



**D-ECKWEILER**  
connecting flow to **purity**

# LIFE SCIENCE

## TUBES, FITTINGS AND CONNECTIONS

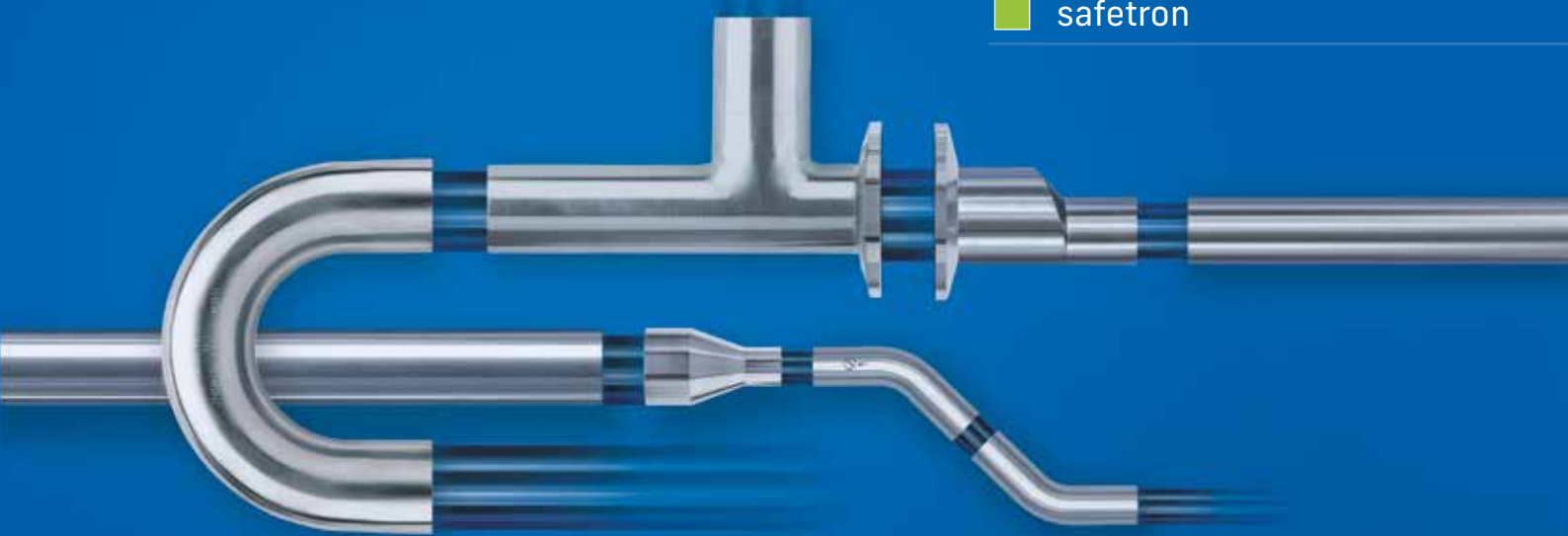


FOR PHARMA, BIOTECH AND  
OTHER LIFE SCIENCE INDUSTRIES

 ASME BPE Certified

 weldtron

 safetron



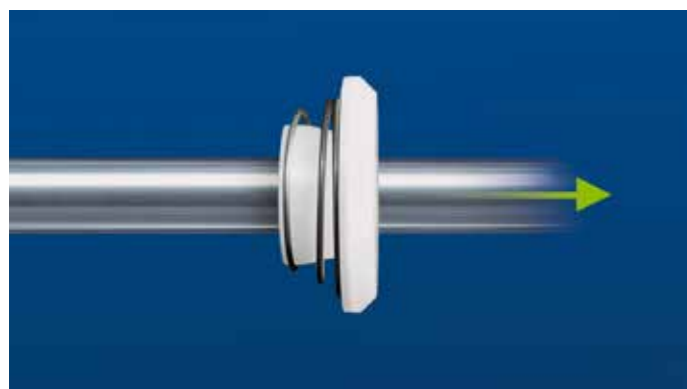
EMEA



## Tubes, Fittings and Components for Life Science Applications

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## How-to order Dockweiler Order Code System

Order Code for ASME BPE products:

- Quality** (Inner surface SF1 or SF4 combined with the material)
- Product-Code**
- Diameter**
- DT-Annex** (Reference to ASME BPE standard / the last two digits)

Qualities highlighted in **blue colour** are stock products.  
Others articles are non-stock products.



Sample for **ASME BPE, SF-4, 90° Elbow, 1 Inch**

ASME BPE / DT-4.1.1-1

Size		A		316L		Code	DT
Inch	mm	Inch	mm	SF1	SF4		
1/4	6,35	2.625	66,70	SF1	SF4	- E9-04	- 1-1
3/8	9,53	2.625	66,70	SF1	SF4	- E9-06	- 1-1
1/2	12,70	3.000	76,20	SF1	<b>1.</b>	<b>2.</b> <b>3.</b>	<b>4.</b>
3/4	19,05	3.000	76,20	SF1	<b>SF4</b>	<b>E9-16</b>	<b>1-1</b>
1 1/2	38,10	3.750	95,30	SF1	SF4	- E9-24	- 1-1
2	50,80	4.750	120,70	SF1	SF4	- E9-32	- 1-1
2 1/2	63,50	5.500	139,70	SF1	SF4	- E9-40	- 1-1
3	76,20	6.250	158,80	SF1	SF4	- E9-48	- 1-1
4	101,60	8.000	203,20	SF1	SF4	- E9-64	- 1-1
6	152,40	11.500	292,10	SF1	SF4	- E9-96	- 1-1

Order Code: **SF4-E9-16-1-1**

Order Code for DIN products:

- Quality**: Inner surface (weldtron or safetron in bf or ep) in combination with the material
- Product-Code**
- Diameter**

Qualities highlighted in **blue colour** are stock products.  
As this article is not highlighted in blue colour, it is a non-stock product.



Sample for **safetron ep, Reducer Eccentric, 1 1/2 x 1/2 Inch**

IMPERIAL / DIN 11865

Size	d1 x d2		s1	s2	l1	weldtron bf	weldtron ep	safetron bf	safetron ep	Code
	Inch	mm				mm	1.4435 / 316L			
1/2 x 1/4	12,70	6,35	1,65	0,89	47,63	W	WE	S	SE	RE-08-04
1/2 x 3/8	12,70	9,53	1,65	0,89	47,63	W	WE	S	SE	RE-08-06
3/4 x 3/8	19,05	9,53	1,65	0,89	50,80	W	WE	S	SE	RE-12-06
3/4 x 1/2	19,05	12,70	1,65	1,65	53,98	W	WE	S	SE	RE-12-08
1 x 1/2	25,40	12,70	1,65	1,65	63,50	W	WE	S	SE	RE-16-08
1 x 3/4	25,40	19,05	1,65	1,65	53,98	W	WE	S	SE	RE-16-10
<b>1 1/2 x 1/2</b>	<b>38,10</b>	<b>12,70</b>	<b>1,65</b>	<b>1,65</b>	<b>80,00</b>	<b>W</b>	<b>WE</b>	<b>S</b>	<b>SE</b>	<b>RE-24-08</b>
1 1/2 x 3/4	38,10	19,05	1,65	1,65	76,20	W	WE	S	SE	RE-24-12
1 1/2 x 1	38,10	25,40	1,65	1,65	63,50	W	WE	S	SE	RE-24-16
2 x 1	50,80	25,40	1,65	1,65	85,73	W	WE	S	SE	RE-32-16
2 x 1 1/2	50,80	38,10	1,65	1,65	63,50	W	WE	S	SE	RE-32-20
2 1/2 x 1	63,50	25,40	1,65	1,65	100,00	W	WE	S	SE	RE-40-16
2 1/2 x 1 1/2	63,50	38,10	1,65	1,65	85,73	W	WE	S	SE	RE-40-24
2 1/2 x 2	63,50	50,80	1,65	1,65	63,50	W	WE	S	SE	RE-40-32
3 x 1 1/2	76,20	38,10	1,65	1,65	107,95	W	WE	S	SE	RE-48-24
3 x 2	76,20	50,80	1,65	1,65	85,73	W	WE	S	SE	RE-48-32
3 x 2 1/2	76,20	63,50	1,65	1,65	66,68	W	WE	S	SE	RE-48-40
<b>4 x 2</b>	<b>101,60</b>	<b>50,80</b>	<b>2,11</b>	<b>1,65</b>	<b>130,18</b>	<b>W</b>	<b>WE</b>	<b>S</b>	<b>SE</b>	<b>RE-64-32</b>
4 x 2 1/2	101,60	63,50	2,11	1,65	107,95	W	WE	S	SE	RE-64-40
4 x 3	101,60	76,20	2,11	1,65	98,43	W	WE	S	SE	RE-64-48
6 x 3	152,40	76,20	2,77	1,65	184,15	W	WE	S	SE	RE-96-64
6 x 4	152,40	101,60	2,77	2,11	142,88	W	WE	S	SE	RE-96-48


Order Code: **SE-RE-24-08**













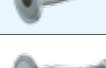

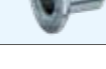



Sample for **weldtron bf, Reducer Eccentric, 4 x 2 Inch**

Order Code: **W-RE-64-32**

If you require stainless steel grade **1.4435 / UNS S31603**, please add **-35** at the end of the order code.

## ASME BPE Tubes, Fittings and Connections

■ ASME BPE		Technical Specifications	8
Products	Code	Designations according to ASME BPE	Page
	DT-4-1	Tube	10
	DT-4.1.1-1	Automatic Tube Weld: 90° Elbow	12
	DT-4.1.1-2	Automatic Tube Weld: Hygienic Clamp Joint, 90° Elbow	13
	DT-4.1.1-3	Hygienic Clamp Joint: 90° Elbow	14
	DT-4.1.1-4	Automatic Tube Weld: 45° Elbow	15
	DT-4.1.1-5	Automatic Tube Weld: Hygienic Clamp Joint, 45° Elbow	16
	DT-4.1.1-6	Hygienic Clamp Joint: 45° Elbow	17
	DT-4.1.1-7	Automatic Tube Weld: 180° Return Bend	18
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	DT-4.1.1-9	Automatic Tube Weld: 88° Elbow	20
	DT-4.1.1-10	Automatic Tube Weld: 92° Elbow	21
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	DT-4.1.2-1	Automatic Tube Weld: Straight Cross	23
	DT-4.1.2-2	Automatic Tube Weld: Short Outlet Hygienic Clamp Joint Tee	24
	DT-4.1.2-3	Hygienic Mechanical Joint: Short Outlet Run Tee	25
	DT-4.1.2-4	Hygienic Clamp Joint: Straight Tee	26
	DT-4.1.2-4	Hygienic Clamp Joint: Straight Cross	27

Products	Code	Designations according to ASME BPE	Page
	DT-4.1.2-5	Hygienic Clamp Joint: Short Outlet Tee	28
	DT-4.1.2-6	Automatic Tube Weld: Reducing Tee	30
	DT-4.1.2-7	Automatic Tube Weld: Short Outlet Hygienic Clamp, Joint Reducing Tee	32
	DT-4.1.2-8	Hygienic Clamp Joint: Reducing Tee	34
	DT-4.1.2-9	Hygienic Clamp Joint: Short Outlet Reducing Tee	36
	DT-4.1.2-10	Automatic Tube Weld: Instrument Tee	38
	DT-4.1.2-11	Hygienic Clamp Joint: Instrument Tee	39
	DT-4.1.3-1	Automatic Tube Weld: Concentric Reducer	40
	DT-4.1.3-1	Automatic Tube Weld: Eccentric Reducer	41
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	DT-4.1.3-3	Hygienic Clamp Joint: Concentric Reducer	44
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	DT-4.1.4-1	Automatic Tube Weld: Ferrule	46
	DT-4.1.5-1	Automatic Tube Weld: Cap	48
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		Clamps	50
		Gaskets	51

**Specification**  
**ASME BPE**

For pharma, biotech and other life science industries

**ASME BPE**

 **ASME BPE SF1 / mechanically polished**

 **ASME BPE SF4 / electropolished**




**1. SURFACE QUALITIES**

Tubes and fittings: Inner surface (mechanically polished)\*


ASME BPE SF0 - on request	No finish requirements
 <b>ASME BPE SF1</b>	<b>Ra<sub>max.</sub> ≤ 0,51 µm / 20 µin</b> (Dockweiler Standard)
ASME BPE SF2 - on request	Ra <sub>max.</sub> ≤ 0,64 µm / 25 µin
ASME BPE SF3 - on request	Ra <sub>max.</sub> ≤ 0,76 µm / 30 µin

Tubes and fittings: Inner surface (electropolished)

 <b>ASME BPE SF4</b>	<b>Ra<sub>max.</sub> ≤ 0,38 µm / 15 µin</b> (Dockweiler Standard)
ASME BPE SF5 - on request	Ra <sub>max.</sub> ≤ 0,51 µm / 20 µin
ASME BPE SF6 - on request	Ra <sub>max.</sub> ≤ 0,64 µm / 25 µin

Surface treatment:	<ul style="list-style-type: none"> <li>- Mechanically polished (or any other finishing method that meets the Ra max.): Cleaning and test procedure ASTM A 632, S3</li> <li>- Electropolished: Procedure acc. to Spec. Doc. 8.4-40/3.2/3.3.2</li> <li>- Free of oil and grease acc. to CGA G-4.1-2018 and ASTM G93 – level B (SF4) / level C (SF1)</li> </ul>
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**2. MATERIALS**

 <b>ASME BPE</b>	UNS S31603 (316L)*, UNS S31603 (316L), 1.4404, 1.4435*
	* defined sulphur of 0.005 - 0.017%

Hardness equivalent to:	<ul style="list-style-type: none"> <li>- max. 180 HV* according to DIN EN ISO 6507-1</li> <li>- max. 90 HRB* according to DIN EN ISO 6508-1</li> </ul>
	* comparable to ASTM E-384 (HV) and ASTM E 18-22 (HRB)

**3. DIMENSIONS**

Imperial:	acc. to ASME BPE, Part DT	
OD x WT	1/4" to 6" (0.250 x 0.035 inch to 6.000 x 0.109 inch)	6,35 x 0,89 mm to 152,40 x 2,77 mm

Manufacturing process:	Welded or seamless tubes
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**4. QUALITY AND TEST PROCEDURES**



Verification of basic test certificate



Visual inspection



Endoscopic inspection of bright finished tubes



Verification of dimensions



Roughness measurements

**5. TECHNICAL TERMS OF DELIVERY**

**Tubes and fittings**

Acc. to ASME BPE-2024, ASTM A 269/270, tubes with a length of 5900 - 6090 mm (19.35 ft - 19.98 ft), max. 10% short lengths of min. 3000 mm (9.84 ft)

**Marking always with**

DOCKWEILER / DW-Number / Dimension / Material / Heat Number / ASME Certification Mark, Surface Finish Designation

Tubes, pipes and fittings shall be permanently marked as per ASME BPE-2024, DT-11. The marking must provide all necessary information to trace back the heat number and the material grade.

**6. DOCUMENTATION, PACKAGING AND SHIPPING**

**Documentation**

The documentation result by the Dockweiler Inspection Certificate 3.1 according to DIN EN 10204. Optional online documentation WebCert.

**Packaging**

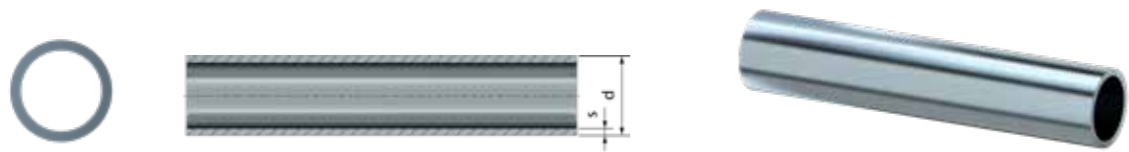
Mechanically polished tubes and fittings are closed with transparent PE caps and are individually sealed in PE foil. The batch label on the foil contains the information ASME BPE SF1.

Electropolished tubes and fittings are closed with PA/PE squares and yellow PE caps, sleeved and sealed in PE. The batch label on the foil contains the information ASME BPE SF4.

**Shipping**

Delivery in tubular container or wooden crate, fittings in strong cardboard box with shock absorbing filler.

**DT-4-1**  
Tube

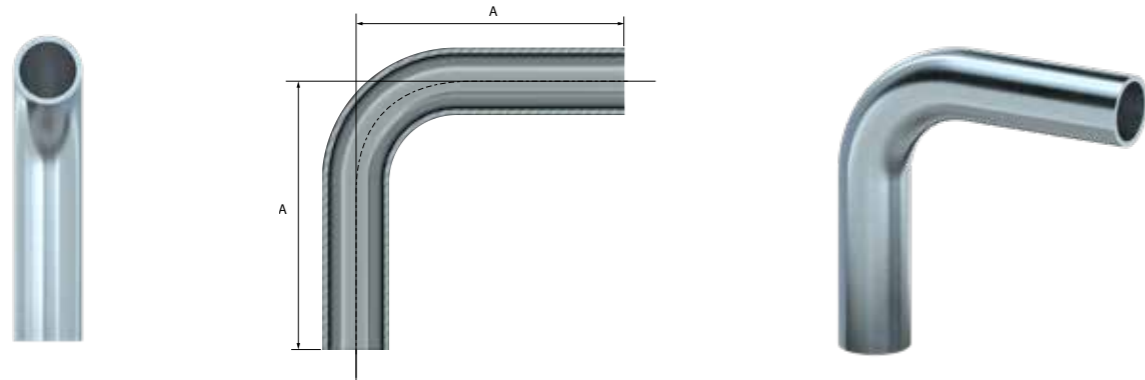


ASME BPE / DT-4-1

Size	d x s		Weight		ASME BPE SF1	ASME BPE SF4	316L	Code
	Inch	mm	Inch	kg / m				
1/4	6,35	0,89	0.250 x 0.035	0,1241	0.2736	SF1	SF4	- 04
3/8	9,53	0,89	0.375 x 0.035	0,1966	0.4334	SF1	SF4	- 06
1/2	12,70	1,65	0.500 x 0.065	0,4571	1.0077	SF1	SF4	- 08
3/4	19,05	1,65	0.750 x 0.065	0,7198	1.5869	SF1	SF4	- 12
1	25,40	1,65	1.000 x 0.065	0,9824	2.1658	SF1	SF4	- 16
1 1/2	38,10	1,65	1.500 x 0.065	1,5077	3.3239	SF1	SF4	- 24
2	50,80	1,65	2.000 x 0.065	2,0331	4.4822	SF1	SF4	- 32
2 1/2	63,50	1,65	2.500 x 0.065	2,5585	5.6405	SF1	SF4	- 40
3	76,20	1,65	3.000 x 0.065	3,0838	6.7986	SF1	SF4	- 48
4	101,60	2,11	4.000 x 0.083	5,2627	11.6023	SF1	SF4	- 64
6	152,40	2,77	6.000 x 0.109	10,3909	22.9080	SF1	SF4	- 96

Blue marked = Stock item  
Further dimensions and materials on request. Subject to alteration.

**DT-4.1.1-1**  
Automatic Tube Weld: 90° Elbow

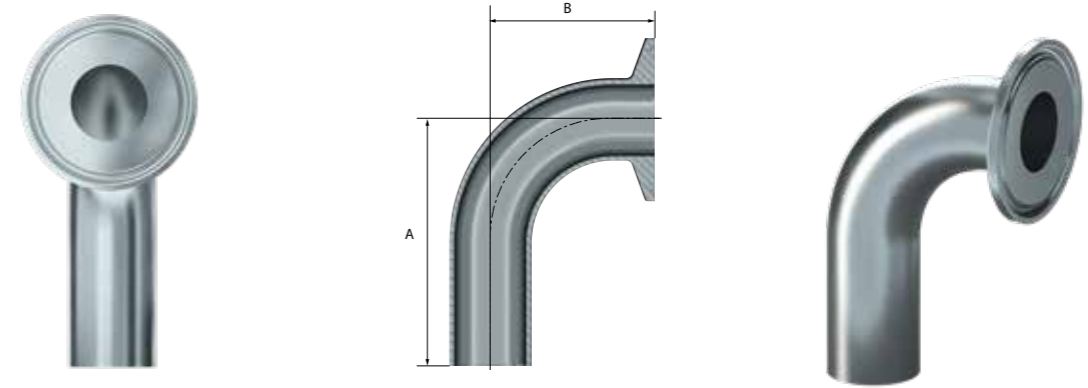


ASME BPE / DT-4.1.1-1

Size		A		ASME BPE SF1	ASME BPE SF4	Ref. According to ASME BPE	
Inch	mm	Inch	mm	316L	Code	DT	
1/4	6,35	2.625	66,70	SF1 SF4	- E9-04 -	1-1	
3/8	9,53	2.625	66,70	SF1 SF4	- E9-06 -	1-1	
1/2	12,70	3.000	76,20	SF1 SF4	- E9-08 -	1-1	
3/4	19,05	3.000	76,20	SF1 SF4	- E9-12 -	1-1	
1	25,40	3.000	76,20	SF1 SF4	- E9-16 -	1-1	
1 1/2	38,10	3.750	95,30	SF1 SF4	- E9-24 -	1-1	
2	50,80	4.750	120,70	SF1 SF4	- E9-32 -	1-1	
2 1/2	63,50	5.500	139,70	SF1 SF4	- E9-40 -	1-1	
3	76,20	6.250	158,80	SF1 SF4	- E9-48 -	1-1	
4	101,60	8.000	203,20	SF1 SF4	- E9-64 -	1-1	
6	152,40	11.500	292,10	SF1 SF4	- E9-96 -	1-1	

Blue marked = Stock item  
Further dimensions and materials on request. Subject to alteration.

**DT-4.1.1-2**  
Automatic Tube Weld: Hygienic Clamp Joint, 90° Elbow

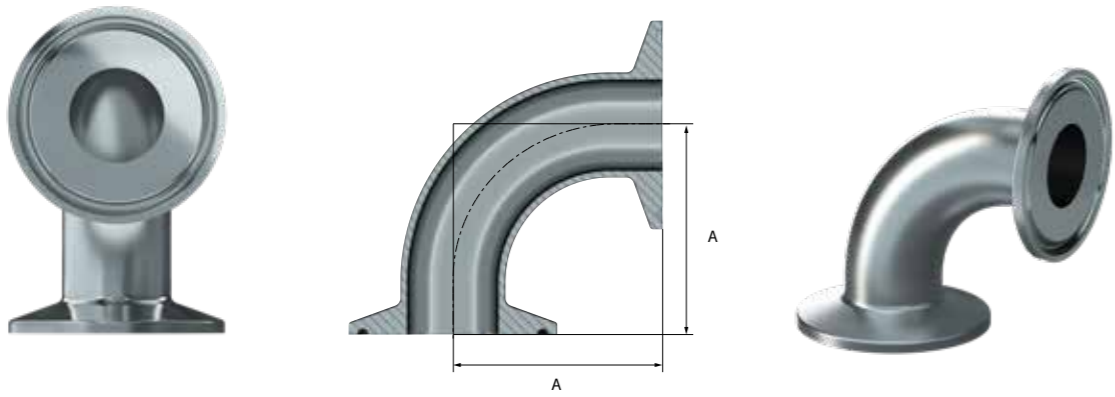


ASME BPE / DT-4.1.1-2

Size		A		B		ASME BPE SF1	ASME BPE SF4	Ref. According to ASME BPE	
Inch	mm	Inch	mm	Inch	mm	316L	Code	DT	
1/4	6,35	2.625	66,70	1.625	41,30	SF1 SF4	- E9-04 -	1-2	
3/8	9,53	2.625	66,70	1.625	41,30	SF1 SF4	- E9-06 -	1-2	
1/2	12,70	3.000	76,20	1.625	41,30	SF1 SF4	- E9-08 -	1-2	
3/4	19,05	3.000	76,20	1.625	41,30	SF1 SF4	- E9-12 -	1-2	
1	25,40	3.000	76,20	2.000	50,80	SF1 SF4	- E9-16 -	1-2	
1 1/2	38,10	3.750	95,30	2.750	69,90	SF1 SF4	- E9-24 -	1-2	
2	50,80	4.750	120,70	3.500	88,90	SF1 SF4	- E9-32 -	1-2	
2 1/2	63,50	5.500	139,70	4.250	108,00	SF1 SF4	- E9-40 -	1-2	
3	76,20	6.250	158,80	5.000	127,00	SF1 SF4	- E9-48 -	1-2	
4	101,60	8.000	203,20	6.625	168,20	SF1 SF4	- E9-64 -	1-2	
6	152,40	11.500	292,10	10.500	266,70	SF1 SF4	- E9-96 -	1-2	

Blue marked = Stock item  
Further dimensions and materials on request. Subject to alteration.

**DT-4.1.1-3**  
Hygienic Clamp Joint: 90° Elbow

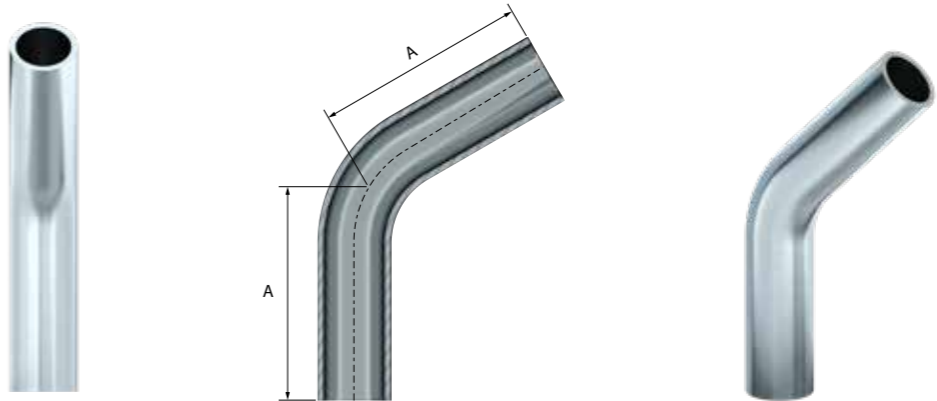


ASME BPE / DT-4.1.1-3

Size		A		ASME BPE SF1	ASME BPE SF4	Ref. According to ASME BPE		
Inch	mm	Inch	mm	■	■	316L	Code	DT
1/4	6,35	1.625	41,30	SF1	SF4	- E9-04	-	1-3
3/8	9,53	1.625	41,30	SF1	SF4	- E9-06	-	1-3
1/2	12,70	1.625	41,30	SF1	SF4	- E9-08	-	1-3
3/4	19,05	1.625	41,30	SF1	SF4	- E9-12	-	1-3
1	25,40	2.000	50,80	SF1	SF4	- E9-16	-	1-3
1 1/2	38,10	2.750	69,90	SF1	SF4	- E9-24	-	1-3
2	50,80	3.500	88,90	SF1	SF4	- E9-32	-	1-3
2 1/2	63,50	4.250	108,00	SF1	SF4	- E9-40	-	1-3
3	76,20	5.000	127,00	SF1	SF4	- E9-48	-	1-3
4	101,60	6.625	168,20	SF1	SF4	- E9-64	-	1-3
6	152,40	10.500	266,70	SF1	SF4	- E9-96	-	1-3

Blue marked = Stock item  
Further dimensions and materials on request. Subject to alteration.

**DT-4.1.1-4**  
Automatic Tube Weld: 45° Elbow



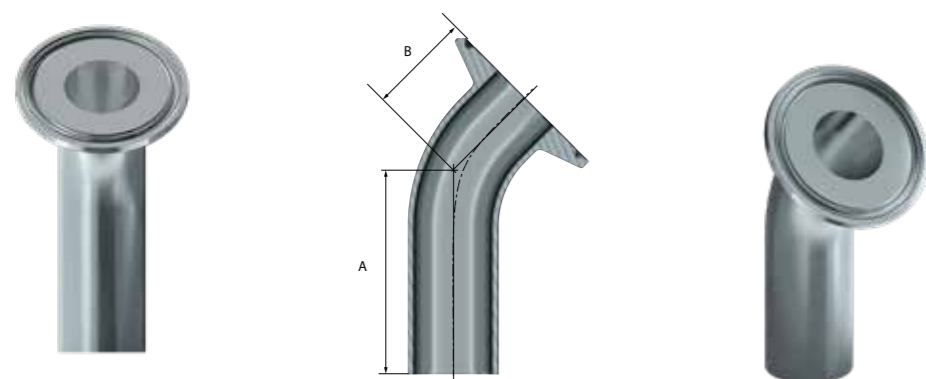
ASME BPE / DT-4.1.1-4

Size		A		ASME BPE SF1	ASME BPE SF4	Ref. According to ASME BPE		
Inch	mm	Inch	mm	■	■	316L	Code	DT
1/4	6,35	2.000	50,80	SF1	SF4	- E4-04	-	1-4
3/8	9,53	2.000	50,80	SF1	SF4	- E4-06	-	1-4
1/2	12,70	2.250	57,20	SF1	SF4	- E4-08	-	1-4
3/4	19,05	2.250	57,20	SF1	SF4	- E4-12	-	1-4
1	25,40	2.250	57,20	SF1	SF4	- E4-16	-	1-4
1 1/2	38,10	2.500	63,50	SF1	SF4	- E4-24	-	1-4
2	50,80	3.000	76,20	SF1	SF4	- E4-32	-	1-4
2 1/2	63,50	3.375	85,70	SF1	SF4	- E4-40	-	1-4
3	76,20	3.625	92,10	SF1	SF4	- E4-48	-	1-4
4	101,60	4.500	114,30	SF1	SF4	- E4-64	-	1-4
6	152,40	6.250	158,80	SF1	SF4	- E4-96	-	1-4

Blue marked = Stock item  
Further dimensions and materials on request. Subject to alteration.



**DT-4.1.1-5**  
Automatic Tube Weld: Hygienic Clamp Joint, 45° Elbow

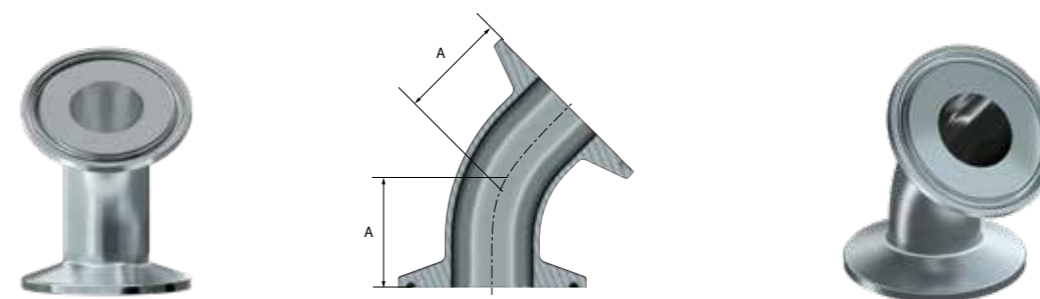


ASME BPE / DT-4.1.1-5

Size		A		B		ASME BPE SF1	ASME BPE SF4	Ref. According to ASME BPE		
Inch	mm	Inch	mm	Inch	mm	■	■	316L	Code	DT
1/4	6,35	2.000	50,80	1.000	25,40	SF1	SF4	-	E4-04	- 1-5
3/8	9,53	2.000	50,80	1.000	25,40	SF1	SF4	-	E4-06	- 1-5
1/2	12,70	2.250	57,20	1.000	25,40	SF1	SF4	-	E4-08	- 1-5
3/4	19,05	2.250	57,20	1.000	25,40	SF1	SF4	-	E4-12	- 1-5
1	25,40	2.250	57,20	1.125	28,60	SF1	SF4	-	E4-16	- 1-5
1 1/2	38,10	2.500	63,50	1.438	36,50	SF1	SF4	-	E4-24	- 1-5
2	50,80	3.000	76,20	1.750	44,50	SF1	SF4	-	E4-32	- 1-5
2 1/2	63,50	3.375	85,70	2.063	52,40	SF1	SF4	-	E4-40	- 1-5
3	76,20	3.625	92,10	2.375	60,30	SF1	SF4	-	E4-48	- 1-5
4	101,60	4.500	114,30	3.125	79,40	SF1	SF4	-	E4-64	- 1-5
6	152,40	6.250	158,80	5.250	133,40	SF1	SF4	-	E4-96	- 1-5

Blue marked = Stock item  
Further dimensions and materials on request. Subject to alteration.

**DT-4.1.1-6**  
Hygienic Clamp Joint: 45° Elbow

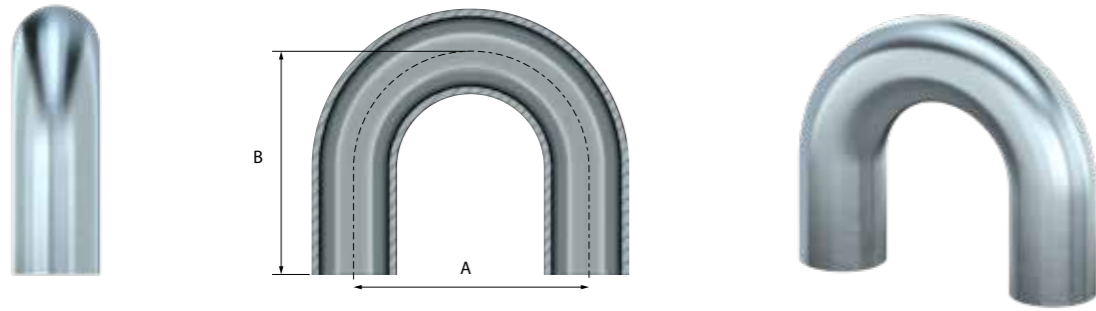


ASME BPE / DT-4.1.1-6

Size		A		ASME BPE SF1	ASME BPE SF4	Ref. According to ASME BPE		
Inch	mm	Inch	mm	■	■	316L	Code	DT
1/4	6,35	1.000	25,40	SF1	SF4	-	E4-04	- 1-6
3/8	9,53	1.000	25,40	SF1	SF4	-	E4-06	- 1-6
1/2	12,70	1.000	25,40	SF1	SF4	-	E4-08	- 1-6
3/4	19,05	1.000	25,40	SF1	SF4	-	E4-12	- 1-6
1	25,40	1.125	28,60	SF1	SF4	-	E4-16	- 1-6
1 1/2	38,10	1.438	36,50	SF1	SF4	-	E4-24	- 1-6
2	50,80	1.750	44,50	SF1	SF4	-	E4-32	- 1-6
2 1/2	63,50	2.063	52,40	SF1	SF4	-	E4-40	- 1-6
3	76,20	2.375	60,30	SF1	SF4	-	E4-48	- 1-6
4	101,60	3.125	79,40	SF1	SF4	-	E4-64	- 1-6
6	152,40	5.250	133,40	SF1	SF4	-	E4-96	- 1-6

Blue marked = Stock item  
Further dimensions and materials on request. Subject to alteration.

**DT-4.1.1-7**  
Automatic Tube Weld: 180° Return Bend

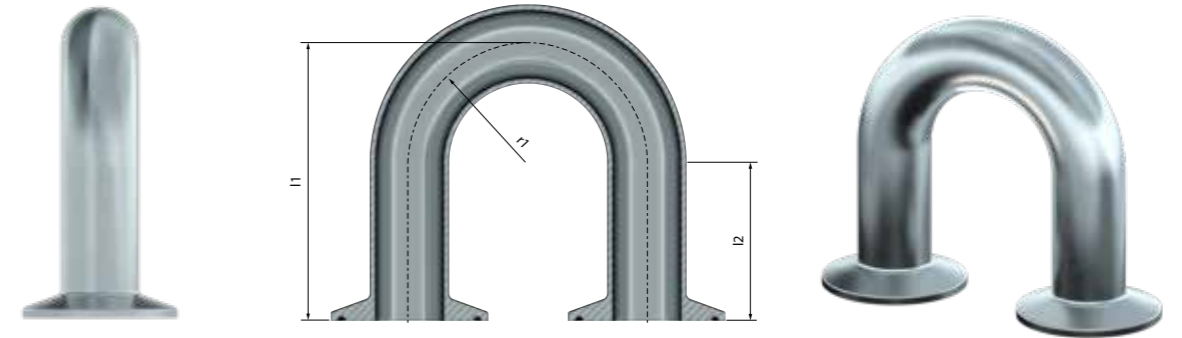


ASME BPE / DT-4.1.1-7

Size		A		B		ASME BPE SF1	ASME BPE SF4	Ref. According to ASME BPE	
Inch	mm	Inch	mm	Inch	mm	316L	Code	DT	
1/4	6,35	4.500	114,30	2.625	66,70	SF1	SF4	- EU-04 -	1-7
3/8	9,53	4.500	114,30	2.625	66,70	SF1	SF4	- EU-06 -	1-7
1/2	12,70	4.500	114,30	3.000	76,20	SF1	SF4	- EU-08 -	1-7
3/4	19,05	4.500	114,30	3.000	76,20	SF1	SF4	- EU-12 -	1-7
1	25,40	3.000	76,20	3.000	76,20	SF1	SF4	- EU-16 -	1-7
1 1/2	38,10	4.500	114,30	4.500	114,30	SF1	SF4	- EU-24 -	1-7
2	50,80	6.000	152,40	5.000	127,00	SF1	SF4	- EU-32 -	1-7
2 1/2	63,50	7.500	190,50	5.750	146,10	SF1	SF4	- EU-40 -	1-7
3	76,20	9.000	228,60	6.500	165,10	SF1	SF4	- EU-48 -	1-7
4	101,60	12.000	304,80	8.500	215,90	SF1	SF4	- EU-64 -	1-7
6	152,40	18.000	457,20	11.500	292,10	SF1	SF4	- EU-96 -	1-7

Blue marked = Stock item  
Further dimensions and materials on request. Subject to alteration.

**DT-4.1.1-8**  
Hygienic Clamp Joint: 180° Return Bend

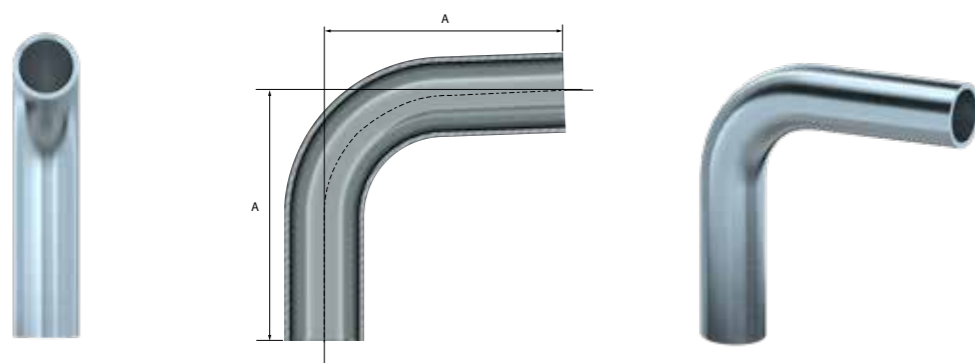


ASME BPE / DT-4.1.1-8

Size		A		B		ASME BPE SF1	ASME BPE SF4	Ref. According to ASME BPE	
Inch	mm	Inch	mm	Inch	mm	316L	Code	DT	
1/4	6,35	4.500	114,30	3.125	79,40	SF1	SF4	- EU-04 -	1-8
3/8	9,53	4.500	114,30	3.125	79,40	SF1	SF4	- EU-06 -	1-8
1/2	12,70	4.500	114,30	3.500	88,90	SF1	SF4	- EU-08 -	1-8
3/4	19,05	4.500	114,30	3.500	88,90	SF1	SF4	- EU-12 -	1-8
1	25,40	3.000	76,20	3.500	88,90	SF1	SF4	- EU-16 -	1-8
1 1/2	38,10	4.500	114,30	5.000	127,00	SF1	SF4	- EU-24 -	1-8
2	50,80	6.000	152,40	5.500	139,70	SF1	SF4	- EU-32 -	1-8
2 1/2	63,50	7.500	190,50	6.250	158,80	SF1	SF4	- EU-40 -	1-8
3	76,20	9.000	228,60	7.000	177,80	SF1	SF4	- EU-48 -	1-8
4	101,60	12.000	304,80	9.125	231,80	SF1	SF4	- EU-64 -	1-8
6	152,40	18.000	457,20	13.000	330,20	SF1	SF4	- EU-96 -	1-8

Blue marked = Stock item  
Further dimensions and materials on request. Subject to alteration.

**DT-4.1.1-9**  
Automatic Tube Weld: 88° Elbow

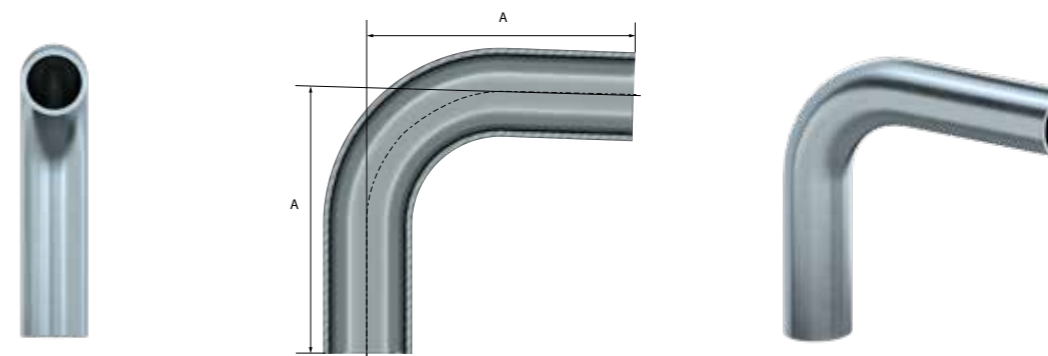


ASME BPE / DT-4.1.1-9

Size		A		ASME BPE SF1	ASME BPE SF4	Ref. According to ASME BPE		
Inch	mm	Inch	mm	■	■	316L	Code	DT
1/4	6,35	2.700	68,58	SF1	SF4	- E8-04	-	1-9
3/8	9,53	2.700	68,58	SF1	SF4	- E8-06	-	1-9
1/2	12,70	3.065	77,85	SF1	SF4	- E8-08	-	1-9
3/4	19,05	3.065	77,85	SF1	SF4	- E8-12	-	1-9
1	25,40	3.050	77,47	SF1	SF4	- E8-16	-	1-9
1 1/2	38,10	3.800	96,52	SF1	SF4	- E8-24	-	1-9
2	50,80	4.810	122,17	SF1	SF4	- E8-32	-	1-9
2 1/2	63,50	5.560	141,22	SF1	SF4	- E8-40	-	1-9
3	76,20	6.310	160,27	SF1	SF4	- E8-48	-	1-9
4	101,60	8.065	204,85	SF1	SF4	- E8-64	-	1-9
6	152,40	11.580	294,13	SF1	SF4	- E8-96	-	1-9

Blue marked = Stock item  
Further dimensions and materials on request. Subject to alteration.

**DT-4.1.1-10**  
Automatic Tube Weld: 92° Elbow

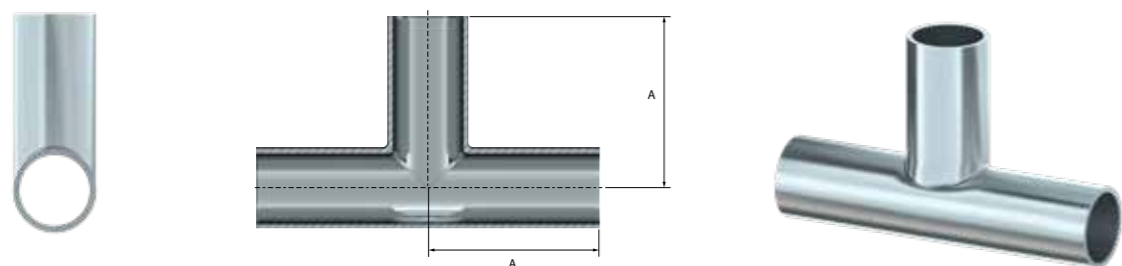


ASME BPE / DT-4.1.1-10

Size		A		ASME BPE SF1	ASME BPE SF4	Ref. According to ASME BPE		
Inch	mm	Inch	mm	■	■	316L	Code	DT
1/4	6,35	2.700	68,58	SF1	SF4	- E2-04	-	1-10
3/8	9,53	2.700	68,58	SF1	SF4	- E2-06	-	1-10
1/2	12,70	3.065	77,85	SF1	SF4	- E2-08	-	1-10
3/4	19,05	3.065	77,85	SF1	SF4	- E2-12	-	1-10
1	25,40	3.050	77,47	SF1	SF4	- E2-16	-	1-10
1 1/2	38,10	3.800	96,52	SF1	SF4	- E2-24	-	1-10
2	50,80	4.810	122,17	SF1	SF4	- E2-32	-	1-10
2 1/2	63,50	5.560	141,22	SF1	SF4	- E2-40	-	1-10
3	76,20	6.310	160,27	SF1	SF4	- E2-48	-	1-10
4	101,60	8.065	204,85	SF1	SF4	- E2-64	-	1-10
6	152,40	11.580	294,13	SF1	SF4	- E2-96	-	1-10

Blue marked = Stock item  
Further dimensions and materials on request. Subject to alteration.

**DT-4.1.2-1**  
Automatic Tube Weld: Straight Tee

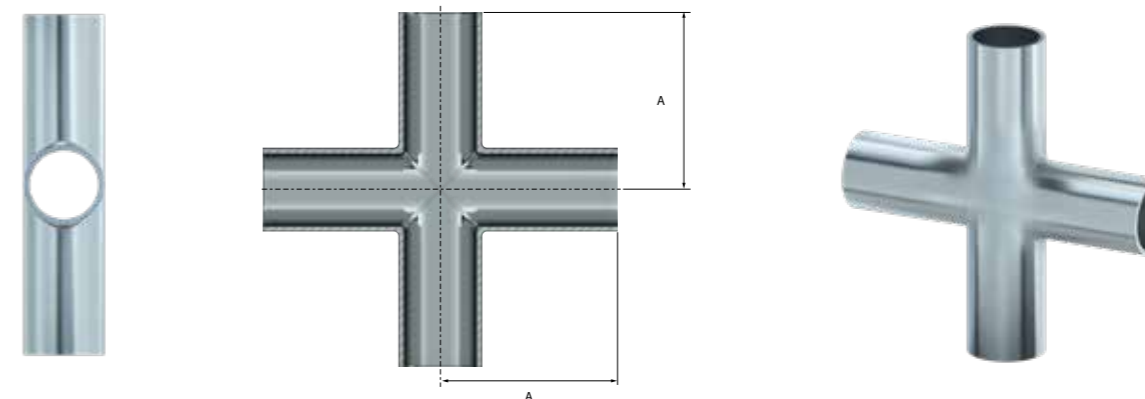


ASME BPE / DT-4.1.2-1

Size		A		ASME BPE SF1	ASME BPE SF4	Ref. According to ASME BPE	
Inch	mm	Inch	mm	316L	Code	DT	
1/4	6,35	1.750	44,50	SF1 SF4	TE-04	2-1	
3/8	9,53	1.750	44,50	SF1 SF4	TE-06	2-1	
1/2	12,70	1.875	47,60	SF1 SF4	TE-08	2-1	
3/4	19,05	2.000	50,80	SF1 SF4	TE-12	2-1	
1	25,40	2.125	54,00	SF1 SF4	TE-16	2-1	
1 1/2	38,10	2.375	60,30	SF1 SF4	TE-24	2-1	
2	50,80	2.875	73,00	SF1 SF4	TE-32	2-1	
2 1/2	63,50	3.125	79,40	SF1 SF4	TE-40	2-1	
3	76,20	3.375	85,70	SF1 SF4	TE-48	2-1	
4	101,60	4.125	104,80	SF1 SF4	TE-64	2-1	
6	152,40	5.625	142,90	SF1 SF4	TE-96	2-1	

Blue marked = Stock item  
Further dimensions and materials on request. Subject to alteration.

**DT-4.1.2-1**  
Automatic Tube Weld: Straight Cross

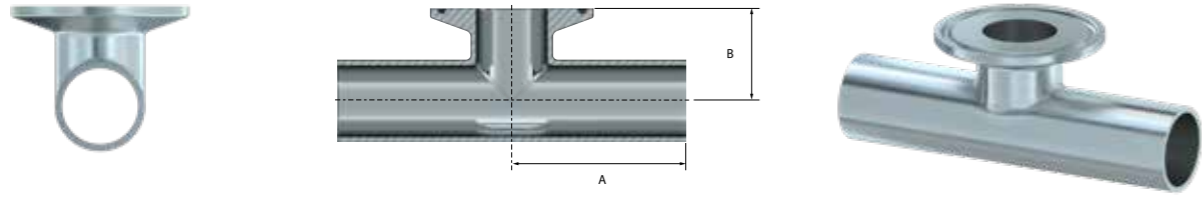


ASME BPE / DT-4.1.2-1

Size		A		ASME BPE SF1	ASME BPE SF4	Ref. According to ASME BPE	
Inch	mm	Inch	mm	316L	Code	DT	
1/4	6,35	1.750	44,50	SF1 SF4	CE-04	2-1	
3/8	9,53	1.750	44,50	SF1 SF4	CE-06	2-1	
1/2	12,70	1.875	47,60	SF1 SF4	CE-08	2-1	
3/4	19,05	2.000	50,80	SF1 SF4	CE-12	2-1	
1	25,40	2.125	54,00	SF1 SF4	CE-16	2-1	
1 1/2	38,10	2.375	60,30	SF1 SF4	CE-24	2-1	
2	50,80	2.875	73,00	SF1 SF4	CE-32	2-1	
2 1/2	63,50	3.125	79,40	SF1 SF4	CE-40	2-1	
3	76,20	3.375	85,70	SF1 SF4	CE-48	2-1	
4	101,60	4.125	104,80	SF1 SF4	CE-64	2-1	
6	152,40	5.625	142,90	SF1 SF4	CE-96	2-1	

Blue marked = Stock item  
Further dimensions and materials on request. Subject to alteration.

**DT-4.1.2-2**  
Automatic Tube Weld: Short Outlet Hygienic Clamp Joint Tee

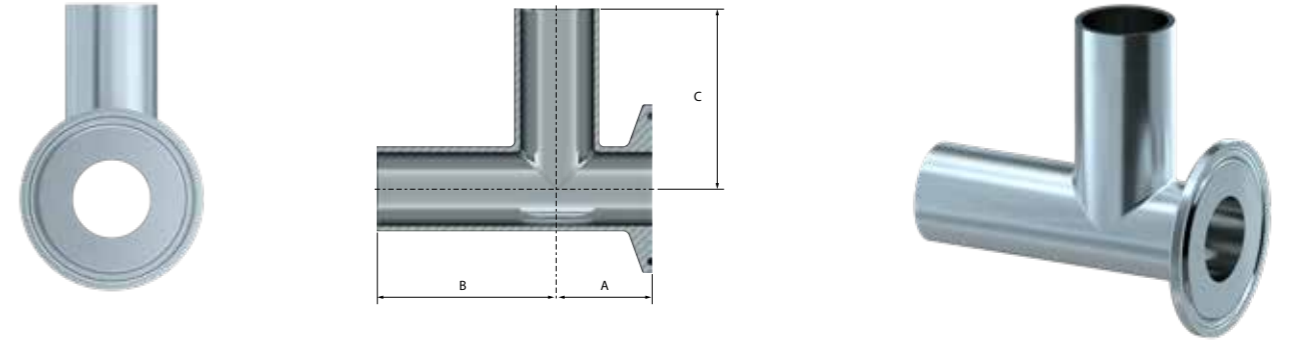


ASME BPE / DT-4.1.2-2

Size		A		B		ASME BPE SF1	ASME BPE SF4	Ref. According to ASME BPE		
Inch	mm	Inch	mm	Inch	mm	■	■	316L	Code	DT
1/4	6,35	1.750	44,50	1.000	25,40	SF1	SF4	-	TE-04	- 2-2
3/8	9,53	1.750	44,50	1.000	25,40	SF1	SF4	-	TE-06	- 2-2
1/2	12,70	1.875	47,60	1.000	25,40	SF1	SF4	-	TE-08	- 2-2
3/4	19,05	2.000	50,80	1.125	28,60	SF1	SF4	-	TE-12	- 2-2
1	25,40	2.125	54,00	1.125	28,60	SF1	SF4	-	TE-16	- 2-2
1 1/2	38,10	2.375	60,30	1.375	34,90	SF1	SF4	-	TE-24	- 2-2
2	50,80	2.875	73,00	1.625	41,30	SF1	SF4	-	TE-32	- 2-2
2 1/2	63,50	3.125	79,40	1.875	47,60	SF1	SF4	-	TE-40	- 2-2
3	76,20	3.375	85,70	2.125	54,00	SF1	SF4	-	TE-48	- 2-2
4	101,60	4.125	104,80	2.750	69,00	SF1	SF4	-	TE-64	- 2-2
6	152,40	5.625	142,90	4.625	117,50	SF1	SF4	-	TE-96	- 2-2

Blue marked = Stock item  
Further dimensions and materials on request. Subject to alteration.

**DT-4.1.2-3**  
Hygienic Mechanical Joint: Short Outlet Run Tee

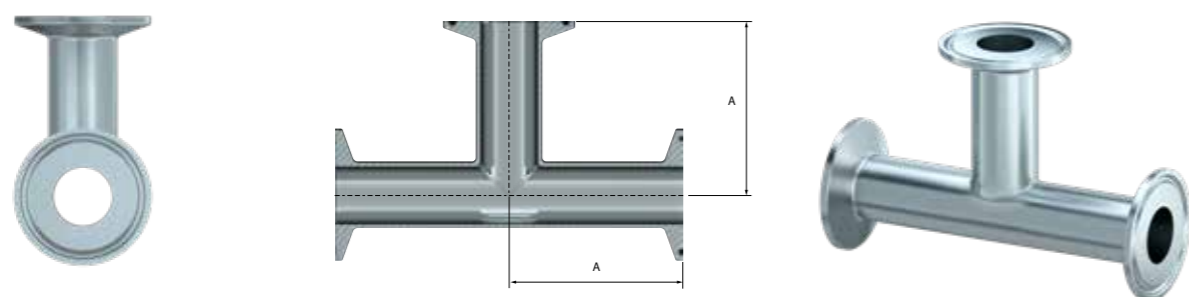


ASME BPE / DT-4.1.2-3

Size		A		B		C		ASME BPE SF1	ASME BPE SF4	Ref. According to ASME BPE		
Inch	mm	Inch	mm	Inch	mm	Inch	mm	■	■	316L	Code	DT
1/4	6,35	0.875	22,20	1.750	44,50	1.750	44,50	SF1	SF4	-	TE-04	- 2-3
3/8	9,53	0.875	22,20	1.750	44,50	1.750	44,50	SF1	SF4	-	TE-06	- 2-3
1/2	12,70	0.875	22,20	1.875	47,60	1.875	47,60	SF1	SF4	-	TE-08	- 2-3
3/4	19,05	1.000	25,40	2.000	50,80	2.000	50,80	SF1	SF4	-	TE-12	- 2-3
1	25,40	1.125	28,60	2.125	54,00	2.125	54,00	SF1	SF4	-	TE-16	- 2-3
1 1/2	38,10	1.375	34,90	2.375	60,30	2.375	60,30	SF1	SF4	-	TE-24	- 2-3
2	50,80	1.625	41,30	2.875	73,00	2.875	73,00	SF1	SF4	-	TE-32	- 2-3
2 1/2	63,50	1.875	47,60	3.125	79,40	3.125	79,40	SF1	SF4	-	TE-40	- 2-3
3	76,20	2.125	54,00	3.375	85,70	3.375	85,70	SF1	SF4	-	TE-48	- 2-3
4	101,60	2.750	69,90	4.125	104,80	4.125	104,80	SF1	SF4	-	TE-64	- 2-3
6	152,40	4.625	117,50	5.625	142,90	5.625	142,90	SF1	SF4	-	TE-96	- 2-3

Blue marked = Stock item  
Further dimensions and materials on request. Subject to alteration.

**DT-4.1.2-4**  
Hygienic Clamp Joint: Straight Tee

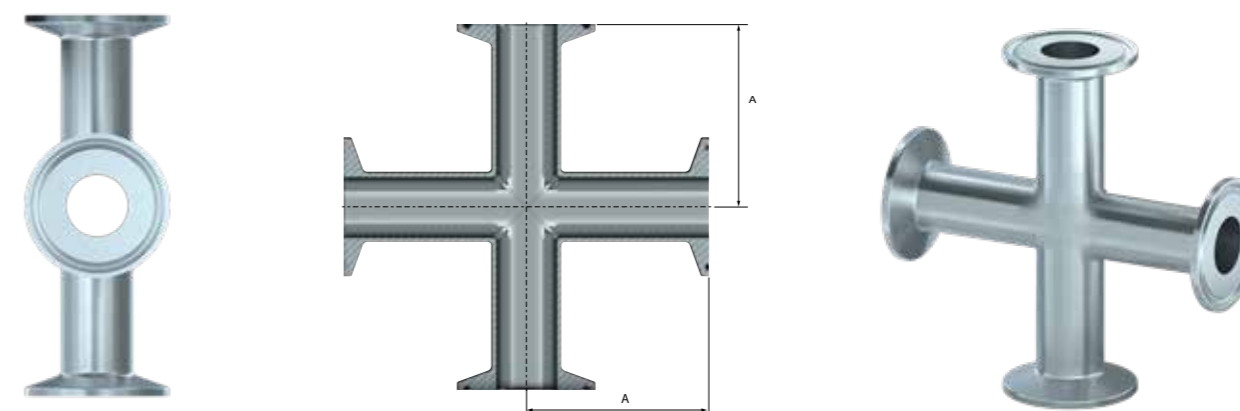


ASME BPE / DT-4.1.2-4

Size		A		ASME BPE SF1	ASME BPE SF4	Ref. According to ASME BPE	
Inch	mm	Inch	mm	316L	Code	DT	
1/4	6,35	2.250	57,20	SF1	SF4 - TE-04	2-4	
3/8	9,53	2.250	57,20	SF1	SF4 - TE-06	2-4	
1/2	12,70	2.250	57,20	SF1	SF4 - TE-08	2-4	
3/4	19,05	2.375	60,30	SF1	SF4 - TE-12	2-4	
1	25,40	2.625	66,70	SF1	SF4 - TE-16	2-4	
1 1/2	38,10	2.875	73,00	SF1	SF4 - TE-24	2-4	
2	50,80	3.375	85,70	SF1	SF4 - TE-32	2-4	
2 1/2	63,50	3.625	92,10	SF1	SF4 - TE-40	2-4	
3	76,20	3.875	98,40	SF1	SF4 - TE-48	2-4	
4	101,60	4.750	120,70	SF1	SF4 - TE-64	2-4	
6	152,40	7.125	181,00	SF1	SF4 - TE-96	2-4	

Blue marked = Stock item  
Further dimensions and materials on request. Subject to alteration.

**DT-4.1.2-4**  
Hygienic Clamp Joint: Straight Cross

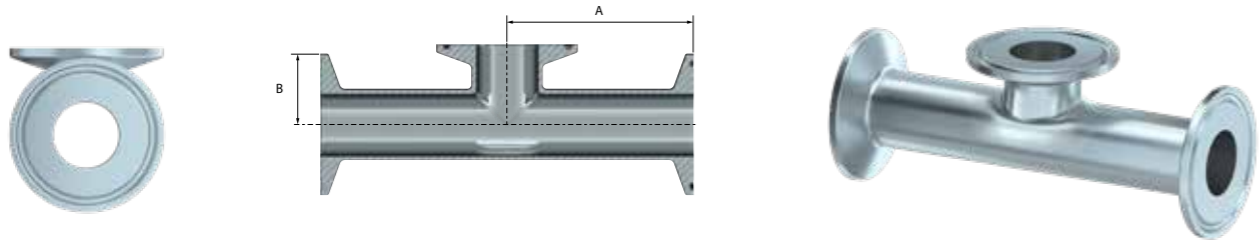


ASME BPE / DT-4.1.2-4

Size		A		ASME BPE SF1	ASME BPE SF4	Ref. According to ASME BPE	
Inch	mm	Inch	mm	316L	Code	DT	
1/4	6,35	2.250	57,20	SF1	SF4 - CE-04	2-4	
3/8	9,53	2.250	57,20	SF1	SF4 - CE-06	2-4	
1/2	12,70	2.250	57,20	SF1	SF4 - CE-08	2-4	
3/4	19,05	2.375	60,30	SF1	SF4 - CE-12	2-4	
1	25,40	2.625	66,70	SF1	SF4 - CE-16	2-4	
1 1/2	38,10	2.875	73,00	SF1	SF4 - CE-24	2-4	
2	50,80	3.375	85,70	SF1	SF4 - CE-32	2-4	
2 1/2	63,50	3.625	92,10	SF1	SF4 - CE-40	2-4	
3	76,20	3.875	98,40	SF1	SF4 - CE-48	2-4	
4	101,60	4.750	120,70	SF1	SF4 - CE-64	2-4	
6	152,40	7.125	181,00	SF1	SF4 - CE-96	2-4	

Blue marked = Stock item  
Further dimensions and materials on request. Subject to alteration.

**DT-4.1.2-5**  
Hygienic Clamp Joint: Short Outlet Tee

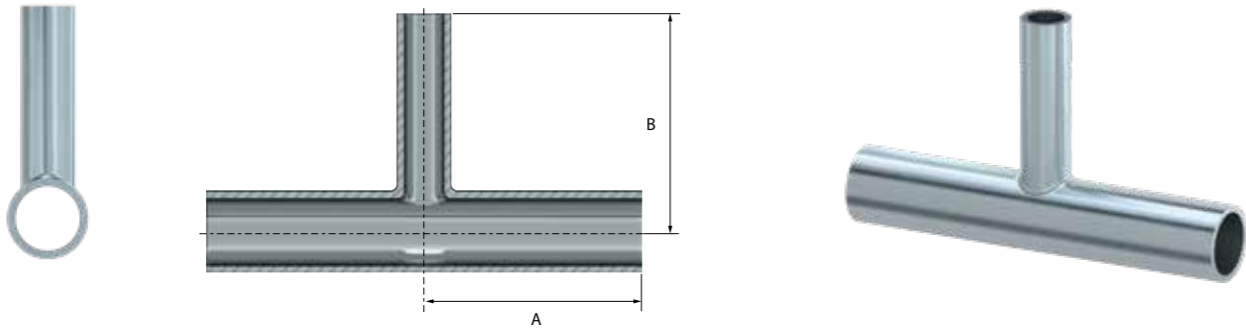


ASME BPE / DT-4.1.2-5

Size		A		B		ASME BPE SF1	ASME BPE SF4	Ref. According to ASME BPE	
Inch	mm	Inch	mm	Inch	mm	316L	Code	DT	
1/2	12,70	2.625	66,70	1.125	28,60	SF1	SF4 - TE-08	2-5	
3/4	19,05	2.875	73,00	1.375	34,90	SF1	SF4 - TE-12	2-5	
1	25,40	3.375	85,70	1.625	41,30	SF1	SF4 - TE-16	2-5	
1 1/2	38,10	3.625	92,10	1.875	47,60	SF1	SF4 - TE-24	2-5	
2	50,80	3.875	98,40	2.125	54,00	SF1	SF4 - TE-32	2-5	
2 1/2	63,50	4.750	120,70	2.750	69,90	SF1	SF4 - TE-40	2-5	
3	76,20	7.125	181,00	4.625	117,50	SF1	SF4 - TE-48	2-5	
4	101,60	4.125	104,80	2.750	69,00	SF1	SF4 - TE-64	2-2	
6	152,40	5.625	142,90	4.625	117,50	SF1	SF4 - TE-96	2-2	

Blue marked = Stock item  
Further dimensions and materials on request. Subject to alteration.

**DT-4.1.2-6**  
Automatic Tube Weld: Reducing Tee



ASME BPE / DT-4.1.2-6

Size		A		B		ASME BPE SF1	ASME BPE SF4	Ref. According to ASME BPE			
Inch	mm	Inch	mm	Inch	mm	316L	Code	DT			
3/8 x 1/4	9,53 x 6,35	1.750	44,50	1.750	44,50	SF1	SF4	-	TR-06-04	-	2-6
1/2 x 1/4	12,70 x 6,35	1.875	47,60	1.875	47,60	SF1	SF4	-	TR-08-04	-	2-6
1/2 x 3/8	12,70 x 9,53	1.875	47,60	1.875	47,60	SF1	SF4	-	TR-08-06	-	2-6
3/4 x 1/4	19,05 x 6,35	2.000	50,80	2.000	50,80	SF1	SF4	-	TR-12-04	-	2-6
3/4 x 3/8	19,05 x 9,53	2.000	50,80	2.000	50,80	SF1	SF4	-	TR-12-06	-	2-6
3/4 x 1/2	19,05 x 12,70	2.000	50,80	2.000	50,80	SF1	SF4	-	TR-12-08	-	2-6
1 x 1/4	25,40 x 6,35	2.125	54,00	2.125	54,00	SF1	SF4	-	TR-16-04	-	2-6
1 x 3/8	25,40 x 9,53	2.125	54,00	2.125	54,00	SF1	SF4	-	TR-16-06	-	2-6
1 x 1/2	25,40 x 12,70	2.125	54,00	2.125	54,00	SF1	SF4	-	TR-16-08	-	2-6
1 x 3/4	25,40 x 19,05	2.125	54,00	2.125	54,00	SF1	SF4	-	TR-16-12	-	2-6
1 1/2 x 1/2	38,10 x 12,70	2.375	60,30	2.375	60,30	SF1	SF4	-	TR-24-08	-	2-6
1 1/2 x 3/4	38,10 x 19,05	2.375	60,30	2.375	60,30	SF1	SF4	-	TR-24-12	-	2-6
1 1/2 x 1	38,10 x 25,40	2.375	60,30	2.375	60,30	SF1	SF4	-	TR-24-16	-	2-6
2 x 1/2	50,80 x 12,70	2.875	73,00	2.625	66,70	SF1	SF4	-	TR-32-08	-	2-6
2 x 3/4	50,80 x 19,05	2.875	73,00	2.625	66,70	SF1	SF4	-	TR-32-12	-	2-6
2 x 1	50,80 x 25,40	2.875	73,00	2.625	66,70	SF1	SF4	-	TR-32-16	-	2-6
2 x 1 1/2	50,80 x 38,10	2.875	73,00	2.625	66,70	SF1	SF4	-	TR-32-24	-	2-6

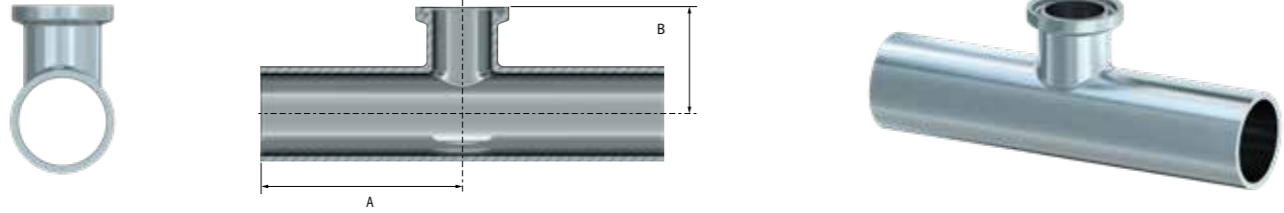
Blue marked = Stock item  
Further dimensions and materials on request. Subject to alteration.

Size		A		B		ASME BPE SF1	ASME BPE SF4	Ref. According to ASME BPE			
Inch	mm	Inch	mm	Inch	mm	316L	Code	DT			
2 1/2 x 1/2	63,50 x 12,70	3.125	79,40	2.875	73,00	SF1	SF4	-	TR-40-08	-	2-6
2 1/2 x 3/4	63,50 x 19,05	3.125	79,40	2.875	73,00	SF1	SF4	-	TR-40-12	-	2-6
2 1/2 x 1	63,50 x 25,40	3.125	79,40	2.875	73,00	SF1	SF4	-	TR-40-16	-	2-6
2 1/2 x 1 1/2	63,50 x 38,10	3.125	79,40	2.875	73,00	SF1	SF4	-	TR-40-24	-	2-6
2 1/2 x 2	63,50 x 50,80	3.125	79,40	2.875	73,00	SF1	SF4	-	TR-40-32	-	2-6
3 x 1/2	76,20 x 12,70	3.375	85,70	3.125	79,40	SF1	SF4	-	TR-48-08	-	2-6
3 x 3/4	76,20 x 19,05	3.375	85,70	3.125	79,40	SF1	SF4	-	TR-48-12	-	2-6
3 x 1	76,20 x 25,40	3.375	85,70	3.125	79,40	SF1	SF4	-	TR-48-16	-	2-6
3 x 1 1/2	76,20 x 38,10	3.375	85,70	3.125	79,40	SF1	SF4	-	TR-48-24	-	2-6
3 x 2	76,20 x 50,80	3.375	85,70	3.125	79,40	SF1	SF4	-	TR-48-32	-	2-6
3 x 2 1/2	76,20 x 63,50	3.375	85,70	3.125	79,40	SF1	SF4	-	TR-48-40	-	2-6
4 x 1/2	101,60 x 12,70	4.125	104,80	3.625	92,10	SF1	SF4	-	TR-64-08	-	2-6
4 x 3/4	101,60 x 19,05	4.125	104,80	3.625	92,10	SF1	SF4	-	TR-64-12	-	2-6
4 x 1	101,60 x 25,40	4.125	104,80	3.625	92,10	SF1	SF4	-	TR-64-16	-	2-6
4 x 1 1/2	101,60 x 38,10	4.125	104,80	3.625	92,10	SF1	SF4	-	TR-64-24	-	2-6
4 x 2	101,60 x 50,80	4.125	104,80	3.875	98,40	SF1	SF4	-	TR-64-32	-	2-6
4 x 2 1/2	101,60 x 63,50	4.125	104,80	3.875	98,40	SF1	SF4	-	TR-64-40	-	2-6
4 x 3	101,60 x 76,20	4.125	104,80	3.875	98,40	SF1	SF4	-	TR-64-48	-	2-6
6 x 1/2	152,40 x 12,70	5.625	142,90	4.625	117,48	SF1	SF4	-	TR-96-08	-	2-6
6 x 3/4	152,40 x 19,05	5.625	142,90	4.625	117,48	SF1	SF4	-	TR-96-12	-	2-6
6 x 1	152,40 x 25,40	5.625	142,90	4.625	117,48	SF1	SF4	-	TR-96-16	-	2-6
6 x 1 1/2	152,40 x 38,10	5.625	142,90	4.625	117,48	SF1	SF4	-	TR-96-24	-	2-6
6 x 2	152,40 x 50,80	5.625	142,90	4.625	117,48	SF1	SF4	-	TR-96-32	-	2-6
6 x 2 1/2	152,40 x 63,50	5.625	142,90	4.625	117,48	SF1	SF4	-	TR-96-40	-	2-6
6 x 3	152,40 x 76,20	5.625	142,90	4.875	123,80	SF1	SF4	-	TR-96-48	-	2-6
6 x 4	152,40 x 101,60	5.625	142,90	5.125	130,20	SF1	SF4	-	TR-96-64	-	2-6

Blue marked = Stock item  
Further dimensions and materials on request. Subject to alteration.



**DT-4.1.2-7**  
Hygienic Clamp Joint: Reducing Tee



ASME BPE / DT-4.1.2-7

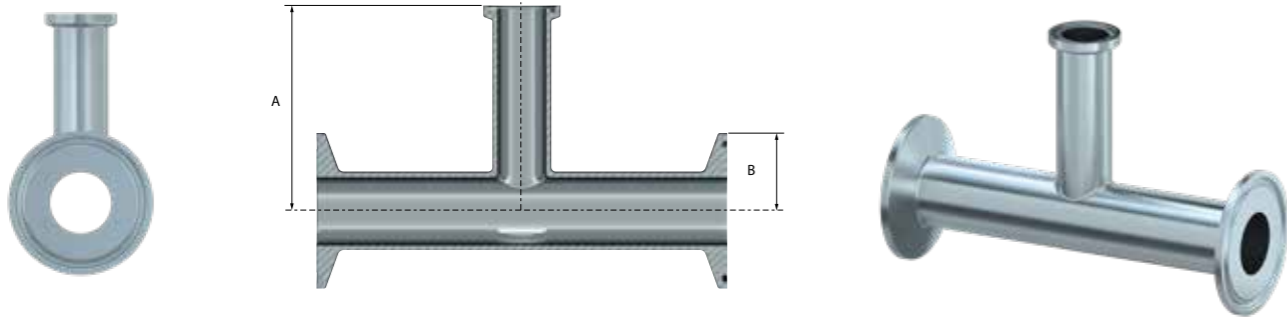
Size		A		B		ASME BPE SF1	ASME BPE SF4	Ref. According to ASME BPE			
Inch	mm	Inch	mm	Inch	mm	316L	Code	DT			
3/8 x 1/4	9,53 x 6,35	1.750	44,50	1.000	25,40	SF1	SF4	-	TR-06-04	-	2-7
1/2 x 1/4	12,70 x 6,35	1.875	47,60	1.000	25,40	SF1	SF4	-	TR-08-04	-	2-7
1/2 x 3/8	12,70 x 9,53	1.875	47,60	1.000	25,40	SF1	SF4	-	TR-08-06	-	2-7
3/4 x 1/4	19,05 x 6,35	2.000	50,80	1.000	25,40	SF1	SF4	-	TR-12-04	-	2-7
3/4 x 3/8	19,05 x 9,53	2.000	50,80	1.000	25,40	SF1	SF4	-	TR-12-06	-	2-7
3/4 x 1/2	19,05 x 12,70	2.000	50,80	1.000	25,40	SF1	SF4	-	TR-12-08	-	2-7
1 x 1/4	25,40 x 6,35	2.125	54,00	1.125	28,60	SF1	SF4	-	TR-16-04	-	2-7
1 x 3/8	25,40 x 9,53	2.125	54,00	1.125	28,60	SF1	SF4	-	TR-16-06	-	2-7
1 x 1/2	25,40 x 12,70	2.125	54,00	1.125	28,60	SF1	SF4	-	TR-16-08	-	2-7
1 x 3/4	25,40 x 19,05	2.125	54,00	1.125	28,60	SF1	SF4	-	TR-16-12	-	2-7
1 1/2 x 1/2	38,10 x 12,70	2.375	60,30	1.375	34,90	SF1	SF4	-	TR-24-08	-	2-7
1 1/2 x 3/4	38,10 x 19,05	2.375	60,30	1.375	34,90	SF1	SF4	-	TR-24-12	-	2-7
1 1/2 x 1	38,10 x 25,40	2.375	60,30	1.375	34,90	SF1	SF4	-	TR-24-16	-	2-7
2 x 1/2	50,80 x 12,70	2.875	73,00	1.625	41,30	SF1	SF4	-	TR-32-08	-	2-7
2 x 3/4	50,80 x 19,05	2.875	73,00	1.625	41,30	SF1	SF4	-	TR-32-12	-	2-7
2 x 1	50,80 x 25,40	2.875	73,00	1.625	41,30	SF1	SF4	-	TR-32-16	-	2-7
2 x 1 1/2	50,80 x 38,10	2.875	73,00	1.625	41,30	SF1	SF4	-	TR-32-24	-	2-7

Blue marked = Stock item  
Further dimensions and materials on request. Subject to alteration.

Size		A		B		ASME BPE SF1	ASME BPE SF4	Ref. According to ASME BPE			
Inch	mm	Inch	mm	Inch	mm	316L	Code	DT			
2 1/2 x 1/2	63,50 x 12,70	3.125	79,40	1.875	47,60	SF1	SF4	-	TR-40-08	-	2-7
2 1/2 x 3/4	63,50 x 19,05	3.125	79,40	1.875	47,60	SF1	SF4	-	TR-40-12	-	2-7
2 1/2 x 1	63,50 x 25,40	3.125	79,40	1.875	47,60	SF1	SF4	-	TR-40-16	-	2-7
2 1/2 x 1 1/2	63,50 x 38,10	3.125	79,40	1.875	47,60	SF1	SF4	-	TR-40-24	-	2-7
2 1/2 x 2	63,50 x 50,80	3.125	79,40	1.875	47,60	SF1	SF4	-	TR-40-32	-	2-7
3 x 1/2	76,20 x 12,70	3.375	85,70	2.125	54,00	SF1	SF4	-	TR-48-08	-	2-7
3 x 3/4	76,20 x 19,05	3.375	85,70	2.125	54,00	SF1	SF4	-	TR-48-12	-	2-7
3 x 1	76,20 x 25,40	3.375	85,70	2.125	54,00	SF1	SF4	-	TR-48-16	-	2-7
3 x 1 1/2	76,20 x 38,10	3.375	85,70	2.125	54,00	SF1	SF4	-	TR-48-24	-	2-7
3 x 2	76,20 x 50,80	3.375	85,70	2.125	54,00	SF1	SF4	-	TR-48-32	-	2-7
3 x 2 1/2	76,20 x 63,50	3.375	85,70	2.125	54,00	SF1	SF4	-	TR-48-40	-	2-7
4 x 1/2	101,60 x 12,70	4.125	104,80	2.625	66,70	SF1	SF4	-	TR-64-08	-	2-7
4 x 3/4	101,60 x 19,05	4.125	104,80	2.625	66,70	SF1	SF4	-	TR-64-12	-	2-7
4 x 1	101,60 x 25,40	4.125	104,80	2.625	66,70	SF1	SF4	-	TR-64-16	-	2-7
4 x 1 1/2	101,60 x 38,10	4.125	104,80	2.625	66,70	SF1	SF4	-	TR-64-24	-	2-7
4 x 2	101,60 x 50,80	4.125	104,80	2.625	66,70	SF1	SF4	-	TR-64-32	-	2-7
4 x 2 1/2	101,60 x 63,50	4.125	104,80	2.625	66,70	SF1	SF4	-	TR-64-40	-	2-7
4 x 3	101,60 x 76,20	4.125	104,80	2.625	66,70	SF1	SF4	-	TR-64-48	-	2-7
6 x 1/2	152,40 x 12,70	5.625	142,90	3.625	92,10	SF1	SF4	-	TR-96-08	-	2-7
6 x 3/4	152,40 x 19,05	5.625	142,90	3.625	92,10	SF1	SF4	-	TR-96-12	-	2-7
6 x 1	152,40 x 25,40	5.625	142,90	3.625	92,10	SF1	SF4	-	TR-96-16	-	2-7
6 x 1 1/2	152,40 x 38,10	5.625	142,90	3.625	92,10	SF1	SF4	-	TR-96-24	-	2-7
6 x 2	152,40 x 50,80	5.625	142,90	3.625	92,10	SF1	SF4	-	TR-96-32	-	2-7
6 x 2 1/2	152,40 x 63,50	5.625	142,90	3.625	92,10	SF1	SF4	-	TR-96-40	-	2-7
6 x 3	152,40 x 76,20	5.625	142,90	3.625	92,10	SF1	SF4	-	TR-96-48	-	2-7
6 x 4	152,40 x 101,60	5.625	142,90	3.750	95,30	SF1	SF4	-	TR-96-64	-	2-7

Blue marked = Stock item  
Further dimensions and materials on request. Subject to alteration.

**DT-4.1.2-8**  
Hygienic Clamp Joint: Reducing Tee



ASME BPE / DT-4.1.2-8

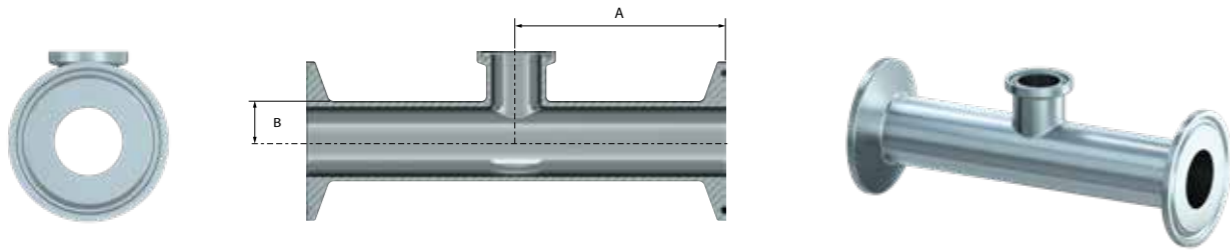
Size		A		B		ASME BPE SF1	ASME BPE SF4	Ref. According to ASME BPE			
Inch	mm	Inch	mm	Inch	mm	316L	Code	DT			
3/8 x 1/4	9,53 x 6,35	2.250	57,20	2.250	57,20	SF1	SF4	-	TR-06-04	-	2-8
1/2 x 1/4	12,70 x 6,35	2.375	60,30	2.375	60,30	SF1	SF4	-	TR-08-04	-	2-8
1/2 x 3/8	12,70 x 9,53	2.375	60,30	2.375	60,30	SF1	SF4	-	TR-08-06	-	2-8
3/4 x 1/4	19,05 x 6,35	2.500	63,50	2.500	63,50	SF1	SF4	-	TR-12-04	-	2-8
3/4 x 3/8	19,05 x 9,53	2.500	63,50	2.500	63,50	SF1	SF4	-	TR-12-06	-	2-8
3/4 x 1/2	19,05 x 12,70	2.500	63,50	2.500	63,50	SF1	SF4	-	TR-12-08	-	2-8
1 x 1/4	25,40 x 6,35	2.625	66,70	2.625	66,70	SF1	SF4	-	TR-16-04	-	2-8
1 x 3/8	25,40 x 9,53	2.625	66,70	2.625	66,70	SF1	SF4	-	TR-16-06	-	2-8
1 x 1/2	25,40 x 12,70	2.625	66,70	2.625	66,70	SF1	SF4	-	TR-16-08	-	2-8
1 x 3/4	25,40 x 19,05	2.625	66,70	2.625	66,70	SF1	SF4	-	TR-16-12	-	2-8
1 1/2 x 1/2	38,10 x 12,70	2.875	73,00	2.875	73,00	SF1	SF4	-	TR-24-08	-	2-8
1 1/2 x 3/4	38,10 x 19,05	2.875	73,00	2.875	73,00	SF1	SF4	-	TR-24-12	-	2-8
1 1/2 x 1	38,10 x 25,40	2.875	73,00	2.875	73,00	SF1	SF4	-	TR-24-16	-	2-8
2 x 1/2	50,80 x 12,70	3.375	85,70	3.125	79,40	SF1	SF4	-	TR-32-08	-	2-8
2 x 3/4	50,80 x 19,05	3.375	85,70	3.125	79,40	SF1	SF4	-	TR-32-12	-	2-8
2 x 1	50,80 x 25,40	3.375	85,70	3.125	79,40	SF1	SF4	-	TR-32-16	-	2-8
2 x 1 1/2	50,80 x 38,10	3.375	85,70	3.125	79,40	SF1	SF4	-	TR-32-24	-	2-8

Blue marked = Stock item  
Further dimensions and materials on request. Subject to alteration.

Size		A		B		ASME BPE SF1	ASME BPE SF4	Ref. According to ASME BPE			
Inch	mm	Inch	mm	Inch	mm	316L	Code	DT			
2 1/2 x 1/2	63,50 x 12,70	3.625	92,10	3.375	85,70	SF1	SF4	-	TR-40-08	-	2-8
2 1/2 x 3/4	63,50 x 19,05	3.625	92,10	3.375	85,70	SF1	SF4	-	TR-40-12	-	2-8
2 1/2 x 1	63,50 x 25,40	3.625	92,10	3.375	85,70	SF1	SF4	-	TR-40-16	-	2-8
2 1/2 x 1 1/2	63,50 x 38,10	3.625	92,10	3.375	85,70	SF1	SF4	-	TR-40-24	-	2-8
2 1/2 x 2	63,50 x 50,80	3.625	92,10	3.375	85,70	SF1	SF4	-	TR-40-32	-	2-8
3 x 1/2	76,20 x 12,70	3.875	98,40	3.625	92,10	SF1	SF4	-	TR-48-08	-	2-8
3 x 3/4	76,20 x 19,05	3.875	98,40	3.625	92,10	SF1	SF4	-	TR-48-12	-	2-8
3 x 1	76,20 x 25,40	3.875	98,40	3.625	92,10	SF1	SF4	-	TR-48-16	-	2-8
3 x 1 1/2	76,20 x 38,10	3.875	98,40	3.625	92,10	SF1	SF4	-	TR-48-24	-	2-8
3 x 2	76,20 x 50,80	3.875	98,40	3.625	92,10	SF1	SF4	-	TR-48-32	-	2-8
3 x 2 1/2	76,20 x 63,50	3.875	98,40	3.625	92,10	SF1	SF4	-	TR-48-40	-	2-8
4 x 1/2	101,60 x 12,70	4.750	120,70	4.125	104,80	SF1	SF4	-	TR-64-08	-	2-8
4 x 3/4	101,60 x 19,05	4.750	120,70	4.125	104,80	SF1	SF4	-	TR-64-12	-	2-8
4 x 1	101,60 x 25,40	4.750	120,70	4.125	104,80	SF1	SF4	-	TR-64-16	-	2-8
4 x 1 1/2	101,60 x 38,10	4.750	120,70	4.125	104,80	SF1	SF4	-	TR-64-24	-	2-8
4 x 2	101,60 x 50,80	4.750	120,70	4.375	111,10	SF1	SF4	-	TR-64-32	-	2-8
4 x 2 1/2	101,60 x 63,50	4.750	120,70	4.375	111,10	SF1	SF4	-	TR-64-40	-	2-8
4 x 3	101,60 x 76,20	4.750	120,70	4.375	111,10	SF1	SF4	-	TR-64-48	-	2-8
6 x 1/2	152,40 x 12,70	7.125	180,98	5.125	130,18	SF1	SF4	-	TR-96-08	-	2-8
6 x 3/4	152,40 x 19,05	7.125	180,98	5.125	130,18	SF1	SF4	-	TR-96-12	-	2-8
6 x 1	152,40 x 25,40	7.125	180,98	5.125	130,18	SF1	SF4	-	TR-96-16	-	2-8
6 x 1 1/2	152,40 x 38,10	7.125	180,98	5.125	130,18	SF1	SF4	-	TR-96-24	-	2-8
6 x 2	152,40 x 50,80	7.125	180,98	5.125	130,18	SF1	SF4	-	TR-96-32	-	2-8
6 x 2 1/2	152,40 x 63,50	7.125	180,98	5.125	130,18	SF1	SF4	-	TR-96-40	-	2-8
6 x 3	152,40 x 76,20	7.125	181,00	5.375	136,50	SF1	SF4	-	TR-96-48	-	2-8
6 x 4	152,40 x 101,60	7.125	181,00	5.750	146,10	SF1	SF4	-	TR-96-64	-	2-8

Blue marked = Stock item  
Further dimensions and materials on request. Subject to alteration.

**DT-4.1.2-9**  
Hygienic Clamp Joint: Short Outlet Reducing Tee



ASME BPE / DT-4.1.2-9

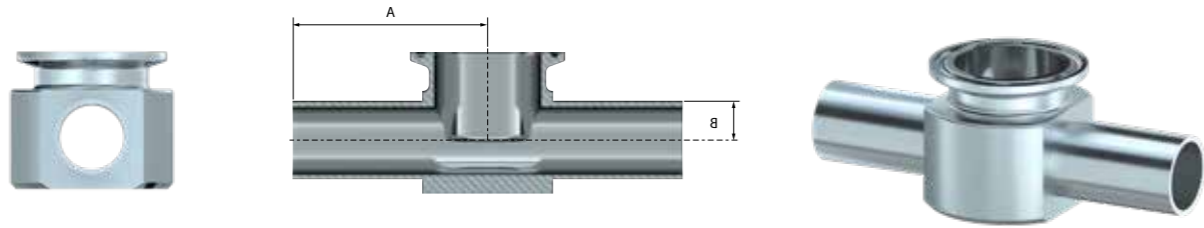
Size		A		B		ASME BPE SF1	ASME BPE SF4	Ref. According to ASME BPE			
Inch	mm	Inch	mm	Inch	mm	316L	Code	DT			
3/8 x 1/4	9,53 x 6,35	2.250	57,20	1.000	25,40	SF1	SF4 -	TR-06-04 -	2-9		
1/2 x 1/4	12,70 x 6,35	2.375	60,30	1.000	25,40	SF1	SF4 -	TR-08-04 -	2-9		
1/2 x 3/8	12,70 x 9,53	2.375	60,30	1.000	25,40	SF1	SF4 -	TR-08-06 -	2-9		
3/4 x 1/4	19,05 x 6,35	2.500	63,50	1.000	25,40	SF1	SF4 -	TR-12-04 -	2-9		
3/4 x 3/8	19,05 x 9,53	2.500	63,50	1.000	25,40	SF1	SF4 -	TR-12-06 -	2-9		
3/4 x 1/2	19,05 x 12,70	2.500	63,50	1.000	25,40	SF1	SF4 -	TR-12-08 -	2-9		
1 x 1/4	25,40 x 6,35	2.625	66,70	1.125	28,60	SF1	SF4 -	TR-16-04 -	2-9		
1 x 3/8	25,40 x 9,53	2.625	66,70	1.125	28,60	SF1	SF4 -	TR-16-06 -	2-9		
1 x 1/2	25,40 x 12,70	2.625	66,70	1.125	28,60	SF1	SF4 -	TR-16-08 -	2-9		
1 x 3/4	25,40 x 19,05	2.625	66,70	1.125	28,60	SF1	SF4 -	TR-16-12 -	2-9		
1 1/2 x 1/2	38,10 x 12,70	2.875	73,00	1.375	34,90	SF1	SF4 -	TR-24-08 -	2-9		
1 1/2 x 3/4	38,10 x 19,05	2.875	73,00	1.375	34,90	SF1	SF4 -	TR-24-12 -	2-9		
1 1/2 x 1	38,10 x 25,40	2.875	73,00	1.375	34,90	SF1	SF4 -	TR-24-16 -	2-9		
2 x 1/2	50,80 x 12,70	3.375	85,70	1.625	41,30	SF1	SF4 -	TR-32-08 -	2-9		
2 x 3/4	50,80 x 19,05	3.375	85,70	1.625	41,30	SF1	SF4 -	TR-32-12 -	2-9		
2 x 1	50,80 x 25,40	3.375	85,70	1.625	41,30	SF1	SF4 -	TR-32-16 -	2-9		
2 x 1 1/2	50,80 x 38,10	3.375	85,70	1.625	41,30	SF1	SF4 -	TR-32-24 -	2-9		

Blue marked = Stock item  
Further dimensions and materials on request. Subject to alteration.

Size		A		B		ASME BPE SF1	ASME BPE SF4	Ref. According to ASME BPE			
Inch	mm	Inch	mm	Inch	mm	316L	Code	DT			
2 1/2 x 1/2	63,50 x 12,70	3.625	92,10	1.875	47,60	SF1	SF4 -	TR-40-08 -	2-9		
2 1/2 x 3/4	63,50 x 19,05	3.625	92,10	1.875	47,60	SF1	SF4 -	TR-40-12 -	2-9		
2 1/2 x 1	63,50 x 25,40	3.625	92,10	1.875	47,60	SF1	SF4 -	TR-40-16 -	2-9		
2 1/2 x 1 1/2	63,50 x 38,10	3.625	92,10	1.875	47,60	SF1	SF4 -	TR-40-24 -	2-9		
2 1/2 x 2	63,50 x 50,80	3.625	92,10	1.875	47,60	SF1	SF4 -	TR-40-32 -	2-9		
3 x 1/2	76,20 x 12,70	3.875	98,40	2.125	54,00	SF1	SF4 -	TR-48-08 -	2-9		
3 x 3/4	76,20 x 19,05	3.875	98,40	2.125	54,00	SF1	SF4 -	TR-48-12 -	2-9		
3 x 1	76,20 x 25,40	3.875	98,40	2.125	54,00	SF1	SF4 -	TR-48-16 -	2-9		
3 x 1 1/2	76,20 x 38,10	3.875	98,40	2.125	54,00	SF1	SF4 -	TR-48-24 -	2-9		
3 x 2	76,20 x 50,80	3.875	98,40	2.125	54,00	SF1	SF4 -	TR-48-32 -	2-9		
3 x 2 1/2	76,20 x 63,50	3.875	98,40	2.125	54,00	SF1	SF4 -	TR-48-40 -	2-9		
4 x 1/2	101,60 x 12,70	4.750	120,70	2.625	66,70	SF1	SF4 -	TR-64-08 -	2-9		
4 x 3/4	101,60 x 19,05	4.750	120,70	2.625	66,70	SF1	SF4 -	TR-64-12 -	2-9		
4 x 1	101,60 x 25,40	4.750	120,70	2.625	66,70	SF1	SF4 -	TR-64-16 -	2-9		
4 x 1 1/2	101,60 x 38,10	4.750	120,70	2.625	66,70	SF1	SF4 -	TR-64-24 -	2-9		
4 x 2	101,60 x 50,80	4.750	120,70	2.625	66,70	SF1	SF4 -	TR-64-32 -	2-9		
4 x 2 1/2	101,60 x 63,50	4.750	120,70	2.625	66,70	SF1	SF4 -	TR-64-40 -	2-9		
4 x 3	101,60 x 76,20	4.750	120,70	2.625	66,70	SF1	SF4 -	TR-64-48 -	2-9		
6 x 1/2	152,40 x 12,70	7.125	181,00	3.625	92,10	SF1	SF4 -	TR-96-08 -	2-9		
6 x 3/4	152,40 x 19,05	7.125	181,00	3.625	92,10	SF1	SF4 -	TR-96-12 -	2-9		
6 x 1	152,40 x 25,40	7.125	181,00	3.625	92,10	SF1	SF4 -	TR-96-16 -	2-9		
6 x 1 1/2	152,40 x 38,10	7.125	181,00	3.625	92,10	SF1	SF4 -	TR-96-24 -	2-9		
6 x 2	152,40 x 50,80	7.125	181,00	3.625	92,10	SF1	SF4 -	TR-96-32 -	2-9		
6 x 2 1/2	152,40 x 63,50	7.125	181,00	3.625	92,10	SF1	SF4 -	TR-96-40 -	2-9		
6 x 3	152,40 x 76,20	7.125	181,00	3.625	92,10	SF1	SF4 -	TR-96-48 -	2-9		
6 x 4	152,40 x 101,60	7.125	181,00	3.750	95,30	SF1	SF4 -	TR-96-64 -	2-9		

Blue marked = Stock item  
Further dimensions and materials on request. Subject to alteration.

**DT-4.1.2-10**  
Automatic Tube Weld: Instrument Tee

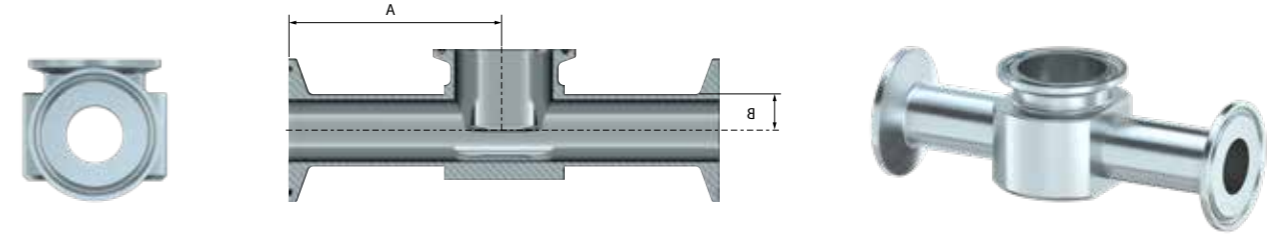


ASME BPE / DT-4.1.2-10

Size		A		B		ASME BPE SF1	ASME BPE SF4	Ref. According to ASME BPE			
Inch	mm	Inch	mm	Inch	mm	316L	Code	DT			
1/2 x 1 1/2	12,70 x 38,10	2.500	63,50	0.875	22,20	SF1	SF4	-	TR-08-24	-	2-10
3/4 x 1 1/2	19,05 x 38,10	2.500	63,50	1.000	25,40	SF1	SF4	-	TR-12-24	-	2-10
1 x 1 1/2	25,40 x 38,10	2.500	63,50	1.125	28,60	SF1	SF4	-	TR-16-24	-	2-10
1/2 x 2	12,70 x 50,80	2.750	69,90	1.000	25,40	SF1	SF4	-	TR-08-32	-	2-10
3/4 x 2	19,05 x 50,80	2.750	69,90	1.125	28,60	SF1	SF4	-	TR-12-32	-	2-10
1 x 2	25,40 x 50,80	2.750	69,90	1.250	31,80	SF1	SF4	-	TR-16-32	-	2-10
1 1/2 x 2	38,10 x 50,80	2.750	69,90	1.500	38,10	SF1	SF4	-	TR-24-32	-	2-10

Blue marked = Stock item  
Further dimensions and materials on request. Subject to alteration.

**DT-4.1.2-11**  
Hygienic Clamp Joint: Instrument Tee

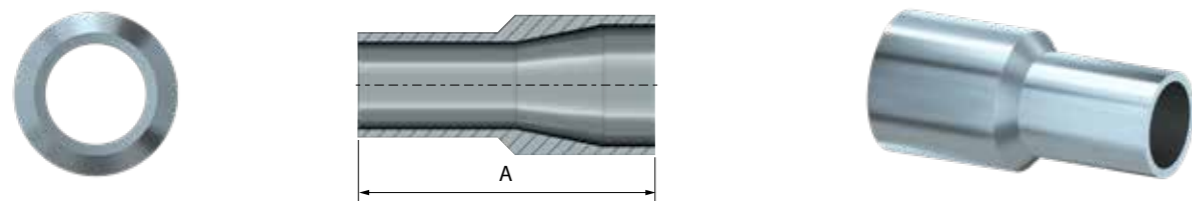


ASME BPE / DT-4.1.2-11

Size		A		B		ASME BPE SF1	ASME BPE SF4	Ref. According to ASME BPE			
Inch	mm	Inch	mm	Inch	mm	316L	Code	DT			
1/2 x 1 1/2	12,70 x 38,10	2.500	63,50	0.875	22,20	SF1	SF4	-	TR-08-24	-	2-11
3/4 x 1 1/2	19,05 x 38,10	2.500	63,50	1.000	25,40	SF1	SF4	-	TR-12-24	-	2-11
1 x 1 1/2	25,40 x 38,10	2.500	63,50	1.125	28,60	SF1	SF4	-	TR-16-24	-	2-11
1/2 x 2	12,70 x 50,80	2.750	69,90	1.000	25,40	SF1	SF4	-	TR-08-32	-	2-11
3/4 x 2	19,05 x 50,80	2.750	69,90	1.125	28,60	SF1	SF4	-	TR-12-32	-	2-11
1 x 2	25,40 x 50,80	2.750	69,90	1.250	31,80	SF1	SF4	-	TR-16-32	-	2-11
1 1/2 x 2	38,10 x 50,80	2.750	69,90	1.500	38,10	SF1	SF4	-	TR-24-32	-	2-11

Blue marked = Stock item  
Further dimensions and materials on request. Subject to alteration.

**DT-4.1.3-1**  
Automatic Tube Weld: Concentric Reducer

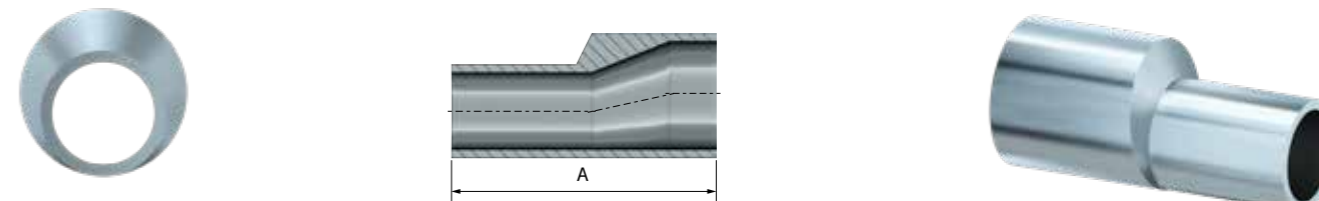


ASME BPE / DT-4.1.3-1

Size				A	ASME BPE SF1	ASME BPE SF4	Ref. According to ASME BPE
Inch	mm	Inch	mm				
3/8 x 1/4	9,53 x 6,35	1.625	41,30				
1/2 x 1/4	12,70 x 6,35	1.875	47,60				
1/2 x 3/8	12,70 x 9,53	1.875	47,60				
3/4 x 3/8	19,05 x 9,53	2.000	50,80				
3/4 x 1/2	19,05 x 12,70	2.125	54,00				
1 x 1/2	25,40 x 12,70	2.500	63,50				
1 x 3/4	25,40 x 19,05	2.125	54,00				
1 1/2 x 3/4	38,10 x 19,05	3.000	76,20				
1 1/2 x 1	38,10 x 25,40	2.500	63,50				
2 x 1	50,80 x 25,40	3.375	85,70				
2 x 1 1/2	50,80 x 38,10	2.500	63,50				
2 1/2 x 1 1/2	63,50 x 38,10	3.375	85,70				
2 1/2 x 2	63,50 x 50,80	2.500	63,50				
3 x 1 1/2	76,20 x 38,10	4.250	108,00				
3 x 2	76,20 x 50,80	3.375	85,70				
3 x 2 1/2	76,20 x 63,50	2.625	66,70				
4 x 2	101,60 x 50,80	5.125	130,20				
4 x 2 1/2	101,60 x 63,50	4.250	108,00				
4 x 3	101,60 x 76,20	3.875	98,40				
6 x 3	152,40 x 76,20	7.250	184,20				
6 x 4	152,40 x 101,60	5.625	142,90				

Blue marked = Stock item  
Further dimensions and materials on request. Subject to alteration.

**DT-4.1.3-1**  
Automatic Tube Weld: Eccentric Reducer

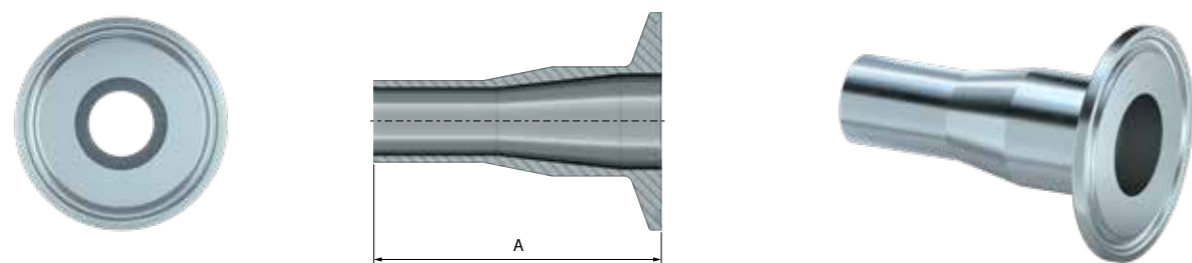


ASME BPE / DT-4.1.3-1

Size				A	ASME BPE SF1	ASME BPE SF4	Ref. According to ASME BPE
Inch	mm	Inch	mm				
3/8 x 1/4	9,53 x 6,35	1.625	41,30				
1/2 x 1/4	12,70 x 6,35	1.875	47,60				
1/2 x 3/8	12,70 x 9,53	1.875	47,60				
3/4 x 3/8	19,05 x 9,53	2.000	50,80				
3/4 x 1/2	19,05 x 12,70	2.125	54,00				
1 x 1/2	25,40 x 12,70	2.500	63,50				
1 x 3/4	25,40 x 19,05	2.125	54,00				
1 1/2 x 3/4	38,10 x 19,05	3.000	76,20				
1 1/2 x 1	38,10 x 25,40	2.500	63,50				
2 x 1	50,80 x 25,40	3.375	85,70				
2 x 1 1/2	50,80 x 38,10	2.500	63,50				
2 1/2 x 1 1/2	63,50 x 38,10	3.375	85,70				
2 1/2 x 2	63,50 x 50,80	2.500	63,50				
3 x 1 1/2	76,20 x 38,10	4.250	108,00				
3 x 2	76,20 x 50,80	3.375	85,70				
3 x 2 1/2	76,20 x 63,50	2.625	66,70				
4 x 2	101,60 x 50,80	5.125	130,20				
4 x 2 1/2	101,60 x 63,50	4.250	108,00				
4 x 3	101,60 x 76,20	3.875	98,40				
6 x 3	152,40 x 76,20	7.250	184,20				
6 x 4	152,40 x 101,60	5.625	142,90				

Blue marked = Stock item  
Further dimensions and materials on request. Subject to alteration.

**DT-4.1.3-2**  
Automatic Tube Weld: Concentric Reducer

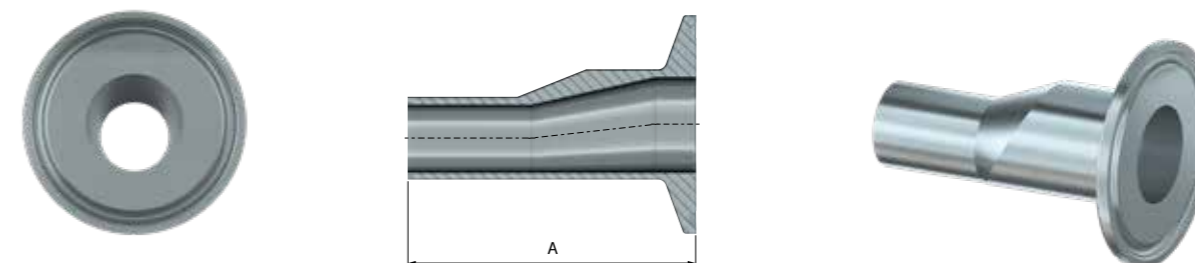


ASME BPE / DT-4.1.3-2

Size				A	ASME BPE SF1	ASME BPE SF4	Ref. According to ASME BPE			
Inch	mm	Inch	mm		316L	Code	DT			
3/8 x 1/4	9,53 x 6,35	2.125	53,98		SF1	SF4 - RC-06-04	- 3-2			
1/2 x 1/4	12,70 x 6,35	2.375	60,33		SF1	SF4 - RC-08-04	- 3-2			
1/2 x 3/8	12,70 x 9,53	2.375	60,33		SF1	SF4 - RC-08-06	- 3-2			
3/4 x 3/8	19,05 x 9,53	2.500	63,50		SF1	SF4 - RC-12-06	- 3-2			
3/4 x 1/2	19,05 x 12,70	2.625	66,68		SF1	SF4 - RC-12-08	- 3-2			
1 x 1/2	25,40 x 12,70	3.000	76,20		SF1	SF4 - RC-16-08	- 3-2			
1 x 3/4	25,40 x 19,05	2.625	66,68		SF1	SF4 - RC-16-12	- 3-2			
1 1/2 x 3/4	38,10 x 19,05	3.500	88,90		SF1	SF4 - RC-24-12	- 3-2			
1 1/2 x 1	38,10 x 25,40	3.000	76,20		SF1	SF4 - RC-24-16	- 3-2			
2 x 1	50,80 x 25,40	3.875	98,43		SF1	SF4 - RC-32-16	- 3-2			
2 x 1 1/2	50,80 x 38,10	3.000	76,20		SF1	SF4 - RC-32-24	- 3-2			
2 1/2 x 1 1/2	63,50 x 38,10	3.875	98,43		SF1	SF4 - RC-40-24	- 3-2			
2 1/2 x 2	63,50 x 50,80	3.000	76,20		SF1	SF4 - RC-40-32	- 3-2			
3 x 1 1/2	76,20 x 38,10	4.750	120,65		SF1	SF4 - RC-48-24	- 3-2			
3 x 2	76,20 x 50,80	3.875	98,43		SF1	SF4 - RC-48-32	- 3-2			
3 x 2 1/2	76,20 x 63,50	3.125	79,38		SF1	SF4 - RC-48-40	- 3-2			
4 x 2	101,60 x 50,80	5.750	146,05		SF1	SF4 - RC-64-32	- 3-2			
4 x 2 1/2	101,60 x 63,50	4.875	123,83		SF1	SF4 - RC-64-40	- 3-2			
4 x 3	101,60 x 76,20	4.500	114,30		SF1	SF4 - RC-64-48	- 3-2			
6 x 3	152,40 x 76,20	8.000	203,20		SF1	SF4 - RC-96-48	- 3-2			
6 x 4	152,40 x 101,60	6.375	161,93		SF1	SF4 - RC-96-64	- 3-2			

Blue marked = Stock item  
Further dimensions and materials on request. Subject to alteration.

**DT-4.1.3-2**  
Automatic Tube Weld: Eccentric Reducer

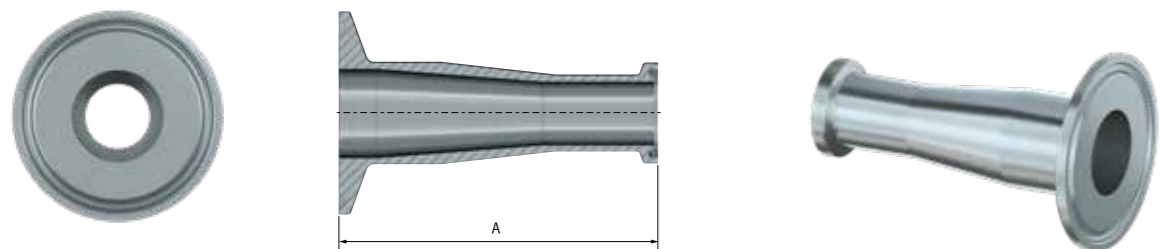


ASME BPE / DT-4.1.3-2

Size				A	ASME BPE SF1	ASME BPE SF4	Ref. According to ASME BPE			
Inch	mm	Inch	mm		316L	Code	DT			
3/8 x 1/4	9,53 x 6,35	2.125	53,98		SF1	SF4 - RE-06-04	- 3-2			
1/2 x 1/4	12,70 x 6,35	2.375	60,33		SF1	SF4 - RE-08-04	- 3-2			
1/2 x 3/8	12,70 x 9,53	2.375	60,33		SF1	SF4 - RE-08-06	- 3-2			
3/4 x 3/8	19,05 x 9,53	2.500	63,50		SF1	SF4 - RE-12-06	- 3-2			
3/4 x 1/2	19,05 x 12,70	2.625	66,68		SF1	SF4 - RE-12-08	- 3-2			
1 x 1/2	25,40 x 12,70	3.000	76,20		SF1	SF4 - RE-16-08	- 3-2			
1 x 3/4	25,40 x 19,05	2.625	66,68		SF1	SF4 - RE-16-12	- 3-2			
1 1/2 x 3/4	38,10 x 19,05	3.500	88,90		SF1	SF4 - RE-24-12	- 3-2			
1 1/2 x 1	38,10 x 25,40	3.000	76,20		SF1	SF4 - RE-24-16	- 3-2			
2 x 1	50,80 x 25,40	3.875	98,43		SF1	SF4 - RE-32-16	- 3-2			
2 x 1 1/2	50,80 x 38,10	3.000	76,20		SF1	SF4 - RE-32-24	- 3-2			
2 1/2 x 1 1/2	63,50 x 38,10	3.875	98,43		SF1	SF4 - RE-40-24	- 3-2			
2 1/2 x 2	63,50 x 50,80	3.000	76,20		SF1	SF4 - RE-40-32	- 3-2			
3 x 1 1/2	76,20 x 38,10	4.750	120,65		SF1	SF4 - RE-48-24	- 3-2			
3 x 2	76,20 x 50,80	3.875	98,43		SF1	SF4 - RE-48-32	- 3-2			
3 x 2 1/2	76,20 x 63,50	3.125	79,38		SF1	SF4 - RE-48-40	- 3-2			
4 x 2	101,60 x 50,80	5.750	146,05		SF1	SF4 - RE-64-32	- 3-2			
4 x 2 1/2	101,60 x 63,50	4.875	123,83		SF1	SF4 - RE-64-40	- 3-2			
4 x 3	101,60 x 76,20	4.500	114,30		SF1	SF4 - RE-64-48	- 3-2			
6 x 3	152,40 x 76,20	8.000	203,20		SF1	SF4 - RE-96-48	- 3-2			
6 x 4	152,40 x 101,60	6.375	161,93		SF1	SF4 - RE-96-64	- 3-2			

Blue marked = Stock item  
Further dimensions and materials on request. Subject to alteration.

**DT-4.1.3-3**  
Hygienic Clamp Joint: Concentric Reducer

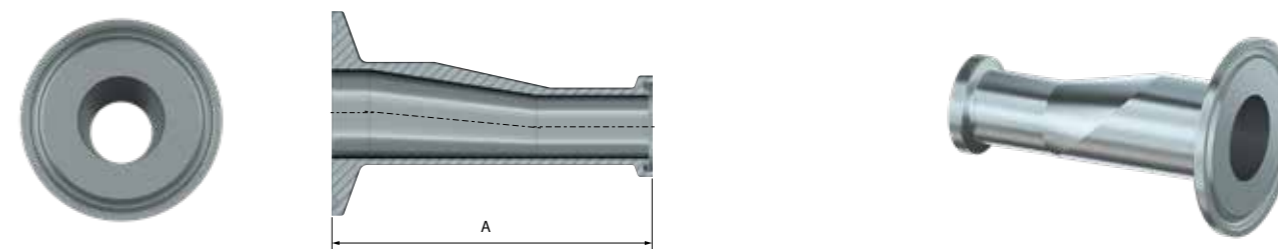


ASME BPE / DT-4.1.3-3

Size				A	ASME BPE SF1	ASME BPE SF4	Ref. According to ASME BPE	
Inch	mm	Inch	mm		316L	Code	DT	
3/8 x 1/4	9,53 x 6,35	2.625	66,68		SF1	SF4 - RC-06-04	- 3-3	
1/2 x 1/4	12,70 x 6,35	2.875	73,03		SF1	SF4 - RC-08-04	- 3-3	
1/2 x 3/8	12,70 x 9,53	2.875	73,03		SF1	SF4 - RC-08-06	- 3-3	
3/4 x 3/8	19,05 x 9,53	3.000	76,20		SF1	SF4 - RC-12-06	- 3-3	
3/4 x 1/2	19,05 x 12,70	3.125	79,38		SF1	SF4 - RC-12-08	- 3-3	
1 x 1/2	25,40 x 12,70	3.500	88,90		SF1	SF4 - RC-16-08	- 3-3	
1 x 3/4	25,40 x 19,05	3.125	79,38		SF1	SF4 - RC-16-12	- 3-3	
1 1/2 x 3/4	38,10 x 19,05	4.000	101,60		SF1	SF4 - RC-24-12	- 3-3	
1 1/2 x 1	38,10 x 25,40	3.500	88,90		SF1	SF4 - RC-24-16	- 3-3	
2 x 1	50,80 x 25,40	4.375	111,13		SF1	SF4 - RC-32-16	- 3-3	
2 x 1 1/2	50,80 x 38,10	3.500	88,90		SF1	SF4 - RC-32-24	- 3-3	
2 1/2 x 1 1/2	63,50 x 38,10	4.375	111,13		SF1	SF4 - RC-40-24	- 3-3	
2 1/2 x 2	63,50 x 50,80	3.500	88,90		SF1	SF4 - RC-40-32	- 3-3	
3 x 1 1/2	76,20 x 38,10	5.250	133,35		SF1	SF4 - RC-48-24	- 3-3	
3 x 2	76,20 x 50,80	4.375	111,13		SF1	SF4 - RC-48-32	- 3-3	
3 x 2 1/2	76,20 x 63,50	3.625	92,08		SF1	SF4 - RC-48-40	- 3-3	
4 x 2	101,60 x 50,80	6.250	158,75		SF1	SF4 - RC-64-32	- 3-3	
4 x 2 1/2	101,60 x 63,50	5.375	136,53		SF1	SF4 - RC-64-40	- 3-3	
4 x 3	101,60 x 76,20	5.000	127,00		SF1	SF4 - RC-64-48	- 3-3	
6 x 3	152,40 x 76,20	8.500	214,90		SF1	SF4 - RC-96-48	- 3-3	
6 x 4	152,40 x 101,60	7.000	177,80		SF1	SF4 - RC-96-64	- 3-3	

Blue marked = Stock item  
Further dimensions and materials on request. Subject to alteration.

**DT-4.1.3-3**  
Hygienic Clamp Joint: Eccentric Reducer

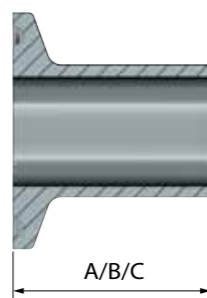


ASME BPE / DT-4.1.3-3

Size				A	ASME BPE SF1	ASME BPE SF4	Ref. According to ASME BPE	
Inch	mm	Inch	mm		316L	Code	DT	
3/8 x 1/4	9,53 x 6,35	2.625	66,68		SF1	SF4 - RE-06-04	- 3-3	
1/2 x 1/4	12,70 x 6,35	2.875	73,03		SF1	SF4 - RE-08-04	- 3-3	
1/2 x 3/8	12,70 x 9,53	2.875	73,03		SF1	SF4 - RE-08-06	- 3-3	
3/4 x 3/8	19,05 x 9,53	3.000	76,20		SF1	SF4 - RE-12-06	- 3-3	
3/4 x 1/2	19,05 x 12,70	3.125	79,38		SF1	SF4 - RE-12-08	- 3-3	
1 x 1/2	25,40 x 12,70	3.500	88,90		SF1	SF4 - RE-16-08	- 3-3	
1 x 3/4	25,40 x 19,05	3.125	79,38		SF1	SF4 - RE-16-12	- 3-3	
1 1/2 x 3/4	38,10 x 19,05	4.000	101,60		SF1	SF4 - RE-24-12	- 3-3	
1 1/2 x 1	38,10 x 25,40	3.500	88,90		SF1	SF4 - RE-24-16	- 3-3	
2 x 1	50,80 x 25,40	4.375	111,13		SF1	SF4 - RE-32-16	- 3-3	
2 x 1 1/2	50,80 x 38,10	3.500	88,90		SF1	SF4 - RE-32-24	- 3-3	
2 1/2 x 1 1/2	63,50 x 38,10	4.375	111,13		SF1	SF4 - RE-40-24	- 3-3	
2 1/2 x 2	63,50 x 50,80	3.500	88,90		SF1	SF4 - RE-40-32	- 3-3	
3 x 1 1/2	76,20 x 38,10	5.250	133,35		SF1	SF4 - RE-48-24	- 3-3	
3 x 2	76,20 x 50,80	4.375	111,13		SF1	SF4 - RE-48-32	- 3-3	
3 x 2 1/2	76,20 x 63,50	3.625	92,08		SF1	SF4 - RE-48-40	- 3-3	
4 x 2	101,60 x 50,80	6.250	158,75		SF1	SF4 - RE-64-32	- 3-3	
4 x 2 1/2	101,60 x 63,50	5.375	136,53		SF1	SF4 - RE-64-40	- 3-3	
4 x 3	101,60 x 76,20	5.000	127,00		SF1	SF4 - RE-64-48	- 3-3	
6 x 3	152,40 x 76,20	8.500	214,90		SF1	SF4 - RE-96-48	- 3-3	
6 x 4	152,40 x 101,60	7.000	177,80		SF1	SF4 - RE-96-64	- 3-3	

Blue marked = Stock item  
Further dimensions and materials on request. Subject to alteration.

**DT-4.1.4-1**  
Automatic Tube Weld: Ferrule



ASME BPE / DT-4.1.4-1 / FERRULE A

Size		A		Clamp Dimensions		ASME BPE SF1	ASME BPE SF4	Ref. According to ASME BPE	
Inch	mm	Inch	mm	Inch	mm	316L	Code	DT	
1/4	6,35	1.750	44,50	0.984	25,00	SF1	SF4	FA-04 - 4-1	
3/8	9,53	1.750	44,50	0.984	25,00	SF1	SF4	FA-06 - 4-1	
1/2	12,70	1.750	44,50	0.984	25,00	SF1	SF4	FA-08 - 4-1	
3/4	19,05	1.750	44,50	0.984	25,00	SF1	SF4	FA-12 - 4-1	
1	25,40	1.750	44,50	1.984	50,50	SF1	SF4	FA-16 - 4-1	
1 1/2	38,10	1.750	44,50	1.984	50,50	SF1	SF4	FA-24 - 4-1	
2	50,80	2.250	57,20	2.516	64,00	SF1	SF4	FA-32 - 4-1	
2 1/2	63,50	2.250	57,20	3.047	77,50	SF1	SF4	FA-40 - 4-1	
3	76,20	2.250	57,20	3.579	91,00	SF1	SF4	FA-48 - 4-1	
4	101,60	2.250	57,20	4.682	119,00	SF1	SF4	FA-64 - 4-1	
6	152,40	3.000	76,20	6.570	167,00	SF1	SF4	FA-96 - 4-1	

Blue marked = Stock item  
Further dimensions and materials on request. Subject to alteration.

ASME BPE / DT-4.1.4-1 / FERRULE B

Size		B		Clamp Dimensions		ASME BPE SF1	ASME BPE SF4	Ref. According to ASME BPE	
Inch	mm	Inch	mm	Inch	mm	316L	Code	DT	
1/4	6,35	1.130	28,58	0.984	25,00	SF1	SF4	FB-04 - 4-1	
3/8	9,53	1.130	28,58	0.984	25,00	SF1	SF4	FB-06 - 4-1	
1/2	12,70	1.130	28,58	0.984	25,00	SF1	SF4	FB-08 - 4-1	
3/4	19,05	1.130	28,58	0.984	25,00	SF1	SF4	FB-12 - 4-1	
1	25,40	1.130	28,58	1.984	50,50	SF1	SF4	FB-16 - 4-1	
1 1/2	38,10	1.130	28,58	1.984	50,50	SF1	SF4	FB-24 - 4-1	
2	50,80	1.130	28,58	2.516	64,00	SF1	SF4	FB-32 - 4-1	
2 1/2	63,50	1.130	28,58	3.047	77,50	SF1	SF4	FB-40 - 4-1	
3	76,20	1.130	28,58	3.579	91,00	SF1	SF4	FB-48 - 4-1	
4	101,60	1.130	28,58	4.682	119,00	SF1	SF4	FB-64 - 4-1	
6	152,40	1.500	38,10	6.570	167,00	SF1	SF4	FB-96 - 4-1	

Blue marked = Stock item  
Further dimensions and materials on request. Subject to alteration.

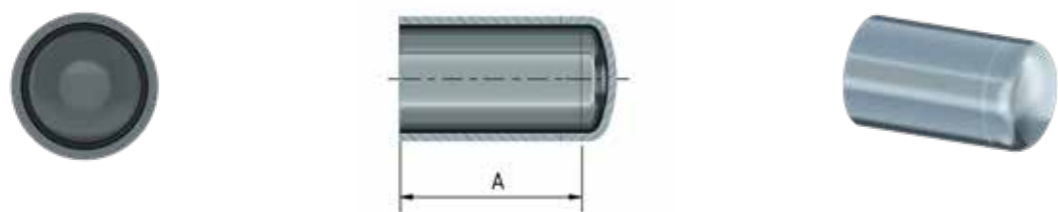
ASME BPE / DT-4.1.4-1 / FERRULE C

Size		C		Clamp Dimensions		ASME BPE SF1	ASME BPE SF4	Ref. According to ASME BPE	
Inch	mm	Inch	mm	Inch	mm	316L	Code	DT	
1/4	6,35	0.500	12,70	0.984	25,00	SF1	SF4	FC-08 - 4-1	
3/8	9,53	0.500	12,70	0.984	25,00	SF1	SF4	FC-06 - 4-1	
1/2	12,70	0.500	12,70	0.984	25,00	SF1	SF4	FC-08 - 4-1	
3/4	19,05	0.500	12,70	0.984	25,00	SF1	SF4	FC-12 - 4-1	
1	25,40	0.500	12,70	1.984	50,50	SF1	SF4	FC-16 - 4-1	
1 1/2	38,10	0.500	12,70	1.984	50,50	SF1	SF4	FC-24 - 4-1	
2	50,80	0.500	12,70	2.516	64,00	SF1	SF4	FC-32 - 4-1	
2 1/2	63,50	0.500	12,70	3.047	77,50	SF1	SF4	FC-40 - 4-1	
3	76,20	0.500	12,70	3.579	91,00	SF1	SF4	FC-48 - 4-1	
4	101,60	0.625	15,90	4.682	119,00	SF1	SF4	FC-64 - 4-1	
6	152,40	0.750	19,05	6.570	167,00	SF1	SF4	FC-96 - 4-1	

Blue marked = Stock item  
Further dimensions and materials on request. Subject to alteration.



**DT-4.1.5-1**  
Automatic Tube Weld: Cap Type A

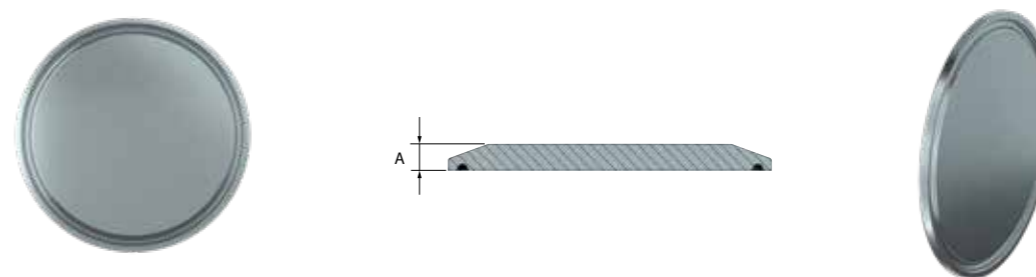


ASME BPE / DT-4.1.5-1 / CAP TYPE A

Size		A		ASME BPE SF1	ASME BPE SF4	Ref. According to ASME BPE
Inch	mm	Inch	mm			
1/2	12,70	1.555	39,50	SF1	SF4 - WC-08	5-1
3/4	19,05	1.555	39,50	SF1	SF4 - WC-12	5-1
1	25,40	1.555	39,50	SF1	SF4 - WC-16	5-1
1 1/2	38,10	1.555	39,50	SF1	SF4 - WC-24	5-1
2	50,80	1.555	39,50	SF1	SF4 - WC-32	5-1
2 1/2	63,50	1.555	39,50	SF1	SF4 - WC-40	5-1
3	76,20	1.811	46,00	SF1	SF4 - WC-48	5-1
4	101,60	2.067	52,50	SF1	SF4 - WC-64	5-1
6	152,40	2.559	65,00	SF1	SF4 - WC-96	5-1

Blue marked = Stock item  
Further dimensions and materials on request. Subject to alteration.

**DT-4.1.5-2**  
Hygienic Clamp Joint: Solid End Cap



ASME BPE / 4.1.5-2 / SOLID END CAP

Size		A		Flange Dimensions		ASME BPE SF1	ASME BPE SF4	Ref. According to ASME BPE
Inch	mm	Inch	mm	Inch	mm			
1/4	6,35	0.187	4,70	0.984	25,00	SF1	SF4 - FTC-04-12	5-2
3/8	9,53	0.187	4,70	0.984	25,00	SF1	SF4 - FTC-04-12	5-2
1/2	12,70	0.187	4,70	0.984	25,00	SF1	SF4 - FTC-04-12	5-2
3/4	19,05	0.187	4,70	0.984	25,00	SF1	SF4 - FTC-04-12	5-2
1	25,40	0.250	6,40	1.984	50,50	SF1	SF4 - FTC-16-24	5-2
1 1/2	38,10	0.250	6,40	1.984	50,50	SF1	SF4 - FTC-16-24	5-2
2	50,80	0.250	6,40	2.516	64,00	SF1	SF4 - FTC-32	5-2
2 1/2	63,50	0.250	6,40	3.047	77,50	SF1	SF4 - FTC-40	5-2
3	76,20	0.250	6,40	3.579	91,00	SF1	SF4 - FTC-48	5-2
4	101,60	0.312	7,90	4.682	119,00	SF1	SF4 - FTC-64	5-2
6	152,40	0.437	11,10	6.570	167,00	SF1	SF4 - FTC-96	5-2

Blue marked = Stock item  
Further dimensions and materials on request. Subject to alteration.

## Clamps

Standard Clamp acc. to ASME BPE



CLAMP / ASME BPE					
Nominal Size		Flange Dimensions		Clamp	Single Pinned Wing Nut
Inch	Inch	mm	Size	Code	
1/4	0.984	25,00	1	CL-SP-WN-1	
3/8	0.984	25,00	1	CL-SP-WN-1	
1/2	0.984	25,00	1	CL-SP-WN-1	
3/4	0.984	25,00	1	CL-SP-WN-1	
1	1.984	50,50	2	CL-SP-WN-2	
1 1/2	1.984	50,50	2	CL-SP-WN-2	
2	2.516	64,00	3	CL-SP-WN-3	
2 1/2	3.047	77,50	4	CL-SP-WN-4	
3	3.579	91,00	5	CL-SP-WN-5	
4	4.682	119,00	7	CL-SP-WN-7	
6	6.570	167,00	9	CL-SP-WN-9	

Blue marked = Stock item  
Further dimensions and materials on request. Subject to alteration.

## Special Clamps / optional

Safety Clamp      Clamp with Hexagon      3-Segment-Clamp      3-Segment-Clamp with Hexagon      High Pressure Clamp



## Gaskets

Materials Overview



### GASKETS / Imperial

Inch	Size mm	Code	PTFE	FKM	FKM/PTFE	EPDM	MVQ	PTFE/316	PTFE/EPDM
1/4	6,35	TC-GK-04-1-	P	F	FP	E	M	P16	PTE
3/8	9,53	TC-GK-06-1-	P	F	FP	E	M	P16	PTE
1/2	12,70	TC-GK-08-1-	P	F	FP	E	M	P16	PTE
3/4	19,05	TC-GK-12-1-	P	F	FP	E	M	P16	PTE
1	25,40	TC-GK-16-2-	P	F	FP	E	M	P16	PTE
1 1/2	38,10	TC-GK-24-2-	P	F	FP	E	M	P16	PTE
2	50,80	TC-GK-32-3-	P	F	FP	E	M	P16	PTE
2 1/2	63,50	TC-GK-40-4-	P	F	FP	E	M	P16	PTE
3	76,20	TC-GK-48-5-	P	F	FP	E	M	P16	PTE
4	101,60	TC-GK-64-7-	P	F	FP	E	M	P16	PTE
6	152,40	TC-GK-96-9-	P	F	FP	E	M	P16	PTE

Blue marked = Stock item  
Further dimensions and materials on request. Subject to alteration.



**Screen Gaskets** provide prefiltration for critical membrane filters, coalescence of water vapour from process exhaust lines, particulate removal before fill and finish and more.

The **Smart Gasket** values are proven when validating sterility in high purity pharmaceutical systems.

The **Controlled Compression** Gaskets cannot be overtightened but controls clamp compression to exactly the correct amount, allowing the properly positioned gasket to make a perfect surface I.D. seal with ferrules.

**Orifice Plates** advance your system's performance, adjust flow rates, balance backflow and equalize back pressure during SIP procedures.

**Gaskets**  
Technical Specifications

All standard sanitary gaskets are moulded from FDA compliant compounds and fulfil USP class VI.

**Total traceability for the complete system**

Dockweiler gaskets are cleaned, dried and permanently marked.  
Mix-ups after removal from the packaging are eliminated.

**Lasermarking information:** DOCKWEILER / DW-No.

Material	PTFE	FKM	FKM / PTFE	EPDM	MVQ	PTFE / 316L	PTFE / EPDM
Material acc. to ISO 1629 / ASTM D1418	<b>Polytetrafluoroethylene</b>	<b>Perfluorinated rubber</b>	<b>PTFE enveloped FKM</b>	<b>Ethylene propylene diene rubber</b>	<b>Platinum cured silicone rubber</b>	<b>Composite of stainless steel 316L and PTFE</b>	<b>PTFE enveloped EPDM</b>
Trade name	Teflon® Dyneon®	Viton® Fluorel®		Buna® Nordel®	Silopren® Silastic®	TufSteel	TufFlex
Diameter*	Flange size ≤ 1" Gasket without Lip, Flange size ≥ 1 1/2": Gasket with Lip			Flange size ≤ 1" Gasket without Lip, Flange size ≥ 1 1/2": Gasket with Lip			
* Not all diameters are available in all materials	Imperial 1/4" – 6"			Imperial 1/4" – 6"			
Temperature variations	-	+	o	+	+	+	+
Continuous steam	+	+	+	+	+	+	+
Non-polar solvents	+	+	+	-	-	+	+
Polar solvents	+	-	+	-	-	+	+
Acid and active oxygen	+	+	+	+	+	+	+
Acid	+	+	+	+	+	+	+
Alkaline	+	+	+	+	-	+	+
Hardness	68 Shore A	82 Shore A	45 Shore A	45 Shore A	65 – 75 Shore A	80 Shore A	70 +/- 5 Shore A
Density	3,45 g/cm³	1,28 g/cm³	1,9 g/cm³	2,1 g/cm³	1,2 g/cm³	1,85 g/cm³	1,25 g/cm³
Compression set	18,5 %	13 %	15 %	10 %	20 %	7 %	5 %
	70 Hour	24 Hour	24 Hour	24 Hour	24 Hour	24 Hour	24 Hour
	200 °C / 392 °F	175 °C / 347 °F	175 °C / 347 °F	150 °C / 302 °F	175 °C / 347 °F	150 °C / 302 °F	175 °C / 347 °F
Temperature range	-15 to 230 °C 5 to 446 °F	-20 to 210 °C -4 to 410 °F	-60 to 180 °C -76 to 356 °F	-40 to 140 °C -40 to 284 °F	-60 to 200 °C -76 to 392 °F	-70 to 260 °C -94 to 500 °F	-70 to 180 °C -94 to 356 °F

+ = highly suitable

o = suitable

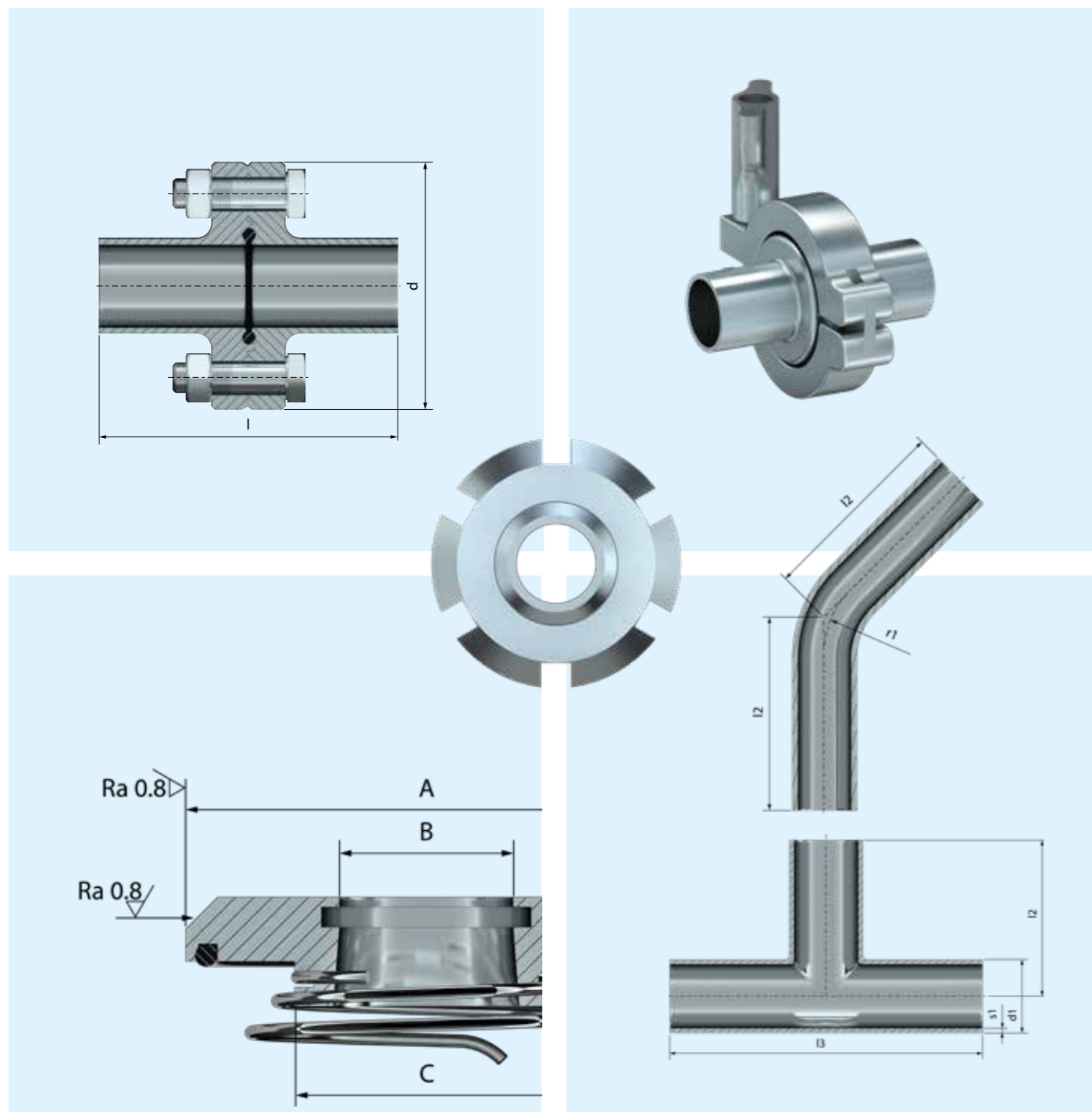
- = not suitable
















+ = highly suitable

o = suitable

- = not suitable

## DIN Tubes, Fittings and Connections



■ <b>weldtron</b>	Specification	<b>56</b>
■ <b>safetron</b>	Specification	<b>58</b>
	<b>Products</b>	<b>Page</b>
	Tube	<b>60</b>
	90° Elbow	<b>62</b>
	45° Elbow	<b>64</b>
	88° Elbow	<b>66</b>
	92° Elbow	<b>67</b>
	T-Pieces Short Branch	<b>68</b>
	T-Pieces	<b>72</b>
	Reducer Concentric	<b>76</b>
	Reducer Eccentric	<b>80</b>
	Ferrules, Clamps, Gaskets and Caps acc. to DIN 32676	<b>84</b>
	Screw Connection acc. to DIN 11864-1	<b>90</b>
	Flange Connection acc. to DIN 11864-2	<b>96</b>
	Clamp Connection acc. to DIN 11864-3	<b>102</b>
	CleanShut - Wall and Ceiling Feedthroughs	<b>108</b>
	Customized Fittings	<b>109</b>

**Specification**  
weldtron

For biotech and the pharma industry  
and for sensitive sectors of cosmetics and food  
industries

**weldtron**

**bf** bright finished  
**ep** electropolished



**1. SURFACE QUALITIES**

Tubes and fittings: Inner surface (bright finished)

<b>weldtron   H3o</b>	<b>Ra<sub>avg.</sub> ≤ 0,80 µm / 32 µin</b>
Surface treatment:	<ul style="list-style-type: none"> <li>- Bright finished (bf) / H3o according to DIN 11866 / 11865 / 11864 / DIN 32676</li> <li>- Ra value for circumferential weld seam of fittings not defined</li> <li>- T-pieces according to DIN 11865, option "u".</li> <li>- Circular weld seams ground with specified Ra value on request</li> <li>- Cleaning and testing methods ASTM A 632, S3</li> </ul>

Tubes and fittings: Inner surface (electropolished)

<b>weldtron   HE3o</b>	<b>Ra<sub>avg.</sub> ≤ 0,60 µm / 24 µin</b>
Surface treatment:	<ul style="list-style-type: none"> <li>- Electropolished (ep) / HE3o according to DIN 11866 / 11865 / 11864 / DIN 32676</li> <li>- Ra value for circumferential weld seam of formed parts not defined</li> <li>- T-pieces according to DIN 11865, option "u".</li> <li>- Circular weld seams ground with specified Ra value on request.</li> <li>- Cleaning and testing procedures according to Spec. doc. 8.4-40/3.2/3.3.2</li> <li>- Oil and grease-free in accordance with CGA G-4.1-2018 and ASTM G93 – level B</li> </ul>

**2. MATERIALS**

Austenitic stainless steel tubes and fittings in:

<b>weldtron</b>	1.4435 / UNS S31603 (316L) acc. to Basler Norm 2 (BN2) 1.4404 / UNS S31603 (316L)
-----------------	--

Hardness equivalent to:	<ul style="list-style-type: none"> <li>- max. 180 HV* according to DIN EN ISO 6507-1</li> <li>- max. 90 HRB* according to DIN EN ISO 6508-1</li> </ul> <p>* comparable to ASTM E-384 (HV) and ASTM E 18-22 (HRB)</p>
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**3. DIMENSIONS**

Imperial:	acc. to ASTM A269 / A270 / A632, ASME BPE and DIN 11866 Serie C	
OD x WT	1/4" to 6" (0.250 x 0.035 inch to 6.000 x 0.109 inch)	6,35 x 0,89 mm to 152,40 x 2,77 mm
ISO:	acc. to DIN EN ISO 1127 and DIN 11866 Serie B	
OD x WT	13,50 x 1,60 mm to 219,10 x 2,60 mm	
Metric:	acc. to DIN 11866 Series A	
OD x WT	6,00 x 1,00 mm to 154,00 x 2,00 mm	

Manufacturing process: Welded or seamless tubes

**4. QUALITY AND TEST PROCEDURES**



Verification of basic test certificate



Visual inspection



Endoscopic inspection of bright finished tubes



Verification of dimensions



Roughness measurements



Delta ferrite measurement 1.4435 BN2 / 316L

**5. TECHNICAL TERMS OF DELIVERY**

Tubes and fittings are prepared for orbital welding:

**Tubes**

Acc. to 11866, ASTM A 269 / A 270, DIN EN 10217-7 / 10216-5 with a length of 5900 - 6090 mm (max. 10% short lengths of min. 3000 mm possible).

For electropolished tubes with outer diameter ≤ 5.00 mm, the length is 2950 ± 50 mm.

**Fittings**

Acc. to DIN 11865, DIN 32676, DIN 11864

**Marking always with**

DOCKWEILER / DW-Number / Dimension / Material / Heat number / Standards and Hygiene Class

Tubes, pipes and fittings shall be permanently marked as per Dockweiler guideline AA 7.5.3-80. The marking must provide all necessary information to trace back the heat number and the material grade.

**6. DOCUMENTATION, PACKAGING AND SHIPPING**

**Documentation**

The documentation result by the Dockweiler Inspection Certificate 3.1 according to DIN EN 10204. Optional online documentation WebCert.

**Packaging**

Bright finished tubes and fittings are sealed with transparent PE caps and individually packaged in PE foil. The batch label on the foil packaging contains the information weldtron.

Electropolished tubes and fittings are sealed with PA/PE squares and yellow PE caps, sleeved and sealed in PE. The batch label on the foil packaging contains the information weldtron ep.

**Shipping**

Delivery in tubular container or wooden crate, fittings in strong cardboard box with shock absorbing filler.

**Specification**  
safetron

For sensitive media in pharma and biotech:  
WFI, serums and parenterals

**safetron**

**bf** bright finished  
**ep** electropolished



**1. SURFACE QUALITIES**

Tubes and fittings: Inner surface (bf)

**safetron | H4o** Ra<sub>avg.</sub> ≤ 0,40 μm / 16 μin

Surface treatment:

- Bright finished (bf) / H4o Hygienic Class according to DIN 11866/11865/11864/DIN 32676
- Ra value for circumferential weld seam of fittings not defined
- T-pieces according to DIN 11865, option "u".
- Circular weld seams ground with specified Ra value on request
- Cleaning and testing methods ASTM A 632, S3
- Weld ends of tubes and fittings are prepared for orbital welding (square cut and faced).

Tubes and fittings: Inner surface (ep)

**safetron | HE5o** Ra<sub>avg.</sub> ≤ 0,25 μm / 10 μin

Surface treatment:

- Electropolished (ep)/HE5o Hygienic Class according to DIN 11866/11865/11864/DIN 32676
- Ra value for circumferential weld seam of formed parts not defined
- T-pieces according to DIN 11865, option "u".
- Circular weld seams ground with specified Ra value on request.
- Cleaning and testing procedures according to Spec. doc. 8.4-40/3.2/3.3.2
- Oil and grease-free in accordance with CGA G-4.1-2018 and ASTM G93 – level B
- Weld ends of tubes and fittings are prepared for orbital welding (square cut and faced).

**2. MATERIALS**

Austenitic stainless steel tubes and fittings in:

**safetron** 1.4435 / UNS S31603 (316L) acc. to Basler Norm 2 (BN2)  
1.4404 / UNS S31603 (316L)

Hardness equivalent to:

- max. 180 HV\* according to DIN EN ISO 6507-1
- max. 90 HRB\* according to DIN EN ISO 6508-1

\* comparable to ASTM E-384 (HV) and ASTM E 18-22 (HRB)

**3. DIMENSIONS**

Imperial acc. to ASTM A269 / A270 / A632, ASME BPE and DIN 11866 Serie C

OD x WT: 1/4" to 6" (0.250 x 0.035 inch to 6.000 x 0.109 inch) 6,35 x 0,89 mm to 152,40 x 2,77 mm

ISO acc. to DIN EN ISO 1127 und DIN 11866 Serie B

OD x WT: 13,50 x 1,60 mm to 219,10 x 2,60 mm

Metric acc. to DIN 11866 Series A

on request

Manufacturing process: Welded or seamless tubes

**4. QUALITY AND TEST PROCEDURES**



Verification of basic test certificate



Visual inspection



Endoscopic inspection of bright finished tubes



Verification of dimensions



Roughness measurements



Delta ferrite measurement 1.4435 BN2 / 316L

**5. TECHNICAL TERMS OF DELIVERY**

Tubes and fittings are prepared for orbital welding:

**Tubes**

According to 11866, ASTM A 269/A 270, DIN EN 10217-7/10216-5 with a length of 5900 - 6090 mm (max. 10% short lengths of min. 3000 mm possible).

For electropolished tubes with outer diameter ≤ 5.00 mm, the length is 2950 ± 50 mm.

**Fittings**

According to DIN 11865, DIN 32676, DIN 11864

**Marking always with**

DOCKWEILER / DW-Number / Dimension / Material / Heat number / Standards and Hygiene Class

Tube and fittings shall be permanently marked as per Dockweiler guideline AA 8.5.2-80. The marking must provide all necessary information to trace back the heat number and the material grade.

**6. DOCUMENTATION, PACKAGING AND SHIPPING**

**Documentation**

The documentation result by the Dockweiler Inspection Certificate 3.1 according to DIN EN 10204. Optional online documentation WebCert.

**Packaging**

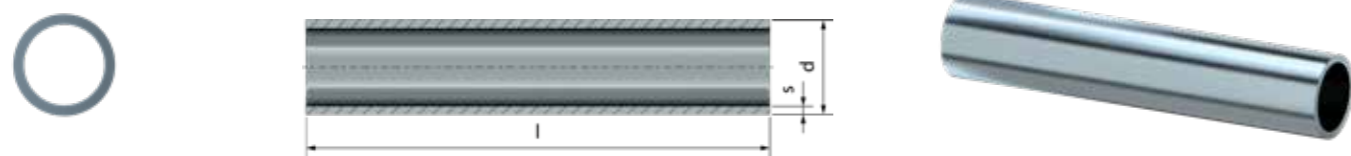
Bright finished tubes and fittings are sealed with transparent PE caps and individually packaged in PE foil. The batch label on the foil packaging contains the information safetron.

Electropolished tubes and fittings are sealed with PA/PE squares and yellow PE caps, sleeved and sealed in PE. The batch label on the foil packaging contains the information safetron ep.

**Shipping**

Delivery in tubular container or wooden crate, fittings in strong cardboard box with shock absorbing filler.

**Tube**



**METRIC / DIN 11866 LINE A**

Size	d x s	Weight	weldtron bf	weldtron ep	1.4435 / 316L	Size	1.4404/316L	Code
DN	mm	kg/m						
4*	6,00 x 1,00	0,13	W	WE	-	04M	W	- 04M-04
6	8,00 x 1,00	0,18	W	WE		06M	W	- 06M-04
8	10,00 x 1,00	0,23	W	WE		08M	W	- 08M-04
10	13,00 x 1,50	0,43	W	WE		10M	W	- 10M-04
15	19,00 x 1,50	0,66	W	WE		15M	W	- 15M-04
20	23,00 x 1,50	0,81	W	WE		20M	W	- 20M-04
25	29,00 x 1,50	1,03	W	WE		25M	W	- 25M-04
32	35,00 x 1,50	1,26	W	WE		32M	W	- 32M-04
40	41,00 x 1,50	1,49	W	WE		40M	W	- 40M-04
50	53,00 x 1,50	1,94	W	WE		50M	W	- 50M-04
65	70,00 x 2,00	3,41	W	WE		65M	W	- 65M-04
80	85,00 x 2,00	4,16	W	WE		80M	W	- 80M-04
100	104,00 x 2,00	5,11	W	WE		100M	W	- 100M-04
150	154,00 x 2,00	7,62	W	WE		150M	W	- 150M-04

Blue marked = Stock item  
Further dimensions and materials on request. Subject to alteration.  
\* Does not apply to DIN 11866

**ISO / DIN 11865 LINE B**

Size	d x s	Weight	weldtron bf	weldtron ep	safetron bf	safetron ep	1.4435 / 316L	Size	1.4404/316L	Code
DN	mm	kg/m								
8	13,50 x 1,60	0,48	W	WE	S	SE	-	08I	W	- 08I-04
10	17,20 x 1,60	0,63	W	WE	S	SE		10I	W	- 10I-04
15	21,30 x 1,60	0,79	W	WE	S	SE		15I	W	- 15I-04
20	26,90 x 1,60	1,01	W	WE	S	SE		20I	W	- 20I-04
25	33,70 x 2,00	1,59	W	WE	S	SE		25I	W	- 25I-04
32	42,40 x 2,00	2,03	W	WE	S	SE		32I	W	- 32I-04
40	48,30 x 2,00	2,32	W	WE	S	SE		40I	W	- 40I-04
50	60,30 x 2,00	2,92	W	WE	S	SE		50I	W	- 50I-04
65	76,10 x 2,00	3,72	W	WE	S	SE		65I	W	- 65I-04
80	88,90 x 2,30	4,99	W	WE	S	SE		80I	W	- 80I-04
100	114,30 x 2,30	6,46	W	WE	S	SE		100I	W	- 100I-04
150	168,30 x 2,60	10,80	W	WE	S	SE		150I	W	- 150I-04
200	219,10 x 2,60	14,11	W	WE	S	SE		200I	W	- 200I-04

Blue marked = Stock item  
Further dimensions and materials on request. Subject to alteration.

**IMPERIAL / DIN 11865 LINE C**

Size	d x s	Weight	weldtron bf	weldtron ep	safetron bf	safetron ep	1.4435 / 316L	Size	1.4404/316L	Code
DN	mm	kg/m								
1/4	6,35 x 0,89	0,12	W	WE	S	SE	-	04	W	- 04-04
3/8	9,53 x 0,89	0,20	W	WE	S	SE		06	W	- 06-04
1/2	12,70 x 1,65	0,46	W	WE	S	SE		08	W	- 08-04
3/4	19,05 x 1,65	0,72	W	WE	S	SE		12	W	- 12-04
1	25,40 x 1,65	0,98	W	WE	S	SE		16	W	- 16-04
1 1/2	38,10 x 1,65	1,51	W	WE	S	SE		24	W	- 24-04
2	50,80 x 1,65	2,03	W	WE	S	SE		32	W	- 32-04
2 1/2	63,50 x 1,65	2,56	W	WE	S	SE		40	W	- 40-04
3	76,20 x 1,65	3,08	W	WE	S	SE		48	W	- 48-04
4	101,60 x 2,11	5,26	W	WE	S	SE		64	W	- 64-04
6	152,40 x 2,77	10,39	W	WE	S	SE		96	W	- 96-04

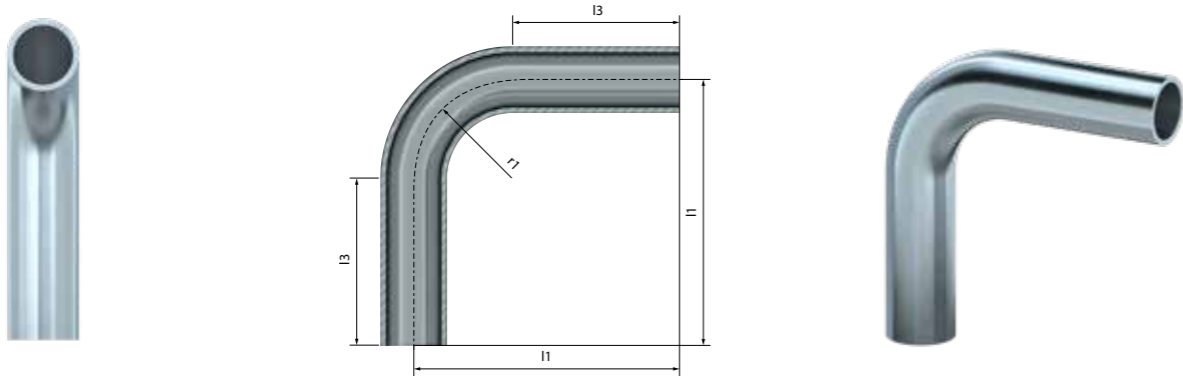
Blue marked = Stock item  
Further dimensions and materials on request. Subject to alteration.

**Instrument Tubings**

Size	Weight	Size	Weight
d x s mm	kg/m	d x s mm	kg/m
0,30 x 0,06	0,0004	5,00 x 1,00	0,1002
0,80 x 0,20	0,0030	6,00 x 0,50	0,0689
1,20 x 0,10	0,0028	6,00 x 1,00	0,1252
1,20 x 0,20	0,0050	6,00 x 1,50	0,1690
1,59 x 0,25	0,0084	6,35 x 0,89	0,1240
1,59 x 0,30	0,0097	7,00 x 0,50	0,0814
1,59 x 0,40	0,0119	8,00 x 0,50	0,0939
1,59 x 0,45	0,0128	8,00 x 1,00	0,1753
1,59 x 0,59	0,0148	8,00 x 1,50	0,2441
2,00 x 0,20	0,0090	9,53 x 0,89	0,1925
2,00 x 0,40	0,0160	9,53 x 1,65	0,3256
2,00 x 0,50	0,0188	10,00 x 0,50	0,1189
3,18 x 0,56	0,0367	10,00 x 1,00	0,2254
3,18 x 0,71	0,0432	12,00 x 0,20	0,0591
4,00 x 0,50	0,0438	12,00 x 2,00	0,5008
4,00 x 1,00	0,0751		

Further dimensions and materials on request. Subject to alteration.  
These dimensions are only a selection of instrumentation and capillary tubes and not all are available from stock.

**Elbows 90°**  
Imperial / ISO / Metric



**METRIC / DIN 11865 LINE A**

Size	d1	s1	l1	l3	r1	weldtron bf	weldtron ep	1.4435 / 316L	Code
DN	mm								
4*	6,00	1,00	40,00	24,00	16,00	W	WE	-	E9-04M
6	8,00	1,00	45,00	25,00	20,00	W	WE	-	E9-06M
8	10,00	1,00	50,00	25,00	25,00	W	WE	-	E9-08M
10	13,00	1,50	51,00	25,00	26,00	W	WE	-	E9-10M
15	19,00	1,50	60,00	25,00	35,00	W	WE	-	E9-15M
20	23,00	1,50	65,00	25,00	40,00	W	WE	-	E9-20M
25	29,00	1,50	90,00	40,00	50,00	W	WE	-	E9-25M
32	35,00	1,50	95,00	40,00	55,00	W	WE	-	E9-32M
40	41,00	1,50	100,00	40,00	60,00	W	WE	-	E9-40M
50	53,00	1,50	110,00	40,00	70,00	W	WE	-	E9-50M
65	70,00	2,00	120,00	40,00	80,00	W	WE	-	E9-65M
80	85,00	2,00	145,00	55,00	90,00	W	WE	-	E9-80M
100	104,00	2,00	155,00	55,00	100,00	W	WE	-	E9-100M
150	154,00	2,00	325,00	100,00	225,00	W	WE	-	E9-150M

Blue marked = Stock item  
Further dimensions and materials on request. Subject to alteration.  
\* Does not apply to DIN 11865

**ISO / DIN 11865 LINE B**

Size	d1	s1	l1	l3	r1	weldtron bf	weldtron ep	safetron bf	safetron ep	1.4435 / 316L	Code
DN	mm										
8	13,50	1,60	45,00	25,00	20,00	W	WE	S	SE	-	E9-08I
10	17,20	1,60	53,00	25,00	28,00	W	WE	S	SE	-	E9-10I
15	21,30	1,60	55,00	25,00	30,00	W	WE	S	SE	-	E9-15I
20	26,90	1,60	68,50	40,00	28,50	W	WE	S	SE	-	E9-20I
25	33,70	2,00	78,00	40,00	38,00	W	WE	S	SE	-	E9-25I
32	42,40	2,00	87,50	40,00	47,50	W	WE	S	SE	-	E9-32I
40	48,30	2,00	97,00	40,00	57,00	W	WE	S	SE	-	E9-40I
50	60,30	2,00	116,00	40,00	76,00	W	WE	S	SE	-	E9-50I
65	76,10	2,00	150,00	55,00	95,00	W	WE	S	SE	-	E9-65I
80	88,90	2,30	169,50	55,00	114,50	W	WE	S	SE	-	E9-80I
100	114,30	2,30	207,50	55,00	152,50	W	WE	S	SE	-	E9-100I

Blue marked = Stock item  
Further dimensions and materials on request. Subject to alteration.

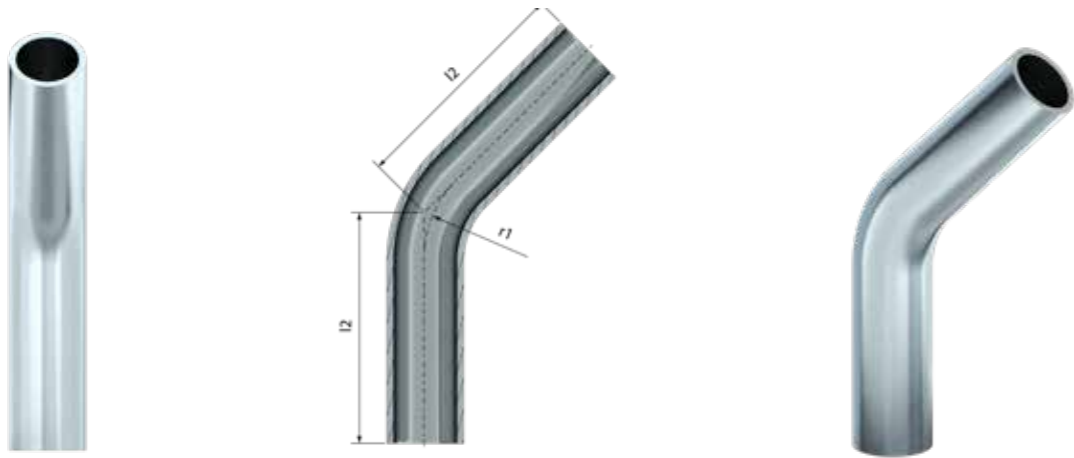
**IMPERIAL / DIN 11865 LINE C**

Size	d1	s1	l1	l3	r1	weldtron bf	weldtron ep	safetron bf	safetron ep	1.4435 / 316L	Code
Inch	mm										
1/4	6,35	0,89	66,68	52,40	14,30	W	WE	S	SE	-	E9-04
3/8	9,53	0,89	66,68	38,10	28,60	W	WE	S	SE	-	E9-06
1/2	12,70	1,65	76,20	47,60	28,60	W	WE	S	SE	-	E9-08
3/4	19,05	1,65	76,20	47,60	28,60	W	WE	S	SE	-	E9-12
1	25,40	1,65	76,20	38,10	38,10	W	WE	S	SE	-	E9-16
1 1/2	38,10	1,65	95,30	38,10	57,20	W	WE	S	SE	-	E9-24
2	50,80	1,65	120,70	44,50	76,20	W	WE	S	SE	-	E9-32
2 1/2	63,50	1,65	139,70	44,40	95,30	W	WE	S	SE	-	E9-40
3	76,20	1,65	158,80	44,50	114,30	W	WE	S	SE	-	E9-48
4	101,60	2,11	203,20	50,80	152,40	W	WE	S	SE	-	E9-64
6	152,40	2,77	292,10	63,50	228,60	W	WE	S	SE	-	E9-96

Blue marked = Stock item  
Further dimensions and materials on request. Subject to alteration.



**Elbows 45°**  
Imperial / ISO / Metric



**METRIC / DIN 11865 LINE A**

Size	d1	s1	l2	r1	weldtron		Code
					bf	ep	
DN	mm				1.4435 / 316L		
4*	6,00	1,00	32,10	16,00	W	WE	E4-04M
6	8,00	1,00	32,10	24,00	W	WE	E4-06M
8	10,00	1,00	33,30	24,00	W	WE	E4-08M
10	13,00	1,50	35,80	26,00	W	WE	E4-10M
15	19,00	1,50	39,50	35,00	W	WE	E4-15M
20	23,00	1,50	41,60	40,00	W	WE	E4-20M
25	29,00	1,50	60,70	50,00	W	WE	E4-25M
32	35,00	1,50	62,80	55,00	W	WE	E4-32M
40	41,00	1,50	64,90	60,00	W	WE	E4-40M
50	53,00	1,50	69,00	70,00	W	WE	E4-50M
65	70,00	2,00	73,10	80,00	W	WE	E4-65M
80	85,00	2,00	92,30	90,00	W	WE	E4-80M
100	104,00	2,00	96,40	100,00	W	WE	E4-100M
150	154,00	2,00	193,20	225,00	W	WE	E4-150M

Blue marked = Stock item  
Further dimensions and materials on request. Subject to alteration.  
\* Does not apply to DIN 11865

**ISO / DIN 11865 LINE B**

Size	d1	s1	l2	r1	weldtron				Code
					bf	ep	safetron bf	safetron ep	
Inch	mm				1.4435 / 316L				
13,50	13,50	1,60	33,30	20,00	W	WE	S	SE	E4-08I
17,20	17,20	1,60	36,60	28,00	W	WE	S	SE	E4-10I
21,30	21,30	1,60	37,40	30,00	W	WE	S	SE	E4-15I
26,90	26,90	1,60	51,80	28,50	W	WE	S	SE	E4-20I
33,70	33,70	2,00	55,70	38,00	W	WE	S	SE	E4-25I
42,40	42,40	2,00	59,70	47,50	W	WE	S	SE	E4-32I
48,30	48,30	2,00	63,60	57,00	W	WE	S	SE	E4-40I
60,30	60,30	2,00	71,50	76,00	W	WE	S	SE	E4-50I
76,10	76,10	2,00	94,40	95,00	W	WE	S	SE	E4-65I
88,90	88,90	2,30	102,40	114,50	W	WE	S	SE	E4-80I
114,30	114,30	2,30	118,20	152,50	W	WE	S	SE	E4-100I
168,30	168,30	2,60	94,70	228,50	W	WE	S	SE	E4-150I

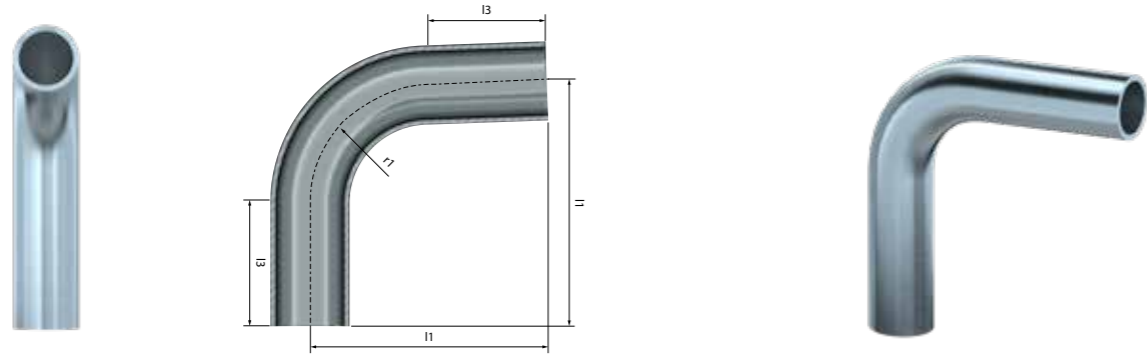
Blue marked = Stock item  
Further dimensions and materials on request. Subject to alteration.

**IMPERIAL / DIN 11865 LINE C**

Size	d1	s1	l2	r1	weldtron				Code
					bf	ep	safetron bf	safetron ep	
Inch	mm				1.4435 / 316L				
1/4	6,35	0,89	50,80	14,30	W	WE	S	SE	E4-04
3/8	9,53	0,89	50,80	28,60	W	WE	S	SE	E4-06
1/2	12,70	1,65	57,20	28,60	W	WE	S	SE	E4-08
3/4	19,05	1,65	57,20	28,60	W	WE	S	SE	E4-12
1	25,40	1,65	57,20	38,10	W	WE	S	SE	E4-16
1 1/2	38,10	1,65	63,50	57,20	W	WE	S	SE	E4-24
2	50,80	1,65	76,20	76,20	W	WE	S	SE	E4-32
2 1/2	63,50	1,65	85,70	95,30	W	WE	S	SE	E4-40
3	76,20	1,65	92,10	114,30	W	WE	S	SE	E4-48
4	101,60	2,11	114,30	152,40	W	WE	S	SE	E4-64
6	152,40	2,77	158,80	228,60	W	WE	S	SE	E4-96

Blue marked = Stock item  
Further dimensions and materials on request. Subject to alteration.

**Elbows 88°**  
ISO

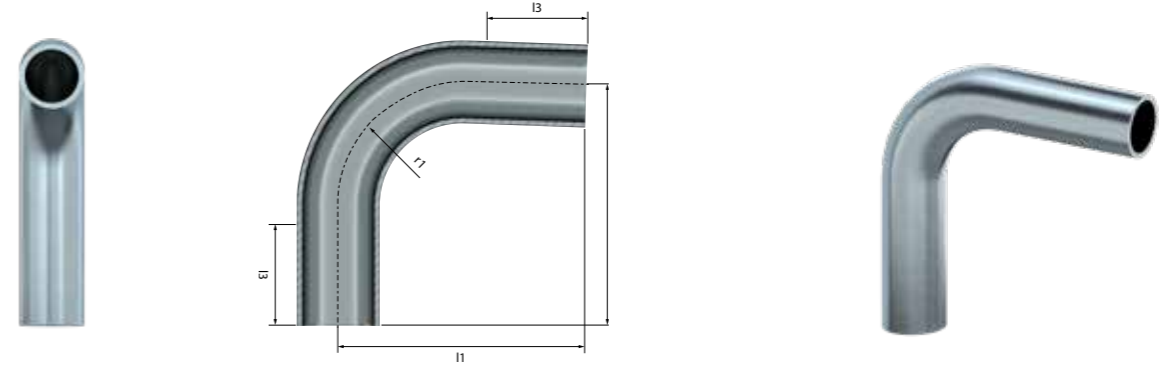


ISO / DIN 11865 LINE B

Size	d1	s1	l1	l3	r1	weldtron bf	weldtron ep	safetron bf	safetron ep	Code
DN	mm					1.4435 / 316L				Code
8	13,50	1,60	45,00	25,00	20,00	W	WE	S	SE	- E8-08I
10	17,20	1,60	53,00	25,00	28,00	W	WE	S	SE	- E8-10I
15	21,30	1,60	55,00	25,00	30,00	W	WE	S	SE	- E8-15I
20	26,90	1,60	68,50	40,00	28,50	W	WE	S	SE	- E8-20I
25	33,70	2,00	78,00	40,00	38,00	W	WE	S	SE	- E8-25I
32	42,40	2,00	87,50	40,00	47,50	W	WE	S	SE	- E8-32I
40	48,30	2,00	97,00	40,00	57,00	W	WE	S	SE	- E8-40I
50	60,30	2,00	116,00	40,00	76,00	W	WE	S	SE	- E8-50I

Blue marked = Stock item  
Further dimensions and materials on request. Subject to alteration.

**Elbows 92°**  
ISO

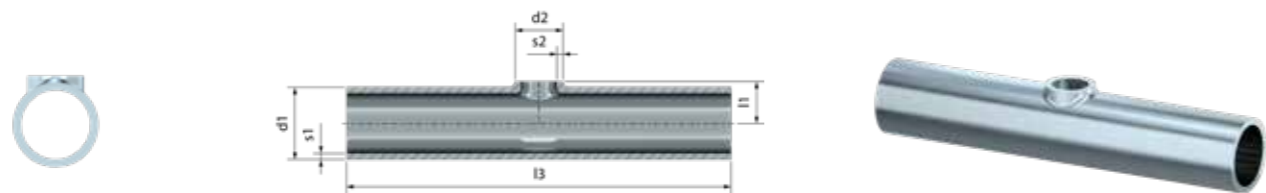


ISO / DIN 11865 LINE B

Size	d1	s1	l1	l3	r1	weldtron bf	weldtron ep	safetron bf	safetron ep	Code
DN	mm					1.4435 / 316L				Code
8	13,50	1,60	45,00	25,00	20,00	W	WE	S	SE	- E2-08I
10	17,20	1,60	53,00	25,00	28,00	W	WE	S	SE	- E2-10I
15	21,30	1,60	55,00	25,00	30,00	W	WE	S	SE	- E2-15I
20	26,90	1,60	68,50	40,00	28,50	W	WE	S	SE	- E2-20I
25	33,70	2,00	78,00	40,00	38,00	W	WE	S	SE	- E2-25I
32	42,40	2,00	87,50	40,00	47,50	W	WE	S	SE	- E2-32I
40	48,30	2,00	97,00	40,00	57,00	W	WE	S	SE	- E2-40I
50	60,30	2,00	116,00	40,00	76,00	W	WE	S	SE	- E2-50I

Blue marked = Stock item  
Further dimensions and materials on request. Subject to alteration.

**T-Pieces Short Branch**  
Equal and Reduced / Imperial



IMPERIAL / DIN 11865 LINE C

Size	d1 x d2	s1	s2	l3	l1	weldtron bf	weldtron ep	safetron bf	safetron ep	Code
Inch	mm	mm				1.4435 / 316L				
1/2 x 1/2	12,70 x 12,70	1,65	1,65	95,20	11,35	W	WE	S	SE	TES-08
3/4 x 1/2	19,05 x 12,70	1,65	1,65	101,60	11,03	W	WE	S	SE	TRS-12-08
3/4 x 3/4	19,05 x 19,05	1,65	1,65	101,60	11,03	W	WE	S	SE	TES-12
1 x 1/2	25,40 x 12,70	1,65	1,65	108,00	14,20	W	WE	S	SE	TRS-16-08
1 x 3/4	25,40 x 19,05	1,65	1,65	108,00	14,20	W	WE	S	SE	TRS-16-12
1 x 1	25,40 x 25,40	1,65	1,65	108,00	14,20	W	WE	S	SE	TES-16
1 1/2 x 3/4	38,10 x 19,05	1,65	1,65	120,60	20,55	W	WE	S	SE	TRS-24-12
1 1/2 x 1	38,10 x 25,40	1,65	1,65	120,60	20,55	W	WE	S	SE	TRS-24-16
1 1/2 x 1 1/2	38,10 x 38,10	1,65	1,65	120,60	21,05	W	WE	S	SE	TES-24
2 x 1	50,80 x 25,40	1,65	1,65	146,00	26,90	W	WE	S	SE	TRS-32-16
2 x 1 1/2	50,80 x 38,10	1,65	1,65	146,00	27,40	W	WE	S	SE	TRS-32-24
2 x 2	50,80 x 50,80	1,65	1,65	146,00	28,90	W	WE	S	SE	TES-32
2 1/2 x 1 1/2	63,50 x 38,10	1,65	1,65	158,80	33,75	W	WE	S	SE	TRS-40-24
2 1/2 x 2	63,50 x 50,80	1,65	1,65	158,80	35,25	W	WE	S	SE	TRS-40-32
2 1/2 x 2 1/2	63,50 x 63,50	1,65	1,65	158,80	35,25	W	WE	S	SE	TES-40
3 x 1	76,20 x 25,40	1,65	1,65	171,50	40,60	W	WE	S	SE	TRS-48-16
3 x 1 1/2	76,20 x 38,10	1,65	1,65	171,50	40,10	W	WE	S	SE	TRS-48-24
3 x 2	76,20 x 50,80	1,65	1,65	171,50	41,60	W	WE	S	SE	TRS-48-32
3 x 2 1/2	76,20 x 63,50	1,65	1,65	171,50	41,60	W	WE	S	SE	TRS-48-40
3 x 3	76,20 x 76,20	1,65	1,65	171,40	43,10	W	WE	S	SE	TES-48
4 x 1 1/2	101,60 x 38,10	2,11	1,65	209,60	53,80	W	WE	S	SE	TRS-64-24
4 x 2	101,60 x 50,80	2,11	1,65	209,60	54,30	W	WE	S	SE	TRS-64-32
4 x 2 1/2	101,60 x 63,50	2,11	1,65	209,60	54,30	W	WE	S	SE	TRS-64-40
4 x 3	101,60 x 76,20	2,11	1,65	209,60	55,80	W	WE	S	SE	TRS-64-48
4 x 4	101,60 x 101,60	2,11	1,65	209,60	56,80	W	WE	S	SE	TES-64

Blue marked = Stock item  
Further dimensions and materials on request. Subject to alteration.

**T-Pieces Short Branch**  
Equal and Reduced / ISO

ISO / DIN 11865 LINE B

Size	d1 x d2	s1	s2	l3	l1	weldtron bf	weldtron ep	safetron bf	safetron ep	Code
Inch	mm	mm				1.4435 / 316L				
8 x 8	13,50 x 13,50	1,60	1,60	64,00	11,75	W	WE	S	SE	TES-08I
10 x 8	17,20 x 13,50	1,60	1,60	68,00	10,10	W	WE	S	SE	TRS-10I-08I
10 x 10	17,20 x 17,20	1,60	1,60	68,00	10,10	W	WE	S	SE	TES-10I
15 x 8	21,30 x 13,50	1,60	1,60	72,00	12,15	W	WE	S	SE	TRS-15I-08I
15 x 10	21,30 x 17,20	1,60	1,60	72,00	12,15	W	WE	S	SE	TRS-15I-10I
15 x 15	21,30 x 21,30	1,60	1,60	72,00	12,15	W	WE	S	SE	TES-15I
20 x 10	26,90 x 17,20	1,60	1,60	110,00	14,95	W	WE	S	SE	TRS-20I-10I
20 x 15	26,90 x 21,30	1,60	1,60	110,00	14,95	W	WE	S	SE	TRS-20I-15I
20 x 20	26,90 x 26,90	1,60	1,60	110,00	14,95	W	WE	S	SE	TES-20I
25 x 15	33,70 x 21,30	2,00	1,60	120,00	18,35	W	WE	S	SE	TRS-25I-15I
25 x 20	33,70 x 26,90	2,00	1,60	120,00	18,35	W	WE	S	SE	TRS-25I-20I
25 x 25	33,70 x 33,70	2,00	2,00	120,00	18,35	W	WE	S	SE	TES-25I
32 x 15	42,40 x 21,30	2,00	1,60	130,00	22,70	W	WE	S	SE	TRS-32I-15I
32 x 20	42,40 x 26,90	2,00	1,60	130,00	22,70	W	WE	S	SE	TRS-32I-20I
32 x 25	42,40 x 33,70	2,00	2,00	130,00	22,70	W	WE	S	SE	TRS-32I-25I
32 x 32	42,40 x 42,40	2,00	2,00	130,00	23,20	W	WE	S	SE	TES-32I
40 x 15	48,30 x 21,30	2,00	1,60	130,00	25,65	W	WE	S	SE	TRS-40I-15I
40 x 20	48,30 x 26,90	2,00	1,60	130,00	25,65	W	WE	S	SE	TRS-40I-20I
40 x 25	48,30 x 33,70	2,00	2,00	130,00	25,65	W	WE	S	SE	TRS-40I-25I
40 x 32	48,30 x 42,40	2,00	2,00	130,00	26,15	W	WE	S	SE	TRS-40I-32I
40 x 40	48,30 x 48,30	2,00	2,00	130,00	26,65	W	WE	S	SE	TES-40I
50 x 20	60,30 x 26,90	2,00	1,60	180,00	32,65	W	WE	S	SE	TRS-50I-20I
50 x 25	60,30 x 33,70	2,00	2,00	180,00	31,65	W	WE	S	SE	TRS-50I-25I
50 x 32	60,30 x 42,40	2,00	2,00	180,00	32,15	W	WE	S	SE	TRS-50I-32I
50 x 40	60,30 x 48,30	2,00	2,00	180,00	32,65	W	WE	S	SE	TRS-50I-40I
50 x 50	60,30 x 60,30	2,00	2,00	180,00	33,65	W	WE	S	SE	TES-50I
65 x 25	76,10 x 33,70	2,00	2,00	220,00	40,55	W	WE	S	SE	TRS-65I-25I
65 x 32	76,10 x 42,40	2,00	2,00	220,00	40,05	W	WE	S	SE	TRS-65I-32I
65 x 40	76,10 x 48,30	2,00	2,00	220,00	40,55	W	WE	S	SE	TRS-65I-40I
65 x 50	76,10 x 60,30	2,00	2,00	220,00	41,55	W	WE	S	SE	TRS-65I-50I
65 x 65	76,10 x 76,10	2,00	2,00	220,00	43,05	W	WE	S	SE	TES-65I
80 x 32	88,90 x 42,40	2,30	2,00	260,00	46,95	W	WE	S	SE	TRS-80I-32I
80 x 40	88,90 x 48,30	2,30	2,00	260,00	46,95	W	WE	S	SE	TRS-80I-40I
80 x 50	88,90 x 60,30	2,30	2,00	260,00	47,95	W	WE	S	SE	TRS-80I-50I
80 x 65	88,90 x 76,10	2,30	2,00	260,00	49,45	W	WE	S	SE	TRS-80I-65I
80 x 80	88,90 x 88,90	2,30	2,30	260,00	49,45	W	WE	S	SE	TES-80I
100 x 50	114,30 x 60,30	2,30	2,00	320,00	60,65	W	WE	S	SE	TRS-100I-50I
100 x 65	114,30 x 76,10	2,30	2,00	320,00	62,15	W	WE	S	SE	TRS-100I-65I
100 x 80	114,30 x 88,90	2,30	2,30	320,00	62,15	W	WE	S	SE	TRS-100I-80I
100 x 100	114,30 x 114,30	2,30	2,30	320,00	63,15	W	WE	S	SE	TES-100I

Blue marked = Stock item  
Further dimensions and materials on request. Subject to alteration.

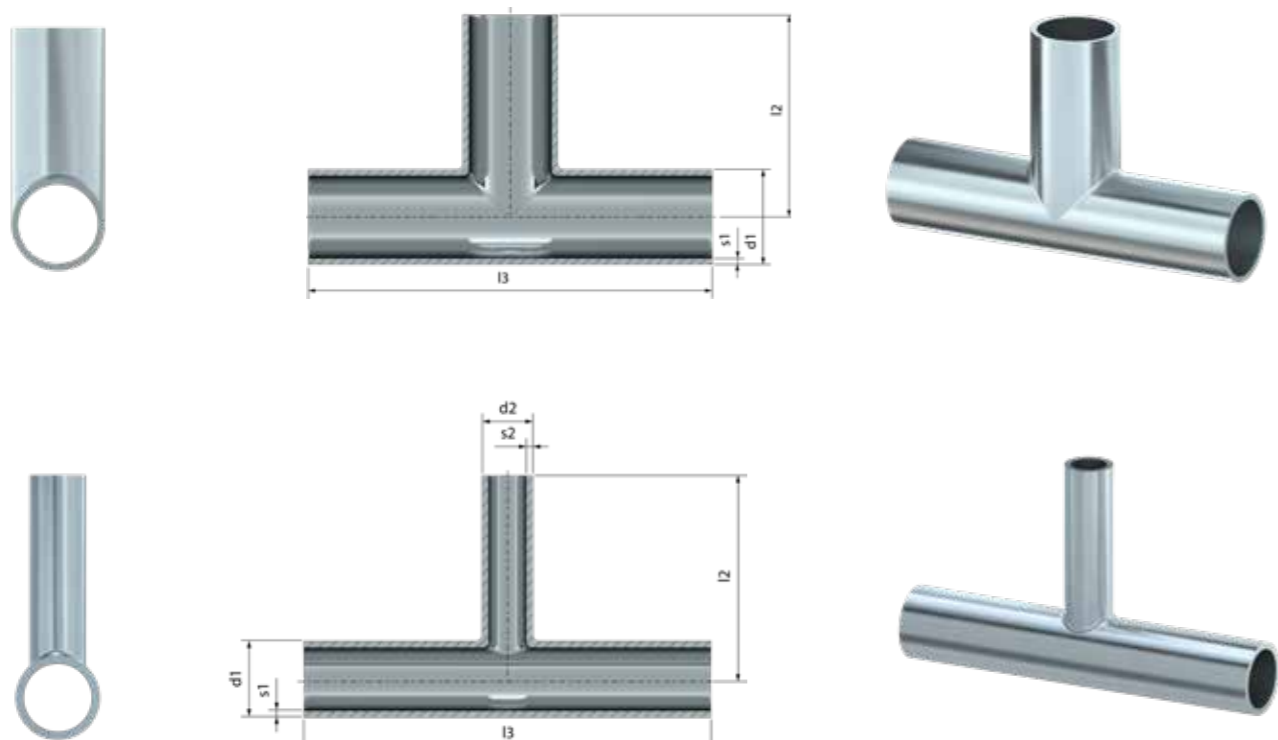
**T-Pieces Short Branch**  
Equal and Reduced / Metric

METRIC / DIN 11865 LINE A

Size	d1 x d 2	s1	s2	l3	l1	weldtron bf	weldtron ep	1.4435 / 316L	
								Code	
Inch	mm	mm	mm	mm	mm				
10 x 10	13,00 x 13,00	1,50	1,50	70,00	11,50	W	WE	-	TES-10M
15 x 10	19,00 x 13,00	1,50	1,50	70,00	11,00	W	WE	-	TRS-15M-10M
15 x 15	19,00 x 19,00	1,50	1,50	70,00	11,00	W	WE	-	TES-15M
20 x 10	23,00 x 13,00	1,50	1,50	80,00	13,00	W	WE	-	TRS-20M-10M
20 x 15	23,00 x 19,00	1,50	1,50	80,00	13,00	W	WE	-	TRS-20M-15M
20 x 20	23,00 x 23,00	1,50	1,50	80,00	13,00	W	WE	-	TES-20M
25 x 10	29,00 x 13,00	1,50	1,50	100,00	16,00	W	WE	-	TRS-25M-10M
25 x 15	29,00 x 19,00	1,50	1,50	100,00	16,00	W	WE	-	TRS-25M-15M
25 x 20	29,00 x 23,00	1,50	1,50	100,00	16,00	W	WE	-	TRS-25M-20M
25 x 25	29,00 x 29,00	1,50	1,50	100,00	16,00	W	WE	-	TES-25M
32 x 15	35,00 x 19,00	1,50	1,50	110,00	19,00	W	WE	-	TRS-32M-15M
32 x 20	35,00 x 23,00	1,50	1,50	110,00	19,00	W	WE	-	TRS-32M-20M
32 x 25	35,00 x 29,00	1,50	1,50	110,00	19,00	W	WE	-	TRS-32M-25M
32 x 32	35,00 x 35,00	1,50	1,50	110,00	19,50	W	WE	-	TES-32M
40 x 20	41,00 x 23,00	1,50	1,50	120,00	22,00	W	WE	-	TRS-40M-20M
40 x 25	41,00 x 29,00	1,50	1,50	120,00	22,00	W	WE	-	TRS-40M-25M
40 x 32	41,00 x 35,00	1,50	1,50	120,00	22,50	W	WE	-	TRS-40M-32M
40 x 40	41,00 x 41,00	1,50	1,50	120,00	23,00	W	WE	-	TES-40M
50 x 25	53,00 x 29,00	1,50	1,50	160,00	28,00	W	WE	-	TRS-50M-25M
50 x 32	53,00 x 35,00	1,50	1,50	160,00	28,50	W	WE	-	TRS-50M-32M
50 x 40	53,00 x 41,00	1,50	1,50	160,00	29,00	W	WE	-	TRS-50M-40M
50 x 50	53,00 x 53,00	1,50	1,50	160,00	30,00	W	WE	-	TES-50M
65 x 32	70,00 x 35,00	2,00	1,50	210,00	37,00	W	WE	-	TRS-65M-32M
65 x 40	70,00 x 41,00	2,00	1,50	210,00	37,50	W	WE	-	TRS-65M-40M
65 x 50	70,00 x 53,00	2,00	1,50	210,00	38,50	W	WE	-	TRS-65M-50M
65 x 65	70,00 x 70,00	2,00	2,00	210,00	40,00	W	WE	-	TES-65M
80 x 40	85,00 x 41,00	2,00	1,50	260,00	45,00	W	WE	-	TRS-80M-40M
80 x 50	85,00 x 53,00	2,00	1,50	260,00	46,00	W	WE	-	TRS-80M-50M
80 x 65	85,00 x 70,00	2,00	2,00	260,00	47,50	W	WE	-	TRS-80M-65M
80 x 80	85,00 x 85,00	2,00	2,00	260,00	47,50	W	WE	-	TES-80M
100 x 65	104,00 x 70,00	2,00	2,00	310,00	57,00	W	WE	-	TRS-100M-65M
100 x 80	104,00 x 85,00	2,00	2,00	310,00	57,00	W	WE	-	TRS-100M-80M
100 x 100	104,00 x 104,00	2,00	2,00	310,00	58,00	W	WE	-	TES-100M

Blue marked = Stock item  
Further dimensions and materials on request. Subject to alteration.

**T-Pieces**  
Equal and Reduced / Imperial



IMPERIAL LINE C

Size	d1 x d2	s1	s2	l3	l1	weldtron bf	weldtron ep	safetron bf	safetron ep	1.4435 / 316L	Code
Inch	mm	mm	mm	mm	mm						
1/4 x 1/4	6,35 x 6,35	0,89	0,89	89,00	44,50	W	WE	S	SE	-	TE-04
3/8 x 1/4	9,53 x 6,35	0,89	0,89	89,00	44,50	W	WE	S	SE	-	TR-06-04
3/8 x 3/8	9,53 x 9,53	0,89	0,89	89,00	44,50	W	WE	S	SE	-	TE-06
1/2 x 1/4	12,70 x 6,35	1,65	0,89	101,60	47,60	W	WE	S	SE	-	TR-08-04
1/2 x 3/8	12,70 x 9,53	1,65	0,89	101,60	47,60	W	WE	S	SE	-	TR-08-06
1/2 x 1/2	12,70 x 12,70	1,65	1,65	101,60	47,60	W	WE	S	SE	-	TE-08
3/4 x 1/4	19,05 x 6,35	1,65	0,89	108,00	50,80	W	WE	S	SE	-	TR-12-04
3/4 x 3/8	19,05 x 9,53	1,65	0,89	108,00	50,80	W	WE	S	SE	-	TR-12-06
3/4 x 1/2	19,05 x 12,70	1,65	1,65	108,00	50,80	W	WE	S	SE	-	TR-12-08
3/4 x 3/4	19,05 x 19,05	1,65	1,65	108,00	50,80	W	WE	S	SE	-	TE-12

Blue marked = Stock item  
Further dimensions and materials on request. Subject to alteration

**T-Pieces**  
Equal and Reduced / Imperial

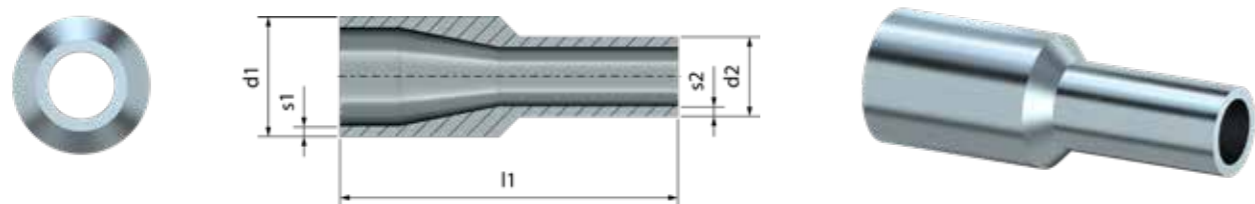
IMPERIAL LINE C

Size	d1 x d2	s1	s2	l3	l1	weldtron bf	weldtron ep	safetron bf	safetron ep	1.4435 / 316L	Code
Inch	mm	mm	mm	mm	mm						
1 x 1/4	25,40 x 6,35	1,65	0,89	108,00	54,00	W	WE	S	SE	-	TR-16-04
1 x 3/8	25,40 x 9,53	1,65	0,89	108,00	54,00	W	WE	S	SE	-	TR-16-06
1 x 1/2	25,40 x 12,70	1,65	1,65	108,00	54,00	W	WE	S	SE	-	TR-16-08
1 x 3/4	25,40 x 19,05	1,65	1,65	108,00	54,00	W	WE	S	SE	-	TR-16-12
1 x 1	25,40 x 25,40	1,65	1,65	108,00	54,00	W	WE	S	SE	-	TE-16
1 1/2 x 1/2	38,10 x 12,70	1,65	1,65	120,60	60,30	W	WE	S	SE	-	TR-24-08
1 1/2 x 3/4	38,10 x 19,05	1,65	1,65	120,60	60,30	W	WE	S	SE	-	TR-24-12
1 1/2 x 1	38,10 x 25,40	1,65	1,65	120,60	60,30	W	WE	S	SE	-	TR-24-16
1 1/2 x 1 1/2	38,10 x 38,10	1,65	1,65	120,60	60,30	W	WE	S	SE	-	TE-24
2 x 1/2	50,80 x 12,70	1,65	1,65	146,00	66,70	W	WE	S	SE	-	TR-32-08
2 x 3/4	50,80 x 19,05	1,65	1,65	146,00	66,70	W	WE	S	SE	-	TR-32-12
2 x 1	50,80 x 25,40	1,65	1,65	146,00	66,70	W	WE	S	SE	-	TR-32-16
2 x 1 1/2	50,80 x 38,10	1,65	1,65	146,00	66,70	W	WE	S	SE	-	TR-32-24
2 x 2	50,80 x 50,80	1,65	1,65	146,00	73,00	W	WE	S	SE	-	TE-32
2 1/2 x 3/4	63,50 x 19,05	1,65	1,65	158,80	73,00	W	WE	S	SE	-	TR-40-12
2 1/2 x 1	63,50 x 25,40	1,65	1,65	158,80	73,00	W	WE	S	SE	-	TR-40-16
2 1/2 x 1 1/2	63,50 x 38,10	1,65	1,65	158,80	73,00	W	WE	S	SE	-	TR-40-24
2 1/2 x 2	63,50 x 50,80	1,65	1,65	158,80	73,00	W	WE	S	SE	-	TR-40-32
2 1/2 x 2 1/2	63,50 x 63,50	1,65	1,65	158,80	79,40	W	WE	S	SE	-	TE-40
3 x 1/2	76,20 x 12,70	1,65	1,65	171,50	79,40	W	WE	S	SE	-	TR-48-08
3 x 3/4	76,20 x 19,05	1,65	1,65	171,50	79,40	W	WE	S	SE	-	TR-48-12
3 x 1	76,20 x 25,40	1,65	1,65	171,50	79,40	W	WE	S	SE	-	TR-48-16
3 x 1 1/2	76,20 x 38,10	1,65	1,65	171,50	79,40	W	WE	S	SE	-	TR-48-24
3 x 2	76,20 x 50,80	1,65	1,65	171,50	79,40	W	WE	S	SE	-	TR-48-32
3 x 2 1/2	76,20 x 63,50	1,65	1,65	171,50	79,40	W	WE	S	SE	-	TR-48-40
3 x 3	76,20 x 76,20	1,65	1,65	171,40	85,70	W	WE	S	SE	-	TE-48
4 x 1/2	101,60 x 12,70	2,11	1,65	209,60	92,10	W	WE	S	SE	-	TR-64-08
4 x 3/4	101,60 x 19,05	2,11	1,65	209,60	92,10	W	WE	S	SE	-	TR-64-12
4 x 1	101,60 x 25,40	2,11	1,65	209,60	92,10	W	WE	S	SE	-	TR-64-16
4 x 1 1/2	101,60 x 38,10	2,11	1,65	209,60	92,10	W	WE	S	SE	-	TR-64-24
4 x 2	101,60 x 50,80	2,11	1,65	209,60	98,40	W	WE	S	SE	-	TR-64-32
4 x 2 1/2	101,60 x 63,50	2,11	1,65	209,60	98,40	W	WE	S	SE	-	TR-64-40
4 x 3	101,60 x 76,20	2,11	1,65	209,60	98,40	W	WE	S	SE	-	TR-64-48
4 x 4	101,60 x 101,60	2,11	2,11	209,60	104,80	W	WE	S	SE	-	TE-64
6 x 3	152,40 x 76,20	2,77	1,65	285,80	130,20	W	WE	S	SE	-	TR-96-48
6 x 4	152,40 x 101,60	2,77	2,11	285,80	130,20	W	WE	S	SE	-	TR-96-64

Blue marked = Stock item  
Further dimensions and materials on request. Subject to alteration



**Reducers**  
Concentric / Metric



METRIC / DIN 11865 LINE A

Size	d1 x d2	s1	s2	l1	weldtron bf	weldtron ep	1.4435 / 316L	Code
6 x 4*	8,00 x 6,00	1,00	1,00	38,00	W	WE	-	RC-06M-04M
8 x 4*	10,00 x 6,00	1,00	1,00	38,00	W	WE	-	RC-08M-04M
8 x 6	10,00 x 8,00	1,00	1,00	38,00	W	WE	-	RC-08M-06M
10 x 6	13,00 x 8,00	1,50	1,00	38,00	W	WE	-	RC-10M-06M
10 x 8	13,00 x 10,00	1,50	1,00	38,00	W	WE	-	RC-10M-08M
15 x 8	19,00 x 10,00	1,50	1,00	60,00	W	WE	-	RC-15M-08M
15 x 10	19,00 x 13,00	1,50	1,50	60,00	W	WE	-	RC-15M-10M
20 x 10	23,00 x 13,00	1,50	1,50	60,00	W	WE	-	RC-20M-10M
20 x 15	23,00 x 19,00	1,50	1,50	60,00	W	WE	-	RC-20M-15M
25 x 15	29,00 x 19,00	1,50	1,50	70,00	W	WE	-	RC-25M-15M
25 x 20	29,00 x 23,00	1,50	1,50	70,00	W	WE	-	RC-25M-20M
32 x 15	35,00 x 19,00	1,50	1,50	80,00	W	WE	-	RC-32M-15M
32 x 20	35,00 x 23,00	1,50	1,50	80,00	W	WE	-	RC-32M-20M
32 x 25	35,00 x 29,00	1,50	1,50	80,00	W	WE	-	RC-32M-25M
40 x 20	41,00 x 23,00	1,50	1,50	90,00	W	WE	-	RC-40M-20M
40 x 25	41,00 x 29,00	1,50	1,50	90,00	W	WE	-	RC-40M-25M
40 x 32	41,00 x 35,00	1,50	1,50	90,00	W	WE	-	RC-40M-32M
50 x 25	53,00 x 29,00	1,50	1,50	90,00	W	WE	-	RC-50M-25M
50 x 32	53,00 x 35,00	1,50	1,50	90,00	W	WE	-	RC-50M-32M
50 x 40	53,00 x 41,00	1,50	1,50	90,00	W	WE	-	RC-50M-40M
65 x 40	70,00 x 41,00	2,00	1,50	110,00	W	WE	-	RC-65M-40M
65 x 50	70,00 x 53,00	2,00	1,50	110,00	W	WE	-	RC-65M-50M
80 x 50	85,00 x 53,00	2,00	1,50	110,00	W	WE	-	RC-80M-50M
80 x 65	85,00 x 70,00	2,00	2,00	110,00	W	WE	-	RC-80M-65M
100 x 65	104,00 x 70,00	2,00	2,00	135,00	W	WE	-	RC-100M-65M
100 x 80	104,00 x 85,00	2,00	2,00	135,00	W	WE	-	RC-100M-80M
150 x 80	154,00 x 85,00	2,00	2,00	170,00	W	WE	-	RC-150M-80M
150 x 100	154,00 x 104,00	2,00	2,00	170,00	W	WE	-	RC-150M-100M

Blue marked = Stock item  
Further dimensions and materials on request. Subject to alteration.  
\* Does not apply to DIN 11865

**Reducers**  
Concentric / ISO

ISO / DIN 11865 LINE B

Size	d1 x d2	s1	s2	l1	weldtron bf	weldtron ep	safetron bf	safetron ep	1.4435 / 316L	Code
10 x 8	17,20 x 13,50	1,60	1,60	60,00	W	WE	S	SE	-	RC-10I-08I
15 x 8	21,30 x 13,50	1,60	1,60	60,00	W	WE	S	SE	-	RC-15I-08I
15 x 10	21,30 x 17,20	1,60	1,60	60,00	W	WE	S	SE	-	RC-15I-10I
20 x 8	26,90 x 13,50	1,60	1,60	60,00	W	WE	S	SE	-	RC-20I-08I
20 x 10	26,90 x 17,20	1,60	1,60	60,00	W	WE	S	SE	-	RC-20I-10I
20 x 15	26,90 x 21,30	1,60	1,60	60,00	W	WE	S	SE	-	RC-20I-15I
25 x 15	33,70 x 21,30	2,00	1,60	70,00	W	WE	S	SE	-	RC-25I-15I
25 x 20	33,70 x 26,90	2,00	1,60	70,00	W	WE	S	SE	-	RC-25I-20I
32 x 15	42,40 x 21,30	2,00	1,60	80,00	W	WE	S	SE	-	RC-32I-15I
32 x 20	42,40 x 26,90	2,00	1,60	80,00	W	WE	S	SE	-	RC-32I-20I
32 x 25	42,40 x 33,70	2,00	2,00	80,00	W	WE	S	SE	-	RC-32I-25I
40 x 15	48,30 x 21,30	2,00	1,60	90,00	W	WE	S	SE	-	RC-40I-15I
40 x 20	48,30 x 26,90	2,00	1,60	90,00	W	WE	S	SE	-	RC-40I-20I
40 x 25	48,30 x 33,70	2,00	2,00	90,00	W	WE	S	SE	-	RC-40I-25I
40 x 32	48,30 x 42,40	2,00	2,00	90,00	W	WE	S	SE	-	RC-40I-32I
50 x 20	60,30 x 26,90	2,00	1,60	100,00	W	WE	S	SE	-	RC-50I-20I
50 x 25	60,30 x 33,70	2,00	2,00	100,00	W	WE	S	SE	-	RC-50I-25I
50 x 32	60,30 x 42,40	2,00	2,00	100,00	W	WE	S	SE	-	RC-50I-32I
50 x 40	60,30 x 48,30	2,00	2,00	100,00	W	WE	S	SE	-	RC-50I-40I
65 x 25	76,10 x 33,70	2,00	2,00	110,00	W	WE	S	SE	-	RC-65I-25I
65 x 32	76,10 x 42,40	2,00	2,00	110,00	W	WE	S	SE	-	RC-65I-32I
65 x 40	76,10 x 48,30	2,00	2,00	110,00	W	WE	S	SE	-	RC-65I-40I
65 x 50	76,10 x 60,30	2,00	2,00	110,00	W	WE	S	SE	-	RC-65I-50I
80 x 50	88,90 x 60,30	2,30	2,00	110,00	W	WE	S	SE	-	RC-80I-50I
80 x 65	88,90 x 76,10	2,30	2,00	110,00	W	WE	S	SE	-	RC-80I-65I
100 x 65	114,30 x 76,10	2,30	2,00	135,00	W	WE	S	SE	-	RC-100I-65I
100 x 80	114,30 x 88,90	2,30	2,30	135,00	W	WE	S	SE	-	RC-100I-80I

Blue marked = Stock item  
Further dimensions and materials on request. Subject to alteration.

**Reducers**  
Concentric / Imperial

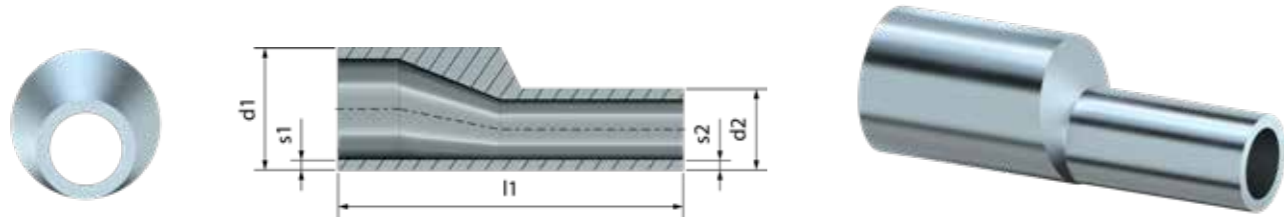
IMPERIAL / DIN 11865 LINE C

Size	d1 x d 2		s1	s2	l1	weldtron bf	weldtron ep	safetron bf	safetron ep	1.4435 / 316L		Code
	Inch	mm								mm		
3/8 x 1/4	9,53	x 6,35	0,89	0,89	41,28	W	WE	S	SE	-	RC-06-04	
1/2 x 1/4	12,70	x 6,35	1,65	0,89	47,63	W	WE	S	SE	-	RC-08-04	
1/2 x 3/8	12,70	x 9,53	1,65	0,89	47,63	W	WE	S	SE	-	RC-08-06	
3/4 x 1/4	19,05	x 6,35	1,65	0,89	38,00	W	WE	S	SE	-	RC-12-04	
3/4 x 3/8	19,05	x 9,53	1,65	0,89	50,80	W	WE	S	SE	-	RC-12-06	
3/4 x 1/2	19,05	x 12,70	1,65	1,65	53,98	W	WE	S	SE	-	RC-12-08	
1 x 1/2	25,40	x 12,70	1,65	1,65	63,50	W	WE	S	SE	-	RC-16-08	
1 x 3/4	25,40	x 19,05	1,65	1,65	53,98	W	WE	S	SE	-	RC-16-12	
1 1/2 x 1/2	38,10	x 12,70	1,65	1,65	80,00	W	WE	S	SE	-	RC-24-08	
1 1/2 x 3/4	38,10	x 19,05	1,65	1,65	76,20	W	WE	S	SE	-	RC-24-12	
1 1/2 x 1	38,10	x 25,40	1,65	1,65	63,50	W	WE	S	SE	-	RC-24-16	
2 x 1	50,80	x 25,40	1,65	1,65	85,73	W	WE	S	SE	-	RC-32-16	
2 x 1 1/2	50,80	x 38,10	1,65	1,65	63,50	W	WE	S	SE	-	RC-32-24	
2 1/2 x 1	63,50	x 25,40	1,65	1,65	100,00	W	WE	S	SE	-	RC-40-16	
2 1/2 x 1 1/2	63,50	x 38,10	1,65	1,65	85,73	W	WE	S	SE	-	RC-40-24	
2 1/2 x 2	63,50	x 50,80	1,65	1,65	63,50	W	WE	S	SE	-	RC-40-32	
3 x 1 1/2	76,20	x 38,10	1,65	1,65	107,95	W	WE	S	SE	-	RC-48-24	
3 x 2	76,20	x 50,80	1,65	1,65	85,73	W	WE	S	SE	-	RC-48-32	
3 x 2 1/2	76,20	x 63,50	1,65	1,65	66,68	W	WE	S	SE	-	RC-48-40	
4 x 2	101,60	x 50,80	2,11	1,65	130,18	W	WE	S	SE	-	RC-64-32	
4 x 2 1/2	101,60	x 63,50	2,11	1,65	107,95	W	WE	S	SE	-	RC-64-40	
4 x 3	101,60	x 76,20	2,11	1,65	98,43	W	WE	S	SE	-	RC-64-48	
6 x 3	152,40	x 76,20	2,77	1,65	184,15	W	WE	S	SE	-	RC-96-64	
6 x 4	152,40	x 101,60	2,77	2,11	142,88	W	WE	S	SE	-	RC-96-48	

Blue marked = Stock item  
Further dimensions and materials on request. Subject to alteration.



**Reducers**  
Eccentric / Metric



METRIC / DIN 11865 LINE A

Size	d1 x d 2	s1	s2	l1	weldtron bf	weldtron ep	Code
DN	mm	mm	mm		1.4435 / 316L		
8 x 6	10,00 x 8,00	1,00	1,00	38,00	W	WE	RE-08M-06M
10 x 6	13,00 x 8,00	1,50	1,00	38,00	W	WE	RE-10M-06M
10 x 8	13,00 x 10,00	1,50	1,00	38,00	W	WE	RE-10M-08M
15 x 8	19,00 x 10,00	1,50	1,00	60,00	W	WE	RE-15M-08M
15 x 10	19,00 x 13,00	1,50	1,50	60,00	W	WE	RE-15M-10M
20 x 10	23,00 x 13,00	1,50	1,50	60,00	W	WE	RE-20M-10M
20 x 15	23,00 x 19,00	1,50	1,50	60,00	W	WE	RE-20M-15M
25 x 15	29,00 x 19,00	1,50	1,50	70,00	W	WE	RE-25M-15M
25 x 20	29,00 x 23,00	1,50	1,50	70,00	W	WE	RE-25M-20M
32 x 15	35,00 x 19,00	1,50	1,50	80,00	W	WE	RE-32M-15M
32 x 20	35,00 x 23,00	1,50	1,50	80,00	W	WE	RE-32M-20M
32 x 25	35,00 x 29,00	1,50	1,50	80,00	W	WE	RE-32M-25M
40 x 20	41,00 x 23,00	1,50	1,50	90,00	W	WE	RE-40M-20M
40 x 25	41,00 x 29,00	1,50	1,50	90,00	W	WE	RE-40M-25M
40 x 32	41,00 x 35,00	1,50	1,50	90,00	W	WE	RE-40M-32M
50 x 25	53,00 x 29,00	1,50	1,50	90,00	W	WE	RE-50M-25M
50 x 32	53,00 x 35,00	1,50	1,50	90,00	W	WE	RE-50M-32M
50 x 40	53,00 x 41,00	1,50	1,50	90,00	W	WE	RE-50M-40M
65 x 40	70,00 x 41,00	2,00	1,50	110,00	W	WE	RE-65M-40M
65 x 50	70,00 x 53,00	2,00	1,50	110,00	W	WE	RE-65M-50M
80 x 50	85,00 x 53,00	2,00	1,50	110,00	W	WE	RE-80M-50M
80 x 65	85,00 x 70,00	2,00	2,00	110,00	W	WE	RE-80M-65M
100 x 65	104,00 x 70,00	2,00	2,00	135,00	W	WE	RE-100M-65M
100 x 80	104,00 x 85,00	2,00	2,00	135,00	W	WE	RE-100M-80M
150 x 80	154,00 x 85,00	2,00	2,00	170,00	W	WE	RE-150M-80M
150 x 100	154,00 x 104,00	2,00	2,00	170,00	W	WE	RE-150M-100M

Blue marked = Stock item  
Further dimensions and materials on request. Subject to alteration.

**Reducers**  
Eccentric / ISO

ISO / DIN 11865 LINE B

Size	d1 x d 2	s1	s2	l1	weldtron bf	weldtron ep	safetron bf	safetron ep	Code
DN	mm	mm	mm		1.4435 / 316L				
10 x 8	17,20 x 13,50	1,60	1,60	60,00	W	WE	S	SE	RE-10I-08I
15 x 8	21,30 x 13,50	1,60	1,60	60,00	W	WE	S	SE	RE-15I-08I
15 x 10	21,30 x 17,20	1,60	1,60	60,00	W	WE	S	SE	RE-15I-10I
20 x 8	26,90 x 13,50	1,60	1,60	60,00	W	WE	S	SE	RE-20I-08I
20 x 10	26,90 x 17,20	1,60	1,60	60,00	W	WE	S	SE	RE-20I-10I
20 x 15	26,90 x 21,30	1,60	1,60	60,00	W	WE	S	SE	RE-20I-15I
25 x 15	33,70 x 21,30	2,00	1,60	70,00	W	WE	S	SE	RE-25I-15I
25 x 20	33,70 x 26,90	2,00	1,60	70,00	W	WE	S	SE	RE-25I-20I
32 x 15	42,40 x 21,30	2,00	1,60	80,00	W	WE	S	SE	RE-32I-15I
32 x 20	42,40 x 26,90	2,00	1,60	80,00	W	WE	S	SE	RE-32I-20I
32 x 25	42,40 x 33,70	2,00	2,00	80,00	W	WE	S	SE	RE-32I-25I
40 x 15	48,30 x 21,30	2,00	1,60	90,00	W	WE	S	SE	RE-40I-15I
40 x 20	48,30 x 26,90	2,00	1,60	90,00	W	WE	S	SE	RE-40I-20I
40 x 25	48,30 x 33,70	2,00	2,00	90,00	W	WE	S	SE	RE-40I-25I
40 x 32	48,30 x 42,40	2,00	2,00	90,00	W	WE	S	SE	RE-40I-32I
50 x 20	60,30 x 26,90	2,00	1,60	100,00	W	WE	S	SE	RE-50I-20I
50 x 25	60,30 x 33,70	2,00	2,00	100,00	W	WE	S	SE	RE-50I-25I
50 x 32	60,30 x 42,40	2,00	2,00	100,00	W	WE	S	SE	RE-50I-32I
50 x 40	60,30 x 48,30	2,00	2,00	100,00	W	WE	S	SE	RE-50I-40I
65 x 25	76,10 x 33,70	2,00	2,00	110,00	W	WE	S	SE	RE-65I-25I
65 x 32	76,10 x 42,40	2,00	2,00	110,00	W	WE	S	SE	RE-65I-32I
65 x 40	76,10 x 48,30	2,00	2,00	110,00	W	WE	S	SE	RE-65I-40I
65 x 50	76,10 x 60,30	2,00	2,00	110,00	W	WE	S	SE	RE-65I-50I
80 x 50	88,90 x 60,30	2,30	2,00	110,00	W	WE	S	SE	RE-80I-50I
80 x 65	88,90 x 76,10	2,30	2,00	110,00	W	WE	S	SE	RE-80I-65I
100 x 65	114,30 x 76,10	2,30	2,00	135,00	W	WE	S	SE	RE-100I-65I
100 x 80	114,30 x 88,90	2,30	2,30	135,00	W	WE	S	SE	RE-100I-80I
150 x 100	168,30 x 114,30	2,60	2,30	170,00	W	WE	S	SE	RE-150I-100I

Blue marked = Stock item  
Further dimensions and materials on request. Subject to alteration.

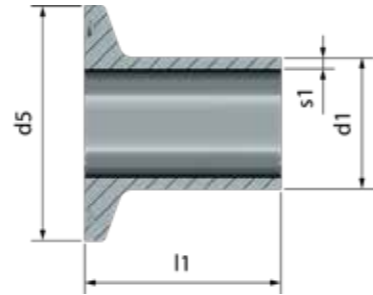
**Reducers**  
Eccentric / Imperial

IMPERIAL / DIN 11865 LINE C

Size	d1 x d2	s1	s2	l1	weldtron bf	weldtron ep	safetron bf	safetron ep	1.4435 / 316L		Code
									W	WE	
1/2 x 1/4	12,70 x 6,35	1,65	0,89	47,63	W	WE	S	SE	-	RE-08-04	
1/2 x 3/8	12,70 x 9,53	1,65	0,89	47,63	W	WE	S	SE	-	RE-08-06	
3/4 x 3/8	19,05 x 9,53	1,65	0,89	50,80	W	WE	S	SE	-	RE-12-06	
3/4 x 1/2	19,05 x 12,70	1,65	1,65	53,98	W	WE	S	SE	-	RE-12-08	
1 x 1/2	25,40 x 12,70	1,65	1,65	63,50	W	WE	S	SE	-	RE-16-08	
1 x 3/4	25,40 x 19,05	1,65	1,65	53,98	W	WE	S	SE	-	RE-16-12	
1 1/2 x 1/2	38,10 x 12,70	1,65	1,65	80,00	W	WE	S	SE	-	RE-24-08	
1 1/2 x 3/4	38,10 x 19,05	1,65	1,65	76,20	W	WE	S	SE	-	RE-24-12	
1 1/2 x 1	38,10 x 25,40	1,65	1,65	63,50	W	WE	S	SE	-	RE-24-16	
2 x 1	50,80 x 25,40	1,65	1,65	85,73	W	WE	S	SE	-	RE-32-16	
2 x 1 1/2	50,80 x 38,10	1,65	1,65	63,50	W	WE	S	SE	-	RE-32-24	
2 1/2 x 1	63,50 x 25,40	1,65	1,65	100,00	W	WE	S	SE	-	RE-40-16	
2 1/2 x 1 1/2	63,50 x 38,10	1,65	1,65	85,73	W	WE	S	SE	-	RE-40-24	
2 1/2 x 2	63,50 x 50,80	1,65	1,65	63,50	W	WE	S	SE	-	RE-40-32	
3 x 1 1/2	76,20 x 38,10	1,65	1,65	107,95	W	WE	S	SE	-	RE-48-24	
3 x 2	76,20 x 50,80	1,65	1,65	85,73	W	WE	S	SE	-	RE-48-32	
3 x 2 1/2	76,20 x 63,50	1,65	1,65	66,68	W	WE	S	SE	-	RE-48-40	
4 x 2	101,60 x 50,80	2,11	1,65	130,18	W	WE	S	SE	-	RE-64-32	
4 x 2 1/2	101,60 x 63,50	2,11	1,65	107,95	W	WE	S	SE	-	RE-64-40	
4 x 3	101,60 x 76,20	2,11	1,65	98,43	W	WE	S	SE	-	RE-64-48	
6 x 3	152,40 x 76,20	2,77	1,65	184,15	W	WE	S	SE	-	RE-96-64	
6 x 4	152,40 x 101,60	2,77	2,11	142,88	W	WE	S	SE	-	RE-96-48	

Blue marked = Stock item  
Further dimensions and materials on request. Subject to alteration.

**Ferrules, Clamps, Gaskets and Caps acc. to DIN 32676 and ASME BPE Imperial**



**COMPLETE CONNECTION**

Imperial	Size	Length		Pressure
Inch	d x s / mm	min. / mm	max. / mm	max. bar / psig
1/4	6,35 x 0,89	25,40	89,00	40 / 580
3/8	9,53 x 0,89	25,40	89,00	40 / 580
1/2	12,70 x 1,65	25,40	89,00	40 / 580
3/4	19,05 x 1,65	27,10	90,70	40 / 580
1	25,40 x 1,65	27,10	90,70	40 / 580
1 1/2	38,10 x 1,65	27,10	90,70	40 / 580
2	50,80 x 1,65	27,10	116,10	40 / 580
2 1/2	63,50 x 1,65	27,10	116,10	25 / 362
3	76,20 x 1,65	27,70	116,1	25 / 362
4	101,60 x 2,11	33,50	154,1	16 / 232
6	152,40 x 2,77	39,80	154,1	16 / 232

**FERRULES**

d1	s1	d5
mm		
6,35	0,89	25,00
9,53	0,89	25,00
12,70	1,65	25,00
19,05	1,65	25,00
25,40	1,65	50,50
38,10	1,65	50,50
50,80	1,65	64,00
63,50	1,65	77,50
76,20	1,65	91,00
101,60	2,11	119,00
152,40	2,77	167,00

A*	weldtron bf	weldtron ep	safetron bf	safetron ep
l1	1.4435 / 316L			
mm	Code			
44,50	W WE S SE - FA-04			
44,50	W WE S SE - FA-06			
44,50	W WE S SE - FA-08			
44,50	W WE S SE - FA-12			
44,50	W WE S SE - FA-16			
44,50	W WE S SE - FA-24			
57,20	W WE S SE - FA-32			
57,20	W WE S SE - FA-40			
57,20	W WE S SE - FA-48			
57,20	W WE S SE - FA-64			
76,20	W WE S SE - FA-96			

B*	weldtron bf	weldtron ep	safetron bf	safetron ep
l1	1.4435 / 316L			
mm	Code			
28,58	W WE S SE - FB-04			
28,58	W WE S SE - FB-06			
28,58	W WE S SE - FB-08			
28,58	W WE S SE - FB-12			
28,58	W WE S SE - FB-16			
28,58	W WE S SE - FB-24			
28,58	W WE S SE - FB-32			
28,58	W WE S SE - FB-40			
28,58	W WE S SE - FB-48			
28,58	W WE S SE - FB-64			
38,10	W WE S SE - FB-96			

C*	weldtron bf	weldtron ep	safetron bf	safetron ep
l1	1.4435 / 316L			
mm	Code			
12,70	W WE S SE - FC-04			
12,70	W WE S SE - FC-06			
12,70	W WE S SE - FC-08			
12,70	W WE S SE - FC-12			
12,70	W WE S SE - FC-16			
12,70	W WE S SE - FC-24			
12,70	W WE S SE - FC-32			
12,70	W WE S SE - FC-40			
12,70	W WE S SE - FC-48			
15,88	W WE S SE - FC-64			
19,05	W WE S SE - FC-96			

\*Dimensions acc. to ASME BPE. Ferrules acc. to DIN 32676 on request.

**CLAMPS**

d5	Single Pinned Wing Nut	Double Pinned Wing Nut	Double Pinned Hex Nut	Double Bolted High Pressure	3-Segment Clamp	Safety Clamp Wing Nut
Size	mm	Codes				
1	25,00	CL-SP-WN-1	CL-DP-WN-1	CL-DP-HN-1	CL-DB-HP-1	CL-S-WN-1
0	34,00	CL-SP-WN-0	CL-DP-WN-0	CL-DP-HN-0	CL-DB-HP-0	CL-S-WN-0
2	50,50	CL-SP-WN-2	CL-DP-WN-2	CL-DP-HN-2	CL-DB-HP-2	CL-S3-2
3	64,00	CL-SP-WN-3	CL-DP-WN-3	CL-DP-HN-3	CL-DB-HP-3	CL-S3-3
4	77,50	CL-SP-WN-4	CL-DP-WN-4	CL-DP-HN-4	CL-DB-HP-4	CL-S3-4
5	91,00	CL-SP-WN-5	CL-DP-WN-5	CL-DP-HN-5	CL-DB-HP-5	CL-S3-5
6	106,00	CL-SP-WN-6	CL-DP-WN-6	CL-DP-HN-6	CL-DB-HP-6	CL-S3-6
7	119,00	CL-SP-WN-7	CL-DP-WN-7	CL-DP-HN-7	CL-DB-HP-7	CL-S3-7
8	130,00	CL-SP-WN-8	CL-DP-WN-8	CL-DP-HN-8	CL-DB-HP-8	CL-S3-8
9	167,00	CL-SP-WN-9	CL-DP-WN-9	CL-DP-HN-9	CL-DB-HP-9	CL-S3-9
10	183,00		CL-DP-WN-10	CL-DP-HN-10	CL-DB-HP-10	CL-S3-10

Blue marked = Stock item  
Further dimensions and materials on request. Subject to alteration.

**GASKETS**

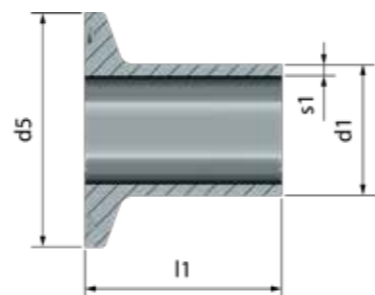
d1	PTFE	FKM	PTFE/FKM	EPDM	VMQ	PTFE/316	PTFE/EPDM	PTFE/EPDM
mm	Code	Material						
6,35	TC-GK-04-1-	P	F	FP	E	M	P16	EP PTE
9,53	TC-GK-06-1-	P	F	FP	E	M	P16	EP PTE
12,70	TC-GK-08-1-	P	F	FP	E	M	P16	EP PTE
19,05	TC-GK-12-1-	P	F	FP	E	M	P16	EP PTE
25,40	TC-GK-16-2-	P	F	FP	E	M	P16	EP PTE
38,10	TC-GK-24-2-	P	F	FP	E	M	P16	EP PTE
50,80	TC-GK-32-3-	P	F	FP	E	M	P16	EP PTE
63,50	TC-GK-40-4-	P	F	FP	E	M	P16	EP PTE
76,20	TC-GK-48-5-	P	F	FP	E	M	P16	EP PTE
101,60	TC-GK-72-7-	P	F	FP	E	M	P16	EP PTE
152,40	TC-GK-96-9-	P	F	FP	E	M	P16	EP PTE

Blue marked = Stock item  
Further dimensions and materials on request. Subject to alteration.

**CAP 32676**

d5	A	weldtron bf	weldtron ep	safetron bf	safetron ep
mm	mm	1.4435 / 316L			
mm	mm	Code			
25,00	4,75	W WE S SE - FTC-1			
25,00	4,75	W WE S SE - FTC-1			
25,00	4,75	W WE S SE - FTC-1			
25,00	4,75	W WE S SE - FTC-1			
50,50	6,35	W WE S SE - FTC-2			
50,50	6,35	W WE S SE - FTC-2			
64,00	6,35	W WE S SE - FTC-3			
77,50	6,35	W WE S SE - FTC-4			
91,00	6,35	W WE S SE - FTC-5			
119,00	8,00	W WE S SE - FTC-7			
167,00	14,00	W WE S SE - FTC-9			

**Ferrules, Clamps, Gaskets and Caps acc. to DIN 32676**  
ISO



COMPLETE CONNECTION				
Metric	Size	Length		Pressure
DN	d x s / mm	min. / mm	max. / mm	max. bar / psig
8	13,50 x 1,60	25,40	57,20	40 / 580
10	17,20 x 1,60	25,40	57,2	40 / 580
15	21,30 x 1,60	44,70	73,70	40 / 580
20	26,90 x 1,60	44,70	73,70	40 / 580
25	33,70 x 2,00	44,70	73,70	40 / 580
32	42,40 x 2,00	44,70	73,70	40 / 580
40	48,30 x 2,00	44,70	73,70	40 / 580
50	60,30 x 2,00	57,70	73,70	25 / 362
65	76,10 x 2,00	57,70	97,70	25 / 362
80	88,90 x 2,30	57,7	97,70	16 / 232
100	114,30 x 2,30	57,70	97,70	16 / 232

FERRULES		
d1	s1	d5
mm		
13,50	1,60	25,00
17,20	1,60	25,00
21,30	1,60	50,50
26,90	1,60	50,50
33,70	2,00	50,50
42,40	2,00	64,00
48,30	2,00	64,00
60,30	2,00	77,50
76,10	2,00	91,00
88,90	2,30	106,00
114,30	2,30	130,00

B	weldtron bf	weldtron ep	safetron bf	safetron ep		
l1					1.4435 / 316L	Code
mm						
28,60	W	WE	S	SE	-	FB-08I
28,60	W	WE	S	SE	-	FB-10I
36,00	W	WE	S	SE	-	FB-15I
36,00	W	WE	S	SE	-	FB-20I
36,00	W	WE	S	SE	-	FB-25I
36,00	W	WE	S	SE	-	FB-32I
36,00	W	WE	S	SE	-	FB-40I
36,00	W	WE	S	SE	-	FB-50I
48,00	W	WE	S	SE	-	FB-65I
48,00	W	WE	S	SE	-	FB-80I
48,00	W	WE	W	WE	-	FB-100I

C	weldtron bf	weldtron ep	safetron bf	safetron ep		
l1					1.4435 / 316L	Code
mm						
12,70	W	WE	S	SE	-	FC-08I
12,70	W	WE	S	SE	-	FC-10I
21,50	W	WE	S	SE	-	FC-15I
21,50	W	WE	S	SE	-	FC-20I
21,50	W	WE	S	SE	-	FC-25I
21,50	W	WE	S	SE	-	FC-32I
21,50	W	WE	S	SE	-	FC-40I
28,00	W	WE	S	SE	-	FC-50I
28,00	W	WE	S	SE	-	FC-65I
28,00	W	WE	S	SE	-	FC-80I
28,00	W	WE	S	SE	-	FC-100I

CLAMPS						
d5	Single Pinned Wing Nut	Double Pinned Wing Nut	Double Pinned Hex Nut	Double Bolted High Pressure	3-Segment Clamp	Safety Clamp Wing Nut
Size	mm	Codes				
1	25,00	CL-SP-WN-1	CL-DP-WN-1	CL-DP-HN-1	CL-DB-HP-1	CL-S-WN-1
0	34,00	CL-SP-WN-0	CL-DP-WN-0	CL-DP-HN-0	CL-DB-HP-0	CL-S-WN-0
2	50,50	CL-SP-WN-2	CL-DP-WN-2	CL-DP-HN-2	CL-DB-HP-2	CL-S3-2
3	64,00	CL-SP-WN-3	CL-DP-WN-3	CL-DP-HN-3	CL-DB-HP-3	CL-S3-3
4	77,50	CL-SP-WN-4	CL-DP-WN-4	CL-DP-HN-4	CL-DB-HP-4	CL-S3-4
5	91,00	CL-SP-WN-5	CL-DP-WN-5	CL-DP-HN-5	CL-DB-HP-5	CL-S3-5
6	106,00	CL-SP-WN-6	CL-DP-WN-6	CL-DP-HN-6	CL-DB-HP-6	CL-S3-6
7	119,00	CL-SP-WN-7	CL-DP-WN-7	CL-DP-HN-7	CL-DB-HP-7	CL-S3-7
8	130,00	CL-SP-WN-8	CL-DP-WN-8	CL-DP-HN-8	CL-DB-HP-8	CL-S3-8
9	167,00	CL-SP-WN-9	CL-DP-WN-9	CL-DP-HN-9	CL-DB-HP-9	CL-S3-9
10	183,00		CL-DP-WN-10	CL-DP-HN-10	CL-DB-HP-10	CL-S3-10

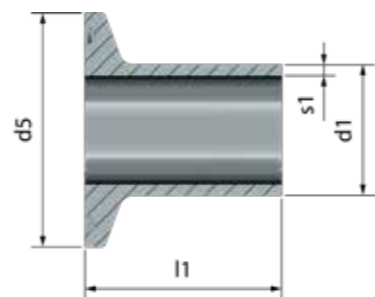
GASKETS						
d1	PTFE	FKM	PTFE/FKM	EPDM	VMQ	
mm	Code	Material				
13,50	TC-GK-08I-1-	P	F	FP	E	M
17,20	TC-GK-10I-1-	P	F	FP	E	M
21,30	TC-GK-15I-2-	P	F	FP	E	M
26,90	TC-GK-20I-2-	P	F	FP	E	M
33,70	TC-GK-25I-2-	P	F	FP	E	M
42,40	TC-GK-32I-3-	P	F	FP	E	M
48,30	TC-GK-40I-3-	P	F	FP	E	M
60,30	TC-GK-50I-4-	P	F	FP	E	M
76,10	TC-GK-65I-5-	P	F	FP	E	M
88,90	TC-GK-80I-6-	P	F	FP	E	M
114,30	TC-GK-100I-8-	P	F	FP	E	M

CAP 32676						
d5	A	weldtron bf	weldtron ep	safetron bf	safetron ep	
mm		1.4435 / 316L				Code
25,00	4,75	W	WE	S	SE	FTC-1
25,00	4,75	W	WE	S	SE	FTC-1
50,50	6,35	W	WE	S	SE	FTC-2
50,50	6,35	W	WE	S	SE	FTC-2
50,50	6,35	W	WE	S	SE	FTC-2
64,00	6,35	W	WE	S	SE	FTC-3
64,00	6,35	W	WE	S	SE	FTC-3
77,50	6,35	W	WE	S	SE	FTC-4
91,00	6,35	W	WE	S	SE	FTC-5
106,00	6,35	W	WE	S	SE	FTC-6
130,00	8,00	W	WE	S	SE	FTC-8

Blue marked = Stock item  
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**Ferrules, Clamps, Gaskets and Caps acc. to DIN 32676**  
Metric



**COMPLETE CONNECTION**

Metric	Size	Length		Pressure
DN	d x s / mm	min. / mm	max. / mm	max. bar / psig
6	8,00 x 1,00	25,4	57,2	40 / 580
8	10,00 x 1,00	25,4	57,2	40 / 580
10	13,00 x 1,50	37,7	58,9	40 / 580
15	19,00 x 1,50	37,7	58,9	40 / 580
20	23,00 x 1,50	37,7	58,9	40 / 580
25	29,00 x 1,50	44,7	73,7	40 / 580
32	35,00 x 1,50	44,7	73,7	40 / 580
40	41,00 x 1,50	44,7	73,7	25 / 362
50	53,00 x 1,50	44,7	73,7	25 / 362
65	70,00 x 2,00	57,7	97,7	16 / 232
80	85,00 x 2,00	57,7	97,7	16 / 232
100	104,00 x 2,00	57,7	97,7	16 / 232
150	154,00 x 2,00	57,7	133,7	16 / 232

**FERRULES**

d1	s1	d5
mm		
8,00	1,00	25,00
10,00	1,00	25,00
13,00	1,50	34,00
19,00	1,50	34,00
23,00	1,50	34,00
29,00	1,50	50,50
35,00	1,50	50,50
41,00	1,50	50,50
53,00	1,50	64,00
70,00	2,00	91,00
85,00	2,00	106,00
104,00	2,00	119,00
154,00	2,00	183,00

**B**

l1	weldtron bf	weldtron ep	Code
mm	1.4435 / 316L		
28,60	W	WE	FB-06M
28,60	W	WE	FB-08M
28,60	W	WE	FB-10M
28,60	W	WE	FB-15M
28,60	W	WE	FB-20M
36,00	W	WE	FB-25M
36,00	W	WE	FB-32M
36,00	W	WE	FB-40M
36,00	W	WE	FB-50M
48,00	W	WE	FB-65M
48,00	W	WE	FB-80M
48,00	W	WE	FB-100M
66,00	W	WE	FB-150M

**C**

l1	weldtron bf	weldtron ep	Code
mm	1.4435 / 316L		
12,70	W	WE	FC-06M
12,70	W	WE	FC-08M
18,00	W	WE	FC-10M
18,00	W	WE	FC-15M
18,00	W	WE	FC-20M
21,50	W	WE	FC-25M
21,50	W	WE	FC-32M
21,50	W	WE	FC-40M
21,50	W	WE	FC-50M
28,00	W	WE	FC-65M
28,00	W	WE	FC-80M
28,00	W	WE	FC-100M
28,00	W	WE	FC-150M

**CLAMPS**

d5	Single Pinned Wing Nut	Double Pinned Wing Nut	Double Pinned Hex Nut	Double Bolted High Pressure	3-Segment Clamp	Safety Clamp Wing Nut
Size	mm	Codes				
1	25,00	CL-SP-WN-1	CL-DP-WN-1	CL-DP-HN-1	CL-DB-HP-1	CL-S-WN-1
0	34,00	CL-SP-WN-0	CL-DP-WN-0	CL-DP-HN-0	CL-DB-HP-0	CL-S-WN-0
2	50,50	CL-SP-WN-2	CL-DP-WN-2	CL-DP-HN-2	CL-DB-HP-2	CL-S3-2
3	64,00	CL-SP-WN-3	CL-DP-WN-3	CL-DP-HN-3	CL-DB-HP-3	CL-S3-3
4	77,50	CL-SP-WN-4	CL-DP-WN-4	CL-DP-HN-4	CL-DB-HP-4	CL-S3-4
5	91,00	CL-SP-WN-5	CL-DP-WN-5	CL-DP-HN-5	CL-DB-HP-5	CL-S3-5
6	106,00	CL-SP-WN-6	CL-DP-WN-6	CL-DP-HN-6	CL-DB-HP-6	CL-S-WN-6
7	119,00	CL-SP-WN-7	CL-DP-WN-7	CL-DP-HN-7	CL-DB-HP-7	CL-S3-7
8	130,00	CL-SP-WN-8	CL-DP-WN-8	CL-DP-HN-8	CL-DB-HP-8	
9	167,00	CL-SP-WN-9	CL-DP-WN-9	CL-DP-HN-9	CL-DB-HP-9	
10	183,00		CL-DP-WN-10	CL-DP-HN-10	CL-DB-HP-10	

**GASKETS**

d1	PTFE	FKM	PTFE/FKM	EPDM	VMQ
mm	Code	Materials			
8,00	TC-GK-06M-1-	P	F	FP	E
10,00	TC-GK-08M-1-	P	F	FP	E
13,00	TC-GK-10M-0-	P	F	FP	E
19,00	TC-GK-15M-0-	P	F	FP	E
23,00	TC-GK-20M-0-	P	F	FP	E
29,00	TC-GK-25M-2-	P	F	FP	E
35,00	TC-GK-32M-2-	P	F	FP	E
41,00	TC-GK-42M-2-	P	F	FP	E
53,00	TC-GK-52M-3-	P	F	FP	E
70,00	TC-GK-65M-5-	P	F	FP	E
85,00	TC-GK-82M-6-	P	F	FP	E
104,00	TC-GK-122M-7-	P	F	FP	E
154,00	TC-GK-152M-10-	P	F	FP	E

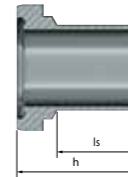
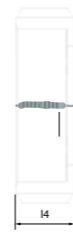
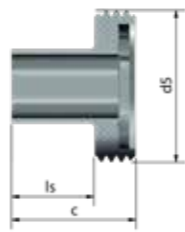
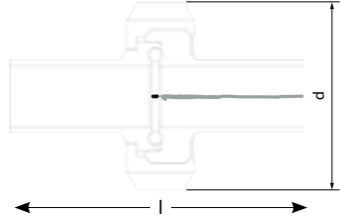
**CAP**

d5	A	weldtron bf	weldtron ep	Code
mm		1.4435 / 316L		
25,00	4,75	W	WE	FTC-1
25,00	4,75	W	WE	FTC-1
34,00	6,35	W	WE	FTC-0
34,00	6,35	W	WE	FTC-0
34,00	6,35	W	WE	FTC-0
50,50	6,35	W	WE	FTC-2
50,50	6,35	W	WE	FTC-2
50,50	6,35	W	WE	FTC-2
64,00	6,35	W	WE	FTC-3
91,00	6,35	W	WE	FTC-5
106,00	6,35	W	WE	FTC-6
119,00	8,00	W	WE	FTC-7
183,00	14,00	W	WE	FTC-10

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**Screw Connection acc. to DIN 11864-1**  
Line A / Metric



Metric	TUBE DIN 11866		COMPLETE CONNECTION	
	d x s	l	d	

DN	mm	mm	mm
10	13,00 x 1,50	76,00	38,00
15	19,00 x 1,50	76,00	44,00
20	23,00 x 1,50	76,00	54,00
25	29,00 x 1,50	77,00	63,00
32	35,00 x 1,50	88,00	70,00
40	41,00 x 1,50	88,00	78,00
50	53,00 x 1,50	89,00	92,00
65	70,00 x 2,00	113,00	112,00
80	85,00 x 2,00	117,00	127,00
100	104,00 x 2,00	120,00	148,00

THREADED STUB (MALE)			weldtron bf	weldtron ep	safetron bf	safetron ep
d5	ls	c				

mm			1.4435/316L				Code
28 x 1/8"	27,00	41,00	W	WE	S	SE	- SC-TS-10M
34 x 1/8"	27,00	41,00	W	WE	S	SE	- SC-TS-15M
44 x 1/6"	26,00	43,00	W	WE	S	SE	- SC-TS-20M
52 x 1/6"	26,00	43,00	W	WE	S	SE	- SC-TS-25M
58 x 1/6"	32,00	48,00	W	WE	S	SE	- SC-TS-32M
65 x 1/6"	31,00	48,00	W	WE	S	SE	- SC-TS-40M
78 x 1/6"	30,00	48,00	W	WE	S	SE	- SC-TS-50M
95 x 1/6"	40,00	60,00	W	WE	S	SE	- SC-TS-65M
110 x 1/4"	40,00	64,00	W	WE	S	SE	- SC-TS-80M
130 x 1/4"	40,00	64,00	W	WE	S	SE	- SC-TS-100M

GROOVE NUT	
d	l4

mm	mm	Code
38,00	18,00	SC-GN-10
44,00	18,00	SC-GN-15
54,00	20,00	SC-GN-20
63,00	21,00	SC-GN-25
70,00	21,00	SC-GN-32
78,00	21,00	SC-GN-40
92,00	22,00	SC-GN-50
112,00	25,00	SC-GN-65
127,00	29,00	SC-GN-80
148,00	31,00	SC-GN-100

WELD STUB (LINER)		weldtron bf	weldtron ep	safetron bf	safetron ep
ls	h				

mm		1.4435/316L				Size
27,00	39,00	W	WE	S	SE	- SC-WS-10M
27,00	39,00	W	WE	S	SE	- SC-WS-15M
26,00	38,00	W	WE	S	SE	- SC-WS-20M
26,00	40,00	W	WE	S	SE	- SC-WS-25M
32,00	47,00	W	WE	S	SE	- SC-WS-32M
31,00	47,00	W	WE	S	SE	- SC-WS-40M
30,00	48,00	W	WE	S	SE	- SC-WS-50M
40,00	61,00	W	WE	S	SE	- SC-WS-65M
40,00	61,00	W	WE	S	SE	- SC-WS-80M
40,00	66,00	W	WE	S	SE	- SC-WS-100M

Blue marked = Stock item Further dimensions and materials on request. Subject to alteration.

Blue marked = Stock item Further dimensions and materials on request. Subject to alteration.



O-RING		EPDM	FPM/FEP*
d	s		

DN	mm	Code	EPDM	FPM/FEP*
10	12,00 x 3,50	SC-GK-10M-0-	E	FF
15	18,00 x 3,50	SC-GK-15M-0-	E	FF
20	22,00 x 3,50	SC-GK-20M-0-	E	FF
25	28,00 x 3,50	SC-GK-25M-2-	E	FF
32	34,00 x 5,00	SC-GK-32M-2-	E	FF
40	40,00 x 5,00	SC-GK-42M-2-	E	FF
50	52,00 x 5,00	SC-GK-52M-3-	E	FF
65	68,00 x 5,00	SC-GK-65M-5-	E	FF
80	83,00 x 5,00	SC-GK-82M-6-	E	FF
100	102,00 x 5,00	SC-GK-122M-7-	E	FF

Blue marked = Stock item Further dimensions and materials on request. Subject to alteration. \*Material is not part of the DIN 11864

BLIND WELD STUB (LINER)		safetron bf	safetron ep
d1	h		

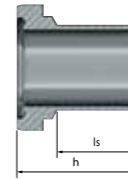
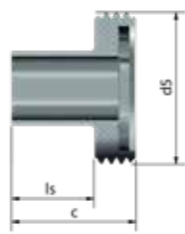
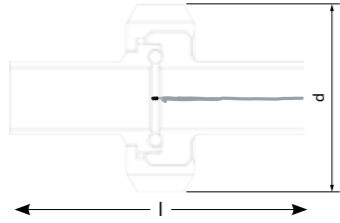
mm	mm	1.4435/316L		Code
18,00	9,00	S	SE	- SC-BWS-10M
24,00	9,00	S	SE	- SC-BWS-15M
30,00	10,00	S	SE	- SC-BWS-20M
35,00	12,00	S	SE	- SC-BWS-25M
41,00	13,00	S	SE	- SC-BWS-32M
48,00	13,00	S	SE	- SC-BWS-40M
61,00	14,00	S	SE	- SC-BWS-50M
79,00	16,00	S	SE	- SC-BWS-65M
93,00	16,00	S	SE	- SC-BWS-80M
114,00	20,00	S	SE	- SC-BWS-100M

Blue marked = Stock item Further dimensions and materials on request. Subject to alteration.

BLIND THREADED STUB (MALE)		safetron bf	safetron ep
SW	c		

mm	mm	1.4435/316L		Code
SW 19	24,00	S	SE	- SC-BTS-10M
SW 24	24,00	S	SE	- SC-BTS-15M
SW 30	24,00	S	SE	- SC-BTS-20M
SW 41	24,00	S	SE	- SC-BTS-25M
SW 46	24,00	S	SE	- SC-BTS-32M
SW 50	24,00	S	SE	- SC-BTS-40M
SW 65	24,00	S	SE	- SC-BTS-50M
SW 80	28,00	S	SE	- SC-BTS-65M
SW 95	28,00	S	SE	- SC-BTS-80M
SW 115	30,00	S	SE	- SC-BTS-100M

**Screw Connection acc. to DIN 11864-1**  
Line B / ISO



ISO	TUBE DIN 11866		COMPLETE CONNECTION	
	d x s	l	d	
DN	mm	mm		
8	13,50 x 1,60	76,00	38,00	
10	17,20 x 1,60	76,00	44,00	
15	21,30 x 1,60	78,00	54,00	
20	26,90 x 1,60	78,00	63,00	
25	33,70 x 2,00	88,00	70,00	
32	42,40 x 2,00	88,00	78,00	
40	48,30 x 2,00	90,00	92,00	
50	60,30 x 2,00	114,00	112,00	
65	76,10 x 2,00	117,00	127,00	
80	88,90 x 2,30	122,00	148,00	

THREADED STUB (MALE)			weldtron bf	weldtron ep	safetron bf	safetron ep		
d5	ls	c					1.4435/316L	Code
mm								
28 x 1/8"	27,00	41,00	W	WE	S	SE	-	SC-TS-08I
34 x 1/8"	27,00	41,00	W	WE	S	SE	-	SC-TS-10I
44 x 1/6"	26,00	43,00	W	WE	S	SE	-	SC-TS-15I
52 x 1/6"	26,00	43,00	W	WE	S	SE	-	SC-TS-20I
58 x 1/6"	32,00	48,00	W	WE	S	SE	-	SC-TS-25I
65 x 1/6"	31,00	48,00	W	WE	S	SE	-	SC-TS-32I
78 x 1/6"	30,00	48,00	W	WE	S	SE	-	SC-TS-40I
95 x 1/6"	40,00	60,00	W	WE	S	SE	-	SC-TS-50I
110 x 1/4"	40,00	64,00	W	WE	S	SE	-	SC-TS-65I
130 x 1/4"	40,00	64,00	W	WE	S	SE	-	SC-TS-80I

GROOVE NUT				
d	l4			
mm	mm	Code		
38,0	18,00	SC-GN-10		
44,0	18,00	SC-GN-15		
54,0	20,00	SC-GN-20		
63,0	21,00	SC-GN-25		
70,0	21,00	SC-GN-32		
78,0	21,00	SC-GN-40		
92,0	22,00	SC-GN-50		
112,0	25,00	SC-GN-65		
127,0	29,00	SC-GN-80		
148,0	31,00	SC-GN-100		

WELD STUB (LINER)		weldtron bf	weldtron ep	safetron bf	safetron ep		
ls	h					1.4435/316L	Size
mm							
27,00	39,00	W	WE	S	SE	-	SC-WS-08I
27,00	39,00	W	WE	S	SE	-	SC-WS-10I
27,00	40,00	W	WE	S	SE	-	SC-WS-15I
27,00	41,00	W	WE	S	SE	-	SC-WS-20I
32,00	47,00	W	WE	S	SE	-	SC-WS-25I
32,00	47,00	W	WE	S	SE	-	SC-WS-32I
31,00	48,00	W	WE	S	SE	-	SC-WS-40I
40,00	62,00	W	WE	S	SE	-	SC-WS-50I
40,00	61,00	W	WE	S	SE	-	SC-WS-65I
40,00	68,00	W	WE	S	SE	-	SC-WS-80I

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Blue marked = Stock item Further dimensions and materials on request. Subject to alteration.



O-RING				EPDM	FPM/FEP*	MVQ/PFA*
d	s					
mm	mm	Code				
8	12,00 x 3,50	SC-GK-08I-1-	E	FF	MP	
10	16,00 x 3,50	SC-GK-10I-1-	E	FF	MP	
15	20,00 x 3,50	SC-GK-15I-2-	E	FF	MP	
20	26,00 x 3,50	SC-GK-20I-2-	E	FF	MP	
25	32,00 x 5,00	SC-GK-25I-2-	E	FF	MP	
32	40,50 x 5,00	SC-GK-32I-3-	E	FF	MP	
40	46,50 x 5,00	SC-GK-40I-3-	E	FF	MP	
50	58,50 x 5,00	SC-GK-50I-4-	E	FF	MP	
65	73,50 x 5,00	SC-GK-65I-5-	E	FF	MP	
80	86,50 x 5,00	SC-GK-80I-6-	E	FF	MP	

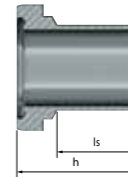
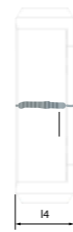
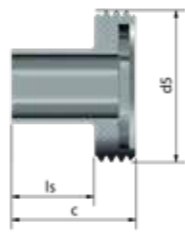
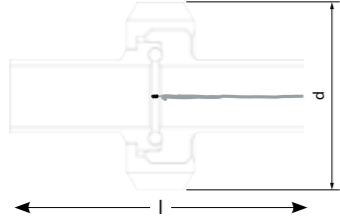
Blue marked = Stock item Further dimensions and materials on request. Subject to alteration. \*Material is not part of the DIN 11864

BLIND WELD STUB (LINER)		safetron bf	safetron ep		
d1	h				
mm		1.4435/316L		Code	
18,00	10,00	S	SE	-	SC-BWS-08I
24,00	10,00	S	SE	-	SC-BWS-10I
30,00	10,00	S	SE	-	SC-BWS-15I
35,00	12,00	S	SE	-	SC-BWS-20I
41,00	13,00	S	SE	-	SC-BWS-25I
48,00	13,00	S	SE	-	SC-BWS-32I
61,00	14,00	S	SE	-	SC-BWS-40I
79,00	16,00	S	SE	-	SC-BWS-50I
93,00	16,00	S	SE	-	SC-BWS-65I
114,00	20,00	S	SE	-	SC-BWS-80I

Blue marked = Stock item Further dimensions and materials on request. Subject to alteration.

BLIND THREADED STUB (MALE)		safetron bf	safetron ep		
SW	c				
mm		1.4435/316L		Code	
SW19	22,00	S	SE	-	SC-BTS-08I
SW24	22,00	S	SE	-	SC-BTS-10I
SW30	24,00	S	SE	-	SC-BTS-15I
SW41	24,00	S	SE	-	SC-BTS-20I
SW46	24,00	S	SE	-	SC-BTS-25I
SW50	24,00	S	SE	-	SC-BTS-32I
SW65	24,00	S	SE	-	SC-BTS-40I
SW80	28,00	S	SE	-	SC-BTS-50I
SW95	28,00	S	SE	-	SC-BTS-65I
SW115	30,00	S	SE	-	SC-BTS-80I

**Screw Connection acc. to DIN 11864-1**  
Line C / Imperial



Imperial	TUBE DIN 11866		COMPLETE CONNECTION	
	d x s	l	d	
Inch	mm	mm		
1/2"	12,70 x 1,65	76,00	38,00	
3/4"	19,05 x 1,65	76,00	44,00	
1"	25,40 x 1,65	77,00	63,00	
1 1/2"	38,10 x 1,65	88,00	78,00	
2"	50,80 x 1,65	89,00	92,00	
2 1/2"	63,50 x 1,65	115,00	112,00	
3"	76,20 x 1,65	117,00	127,00	
4"	101,60 x 2,11	119,00	148,00	

THREADED STUB (MALE)	d5	ls	c	1.4435/316L				Code
				weldtron bf	weldtron ep	safetron bf	safetron ep	
	mm							
28 x 1/8"	27,00	41,00		W	WE	S	SE	- SC-TS-08
34 x 1/8"	27,00	41,00		W	WE	S	SE	- SC-TS-12
52 x 1/6"	26,00	43,00		W	WE	S	SE	- SC-TS-16
65 x 1/6"	30,00	49,00		W	WE	S	SE	- SC-TS-24
78 x 1/6"	30,00	49,00		W	WE	S	SE	- SC-TS-32
95 x 1/6"	40,00	60,00		W	WE	S	SE	- SC-TS-40
110 x 1/4"	40,00	64,00		W	WE	S	SE	- SC-TS-48
130 x 1/4"	40,00	64,00		W	WE	S	SE	- SC-TS-64

GROOVE NUT	d	l4	Code
	38	18,0	SC-GN-10
	44	18,0	SC-GN-15
	63	21,0	SC-GN-25
	78	21,0	SC-GN-40
	92	22,0	SC-GN-50
	112	25,0	SC-GN-65
	127	29,0	SC-GN-80
	148	31,0	SC-GN-100

WELD STUB (LINER)	ls	h	1.4435/316L				Code
			weldtron bf	weldtron ep	safetron bf	safetron ep	
	mm						
	27,00	39,00	W	WE	S	SE	- SC-WS-08I
	27,00	39,00	W	WE	S	SE	- SC-WS-10I
	27,00	40,00	W	WE	S	SE	- SC-WS-15I
	27,00	41,00	W	WE	S	SE	- SC-WS-20I
	32,00	47,00	W	WE	S	SE	- SC-WS-25I
	32,00	47,00	W	WE	S	SE	- SC-WS-32I
	31,00	48,00	W	WE	S	SE	- SC-WS-40I
	40,00	62,00	W	WE	S	SE	- SC-WS-50I

Blue marked = Stock item Further dimensions and materials on request. Subject to alteration.

Blue marked = Stock item Further dimensions and materials on request. Subject to alteration.



O-RING	d x s	Code	Material	
			EPDM	FPM/FEP*
Inch	mm			
1/2"	12,00 x 3,50	SC-GK-08-1-	E	FF
3/4"	18,00 x 3,50	SC-GK-12-1-	E	FF
1"	24,00 x 3,50	SC-GK-16-2-	E	FF
1 1/2"	37,00 x 5,00	SC-GK-24-2-	E	FF
2"	50,00 x 5,00	SC-GK-32-3-	E	FF
2 1/2"	62,00 x 5,00	SC-GK-40-4-	E	FF
3"	75,00 x 5,00	SC-GK-48-5-	E	FF
4"	100,00 x 5,00	SC-GK-72-7-	E	FF

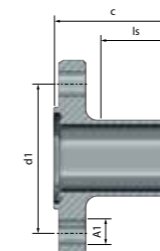
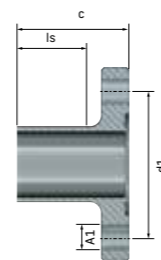
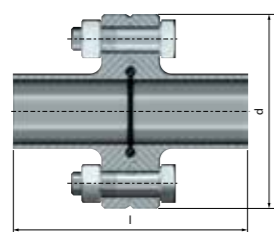
Blue marked = Stock item Further dimensions and materials on request. Subject to alteration. \*Material is not part of the DIN 11864

BLIND WELD STUB (LINER)	d1	h	1.4435/316L		Code	BLIND THREADED STUB (MALE)	SW	c	1.4435/316L		Code
			safetron bf	safetron ep							
	mm					mm					
	18,00	9,00	S	SE	- SC-BWS-08	SW19	22,00	S	SE	- SC-BTS-08	
	24,00	9,00	S	SE	- SC-BWS-12	SW24	22,00	S	SE	- SC-BTS-12	
	35,00	12,00	S	SE	- SC-BWS-16	SW30	24,00	S	SE	- SC-BTS-16	
	48,00	13,00	S	SE	- SC-BWS-24	SW41	24,00	S	SE	- SC-BTS-24	
	61,00	14,00	S	SE	- SC-BWS-32	SW46	24,00	S	SE	- SC-BTS-32	
	79,00	16,00	S	SE	- SC-BWS-40	SW50	24,00	S	SE	- SC-BTS-40	
	93,00	16,00	S	SE	- SC-BWS-48	SW65	24,00	S	SE	- SC-BTS-48	
	114,00	20,00	S	SE	- SC-BWS-64	SW80	28,00	S	SE	- SC-BTS-64	

Blue marked = Stock item Further dimensions and materials on request. Subject to alteration.



**Flange Connection acc. to DIN 11864-2**  
Line A / Metric



Metric	TUBE DIN 11866	COMPLETE CONNECTION	
	<b>d x s</b>	<b>l</b>	<b>d</b>
DN	mm	mm	
10	13,00 x 1,50	80,00	54,00
15	19,00 x 1,50	80,00	59,00
20	23,00 x 1,50	80,00	64,00
25	29,00 x 1,50	80,00	70,00
32	35,00 x 1,50	90,00	76,00
40	41,00 x 1,50	90,00	82,00
50	53,00 x 1,50	90,00	94,00
65	70,00 x 2,00	108,00	113,00
80	85,00 x 2,00	116,00	133,00
100	104,00 x 2,00	116,00	159,00

FLANGE GROOVE (MALE)			weldtron bf	weldtron ep	safetron bf	safetron ep			
<b>c</b>	<b>ls</b>	<b>d1</b>							
mm			1.4435/316L				Code		
41,50	26,00	37,00	W	WE	S	SE	-	SC-FG-10M	
41,50	26,00	42,00	W	WE	S	SE	-	SC-FG-15M	
41,50	26,00	47,00	W	WE	S	SE	-	SC-FG-20M	
41,50	26,00	53,00	W	WE	S	SE	-	SC-FG-25M	
46,50	31,00	59,00	W	WE	S	SE	-	SC-FG-32M	
46,50	31,00	65,00	W	WE	S	SE	-	SC-FG-40M	
46,50	31,00	77,00	W	WE	S	SE	-	SC-FG-50M	
55,50	42,00	95,00	W	WE	S	SE	-	SC-FG-65M	
59,50	42,00	112,00	W	WE	S	SE	-	SC-FG-80M	
59,50	42,00	137,00	W	WE	S	SE	-	SC-FG-100M	

FLANGE COLLAR (FEMALE)					weldtron bf	weldtron ep	safetron bf	safetron ep			
<b>h</b>											
mm					1.4435/316L				Code	FLANGE BORE	MOUNTING BOLTS
40,00	W	WE	S	SE	-	-	-	-	SC-FC-10M	4 x Ø 9,00	4/M8 x 30
40,00	W	WE	S	SE	-	-	-	-	SC-FC-15M	4 x Ø 9,00	4/M8 x 30
40,00	W	WE	S	SE	-	-	-	-	SC-FC-20M	4 x Ø 9,00	4/M8 x 30
40,00	W	WE	S	SE	-	-	-	-	SC-FC-25M	4 x Ø 9,00	4/M8 x 30
45,00	W	WE	S	SE	-	-	-	-	SC-FC-32M	4 x Ø 9,00	4/M8 x 30
45,00	W	WE	S	SE	-	-	-	-	SC-FC-40M	4 x Ø 9,00	4/M8 x 30
45,00	W	WE	S	SE	-	-	-	-	SC-FC-50M	4 x Ø 9,00	4/M8 x 30
54,00	W	WE	S	SE	-	-	-	-	SC-FC-65M	8 x Ø 9,00	8/M8 x 30
58,00	W	WE	S	SE	-	-	-	-	SC-FC-80M	8 x Ø 11,00	8/M10 x 35
58,00	W	WE	S	SE	-	-	-	-	SC-FC-100M	8 x Ø 11,00	8/M10 x 40

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Blue marked = Stock item Further dimensions and materials on request. Subject to alteration.



O-RING				
<b>d x s</b>			EPDM	FPM/FEP*
DN	mm	Code		
10	12,00 x 3,50	SC-GK-10M-0-	E	FF
15	18,00 x 3,50	SC-GK-15M-0-	E	FF
20	22,00 x 3,50	SC-GK-20M-0-	E	FF
25	28,00 x 3,50	SC-GK-25M-2-	E	FF
32	34,00 x 5,00	SC-GK-32M-2-	E	FF
40	40,00 x 5,00	SC-GK-42M-2-	E	FF
50	52,00 x 5,00	SC-GK-52M-3-	E	FF
65	68,00 x 5,00	SC-GK-65M-5-	E	FF
80	83,00 x 5,00	SC-GK-82M-6-	E	FF
100	102,00 x 5,00	SC-GK-122M-7-	E	FF

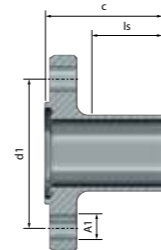
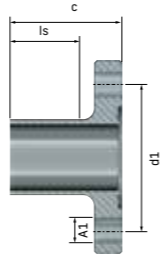
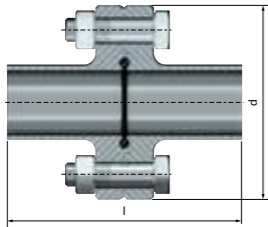
Blue marked = Stock item Further dimensions and materials on request. Subject to alteration. \*Material is not part of the DIN 11864

BLIND FLANGE COLLAR (FEMALE)			safetron bf	safetron ep
<b>h</b>				
mm	1.4435/316L		Code	
10,00	S	SE	-	SC-BFC-10M
10,00	S	SE	-	SC-BFC-15M
10,00	S	SE	-	SC-BFC-20M
10,00	S	SE	-	SC-BFC-25M
10,00	S	SE	-	SC-BFC-32M
10,00	S	SE	-	SC-BFC-40M
10,00	S	SE	-	SC-BFC-50M
10,00	S	SE	-	SC-BFC-65M
12,00	S	SE	-	SC-BFC-80M
14,00	S	SE	-	SC-BFC-100M

Blue marked = Stock item Further dimensions and materials on request. Subject to alteration.

BLIND FLANGE GROOVE (MALE)			safetron bf	safetron ep
<b>c</b>				
mm	1.4435/316L		Code	
11,50	S	SE	-	SC-BFG-10M
11,50	S	SE	-	SC-BFG-15M
11,50	S	SE	-	SC-BFG-20M
11,50	S	SE	-	SC-BFG-25M
11,50	S	SE	-	SC-BFG-32M
11,50	S	SE	-	SC-BFG-40M
11,50	S	SE	-	SC-BFG-50M
11,50	S	SE	-	SC-BFG-65M
13,50	S	SE	-	SC-BFG-80M
15,50	S	SE	-	SC-BFG-100M

**Flange Connection acc. to DIN 11864-2**  
Line B / ISO



ISO	TUBE DIN 11866	COMPLETE CONNECTION	
	d x s	l	d
DN	mm	mm	
8	13,50 x 1,60	80,00	54,00
10	17,20 x 1,60	80,00	59,00
15	21,30 x 1,60	80,00	62,00
20	26,90 x 1,60	80,00	69,00
25	33,70 x 2,00	90,00	74,00
32	42,40 x 2,00	90,00	82,00
40	48,30 x 2,00	90,00	88,00
50	60,30 x 2,00	108,00	103,00
65	76,1x 2,00	112,00	125,00
80	88,90 x 2,30	116,00	137,00
100	114,30 x 2,30	116,00	168,00

FLANGE GROOVE (MALE)			weldtron bf	weldtron ep	safetron bf	safetron ep		
c	ls	d1	■	■	■	■	Code	
mm			1.4435/316L				Code	
41,50	26,00	37,00	W	WE	S	SE	- SC-FG-08I	
41,50	26,00	42,00	W	WE	S	SE	- SC-FG-10I	
41,50	26,00	45,00	W	WE	S	SE	- SC-FG-15I	
41,50	26,00	52,00	W	WE	S	SE	- SC-FG-20I	
46,50	31,00	57,00	W	WE	S	SE	- SC-FG-25I	
46,50	31,00	65,00	W	WE	S	SE	- SC-FG-32I	
46,50	31,00	71,00	W	WE	S	SE	- SC-FG-40I	
55,50	42,00	85,00	W	WE	S	SE	- SC-FG-50I	
57,50	42,00	104,00	W	WE	S	SE	- SC-FG-65I	
59,50	42,00	116,00	W	WE	S	SE	- SC-FG-80I	
59,50	42,00	146,00	W	WE	S	SE	- SC-FG-80I	

FLANGE COLLAR (FEMALE)			weldtron bf	weldtron ep	safetron bf	safetron ep			FLANGE BORE	MOUNTING BOLTS
h	■	■	■	■	■	■	Code		A1	G
mm			1.4435/316L				Code			
40,00	W	WE	S	SE	-	SC-FC-08I		4 x Ø 9,00	4/M8 x 30	
40,00	W	WE	S	SE	-	SC-FC-10I		4 x Ø 9,00	4/M8 x 30	
40,00	W	WE	S	SE	-	SC-FC-15I		4 x Ø 9,00	4/M8 x 30	
40,00	W	WE	S	SE	-	SC-FC-20I		4 x Ø 9,00	4/M8 x 30	
45,00	W	WE	S	SE	-	SC-FC-25I		4 x Ø 9,00	4/M8 x 30	
45,00	W	WE	S	SE	-	SC-FC-32I		4 x Ø 9,00	4/M8 x 30	
45,00	W	WE	S	SE	-	SC-FC-40I		4 x Ø 9,00	4/M8 x 30	
54,00	W	WE	S	SE	-	SC-FC-50I		4 x Ø 9,00	4/M8 x 30	
56,00	W	WE	S	SE	-	SC-FC-65I		8 x Ø 11,00	8/M10 x 30	
58,00	W	WE	S	SE	-	SC-FC-80I		8 x Ø 11,00	8/M10 x 35	
58,00	W	WE	S	SE	-	SC-FC-100I		8 x Ø 11,00	8/M10 x 35	

Blue marked = Stock item Further dimensions and materials on request. Subject to alteration.

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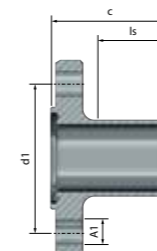
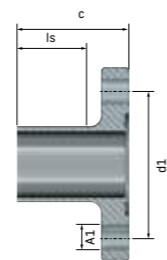
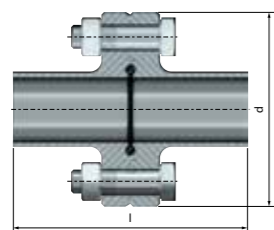
O-RING				EPDM	FPM/FEP*	MVQ/PFA*
DN	mm	Code	EPDM	FPM/FEP*	MVQ/PFA*	
8	12,00 x 3,50	SC-GK-08I-1-	E	FF	MP	
10	16,00 x 3,50	SC-GK-10I-1-	E	FF	MP	
15	20,00 x 3,50	SC-GK-15I-2-	E	FF	MP	
20	26,00 x 3,50	SC-GK-20I-2-	E	FF	MP	
25	32,00 x 5,00	SC-GK-25I-2-	E	FF	MP	
32	40,50 x 5,00	SC-GK-32I-3-	E	FF	MP	
40	46,50 x 5,00	SC-GK-40I-3-	E	FF	MP	
50	58,50 x 5,00	SC-GK-50I-4-	E	FF	MP	
65	73,50 x 5,00	SC-GK-65I-5-	E	FF	MP	
80	86,50 x 5,00	SC-GK-80I-6-	E	FF	MP	

Blue marked = Stock item Further dimensions and materials on request. Subject to alteration. \*Material is not part of the DIN 11864

BLIND FLANGE COLLAR (FEMALE)		safetron bf	safetron ep			BLIND FLANGE GROOVE (MALE)		safetron bf	safetron ep		
h	■	■	■	Code		c	■	■	Code		
mm			1.4435/316L		Code	mm			1.4435/316L		Code
10	S	SE	-	SC-BFC-08I		11,50	S	SE	-	SC-BFG-08I	
10	S	SE	-	SC-BFC-10I		11,50	S	SE	-	SC-BFG-10I	
10	S	SE	-	SC-BFC-15I		11,50	S	SE	-	SC-BFG-15I	
10	S	SE	-	SC-BFC-20I		11,50	S	SE	-	SC-BFG-20I	
10	S	SE	-	SC-BFC-25I		11,50	S	SE	-	SC-BFG-25I	
10	S	SE	-	SC-BFC-32I		11,50	S	SE	-	SC-BFG-32I	
10	S	SE	-	SC-BFC-40I		11,50	S	SE	-	SC-BFG-40I	
10	S	SE	-	SC-BFC-50I		11,50	S	SE	-	SC-BFG-50I	
12	S	SE	-	SC-BFC-65I		13,50	S	SE	-	SC-BFG-65I	
12	S	SE	-	SC-BFC-80I		15,50	S	SE	-	SC-BFG-80I	
14	S	SE	-	SC-BFC-100I		15,50	S	SE	-	SC-BFG-100I	

Blue marked = Stock item Further dimensions and materials on request. Subject to alteration.

**Flange Connection acc. to DIN 11864-2**  
Line C / Imperial



Imperial	TUBE DIN 11866	COMPLETE CONNECTION	
	<b>d x s</b>	<b>l</b>	<b>d</b>
DN	mm	mm	
1/2"	12,70 x 1,65	80,00	54,00
3/4"	19,05 x 1,65	80,00	59,00
1"	25,40 x 1,65	80,00	66,00
1 1/2"	38,10 x 1,65	90,00	79,00
2"	50,80 x 1,65	90,00	92,00
2 1/2"	63,50 x 1,65	108,00	107,00
3"	76,20 x 1,65	112,00	125,00
4"	101,60 x 2,11	116,00	157,00

FLANGE GROOVE (MALE)	Material				Code
	weldtron bf	weldtron ep	safetron bf	safetron ep	
<b>c</b>	<b>ls</b>	<b>d1</b>	1.4435/316L		
mm					
41,50	26,00	37,00	W	WE S SE	SC-FG-08
41,50	26,00	42,00	W	WE S SE	SC-FG-12
41,50	26,00	49,00	W	WE S SE	SC-FG-16
46,50	31,00	62,00	W	WE S SE	SC-FG-24
46,50	31,00	75,00	W	WE S SE	SC-FG-32
55,50	42,00	89,00	W	WE S SE	SC-FG-40
57,50	42,00	104,00	W	WE S SE	SC-FG-48
59,50	42,00	135,00	W	WE S SE	SC-FG-64

FLANGE COLLAR (FEMALE)	Material				Code
	weldtron bf	weldtron ep	safetron bf	safetron ep	
<b>h</b>	1.4435/316L				
mm					
40,00	W	WE S SE	-	-SC-FC-08	4 x Ø 9,00
40,00	W	WE S SE	-	-SC-FC-12	4 x Ø 9,00
40,00	W	WE S SE	-	-SC-FC-16	4 x Ø 9,00
45,00	W	WE S SE	-	-SC-FC-24	4 x Ø 9,00
45,00	W	WE S SE	-	-SC-FC-32	4 x Ø 9,00
54,00	W	WE S SE	-	-SC-FC-40	8 x Ø 9,00
56,00	W	WE S SE	-	-SC-FC-48	8 x Ø 11,00
58,00	W	WE S SE	-	-SC-FC-64	8 x Ø 11,00

FLANGE BORE	MOUNTING BOLTS
<b>A1</b>	<b>G</b>
4 x Ø 9,00	4/M8 x 30
4 x Ø 9,00	4/M8 x 30
4 x Ø 9,00	4/M8 x 30
4 x Ø 9,00	4/M8 x 30
4 x Ø 9,00	4/M8 x 30
8 x Ø 9,00	8/M8 x 30
8 x Ø 11,00	8/M10 x 30
8 x Ø 11,00	8/M10 x 35

Blue marked = Stock item Further dimensions and materials on request. Subject to alteration.

Blue marked = Stock item Further dimensions and materials on request. Subject to alteration.



O-RING	<b>d x s</b>	Code	Material	
			EPDM	FPM/FEP*
DN	mm			
1/2"	12,00 x 3,50	SC-GK-08-1-	E	FF
3/4"	18,00 x 3,50	SC-GK-12-1-	E	FF
1"	24,00 x 3,50	SC-GK-16-2-	E	FF
1 1/2"	37,00 x 5,00	SC-GK-24-2-	E	FF
2"	50,00 x 5,00	SC-GK-32-3-	E	FF
2 1/2"	62,00 x 5,00	SC-GK-40-4-	E	FF
3"	75,00 x 5,00	SC-GK-48-5-	E	FF
4"	100,00 x 5,00	SC-GK-72-7-	E	FF

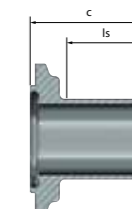
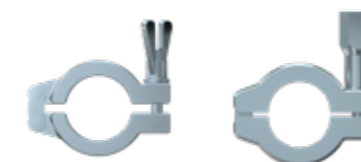
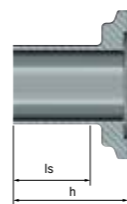
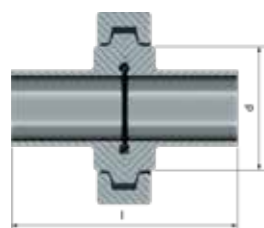
Blue marked = Stock item Further dimensions and materials on request. Subject to alteration.\*Material is not part of the DIN 11864

BLIND FLANGE COLLAR (FEMALE)	Material		Code
	safetron bf	safetron ep	
<b>h</b>	1.4435/316L		
mm			
10,00	S	SE	SC-BFC-08
10,00	S	SE	SC-BFC-12
10,00	S	SE	SC-BFC-16
10,00	S	SE	SC-BFC-24
10,00	S	SE	SC-BFC-32
10,00	S	SE	SC-BFC-40
12,00	S	SE	SC-BFC-48
14,00	S	SE	SC-BFC-64

Blue marked = Stock item Further dimensions and materials on request. Subject to alteration.

BLIND FLANGE GROOVE (MALE)	Material		Code
	safetron bf	safetron ep	
<b>c</b>	1.4435/316L		
mm			
11,50	S	SE	SC-BFG-08
11,50	S	SE	SC-BFG-12
11,50	S	SE	SC-BFG-16
11,50	S	SE	SC-BFG-24
11,50	S	SE	SC-BFG-32
11,50	S	SE	SC-BFG-40
13,50	S	SE	SC-BFG-48
15,50	S	SE	SC-BFG-64

**Clamp Connection acc. to DIN 11864-3**  
Line A / Metric



Metric	TUBE DIN 11866		COMPLETE CONNECTION	
	d x s	l	d	

DN	mm	mm	mm
10	13,00 x 1,50	76,00	38,00
15	19,00 x 1,50	76,00	44,00
20	23,00 x 1,50	76,00	54,00
25	29,00 x 1,50	77,00	63,00
32	35,00 x 1,50	88,00	70,00
40	41,00 x 1,50	88,00	78,00
50	53,00 x 1,50	89,00	92,00
65	70,00 x 2,00	113,00	112,00
80	85,00 x 2,00	117,00	127,00
100	104,00 x 2,00	120,00	148,00

Blue marked = Stock item Further dimensions and materials on request. Subject to alteration.

CLAMP COLLAR (FEMALE)		weldtron bf	weldtron ep	safetron bf	safetron ep
l <sub>s</sub>	h	■	■	■	■

mm	1.4435/316L	Code			
26,0	38,0	W	WE	S	SE - SC-CC-10M
26,0	38,0	W	WE	S	SE - SC-CC-15M
26,0	38,0	W	WE	S	SE - SC-CC-20M
28,0	38,5	W	WE	S	SE - SC-CC-25M
30,0	44,0	W	WE	S	SE - SC-CC-32M
30,0	44,0	W	WE	S	SE - SC-CC-40M
30,0	44,5	W	WE	S	SE - SC-CC-50M
40,0	56,5	W	WE	S	SE - SC-CC-65M
40,0	58,5	W	WE	S	SE - SC-CC-80M
40,0	60,0	W	WE	S	SE - SC-CC-100M

CLAMPS		Double Pinned Wing Nut	Double Pinned Hex Nut
Size	Flange	Code	

mm	mm	Code	
0	34,00	CL-DP-WN-1	CL-DP-HN-1
0	50,50	CL-DP-WN-0	CL-DP-HN-0
2	64,00	CL-DP-WN-2	CL-DP-HN-2
2	77,50	CL-DP-WN-3	CL-DP-HN-3
2	91,00	CL-DP-WN-4	CL-DP-HN-4
3	106,00	CL-DP-WN-5	CL-DP-HN-5
4	119,00	CL-DP-WN-6	CL-DP-HN-6
5	130,00	CL-DP-WN-7	CL-DP-HN-7
6	167,00	CL-DP-WN-8	CL-DP-HN-8
8	183,00	CL-DP-WN-9	CL-DP-HN-9

Blue marked = Stock item Further dimensions and materials on request. Subject to alteration.

CLAMP GROOVE (MALE)		weldtron bf	weldtron ep	safetron bf	safetron ep
l <sub>s</sub>	h	■	■	■	■

mm	1.4435/316L	Size			
27,00	39,00	W	WE	S	SE - SC-CG-10M
27,00	39,00	W	WE	S	SE - SC-CG-15M
26,00	38,00	W	WE	S	SE - SC-CG-20M
26,00	40,00	W	WE	S	SE - SC-CG-25M
32,00	47,00	W	WE	S	SE - SC-CG-32M
31,00	47,00	W	WE	S	SE - SC-CG-40M
30,00	48,00	W	WE	S	SE - SC-CG-50M
40,00	61,00	W	WE	S	SE - SC-CG-65M
40,00	61,00	W	WE	S	SE - SC-CG-80M
40,00	66,00	W	WE	S	SE - SC-CG-100M



O-RING		EPDM	FPM/FEP*
DN	mm	Code	Code

DN	mm	Code	EPDM	FPM/FEP*
10	12,00 x 3,50	SC-GK-10M-0-	E	FF
15	18,00 x 3,50	SC-GK-15M-0-	E	FF
20	22,00 x 3,50	SC-GK-20M-0-	E	FF
25	28,00 x 3,50	SC-GK-25M-2-	E	FF
32	34,00 x 5,00	SC-GK-32M-2-	E	FF
40	40,00 x 5,00	SC-GK-42M-2-	E	FF
50	52,00 x 5,00	SC-GK-52M-3-	E	FF
65	68,00 x 5,00	SC-GK-65M-5-	E	FF
80	83,00 x 5,00	SC-GK-82M-6-	E	FF
100	102,00 x 5,00	SC-GK-122M-7-	E	FF

Blue marked = Stock item Further dimensions and materials on request. Subject to alteration. \*Material is not part of the DIN 11864

BLIND CLAMP COLLAR (FEMALE)		safetron bf	safetron ep
h	1.4435/316L	Code	

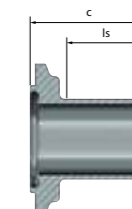
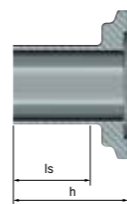
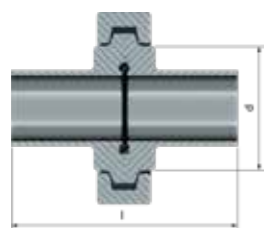
mm	1.4435/316L	Code	
11,50	S	SE	- SC-BCC-10M
11,50	S	SE	- SC-BCC-15M
11,50	S	SE	- SC-BCC-20M
11,50	S	SE	- SC-BCC-25M
11,50	S	SE	- SC-BCC-32M
11,50	S	SE	- SC-BCC-40M
13,50	S	SE	- SC-BCC-50M
13,50	S	SE	- SC-BCC-65M
13,50	S	SE	- SC-BCC-80M
13,50	S	SE	- SC-BCC-100M

Blue marked = Stock item Further dimensions and materials on request. Subject to alteration.

BLIND CLAMP GROOVE (MALE)		safetron bf	safetron ep
h	1.4435/316L	Code	

mm	1.4435/316L	Code	
13,00	S	SE	- SC-BCG-10M
13,00	S	SE	- SC-BCG-15M
13,00	S	SE	- SC-BCG-20M
13,00	S	SE	- SC-BCG-25M
13,00	S	SE	- SC-BCG-32M
13,00	S	SE	- SC-BCG-40M
15,00	S	SE	- SC-BCG-50M
15,00	S	SE	- SC-BCG-65M
15,00	S	SE	- SC-BCG-80M
15,00	S	SE	- SC-BCG-100M

**Clamp Connection acc. to DIN 11864-3**  
Line B / ISO



ISO	TUBE DIN 11866		COMPLETE CONNECTION	
	d x s	l	d	
DN	mm	mm		
8	13,50 x 1,60	80,00	38,00	
10	17,20 x 1,60	80,00	44,00	
15	21,30 x 1,60	80,00	54,00	
20	26,90 x 1,60	80,00	63,00	
25	33,70 x 2,00	90,00	70,00	
32	42,40 x 2,00	90,00	78,00	
40	48,30 x 2,00	90,00	92,00	
50	60,30 x 2,00	108,00	112,00	
65	76,10 x 2,00	116,00	127,00	
80	88,90 x 2,30	116,00	148,00	

CLAMP COLLAR (FEMALE)		weldtron bf	weldtron ep	safetron bf	safetron ep	Code	
l <sub>s</sub>	h					1.4435/316L	
mm						mm	
26,00	38,00	W	WE	S	SE	-	SC-CC-08I
26,00	38,00	W	WE	S	SE	-	SC-CC-10I
26,00	39,00	W	WE	S	SE	-	SC-CC-15I
30,00	39,00	W	WE	S	SE	-	SC-CC-20I
30,00	44,00	W	WE	S	SE	-	SC-CC-25I
30,00	44,00	W	WE	S	SE	-	SC-CC-32I
30,00	45,00	W	WE	S	SE	-	SC-CC-40I
30,00	57,00	W	WE	S	SE	-	SC-CC-50I
40,00	58,50	W	WE	S	SE	-	SC-CC-65I
40,00	61,00	W	WE	S	SE	-	SC-CC-80I

CLAMPS		Code	
Size	Flange	Double Pinned Wing Nut	Double Pinned Hex Nut
mm			
0	34,00	CL-DP-WN-0	CL-DP-HN-0
0	50,50	CL-DP-WN-2	CL-DP-HN-2
0	64,00	CL-DP-WN-3	CL-DP-HN-3
2	77,50	CL-DP-WN-4	CL-DP-HN-4
2	91,00	CL-DP-WN-5	CL-DP-HN-5
3	106,00	CL-DP-WN-6	CL-DP-HN-6
3	119,00	CL-DP-WN-7	CL-DP-HN-7
5	130,00	CL-SP-WN-8	CL-DP-HN-8
6	167,00	CL-SP-WN-9	CL-DP-HN-9
7	183,00		CL-DP-HN-10

CLAMP GROOVE (MALE)		weldtron bf	weldtron ep	safetron bf	safetron ep	Code	
l <sub>s</sub>	h					1.4435/316L	Size
mm						mm	
27,00	39,00	W	WE	S	SE	-	SC-CG-10M
27,00	39,00	W	WE	S	SE	-	SC-CG-15M
26,00	38,00	W	WE	S	SE	-	SC-CG-20M
26,00	40,00	W	WE	S	SE	-	SC-CG-25M
32,00	47,00	W	WE	S	SE	-	SC-CG-32M
31,00	47,00	W	WE	S	SE	-	SC-CG-40M
30,00	48,00	W	WE	S	SE	-	SC-CG-50M
40,00	61,00	W	WE	S	SE	-	SC-CG-65M
40,00	61,00	W	WE	S	SE	-	SC-CG-80M
40,00	66,00	W	WE	S	SE	-	SC-CG-100M

Blue marked = Stock item Further dimensions and materials on request. Subject to alteration.

Blue marked = Stock item Further dimensions and materials on request. Subject to alteration.



O-RING		Code	
d x s		EPDM	FPM/FEP*
mm			
8	12,00 x 3,50	SC-GK-08I-1-	E FF
10	16,00 x 3,50	SC-GK-10I-1-	E FF
15	20,00 x 3,50	SC-GK-15I-2-	E FF
20	26,00 x 3,50	SC-GK-20I-2-	E FF
25	32,00 x 5,00	SC-GK-25I-2-	E FF
32	40,50 x 5,00	SC-GK-32I-3-	E FF
40	46,50 x 5,00	SC-GK-40I-3-	E FF
50	58,50 x 5,00	SC-GK-50I-4-	E FF
65	73,50 x 5,00	SC-GK-65I-5-	E FF
80	86,50 x 5,00	SC-GK-80I-6-	E FF

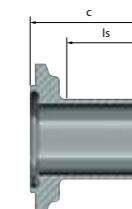
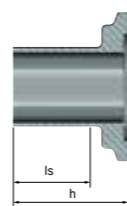
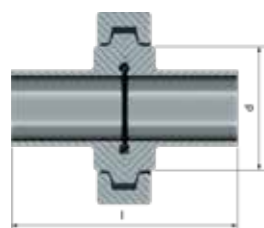
Blue marked = Stock item Further dimensions and materials on request. Subject to alteration.\*Material is not part of the DIN 11864

BLIND CLAMP COLLAR (FEMALE)		safetron bf	safetron ep	Code	
h				1.4435/316L	
mm					
11,50		S	SE	-	SC-BCC-08I
11,50		S	SE	-	SC-BCC-10I
11,50		S	SE	-	SC-BCC-15I
11,50		S	SE	-	SC-BCC-20I
11,50		S	SE	-	SC-BCC-25I
11,50		S	SE	-	SC-BCC-32I
11,50		S	SE	-	SC-BCC-40I
13,50		S	SE	-	SC-BCC-50I
13,50		S	SE	-	SC-BCC-65I
13,50		S	SE	-	SC-BCC-80I

Blue marked = Stock item Further dimensions and materials on request. Subject to alteration.

BLIND CLAMP GROOVE (MALE)		safetron bf	safetron ep	Code	
h				1.4435/316L	
mm					
13,00		S	SE	-	SC-BCG-08I
13,00		S	SE	-	SC-BCG-10I
13,00		S	SE	-	SC-BCG-15I
13,00		S	SE	-	SC-BCG-20I
13,00		S	SE	-	SC-BCG-25I
13,00		S	SE	-	SC-BCG-32I
13,00		S	SE	-	SC-BCG-40I
15,00		S	SE	-	SC-BCG-50I
15,00		S	SE	-	SC-BCG-65I
15,00		S	SE	-	SC-BCG-80I

**Clamp Connection acc. to DIN 11864-3**  
Line C / Imperial



Imperial	TUBE DIN 11866		COMPLETE CONNECTION	
	d x s	l	d	
Inch	mm	mm		
1/2"	12,70 x 1,65	76,00	38,00	
3/4"	19,05 x 1,65	76,00	44,00	
1"	25,40 x 1,65	77,00	63,00	
1 1/2"	38,10 x 1,65	88,00	78,00	
2"	50,80 x 1,65	89,00	92,00	
2 1/2"	63,50 x 1,65	115,00	112,00	
3"	76,20 x 1,65	117,00	127,00	
4"	101,60 x 2,11	119,00	148,00	

CLAMP COLLAR (FEMALE)		weldtron bf	weldtron ep	safetron bf	safetron ep	Code	
l <sub>s</sub>	h					1.4435/316L	
mm	mm						
26,00	38,00	W	WE	S	SE	-	SC-CC-08I
26,00	38,00	W	WE	S	SE	-	SC-CC-10I
26,00	38,50	W	WE	S	SE	-	SC-CC-15I
30,00	44,00	W	WE	S	SE	-	SC-CC-20I
30,00	44,50	W	WE	S	SE	-	SC-CC-25I
40,00	57,50	W	WE	S	SE	-	SC-CC-32I
40,00	58,50	W	WE	S	SE	-	SC-CC-40I
40,00	59,50	W	WE	S	SE	-	SC-CC-50I

CLAMPS		Double Pinned Wing Nut		Double Pinned Hex Nut		Code	
Size	Flange						
mm	mm						
0	34,00	CL-DP-WN-0		CL-DP-HN-0			
0	50,50	CL-DP-WN-2		CL-DP-HN-2			
2	64,00	CL-DP-WN-3		CL-DP-HN-3			
3	77,50	CL-DP-WN-4		CL-DP-HN-4			
4	91,00	CL-DP-WN-5		CL-DP-HN-5			
5	106,00	CL-DP-WN-6		CL-DP-HN-6			
6	119,00	CL-DP-WN-7		CL-DP-HN-7			
8	130,00	CL-DP-WN-8		CL-DP-HN-8			

CLAMP GROOVE (MALE)		weldtron bf	weldtron ep	safetron bf	safetron ep	Code	
l <sub>s</sub>	h					1.4435/316L	Size
mm	mm						
27,00	39,00	W	WE	S	SE	-	SC-CG-10M
27,00	39,00	W	WE	S	SE	-	SC-CG-15M
26,00	38,00	W	WE	S	SE	-	SC-CG-20M
26,00	40,00	W	WE	S	SE	-	SC-CG-25M
32,00	47,00	W	WE	S	SE	-	SC-CG-32M
31,00	47,00	W	WE	S	SE	-	SC-CG-40M
30,00	48,00	W	WE	S	SE	-	SC-CG-50M
40,00	61,00	W	WE	S	SE	-	SC-CG-65M

Blue marked = Stock item Further dimensions and materials on request. Subject to alteration.

Blue marked = Stock item Further dimensions and materials on request. Subject to alteration.



O-RING		Code		EPDM	FPM/FEP*
DN	mm				
mm	mm				
1/2"	12,00 x 3,50	SC-GK-08-1-	E	FF	
3/4"	18,00 x 3,50	SC-GK-12-1-	E	FF	
1"	24,00 x 3,50	SC-GK-16-2-	E	FF	
1 1/2"	37,00 x 5,00	SC-GK-24-2-	E	FF	
2"	50,00 x 5,00	SC-GK-32-3-	E	FF	
2 1/2"	62,00 x 5,00	SC-GK-40-4-	E	FF	
3"	75,00 x 5,00	SC-GK-48-5-	E	FF	
4"	100,00 x 5,00	SC-GK-64-7-	E	FF	

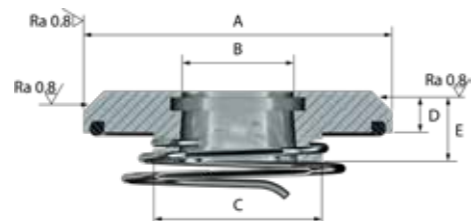
Blue marked = Stock item Further dimensions and materials on request. Subject to alteration. \*Material is not part of the DIN 11864

BLIND CLAMP COLLAR (FEMALE)		safetron bf	safetron ep	Code	
h					
mm	mm	1.4435/316L			
11,50		S	SE	-	SC-BCC-08
11,50		S	SE	-	SC-BCC-12
11,50		S	SE	-	SC-BCC-16
11,50		S	SE	-	SC-BCC-24
13,50		S	SE	-	SC-BCC-32
13,50		S	SE	-	SC-BCC-40
13,50		S	SE	-	SC-BCC-48
13,50		S	SE	-	SC-BCC-64

Blue marked = Stock item Further dimensions and materials on request. Subject to alteration.

BLIND CLAMP GROOVE (MALE)		safetron bf	safetron ep	Code	
h					
mm	mm	1.4435/316L			
13,00		S	SE	-	SC-BCG-08
13,00		S	SE	-	SC-BCG-12
13,00		S	SE	-	SC-BCG-16
13,00		S	SE	-	SC-BCG-24
15,00		S	SE	-	SC-BCG-32
15,00		S	SE	-	SC-BCG-40
15,00		S	SE	-	SC-BCG-48
15,00		S	SE	-	SC-BCG-64

**CleanShut**  
Wall and Ceiling Feedthroughs



**METRIC**

Size	OD Tube	A	B	C	D	E	Order Code				
DN	mm						Code		PVDF		
10	13,00	64,00	13,20	34,00	10,00	18,00	WFT	-	10M	-	PV
15	19,00	75,00	19,20	45,00	10,00	18,00	WFT	-	15M	-	PV
20	23,00	75,00	23,20	45,00	10,00	18,00	WFT	-	20M	-	PV
25	29,00	87,00	29,20	57,00	10,00	18,00	WFT	-	25M	-	PV
32	35,00	87,00	35,20	57,00	10,00	18,00	WFT	-	32M	-	PV
40	41,00	105,00	41,20	75,00	10,00	20,00	WFT	-	40M	-	PV
50	53,00	105,00	53,20	75,00	10,00	20,00	WFT	-	50M	-	PV
65	70,00	138,00	70,20	108,00	10,00	22,00	WFT	-	65M	-	PV
80	85,00	138,00	85,20	108,00	10,00	22,00	WFT	-	80M	-	PV
100	104,00	149,00	104,20	127,00	10,00	22,00	WFT	-	100M	-	PV

**ISO**

ISO	mm						Code		PVDF		
8	13,50	64,00	13,70	34,00	10,00	18,00	WFT	-	8I	-	PV
15	21,30	75,00	21,50	45,00	10,00	18,00	WFT	-	15I	-	PV
20	26,90	75,00	27,10	45,00	10,00	18,00	WFT	-	20I	-	PV
25	33,70	87,00	33,90	57,00	10,00	18,00	WFT	-	25I	-	PV
32	42,40	105,00	42,60	75,00	10,00	20,00	WFT	-	32I	-	PV
40	48,30	105,00	48,50	75,00	10,00	20,00	WFT	-	40I	-	PV
50	60,30	138,00	60,50	108,00	10,00	22,00	WFT	-	50I	-	PV
65	76,10	138,00	76,30	108,00	10,00	22,00	WFT	-	65I	-	PV
80	88,90	149,00	89,10	127,00	10,00	22,00	WFT	-	80I	-	PV

**IMPERIAL**

Inch	mm						Code		PVDF		
1/2	12,70	64,00	12,90	34,00	10,00	18,00	WFT	-	08	-	PV
3/4	19,05	75,00	19,25	45,00	10,00	18,00	WFT	-	12	-	PV
1	25,40	75,00	25,60	45,00	10,00	18,00	WFT	-	16	-	PV
1 1/2	38,10	105,00	38,30	75,00	10,00	20,00	WFT	-	24	-	PV
2	50,80	105,00	51,00	75,00	10,00	20,00	WFT	-	32	-	PV
2 1/2	63,50	138,00	63,70	108,00	10,00	22,00	WFT	-	40	-	PV
3	76,20	138,00	76,40	108,00	10,00	22,00	WFT	-	48	-	PV
4	101,60	149,00	101,80	127,00	10,00	22,00	WFT	-	64	-	PV

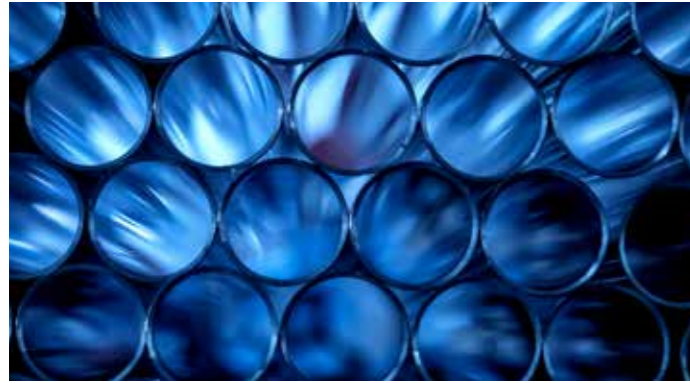
Blue marked = Stock item  
Further dimensions and materials on request. Subject to alteration.

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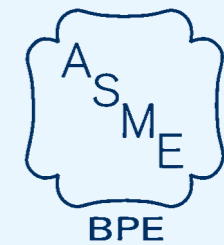
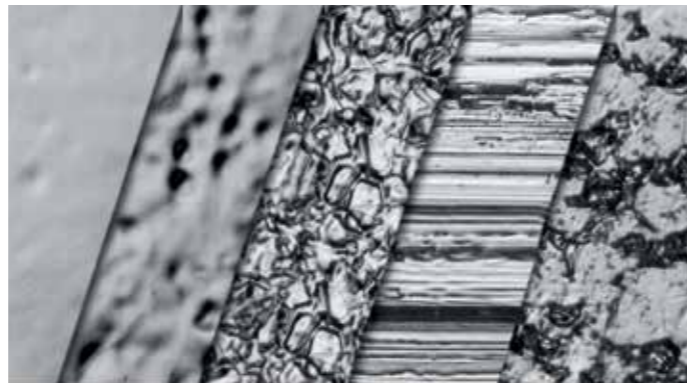


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