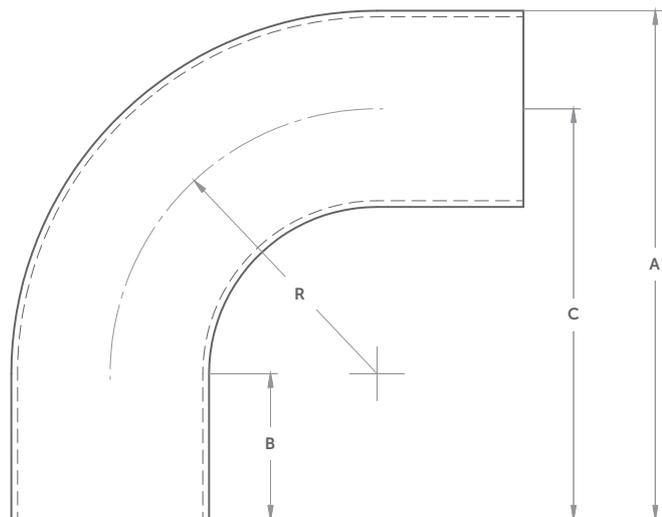
OD Polish 'P' Suffix on stock-code

*Nominal dimensions only. Typically a bend is formed to a slightly tighter radius to allow for radial growth and springback. The 'A' dimension will always be correct. If the radius dimension is critical to your end use please contact us to discuss options.

► Product Specification **90 Degree bends**

Overview

- Nominal 1.5D centreline radius across all sizes
- Standard leg length



90° UNI

Diameter mm	WT mm	Product Code		Dim A mm	Dim B mm	Dim C mm	Radius* mm	Weight Per Unit kg	Standard Pack size
		304	316						
38.1	1.5	15549U	15569U	106.2	30.0	87.2	57.2	0.21	80
44.5	1.5	17549U	17569U	118.9	30.0	74.45	66.7	0.26	45
50.8	1.5	20549U	20569U	131.6	30.0	106.2	76.2	0.34	35
63.5	1.5	25549U	25569U	157.1	30.0	125.4	95.3	0.48	16
76.2	1.5	30549U	30569U	182.4	30.0	144.3	114.3	0.66	10
88.9	1.5	35549U	35569U	207.8	30.0	163.4	133.4	0.96	10
101.6	1.5	40549U	40569U	233.2	30.0	182.4	152.4	1.12	10

TOLERANCES

Diameter ± 0.5% of OD

Square Target <0.2mm, Max 0.4mm

Dim A/C +/- 0.5mm

Dim B Nominal

Radius Nominal

POLISH FINISHES

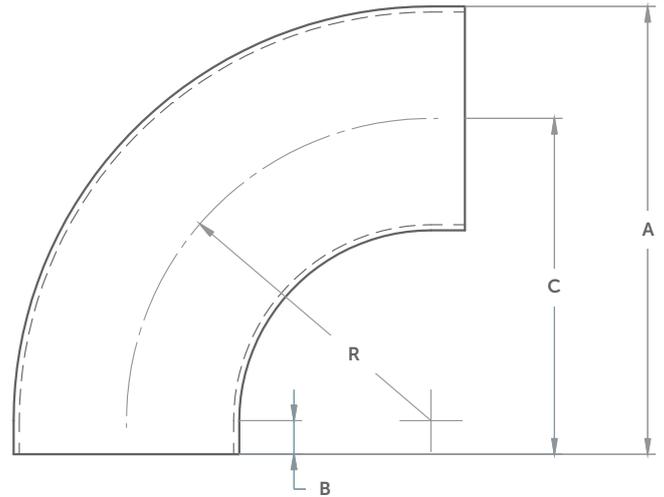
OD Polish 'P' Suffix on stock-code

*Nominal dimensions only. Typically a bend is formed to a slightly tighter radius to allow for radial growth and springback. The 'A' dimension will always be correct. If the radius dimension is critical to your end use please contact us to discuss options.

► Product Specification 90 Degree bends

Overview

- Nominal 1.5D centreline radius
- Unique in-house design for easier and faster install
- Sometimes called 'short radius'



90° ZETAN™

Diameter	WT	Product Code		Dim A	Dim B	Dim C	Radius*	Weight Per Unit	Standard Pack size
		304	316						
38.1	1.5	15549Z	15569Z	76.2	5.8	57.2	51.4	0.13	10
50.8	1.5	20549Z	20569Z	101.6	7.6	76.2	68.6	0.23	50
63.5	1.5	25549Z	25569Z	127.0	9.5	95.3	85.7	0.36	20
76.2	1.5	30549Z	30569Z	152.2	11.4	114.3	102.9	0.55	10
101.6	1.5	40549Z	40569Z	203.2	15.2	152.4	137.2	1.00	10

TOLERANCES

Diameter ± 0.5% OD

Square Target <0.2mm, Max 0.4mm

Dim A/C +/- 0.5mm

Dim B Nominal

Radius Nominal

POLISH FINISHES

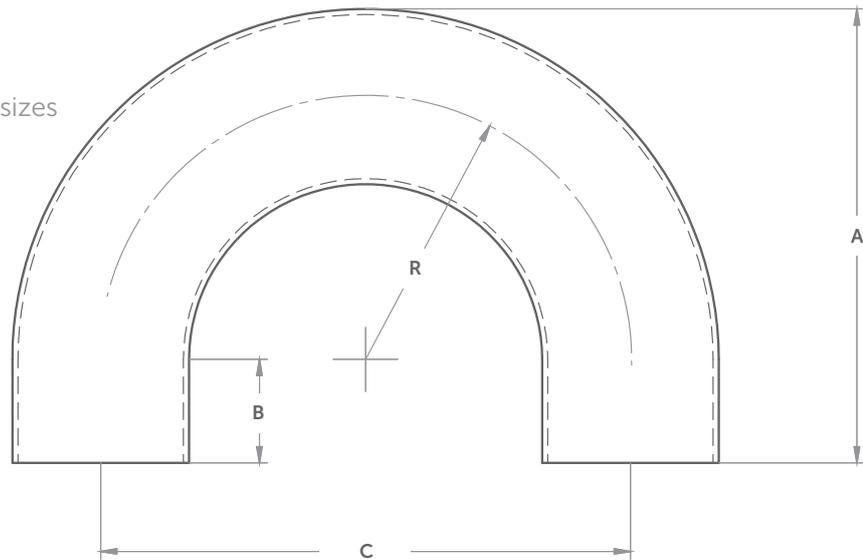
OD Polish 'P' Suffix on stock-code

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► Product Specification **180 Degree bends**

Overview

- 1.5D centreline radius across all sizes
- Standard leg length



180° UNI

Diameter	WT	Product Code		Dim A	Dim B	Dim C	Radius*	Weight Per Unit	Standard Pack size
		304	316						
38.1	1.5	15548U	15568U	106.3	30.0	114.4	57.2	0.32	40
50.8	1.5	20548U	20568U	131.6	30.0	152.4	76.2	0.55	18

TOLERANCES

Diameter $\pm 0.5\%$ OD

Square Target <0.2mm, Max 0.4mm

Dim A +/- 0.5mm

Dim B Nominal

Dim C Nominal – typically $2 \times R \times 1.03$.
If critical to your end use, please talk to us first.

POLISH FINISHES

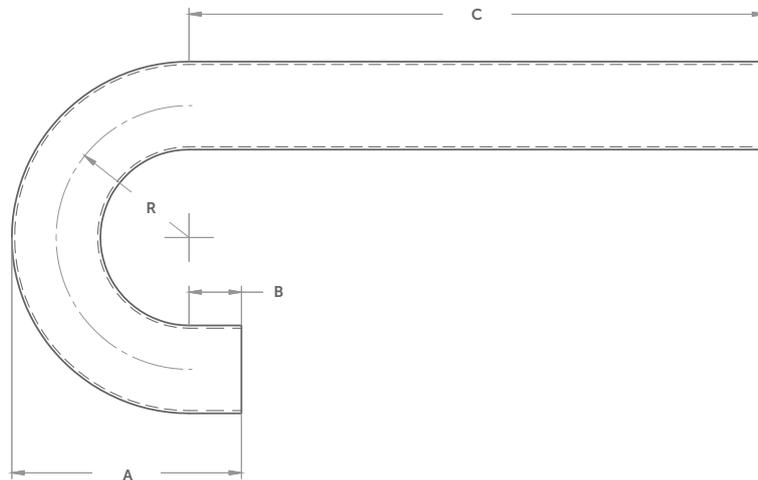
OD Polish 'P' Suffix on stock-code

*Nominal dimensions only. Typically a bend is formed to a slightly tighter radius to allow for radial growth and springback. The 'A' dimension will always be correct. If the radius dimension is critical to your end use please contact us to discuss options.

► Product Specification **180 Degree bends**

Overview

- 1.5 centreline radius
- C measurement approx. 320mm for all sizes



HOCKEY STICK

Diameter mm	WT mm	Product Code		Dim A mm	Dim B mm	Dim C mm	Radius* mm	Weight Per Unit kg	Standard Pack size
		304	316						
38.1	1.5	15548HS	15568HS	106.3	30.0	320.0	57.2	0.72	10
38.1	1.5	15548NHS	15568NHS	130.2	34.9	320.0	76.2	0.82	10
50.8	1.5	20548HS	20568HS	131.6	30.0	320.0	76.2	1.12	6

TOLERANCES

Diameter $\pm 0.5\%$ OD

Dim A ± 1 mm

Dim B Nominal

Dim C +20mm -0mm

Radius Nominal – typically $2 \times R \times 1.03w$

POLISH FINISHES

OD Polish 'P' Suffix on stock-code

*Nominal dimensions only. Typically a bend is formed to a slightly tighter radius to allow for radial growth and springback. The 'A' dimension will always be correct. If the radius dimension is critical to your end use please contact us to discuss options.

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