



D-ECKWEILER

connecting flow to **purity**

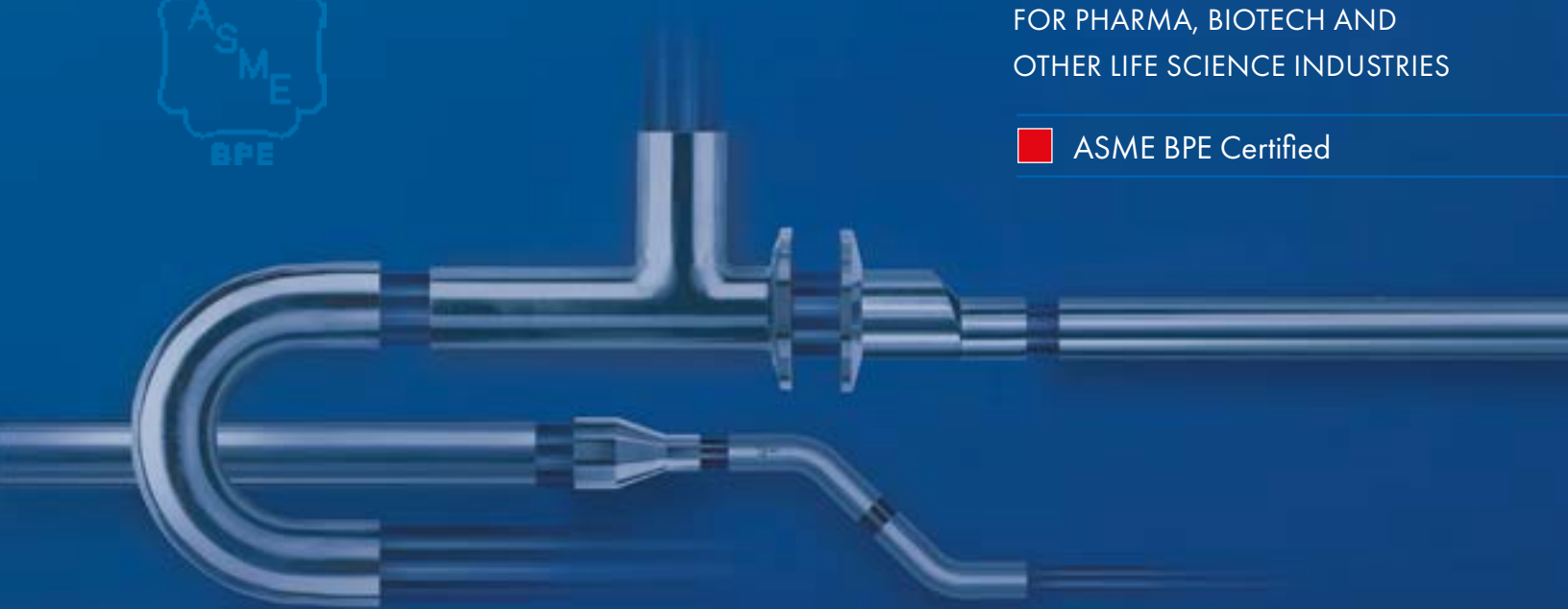
LIFE SCIENCE

TUBES, FITTINGS AND CONNECTIONS



FOR PHARMA, BIOTECH AND
OTHER LIFE SCIENCE INDUSTRIES

 ASME BPE Certified



NORTH AMERICA

ASME BPE Certified
Tubes and Fittings.
Highest purity up to Ra 15 µin.



Dockweiler quality
from raw material to delivery.
All certificates are available on:
www.dockweiler.com

Consistent 3.1 certificates
with all important information.
End-to-end documentation
and traceability.



Engineered components
for enhanced efficiency.
Weld seams in perfection and
ultimate quality.



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For Pharma, Biotech and other Life Science Industries


ASME BPE

-  **ASME BPE SF1 / Mechanically polished**
-  **ASME BPE SF4 / Electropolished**



1. SURFACES QUALITIES

Tubes and fittings:	Inner surface (mp)*
ASME BPE SF0 - on request	No finish requirements
 ASME BPE SF1	Ra max. ≤ 20 µin (0.51 µm)
ASME BPE SF2 - on request	Ra max. ≤ 25 µin (0.64 µm)
ASME BPE SF3 - on request	Ra max. ≤ 30 µin (0.76 µm)

Tubes and fittings:	Inner surface (ep)
 ASME BPE SF4	Ra max. ≤ 15 µin (0.38 µm)
ASME BPE SF5 - on request	Ra max. ≤ 20 µin (0.51 µm)
ASME BPE SF6 - on request	Ra max. ≤ 25 µin (0.64 µm)

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






 ASME BPE	UNS S31603 (316L)* UNS S31603 (316L) / 1.4404* UNS S31603 (316L) / 1.4435* * defined sulphur of 0.005 - 0.017%	UNS N08904 (904L) / 1.4539 UNS N06022 (C22) / 2.4602 UNS N08367 (AL-6XN)
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Hardness equivalent to:	<ul style="list-style-type: none"> - max. 180 HV* according to DIN EN ISO 6507-1 - max. 90 HRB* according to DIN EN ISO 6508-1 <p>* comparable to ASTM E-384 (HV) and ASTM E 18-22 (HRB)</p>
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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
Length of tubes:	min. 19.36 ft to max. 19.98 ft (6000 mm -100/+90)	
Manufacturing process:	Seamless tubes ≤ 1" OD (25.40 mm)	Welded tubes ≥ 1 1/2" OD (38.10 mm)

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 are prepared for orbital welding according to the following standards:

Tubes

acc. to ASTM A 269 / A 632 / A 312 (Pipe), DIN EN 10217-7 / 10216-5 with a length of 19.35 ft - 19.98 ft (5900 - 6090 mm), max. 10% short lengths of min. 9.84 ft (3000 mm)

Tube fitting components

Prematerial acc. to ASTM A 269 / A 632 / A 312 / A 403 (Pipe), DIN EN 10217-7 / 10216-5

Machined components

Prematerial acc. to ASTM A 479, DIN EN 10088-3, DIN 17440, ASTM A 182 (Pipe)

Marking always with

DOCKWEILER / DW-Number / Dimension / Material / Heat number

Tube, pipe 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

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

Mechanically polished tubes and fittings are closed with transparent PE caps and are individually sealed in PE foil.

Electropolished tubes and fittings are closed with yellow PE caps and are individually sealed in PE foil.

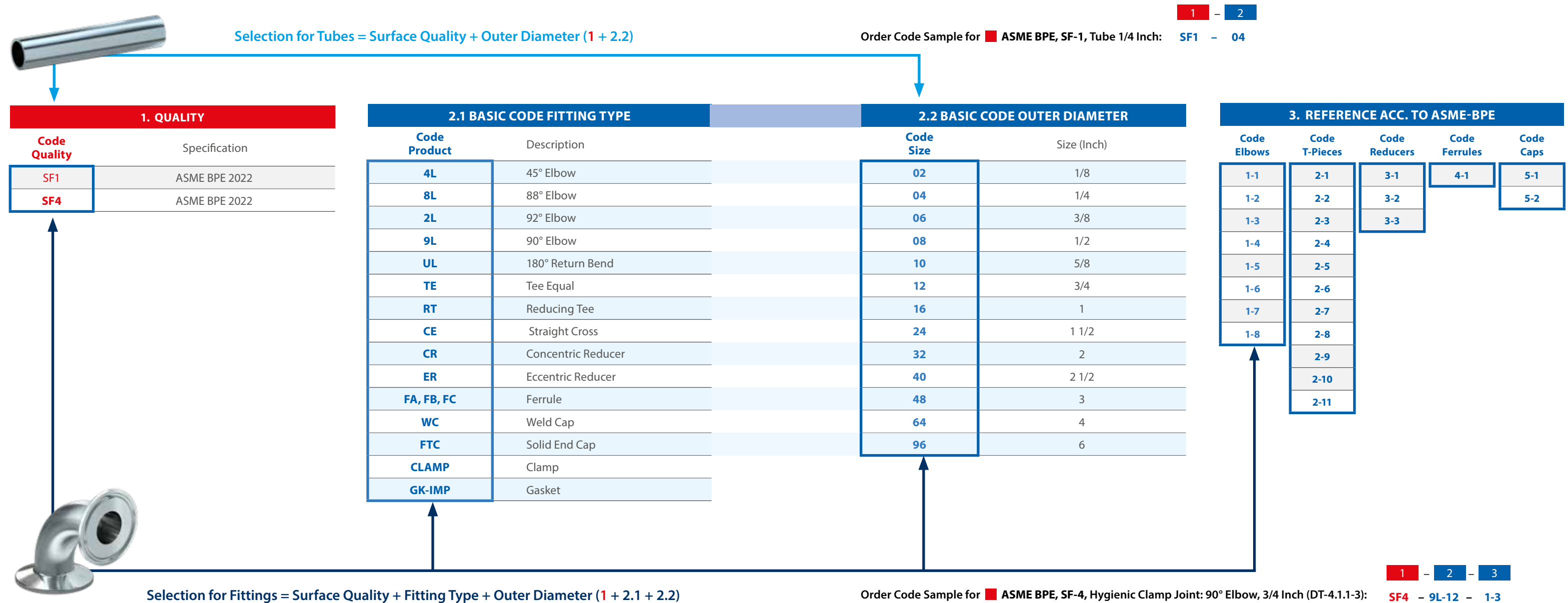
Delivery in tubular container or wooden crate, fittings in strong cardboard box with shock absorbing filler.

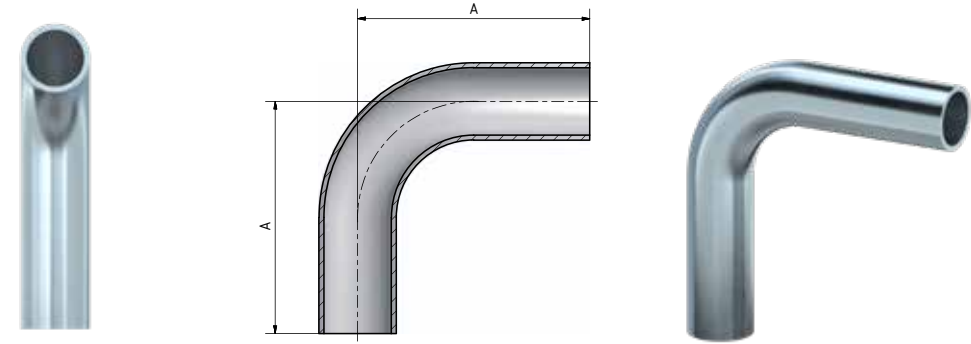
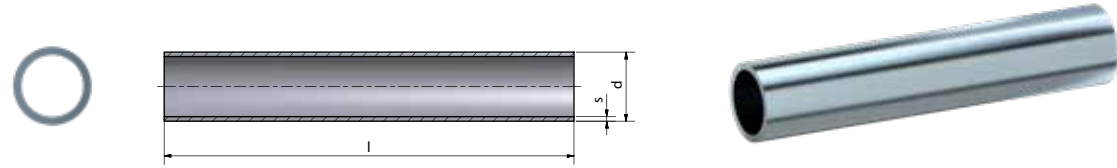
The batch label on the foil contains the information ASME BPE SF1 or ASME BPE SF4.

Dockweiler Order Code System: Easy to select and combine

The Dockweiler Order Code is built up of three elements:

- 1. Quality** of the inner surface (SF1 or SF4)
- 2. Product code** in combination with the respective **diameter**
- 3. Reference to ASME BPE** standard (the last two digits)





Nominal Size (d)		Wall Thickness (s)		ASME BPE / SF1 Mechanically polished ¹	ASME BPE / SF4 Electropolished ¹	Basic Code ²	ASME Ref. ³
Inch	mm	Inch	mm	316L			WW
1/4	6.35	0.035	0.89	SF1	SF4	- 04	- 1-1
3/8	9.53	0.035	0.89	SF1	SF4	- 06	- 1-1
1/2	12.70	0.065	1.65	SF1	SF4	- 08	- 1-1
3/4	19.05	0.065	1.65	SF1	SF4	- 12	- 1-1
1	25.40	0.065	1.65	SF1	SF4	- 16	- 1-1
1 1/2	38.10	0.065	1.65	SF1	SF4	- 24	- 1-1
2	50.80	0.065	1.65	SF1	SF4	- 32	- 1-1
2 1/2	63.50	0.065	1.65	SF1	SF4	- 40	- 1-1
3	76.20	0.065	1.65	SF1	SF4	- 48	- 1-1
4	101.60	0.083	2.11	SF1	SF4	- 64	- 1-1
6	152.40	0.109	2.77	SF1	SF4	- 96	- 1-1

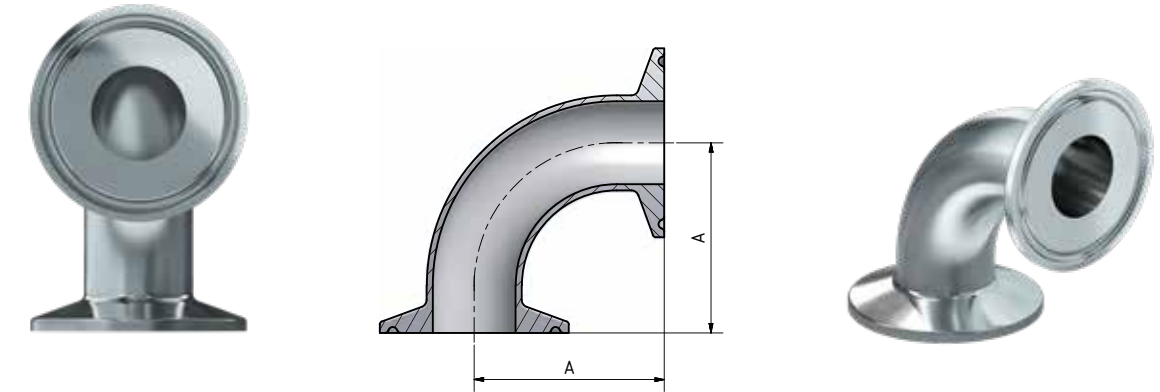
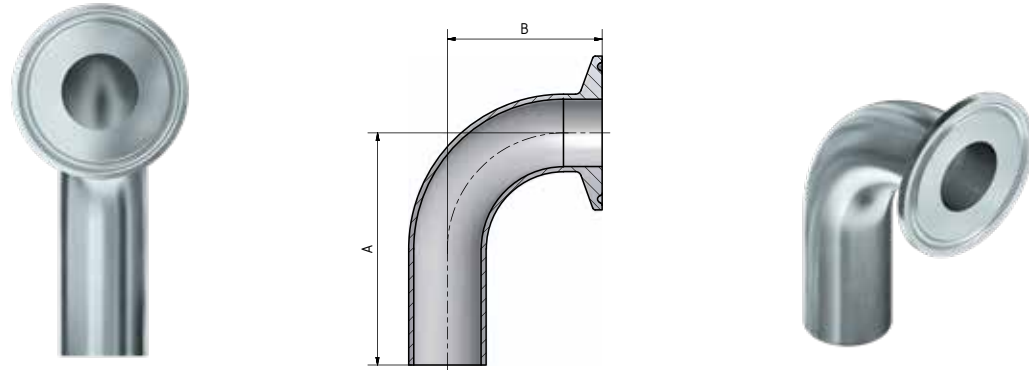
Further dimensions on request.

For Order Code please combine:
Product Quality¹- Basic Code²

Nominal Size (d)		A		ASME BPE / SF1 Mechanically polished ¹	ASME BPE / SF4 Electropolished ¹	Basic Code ²	ASME Ref. ³
Inch	mm	Inch	mm	316L			WW
1/4	6.35	2.625	66.70	SF1	SF4	- 9L-04	- 1-1
3/8	9.53	2.625	66.70	SF1	SF4	- 9L-06	- 1-1
1/2	12.70	3.000	76.20	SF1	SF4	- 9L-08	- 1-1
3/4	19.05	3.000	76.20	SF1	SF4	- 9L-12	- 1-1
1	25.40	3.000	76.20	SF1	SF4	- 9L-16	- 1-1
1 1/2	38.10	3.750	95.30	SF1	SF4	- 9L-24	- 1-1
2	50.80	4.750	120.70	SF1	SF4	- 9L-32	- 1-1
2 1/2	63.50	5.500	139.70	SF1	SF4	- 9L-40	- 1-1
3	76.20	6.250	158.80	SF1	SF4	- 9L-48	- 1-1
4	101.60	8.000	203.20	SF1	SF4	- 9L-64	- 1-1
6	152.40	11.500	292.10	SF1	SF4	- 9L-96	- 1-1

Further dimensions on request.

For Order Code please combine:
Product Quality¹- Basic Code² - Reference acc. to ASME BPE³



Nominal Size (d)		Weld End (A)		Clamp End (B)		ASME BPE / SF1 Mechanically polished ¹	ASME BPE / SF4 Electropolished ¹	Basic Code ²	ASME Ref. ³		
Inch	mm	Inch	mm	Inch	mm	316L		CW			
1/4	6.35	2.700	68.58	1.625	41.30	SF1	SF4	-	9L-04	-	1-2
3/8	9.53	2.700	68.58	1.625	41.30	SF1	SF4	-	9L-06	-	1-2
1/2	12.70	3.065	77.85	1.625	41.30	SF1	SF4	-	9L-08	-	1-2
3/4	19.05	3.065	77.85	1.625	41.30	SF1	SF4	-	9L-12	-	1-2
1	25.40	3.050	77.47	2.000	50.80	SF1	SF4	-	9L-16	-	1-2
1 1/2	38.10	3.800	96.52	2.750	69.90	SF1	SF4	-	9L-24	-	1-2
2	50.80	4.810	122.17	3.500	88.90	SF1	SF4	-	9L-32	-	1-2
2 1/2	63.50	5.560	141.22	4.250	108.00	SF1	SF4	-	9L-40	-	1-2
3	76.20	6.310	160.27	5.000	127.00	SF1	SF4	-	9L-48	-	1-2
4	101.60	8.065	204.85	6.625	168.30	SF1	SF4	-	9L-64	-	1-2
6	152.40	11.580	294.13	10.500	266.70	SF1	SF4	-	9L-96	-	1-2

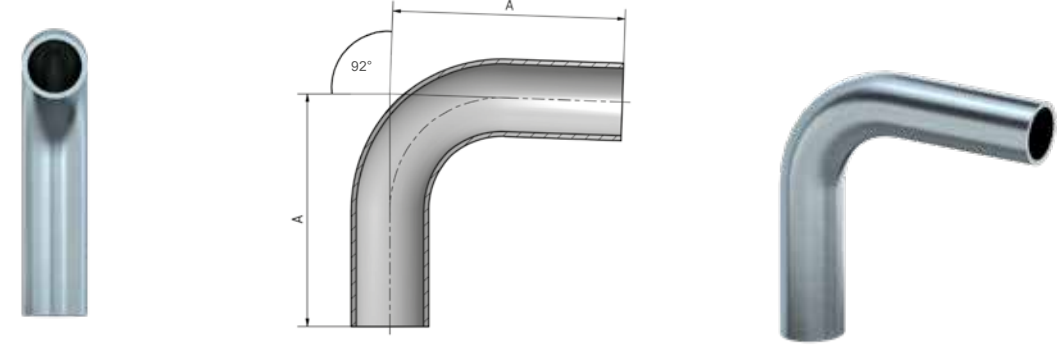
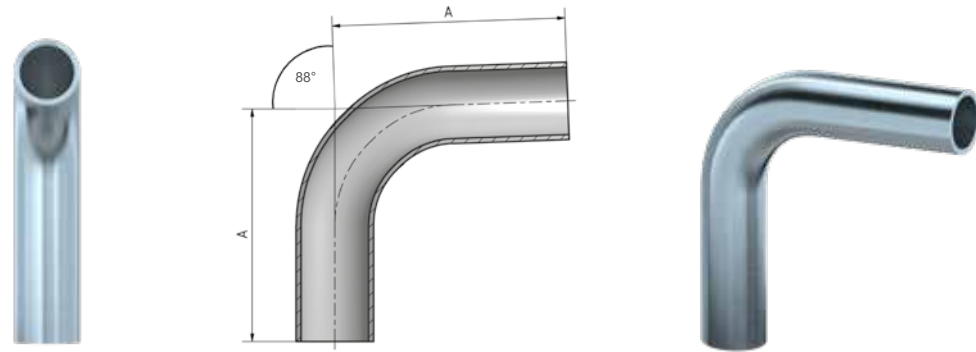
Further dimensions on request.

For Order Code please combine:
Product Quality¹ - Basic Code² - Reference acc. to ASME BPE³

Nominal Size (d)		Clamp End (A)		ASME BPE / SF1 Mechanically polished ¹	ASME BPE / SF4 Electropolished ¹	Basic Code ²	ASME Ref. ³		
Inch	mm	Inch	mm	316L		CC			
1/4	6.35	1.625	41.30	SF1	SF4	-	9L-04	-	1-3
3/8	9.53	1.625	41.30	SF1	SF4	-	9L-06	-	1-3
1/2	12.70	1.625	41.30	SF1	SF4	-	9L-08	-	1-3
3/4	19.05	1.625	41.30	SF1	SF4	-	9L-12	-	1-3
1	25.40	2.000	50.80	SF1	SF4	-	9L-16	-	1-3
1 1/2	38.10	2.750	69.90	SF1	SF4	-	9L-24	-	1-3
2	50.80	3.500	88.90	SF1	SF4	-	9L-32	-	1-3
2 1/2	63.50	4.250	108.00	SF1	SF4	-	9L-40	-	1-3
3	76.20	5.000	127.00	SF1	SF4	-	9L-48	-	1-3
4	101.60	6.625	168.30	SF1	SF4	-	9L-64	-	1-3
6	152.40	10.500	266.70	SF1	SF4	-	9L-96	-	1-3

Further dimensions on request.

For Order Code please combine:
Product Quality¹ - Basic Code² - Reference acc. to ASME BPE³



ASME BPE / SF1
Mechanically polished¹

ASME BPE / SF4
Electropolished¹

Basic Code²

ASME Ref.³

Nominal Size (d)		A		316L		WW	
Inch	mm	Inch	mm	SF1	SF4	-	
1/4	6.35	2.700	68.58	SF1	SF4	-	8L-04
3/8	9.53	2.700	68.58	SF1	SF4	-	8L-06
1/2	12.70	3.065	77.85	SF1	SF4	-	8L-08
3/4	19.05	3.065	77.85	SF1	SF4	-	8L-12
1	25.40	3.050	77.47	SF1	SF4	-	8L-16
1 1/2	38.10	3.800	96.52	SF1	SF4	-	8L-24
2	50.80	4.810	122.17	SF1	SF4	-	8L-32
2 1/2	63.50	5.560	141.22	SF1	SF4	-	8L-40
3	76.20	6.310	160.27	SF1	SF4	-	8L-48
4	101.60	8.065	204.85	SF1	SF4	-	8L-64
6	152.40	11.580	294.13	SF1	SF4	-	8L-96

For Order Code please combine:
Product Quality¹ - Basic Code² - Reference acc. to ASME BPE³

Further dimensions on request.

ASME BPE / SF1
Mechanically polished¹

ASME BPE / SF4
Electropolished¹

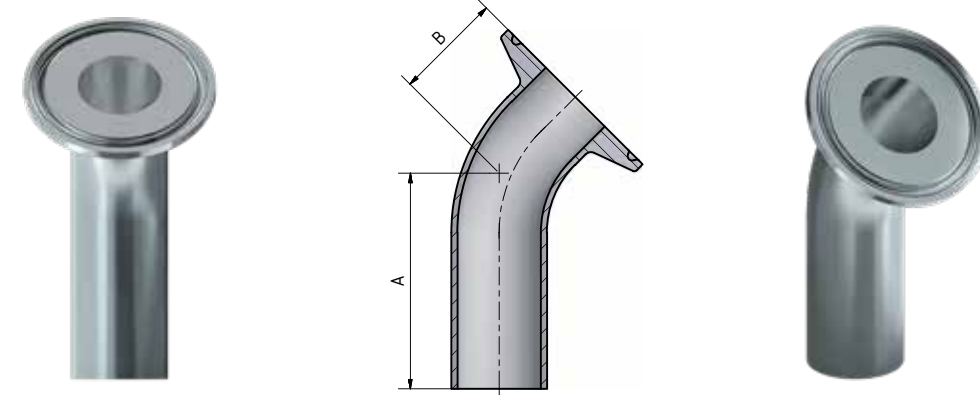
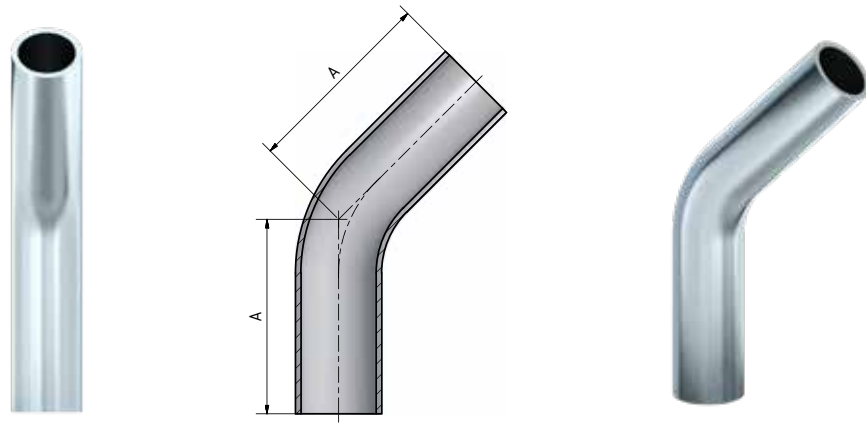
Basic Code²

ASME Ref.³

Nominal Size (d)		A		316L		WW	
Inch	mm	Inch	mm	SF1	SF4	-	
1/4	6.35	2.700	68.58	SF1	SF4	-	2L-04
3/8	9.53	2.700	68.58	SF1	SF4	-	2L-06
1/2	12.70	3.065	77.85	SF1	SF4	-	2L-08
3/4	19.05	3.065	77.85	SF1	SF4	-	2L-12
1	25.40	3.050	77.47	SF1	SF4	-	2L-16
1 1/2	38.10	3.800	96.52	SF1	SF4	-	2L-24
2	50.80	4.810	122.17	SF1	SF4	-	2L-32
2 1/2	63.50	5.560	141.22	SF1	SF4	-	2L-40
3	76.20	6.310	160.27	SF1	SF4	-	2L-48
4	101.60	8.065	204.85	SF1	SF4	-	2L-64
6	152.40	11.580	294.13	SF1	SF4	-	2L-96

For Order Code please combine:
Product Quality¹ - Basic Code² - Reference acc. to ASME BPE³

Further dimensions on request.



ASME BPE / SF1
Mechanically polished¹

ASME BPE / SF4
Electropolished¹

Basic Code²

ASME Ref.³

Nominal Size (d)		A		316L		Basic Code ²	ASME Ref. ³
Inch	mm	Inch	mm	SF1	SF4		WW
1/4	6.35	2.000	50.80	SF1	SF4	4L-04	1-4
3/8	9.53	2.000	50.80	SF1	SF4	4L-06	1-4
1/2	12.70	2.250	57.20	SF1	SF4	4L-08	1-4
3/4	19.05	2.250	57.20	SF1	SF4	4L-12	1-4
1	25.40	2.250	57.20	SF1	SF4	4L-16	1-4
1 1/2	38.10	2.500	63.50	SF1	SF4	4L-24	1-4
2	50.80	3.000	76.20	SF1	SF4	4L-32	1-4
2 1/2	63.50	3.375	85.70	SF1	SF4	4L-40	1-4
3	76.20	3.625	92.10	SF1	SF4	4L-48	1-4
4	101.60	4.500	114.30	SF1	SF4	4L-64	1-4
6	152.40	6.250	158.80	SF1	SF4	4L-96	1-4

Further dimensions on request.

For Order Code please combine:
Product Quality¹ - Basic Code² - Reference acc. to ASME BPE³

ASME BPE / SF1
Mechanically polished¹

ASME BPE / SF4
Electropolished¹

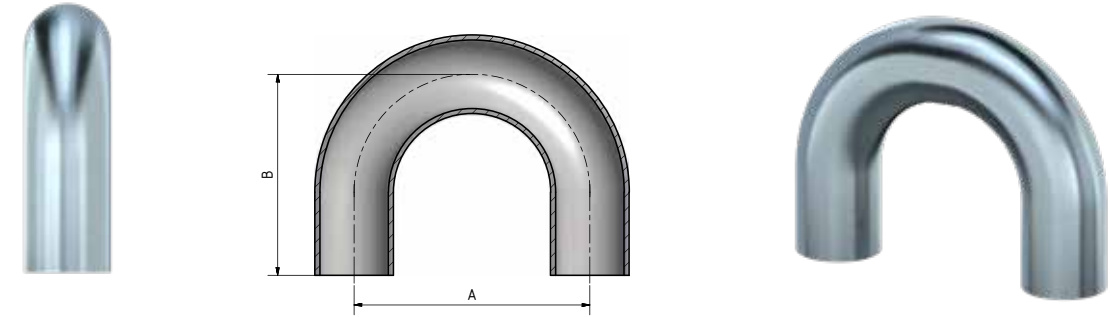
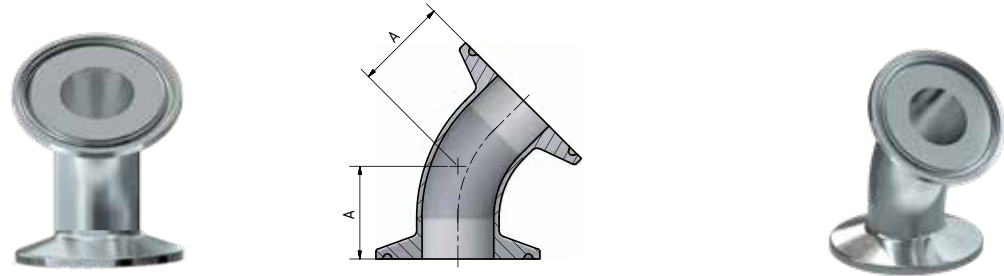
Basic Code²

ASME Ref.³

Nominal Size (d)		Weld End (A)		Clamp End (B)		316L		Basic Code ²	ASME Ref. ³
Inch	mm	Inch	mm	Inch	mm	SF1	SF4		CW
1/4	6.35	2.000	50.80	1.000	25.40	SF1	SF4	4L-04	1-5
3/8	9.53	2.000	50.80	1.000	25.40	SF1	SF4	4L-06	1-5
1/2	12.70	2.250	57.20	1.000	25.40	SF1	SF4	4L-08	1-5
3/4	19.05	2.250	57.20	1.000	25.40	SF1	SF4	4L-12	1-5
1	25.40	2.250	57.20	1.125	28.60	SF1	SF4	4L-16	1-5
1 1/2	38.10	2.500	63.50	1.438	36.50	SF1	SF4	4L-24	1-5
2	50.80	3.000	76.20	1.750	44.50	SF1	SF4	4L-32	1-5
2 1/2	63.50	3.375	85.70	2.063	52.40	SF1	SF4	4L-40	1-5
3	76.20	3.625	92.10	2.375	60.30	SF1	SF4	4L-48	1-5
4	101.60	4.500	114.30	3.125	79.40	SF1	SF4	4L-64	1-5
6	152.40	6.250	158.80	5.250	133.40	SF1	SF4	4L-96	1-5

Further dimensions on request.

For Order Code please combine:
Product Quality¹ - Basic Code² - Reference acc. to ASME BPE³



ASME BPE / SF1
Mechanically polished¹

ASME BPE / SF4
Electropolished¹

Basic Code²
ASME Ref.³

Nominal Size (d)		Clamp End (A)		316L		Basic Code ²	ASME Ref. ³
Inch	mm	Inch	mm	SF1	SF4		
1/4	6.35	1.000	25.40	SF1	SF4	4L-04	1-6
3/8	9.53	1.000	25.40	SF1	SF4	4L-06	1-6
1/2	12.70	1.000	25.40	SF1	SF4	4L-08	1-6
3/4	19.05	1.000	25.40	SF1	SF4	4L-12	1-6
1	25.40	1.125	28.60	SF1	SF4	4L-16	1-6
1 1/2	38.10	1.438	36.50	SF1	SF4	4L-24	1-6
2	50.80	1.750	44.50	SF1	SF4	4L-32	1-6
2 1/2	63.50	2.063	52.40	SF1	SF4	4L-40	1-6
3	76.20	2.375	60.30	SF1	SF4	4L-48	1-6
4	101.60	3.125	79.40	SF1	SF4	4L-64	1-6
6	152.40	5.250	133.40	SF1	SF4	4L-96	1-6

For Order Code please combine:
Product Quality¹ - Basic Code² - Reference acc. to ASME BPE³

Further dimensions on request.

ASME BPE / SF1
Mechanically polished¹

ASME BPE / SF4
Electropolished¹

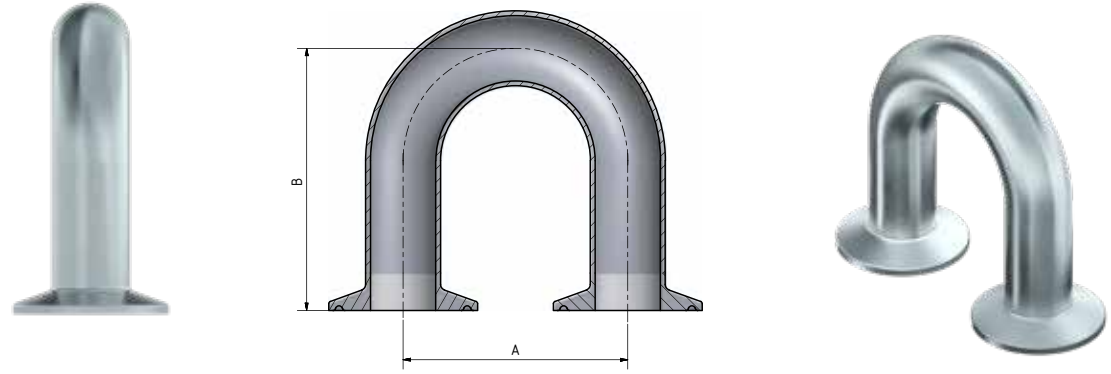
Basic Code²
ASME Ref.³

Nominal Size (d)		A		B		316L		Basic Code ²	ASME Ref. ³
Inch	mm	Inch	mm	Inch	mm	SF1	SF4		
1/4	6.35	4.500	114.30	2.625	66.70	SF1	SF4	UL-04	1-7
3/8	9.53	4.500	114.30	2.625	66.70	SF1	SF4	UL-06	1-7
1/2	12.70	4.500	114.30	3.000	76.20	SF1	SF4	UL-08	1-7
3/4	19.05	4.500	114.30	3.000	76.20	SF1	SF4	UL-12	1-7
1	25.40	3.000	76.20	3.000	76.20	SF1	SF4	UL-16	1-7
1 1/2	38.10	4.500	114.30	4.500	114.30	SF1	SF4	UL-24	1-7
2	50.80	6.000	152.40	5.000	127.00	SF1	SF4	UL-32	1-7
2 1/2	63.50	7.500	190.50	5.750	146.10	SF1	SF4	UL-40	1-7
3	76.20	9.000	228.60	6.500	165.10	SF1	SF4	UL-48	1-7
4	101.60	12.000	304.80	8.500	215.90	SF1	SF4	UL-64	1-7
6	152.40	18.000	457.20	11.500	292.10	SF1	SF4	UL-96	1-7

For Order Code please combine:
Product Quality¹ - Basic Code² - Reference acc. to ASME BPE³

Further dimensions on request.

DT-4.1.1-8
HYGIENIC CLAMP JOINT: 180° RETURN BEND



ASME BPE / SF1
Mechanically polished¹

ASME BPE / SF4
Electropolished¹

Basic Code²

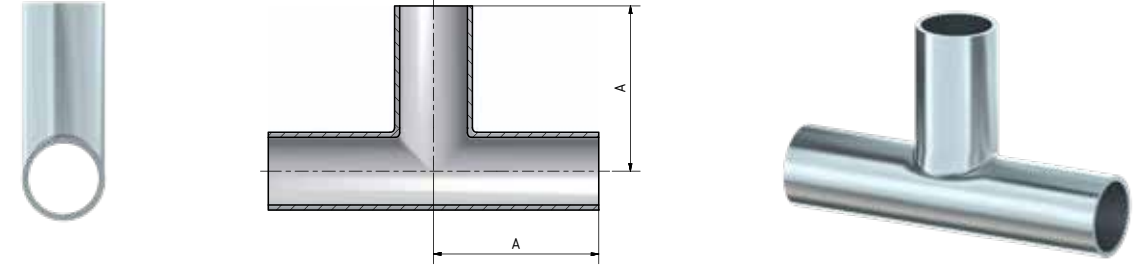
ASME Ref.³

Nominal Size (d)		A		B		316L		Basic Code ²	ASME Ref. ³
Inch	mm	Inch	mm	Inch	mm	SF1	SF4		CC
1/4	6.35	4.500	114.30	3.125	79.40	SF1	SF4	- UL-04	- 1-8
3/8	9.53	4.500	114.30	3.125	79.40	SF1	SF4	- UL-06	- 1-8
1/2	12.70	4.500	114.30	3.500	88.90	SF1	SF4	- UL-08	- 1-8
3/4	19.05	4.500	114.30	3.500	88.90	SF1	SF4	- UL-12	- 1-8
1	25.40	3.000	76.20	3.500	88.90	SF1	SF4	- UL-16	- 1-8
1 1/2	38.10	4.500	114.30	5.000	127.00	SF1	SF4	- UL-24	- 1-8
2	50.80	6.000	152.40	5.500	139.70	SF1	SF4	- UL-32	- 1-8
2 1/2	63.50	7.500	190.50	6.250	158.80	SF1	SF4	- UL-40	- 1-8
3	76.20	9.000	228.60	7.000	177.80	SF1	SF4	- UL-48	- 1-8
4	101.60	12.000	304.80	9.125	231.80	SF1	SF4	- UL-64	- 1-8
6	152.40	18.000	457.20	13.000	330.20	SF1	SF4	- UL-96	- 1-8

For Order Code please combine:
Product Quality¹ - Basic Code² - Reference acc. to ASME BPE³

Further dimensions on request.

DT-4.1.2-1
AUTOMATIC TUBE WELD: STRAIGHT TEE



ASME BPE / SF1
Mechanically polished¹

ASME BPE / SF4
Electropolished¹

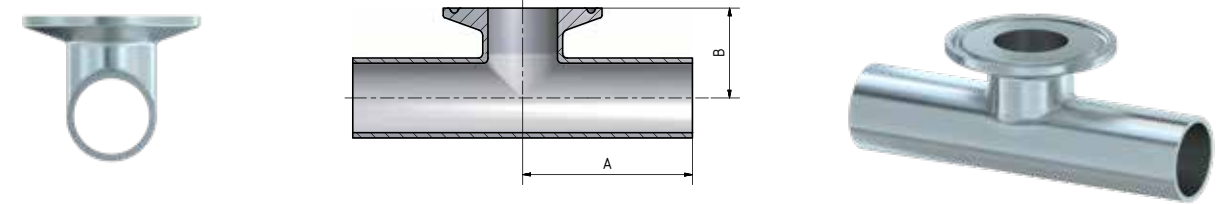
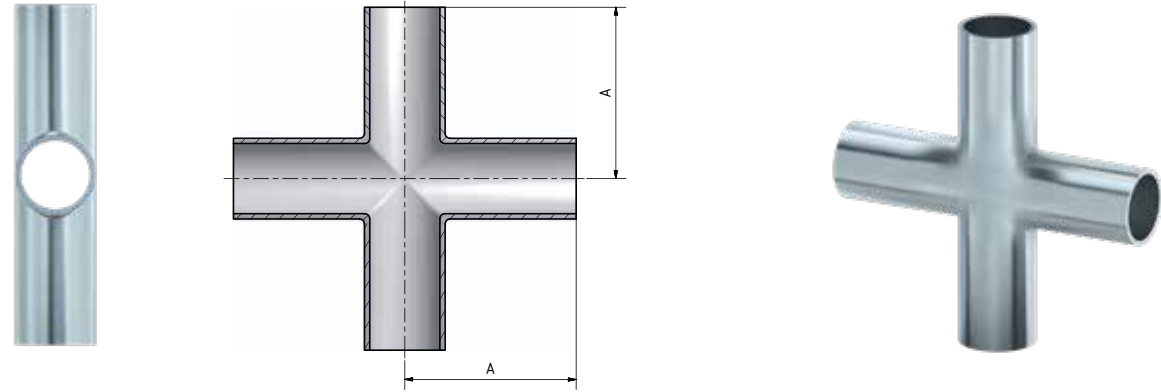
Basic Code²

ASME Ref.³

Nominal Size (d)		A		316L		Basic Code ²	ASME Ref. ³
Inch	mm	Inch	mm	SF1	SF4		WW
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

For Order Code please combine:
Product Quality¹ - Basic Code² - Reference acc. to ASME BPE³

Further dimensions on request.



ASME BPE / SF1
Mechanically polished¹

ASME BPE / SF4
Electropolished¹

Basic Code²

ASME Ref.³

Nominal Size (d)				A	ASME BPE / SF1 Mechanically polished ¹	ASME BPE / SF4 Electropolished ¹	Basic Code ²	ASME Ref. ³
Inch	mm	Inch	mm		316L		WWW	
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

For Order Code please combine:
Product Quality¹ - Basic Code² - Reference acc. to ASME BPE³

Further dimensions on request.

ASME BPE / SF1
Mechanically polished¹

ASME BPE / SF4
Electropolished¹

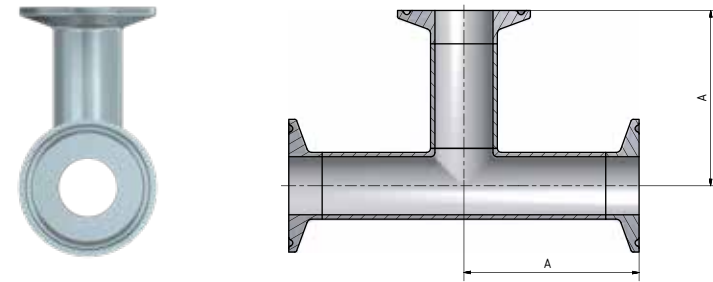
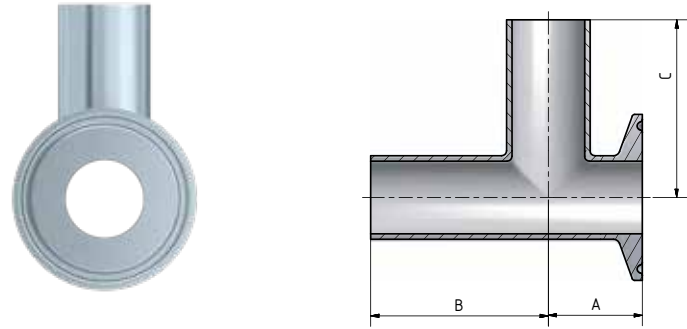
Basic Code²

ASME Ref.³

Nominal Size (d)						A	B	ASME BPE / SF1 Mechanically polished ¹	ASME BPE / SF4 Electropolished ¹	Basic Code ²	ASME Ref. ³
Inch	mm	Inch	mm	Inch	mm			316L		WCW	
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

For Order Code please combine:
Product Quality¹ - Basic Code² - Reference acc. to ASME BPE³

Further dimensions on request.



Nominal Size (d)		A		B		C		ASME BPE / SF1 Mechanically polished ¹	ASME BPE / SF4 Electropolished ¹	Basic Code ²	ASME Ref. ³
Inch	mm	Inch	mm	Inch	mm	Inch	mm	316L	316L	WWC	
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

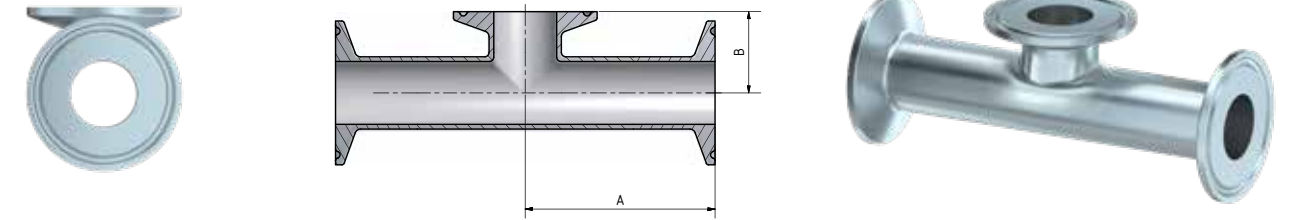
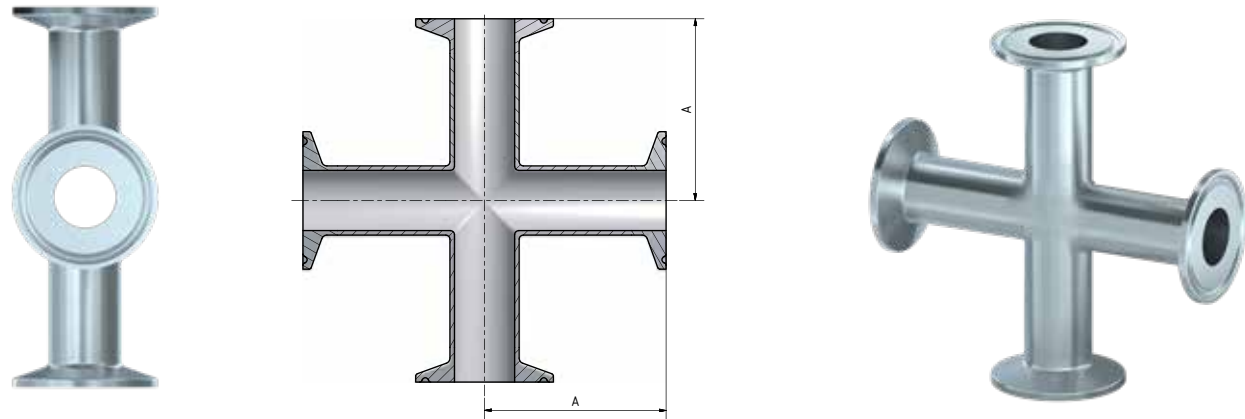
For Order Code please combine:
Product Quality¹- Basic Code² - Ref. acc. to ASME BPE³

Further dimensions on request.

Nominal Size (d)		A (L1)		ASME BPE / SF1 Mechanically polished ¹	ASME BPE / SF4 Electropolished ¹	Basic Code ²	ASME Ref. ³
Inch	mm	Inch	mm	316L	316L	CCC	
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

For Order Code please combine:
Product Quality¹- Basic Code² - Reference acc. to ASME BPE³

Further dimensions on request.



Nominal Size (d)		A		ASME BPE / SF1 Mechanically polished ¹	ASME BPE / SF4 Electropolished ¹	Basic Code ²	ASME Ref. ³
Inch	mm	Inch	mm	316L			CCCC
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

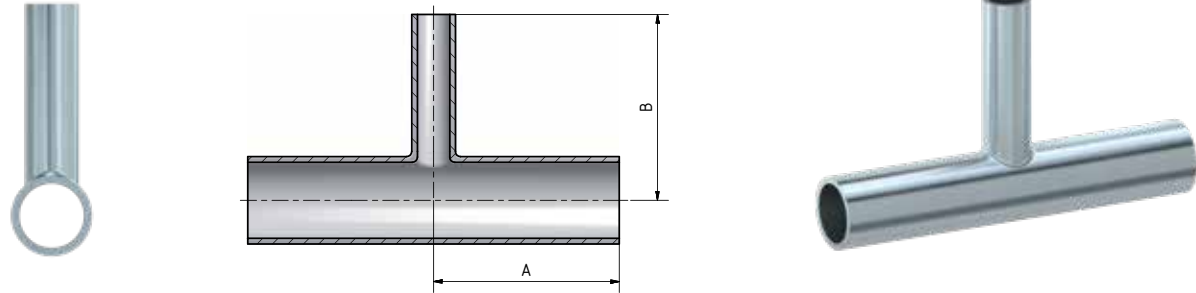
Further dimensions on request.

For Order Code please combine:
Product Quality¹ - Basic Code² - Reference acc. to ASME BPE³

Nominal Size (d)		A		B		ASME BPE / SF1 Mechanically polished ¹	ASME BPE / SF4 Electropolished ¹	Basic Code ²	ASME Ref. ³
Inch	mm	Inch	mm	Inch	mm	316L			CCC
1/4	6.35	1.750	44.50	1.000	25.40	SF1	SF4	-	TE-08 - 2-5
3/4	2.350	60.30	1.125	28.60	28.60	SF1	SF4	-	TE-12 - 2-5
1	2.625	66.70	1.125	28.60	28.60	SF1	SF4	-	TE-16 - 2-5
1 1/2	2.875	73.00	1.375	34.90	34.90	SF1	SF4	-	TE-24 - 2-5
2	3.375	85.70	1.625	41.30	41.30	SF1	SF4	-	TE-32 - 2-5
2 1/2	3.625	92.10	1.875	47.60	47.60	SF1	SF4	-	TE-40 - 2-5
3	3.875	98.40	2.125	54.00	54.00	SF1	SF4	-	TE-48 - 2-5
4	4.750	120.70	2.750	69.90	69.00	SF1	SF4	-	TE-64 - 2-5
6	7.125	181.00	4.625	117.50	117.50	SF1	SF4	-	TE-96 - 2-5

Further dimensions on request.

For Order Code please combine:
Product Quality¹ - Basic Code² - Reference acc. to ASME BPE³



Nominal Size (d)		A		B		ASME BPE / SF1 Mechanically polished ¹	ASME BPE / SF4 Electropolished ¹	Basic Code ²	ASME Ref. ³
Inch	mm	Inch	mm	Inch	mm				
						316L		WWW	
3/8 x 1/4	9.53 x 6.35	1.750	44.50	1.750	44.50	SF1	SF4	- RT-06-04	- 2-6
1/2 x 1/4	12.70 x 6.35	1.875	47.60	1.875	47.60	SF1	SF4	- RT-08-04	- 2-6
1/2 x 3/8	12.70 x 9.53	1.875	47.60	1.875	47.60	SF1	SF4	- RT-08-06	- 2-6
3/4 x 1/4	19.05 x 6.35	2.000	50.80	2.000	50.80	SF1	SF4	- RT-12-04	- 2-6
3/4 x 3/8	19.05 x 9.53	2.000	50.80	2.000	50.80	SF1	SF4	- RT-12-06	- 2-6
3/4 x 1/2	19.05 x 12.70	2.000	50.80	2.000	50.80	SF1	SF4	- RT-12-08	- 2-6
1 x 1/4	25.40 x 6.35	2.125	54.00	2.125	54.00	SF1	SF4	- RT-16-04	- 2-6
1 x 3/8	25.40 x 9.53	2.125	54.00	2.125	54.00	SF1	SF4	- RT-16-06	- 2-6
1 x 1/2	25.40 x 12.70	2.125	54.00	2.125	54.00	SF1	SF4	- RT-16-08	- 2-6
1 x 3/4	25.40 x 19.05	2.125	54.00	2.125	54.00	SF1	SF4	- RT-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	- RT-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	- RT-24-12	- 2-6
1 1/2 x 1	38.10 x 25.40	2.375	60.30	2.375	60.30	SF1	SF4	- RT-24-16	- 2-6
2 x 1/2	50.80 x 12.70	2.875	73.00	2.625	66.70	SF1	SF4	- RT-32-08	- 2-6
2 x 3/4	50.80 x 19.05	2.875	73.00	2.625	66.70	SF1	SF4	- RT-32-12	- 2-6
2 x 1	50.80 x 25.40	2.875	73.00	2.625	66.70	SF1	SF4	- RT-32-16	- 2-6
2 x 1 1/2	50.80 x 38.10	2.875	73.00	2.625	66.70	SF1	SF4	- RT-32-24	- 2-6

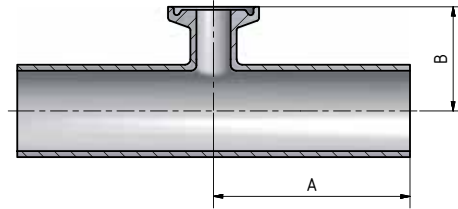
Further dimensions on request.

For Order Code please combine:
Product Quality¹ - Basic Code² - Ref. acc. to ASME BPE³

Nominal Size (d)		A		B		ASME BPE / SF1 Mechanically polished ¹	ASME BPE / SF4 Electropolished ¹	Basic Code ²	ASME Ref. ³
Inch	mm	Inch	mm	Inch	mm				
						316L		WWW	
2 1/2 x 1/2	63.50 x 12.70	3.125	79.40	2.875	73.00	SF1	SF4	- RT-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	- RT-40-12	- 2-6
2 1/2 x 1	63.50 x 25.40	3.125	79.40	2.875	73.00	SF1	SF4	- RT-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	- RT-40-24	- 2-6
2 1/2 x 2	63.50 x 50.80	3.125	79.40	2.875	73.00	SF1	SF4	- RT-40-32	- 2-6
3 x 1/2	76.20 x 12.70	3.375	85.70	3.125	79.40	SF1	SF4	- RT-48-08	- 2-6
3 x 3/4	76.20 x 19.05	3.375	85.70	3.125	79.40	SF1	SF4	- RT-48-12	- 2-6
3 x 1	76.20 x 25.40	3.375	85.70	3.125	79.40	SF1	SF4	- RT-48-16	- 2-6
3 x 1 1/2	76.20 x 38.10	3.375	85.70	3.125	79.40	SF1	SF4	- RT-48-24	- 2-6
3 x 2	76.20 x 50.80	3.375	85.70	3.125	79.40	SF1	SF4	- RT-48-32	- 2-6
3 x 2 1/2	76.20 x 63.50	3.375	85.70	3.125	79.40	SF1	SF4	- RT-48-40	- 2-6
4 x 1/2	101.60 x 12.70	4.125	104.80	3.625	92.10	SF1	SF4	- RT-64-08	- 2-6
4 x 3/4	101.60 x 19.05	4.125	104.80	3.625	92.10	SF1	SF4	- RT-64-12	- 2-6
4 x 1	101.60 x 25.40	4.125	104.80	3.625	92.10	SF1	SF4	- RT-64-16	- 2-6
4 x 1 1/2	101.60 x 38.10	4.125	104.80	3.625	92.10	SF1	SF4	- RT-64-24	- 2-6
4 x 2	101.60 x 50.80	4.125	104.80	3.875	98.40	SF1	SF4	- RT-64-32	- 2-6
4 x 2 1/2	101.60 x 63.50	4.125	104.80	3.875	98.40	SF1	SF4	- RT-64-40	- 2-6
4 x 3	101.60 x 76.20	4.125	104.80	3.875	98.40	SF1	SF4	- RT-64-48	- 2-6
6 x 1/2	152.40 x 12.70	5.625	142.90	4.625	117.48	SF1	SF4	- RT-96-08	- 2-6
6 x 3/4	152.40 x 19.05	5.625	142.90	4.625	117.48	SF1	SF4	- RT-96-12	- 2-6
6 x 1	152.40 x 25.40	5.625	142.90	4.625	117.48	SF1	SF4	- RT-96-16	- 2-6
6 x 1 1/2	152.40 x 38.10	5.625	142.90	4.625	117.48	SF1	SF4	- RT-96-24	- 2-6
6 x 2	152.40 x 50.80	5.625	142.90	4.625	117.48	SF1	SF4	- RT-96-32	- 2-6
6 x 2 1/2	152.40 x 63.50	5.625	142.90	4.625	117.48	SF1	SF4	- RT-96-40	- 2-6
6 x 3	152.40 x 76.20	5.625	142.90	4.875	123.80	SF1	SF4	- RT-96-48	- 2-6
6 x 4	152.40 x 101.60	5.625	142.90	5.125	130.20	SF1	SF4	- RT-96-64	- 2-6

Further dimensions on request.

For Order Code please combine:
Product Quality¹ - Basic Code² - Ref. acc. to ASME BPE³



Nominal Size (d)		A		B		ASME BPE / SF1 Mechanically polished ¹	ASME BPE / SF4 Electropolished ¹	Basic Code ²	ASME Ref. ³
Inch	mm	Inch	mm	Inch	mm				
						316L		WCW	
3/8 x 1/4	9.53 x 6.35	1.750	44.50	1.000	25.40	SF1	SF4	- RT-06-04	- 2-7
1/2 x 1/4	12.70 x 6.35	1.875	47.60	1.000	25.40	SF1	SF4	- RT-08-04	- 2-7
1/2 x 3/8	12.70 x 9.53	1.875	47.60	1.000	25.40	SF1	SF4	- RT-08-06	- 2-7
3/4 x 1/4	19.05 x 6.35	2.000	50.80	1.000	25.40	SF1	SF4	- RT-12-04	- 2-7
3/4 x 3/8	19.05 x 9.53	2.000	50.80	1.000	25.40	SF1	SF4	- RT-12-06	- 2-7
3/4 x 1/2	19.05 x 12.70	2.000	50.80	1.000	25.40	SF1	SF4	- RT-12-08	- 2-7
1 x 1/4	25.40 x 6.35	2.125	54.00	1.125	28.60	SF1	SF4	- RT-16-04	- 2-7
1 x 3/8	25.40 x 9.53	2.125	54.00	1.125	28.60	SF1	SF4	- RT-16-06	- 2-7
1 x 1/2	25.40 x 12.70	2.125	54.00	1.125	28.60	SF1	SF4	- RT-16-08	- 2-7
1 x 3/4	25.40 x 19.05	2.125	54.00	1.125	28.60	SF1	SF4	- RT-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	- RT-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	- RT-24-12	- 2-7
1 1/2 x 1	38.10 x 25.40	2.375	60.30	1.375	34.90	SF1	SF4	- RT-24-16	- 2-7
2 x 1/2	50.80 x 12.70	2.875	73.00	1.625	41.30	SF1	SF4	- RT-32-08	- 2-7
2 x 3/4	50.80 x 19.05	2.875	73.00	1.625	41.30	SF1	SF4	- RT-32-12	- 2-7
2 x 1	50.80 x 25.40	2.875	73.00	1.625	41.30	SF1	SF4	- RT-32-16	- 2-7
2 x 1 1/2	50.80 x 38.10	2.875	73.00	1.625	41.30	SF1	SF4	- RT-32-24	- 2-7

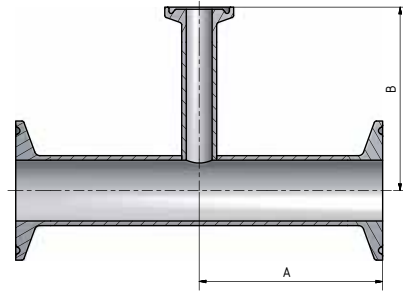
Further dimensions on request.

For Order Code please combine:
Product Quality¹ - Basic Code² - Ref. acc. to ASME BPE³

Nominal Size (d)		A		B		ASME BPE / SF1 Mechanically polished ¹	ASME BPE / SF4 Electropolished ¹	Basic Code ²	ASME Ref. ³
Inch	mm	Inch	mm	Inch	mm				
						316L		WCW	
2 1/2 x 1/2	63.50 x 12.70	3.125	79.40	1.875	47.60	SF1	SF4	- RT-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	- RT-40-12	- 2-7
2 1/2 x 1	63.50 x 25.40	3.125	79.40	1.875	47.60	SF1	SF4	- RT-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	- RT-40-24	- 2-7
2 1/2 x 2	63.50 x 50.80	3.125	79.40	1.875	47.60	SF1	SF4	- RT-40-32	- 2-7
3 x 1/2	76.20 x 12.70	3.375	85.70	2.125	54.00	SF1	SF4	- RT-48-08	- 2-7
3 x 3/4	76.20 x 19.05	3.375	85.70	2.125	54.00	SF1	SF4	- RT-48-12	- 2-7
3 x 1	76.20 x 25.40	3.375	85.70	2.125	54.00	SF1	SF4	- RT-48-16	- 2-7
3 x 1 1/2	76.20 x 38.10	3.375	85.70	2.125	54.00	SF1	SF4	- RT-48-24	- 2-7
3 x 2	76.20 x 50.80	3.375	85.70	2.125	54.00	SF1	SF4	- RT-48-32	- 2-7
3 x 2 1/2	76.20 x 63.50	3.375	85.70	2.125	54.00	SF1	SF4	- RT-48-40	- 2-7
4 x 1/2	101.60 x 12.70	4.125	104.80	2.625	66.70	SF1	SF4	- RT-64-08	- 2-7
4 x 3/4	101.60 x 19.05	4.125	104.80	2.625	66.70	SF1	SF4	- RT-64-12	- 2-7
4 x 1	101.60 x 25.40	4.125	104.80	2.625	66.70	SF1	SF4	- RT-64-16	- 2-7
4 x 1 1/2	101.60 x 38.10	4.125	104.80	2.625	66.70	SF1	SF4	- RT-64-24	- 2-7
4 x 2	101.60 x 50.80	4.125	104.80	2.625	66.70	SF1	SF4	- RT-64-32	- 2-7
4 x 2 1/2	101.60 x 63.50	4.125	104.80	2.625	66.70	SF1	SF4	- RT-64-40	- 2-7
4 x 3	101.60 x 76.20	4.125	104.80	2.625	66.70	SF1	SF4	- RT-64-48	- 2-7
6 x 1/2	152.40 x 12.70	5.625	142.90	3.625	92.10	SF1	SF4	- RT-96-48	- 2-7
6 x 3/4	152.40 x 19.05	5.625	142.90	3.625	92.10	SF1	SF4	- RT-96-08	- 2-7
6 x 1	152.40 x 25.40	5.625	142.90	3.625	92.10	SF1	SF4	- RT-96-16	- 2-7
6 x 1 1/2	152.40 x 38.10	5.625	142.90	3.625	92.10	SF1	SF4	- RT-96-24	- 2-7
6 x 2	152.40 x 50.80	5.625	142.90	3.625	92.10	SF1	SF4	- RT-96-32	- 2-7
6 x 2 1/2	152.40 x 63.50	5.625	142.90	3.625	92.10	SF1	SF4	- RT-96-40	- 2-7
6 x 3	152.40 x 76.20	5.625	142.90	3.625	92.10	SF1	SF4	- RT-96-48	- 2-7
6 x 4	152.40 x 101.60	5.625	142.90	3.750	95.30	SF1	SF4	- RT-96-64	- 2-7

Further dimensions on request.

For Order Code please combine:
Product Quality¹ - Basic Code² - Ref. acc. to ASME BPE³



Nominal Size (d)		A		B		ASME BPE / SF1 Mechanically polished ¹	ASME BPE / SF4 Electropolished ¹	Basic Code ²	ASME Ref. ³
Inch	mm	Inch	mm	Inch	mm				
						316L		CCC	
3/8 x 1/4	9.53 x 6.35	2.250	57.20	2.250	57.20	SF1	SF4	- RT-06-04	- 2-8
1/2 x 1/4	12.70 x 6.35	2.375	60.30	2.375	60.30	SF1	SF4	- RT-08-04	- 2-8
1/2 x 3/8	12.70 x 9.53	2.375	60.30	2.375	60.30	SF1	SF4	- RT-08-06	- 2-8
3/4 x 1/4	19.05 x 6.35	2.500	63.50	2.500	63.50	SF1	SF4	- RT-12-04	- 2-8
3/4 x 3/8	19.05 x 9.53	2.500	63.50	2.500	63.50	SF1	SF4	- RT-12-06	- 2-8
3/4 x 1/2	19.05 x 12.70	2.500	63.50	2.500	63.50	SF1	SF4	- RT-12-08	- 2-8
1 x 1/4	25.40 x 6.35	2.625	66.70	2.625	66.70	SF1	SF4	- RT-16-04	- 2-8
1 x 3/8	25.40 x 9.53	2.625	66.70	2.625	66.70	SF1	SF4	- RT-16-06	- 2-8
1 x 1/2	25.40 x 12.70	2.625	66.70	2.625	66.70	SF1	SF4	- RT-16-08	- 2-8
1 x 3/4	25.40 x 19.05	2.625	66.70	2.625	66.70	SF1	SF4	- RT-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	- RT-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	- RT-24-12	- 2-8
1 1/2 x 1	38.10 x 25.40	2.875	73.00	2.875	73.00	SF1	SF4	- RT-24-16	- 2-8
2 x 1/2	50.80 x 12.70	3.375	85.70	3.125	79.40	SF1	SF4	- RT-32-08	- 2-8
2 x 3/4	50.80 x 19.05	3.375	85.70	3.125	79.40	SF1	SF4	- RT-32-12	- 2-8
2 x 1	50.80 x 25.40	3.375	85.70	3.125	79.40	SF1	SF4	- RT-32-16	- 2-8
2 x 1 1/2	50.80 x 38.10	3.375	85.70	3.125	79.40	SF1	SF4	- RT-32-24	- 2-8

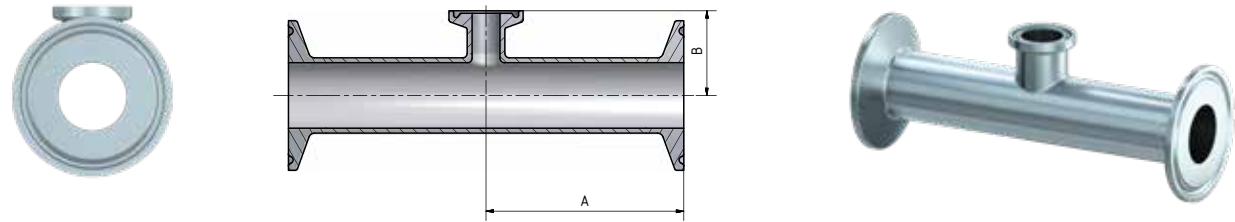
Further dimensions on request.

For Order Code please combine:
Product Quality¹- Basic Code²- Ref. acc.to ASME BPE³

Nominal Size (d)		A		B		ASME BPE / SF1 Mechanically polished ¹	ASME BPE / SF4 Electropolished ¹	Basic Code ²	ASME Ref. ³
Inch	mm	Inch	mm	Inch	mm				
						316L		CCC	
2 1/2 x 1/2	63.50 x 12.70	3.625	92.10	3.375	85.70	SF1	SF4	- RT-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	- RT-40-12	- 2-8
2 1/2 x 1	63.50 x 25.40	3.625	92.10	3.375	85.70	SF1	SF4	- RT-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	- RT-40-24	- 2-8
2 1/2 x 2	63.50 x 50.80	3.625	92.10	3.375	85.70	SF1	SF4	- RT-40-32	- 2-8
3 x 1/2	76.20 x 12.70	3.875	98.40	3.625	92.10	SF1	SF4	- RT-48-08	- 2-8
3 x 3/4	76.20 x 19.05	3.875	98.40	3.625	92.10	SF1	SF4	- RT-48-12	- 2-8
3 x 1	76.20 x 25.40	3.875	98.40	3.625	92.10	SF1	SF4	- RT-48-16	- 2-8
3 x 1 1/2	76.20 x 38.10	3.875	98.40	3.625	92.10	SF1	SF4	- RT-48-24	- 2-8
3 x 2	76.20 x 50.80	3.875	98.40	3.625	92.10	SF1	SF4	- RT-48-32	- 2-8
3 x 2 1/2	76.20 x 63.50	3.875	98.40	3.625	92.10	SF1	SF4	- RT-48-40	- 2-8
4 x 1/2	101.60 x 12.70	4.750	120.70	4.125	104.80	SF1	SF4	- RT-64-08	- 2-8
4 x 3/4	101.60 x 19.05	4.750	120.70	4.125	104.80	SF1	SF4	- RT-64-12	- 2-8
4 x 1	101.60 x 25.40	4.750	120.70	4.125	104.80	SF1	SF4	- RT-64-16	- 2-8
4 x 1 1/2	101.60 x 38.10	4.750	120.70	4.125	104.80	SF1	SF4	- RT-64-24	- 2-8
4 x 2	101.60 x 50.80	4.750	120.70	4.375	111.10	SF1	SF4	- RT-64-32	- 2-8
4 x 2 1/2	101.60 x 63.50	4.750	120.70	4.375	111.10	SF1	SF4	- RT-64-40	- 2-8
4 x 3	101.60 x 76.20	4.750	120.70	4.375	111.10	SF1	SF4	- RT-64-48	- 2-8
6 x 1/2	152.40 x 12.70	7.125	180.98	5.125	130.18	SF1	SF4	- RT-96-08	- 2-8
6 x 3/4	152.40 x 19.05	7.125	180.98	5.125	130.18	SF1	SF4	- RT-96-12	- 2-8
6 x 1	152.40 x 25.40	7.125	180.98	5.125	130.18	SF1	SF4	- RT-96-16	- 2-8
6 x 1 1/2	152.40 x 38.10	7.125	180.98	5.125	130.18	SF1	SF4	- RT-96-24	- 2-8
6 x 2	152.40 x 50.80	7.125	180.98	5.125	130.18	SF1	SF4	- RT-96-32	- 2-8
6 x 2 1/2	152.40 x 63.50	7.125	180.98	5.125	130.18	SF1	SF4	- RT-96-40	- 2-8
6 x 3	152.40 x 76.20	7.125	181.00	5.375	136.50	SF1	SF4	- RT-96-48	- 2-8
6 x 4	152.40 x 101.60	7.125	181.00	5.750	146.10	SF1	SF4	- RT-96-64	- 2-8

Further dimensions on request.

For Order Code please combine:
Product Quality¹- Basic Code²- Ref. acc. to ASME BPE³



Nominal Size (d)		A		B		ASME BPE / SF1 Mechanically polished ¹	ASME BPE / SF4 Electropolished ¹	Basic Code ²	ASME Ref. ³
Inch	mm	Inch	mm	Inch	mm				
						316L		CCC	
3/8 x 1/4	9.53 x 6.35	2.250	57.20	1.000	25.40	SF1	SF4	- RT-06-04	- 2-9
1/2 x 1/4	12.70 x 6.35	2.375	60.30	1.000	25.40	SF1	SF4	- RT-08-04	- 2-9
1/2 x 3/8	12.70 x 9.53	2.375	60.30	1.000	25.40	SF1	SF4	- RT-08-06	- 2-9
3/4 x 1/4	19.05 x 6.35	2.500	63.50	1.000	25.40	SF1	SF4	- RT-12-04	- 2-9
3/4 x 3/8	19.05 x 9.53	2.500	63.50	1.000	25.40	SF1	SF4	- RT-12-06	- 2-9
3/4 x 1/2	19.05 x 12.70	2.500	63.50	1.000	25.40	SF1	SF4	- RT-12-08	- 2-9
1 x 1/4	25.40 x 6.35	2.625	66.70	1.125	28.60	SF1	SF4	- RT-16-04	- 2-9
1 x 3/8	25.40 x 9.53	2.625	66.70	1.125	28.60	SF1	SF4	- RT-16-06	- 2-9
1 x 1/2	25.40 x 12.70	2.625	66.70	1.125	28.60	SF1	SF4	- RT-16-08	- 2-9
1 x 3/4	25.40 x 19.05	2.625	66.70	1.125	28.60	SF1	SF4	- RT-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	- RT-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	- RT-24-12	- 2-9
1 1/2 x 1	38.10 x 25.40	2.875	73.00	1.375	34.90	SF1	SF4	- RT-24-16	- 2-9
2 x 1/2	50.80 x 12.70	3.375	85.70	1.625	41.30	SF1	SF4	- RT-32-08	- 2-9
2 x 3/4	50.80 x 19.05	3.375	85.70	1.625	41.30	SF1	SF4	- RT-32-12	- 2-9
2 x 1	50.80 x 25.40	3.375	85.70	1.625	41.30	SF1	SF4	- RT-32-16	- 2-9
2 x 1 1/2	50.80 x 38.10	3.375	85.70	1.625	41.30	SF1	SF4	- RT-32-24	- 2-9

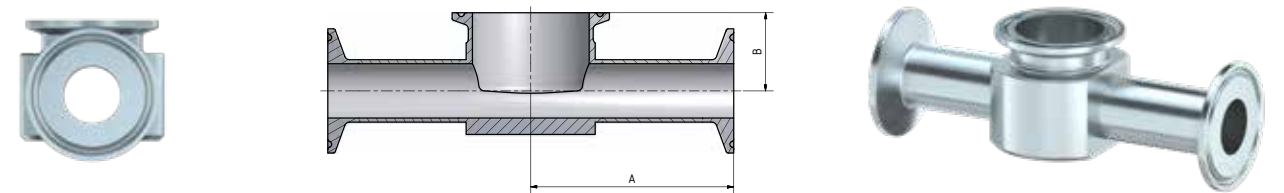
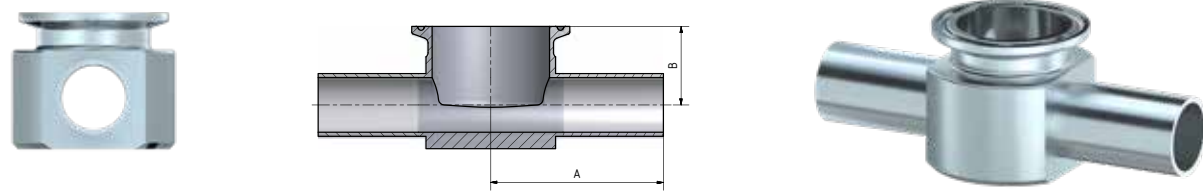
Further dimensions on request.

For Order Code please combine:
Product Quality¹- Basic Code²- Ref. acc. to ASME BPE³

Nominal Size (d)		A		B		ASME BPE / SF1 Mechanically polished ¹	ASME BPE / SF4 Electropolished ¹	Basic Code ²	ASME Ref. ³
Inch	mm	Inch	mm	Inch	mm				
						316L		CCC	
2 1/2 x 1/2	63.50 x 12.70	3.625	92.10	1.875	47.60	SF1	SF4	- RT-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	- RT-40-12	- 2-9
2 1/2 x 1	63.50 x 25.40	3.625	92.10	1.875	47.60	SF1	SF4	- RT-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	- RT-40-24	- 2-9
2 1/2 x 2	63.50 x 50.80	3.625	92.10	1.875	47.60	SF1	SF4	- RT-40-32	- 2-9
3 x 1/2	76.20 x 12.70	3.875	98.40	2.125	54.00	SF1	SF4	- RT-48-08	- 2-9
3 x 3/4	76.20 x 19.05	3.875	98.40	2.125	54.00	SF1	SF4	- RT-48-12	- 2-9
3 x 1	76.20 x 25.40	3.875	98.40	2.125	54.00	SF1	SF4	- RT-48-16	- 2-9
3 x 1 1/2	76.20 x 38.10	3.875	98.40	2.125	54.00	SF1	SF4	- RT-48-24	- 2-9
3 x 2	76.20 x 50.80	3.875	98.40	2.125	54.00	SF1	SF4	- RT-48-32	- 2-9
3 x 2 1/2	76.20 x 63.50	3.875	98.40	2.125	54.00	SF1	SF4	- RT-48-40	- 2-9
4 x 1/2	101.60 x 12.70	4.750	120.70	2.625	66.70	SF1	SF4	- RT-64-08	- 2-9
4 x 3/4	101.60 x 19.05	4.750	120.70	2.625	66.70	SF1	SF4	- RT-64-12	- 2-9
4 x 1	101.60 x 25.40	4.750	120.70	2.625	66.70	SF1	SF4	- RT-64-16	- 2-9
4 x 1 1/2	101.60 x 38.10	4.750	120.70	2.625	66.70	SF1	SF4	- RT-64-24	- 2-9
4 x 2	101.60 x 50.80	4.750	120.70	2.625	66.70	SF1	SF4	- RT-64-32	- 2-9
4 x 2 1/2	101.60 x 63.50	4.750	120.70	2.625	66.70	SF1	SF4	- RT-64-40	- 2-9
4 x 3	101.60 x 76.20	4.750	120.70	2.625	66.70	SF1	SF4	- RT-64-48	- 2-9
6 x 1/2	152.40 x 12.70	7.125	181.00	3.625	92.10	SF1	SF4	- RT-96-08	- 2-9
6 x 3/4	152.40 x 19.05	7.125	181.00	3.625	92.10	SF1	SF4	- RT-96-12	- 2-9
6 x 1	152.40 x 25.40	7.125	181.00	3.625	92.10	SF1	SF4	- RT-96-16	- 2-9
6 x 1 1/2	152.40 x 38.10	7.125	181.00	3.625	92.10	SF1	SF4	- RT-96-24	- 2-9
6 x 2	152.40 x 50.80	7.125	181.00	3.625	92.10	SF1	SF4	- RT-96-32	- 2-9
6 x 2 1/2	152.40 x 63.50	7.125	181.00	3.625	92.10	SF1	SF4	- RT-96-40	- 2-9
6 x 3	152.40 x 76.20	7.125	181.00	3.625	92.10	SF1	SF4	- RT-96-48	- 2-9
6 x 4	152.40 x 101.60	7.125	181.00	3.750	95.30	SF1	SF4	- RT-96-64	- 2-9

Further dimensions on request.

For Order Code please combine:
Product Quality¹- Basic Code²- Ref. acc. to ASME BPE³



Nominal Size (d)		A		B		ASME BPE / SF1 Mechanically polished ¹	ASME BPE / SF4 Electropolished ¹	Basic Code ²	ASME Ref. ³
Inch	mm	Inch	mm	Inch	mm	316L	WCW		
1/2 x 1 1/2	12.70 x 38.10	2.500	63.50	0.875	22.20	SF1	SF4	-	RT-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	-	RT-12-24 - 2-10
1 x 1 1/2	25.40 x 38.10	2.500	63.50	1.125	28.60	SF1	SF4	-	RT-16-24 - 2-10
1/2 x 2	12.70 x 50.80	2.750	69.90	1.000	25.40	SF1	SF4	-	RT-08-32 - 2-10
3/4 x 2	19.05 x 50.80	2.750	69.90	1.125	28.60	SF1	SF4	-	RT-12-32 - 2-10
1 x 2	25.40 x 50.80	2.750	69.90	1.250	31.80	SF1	SF4	-	RT-16-32 - 2-10
1 1/2 x 2	38.10 x 50.80	2.750	69.90	1.500	38.10	SF1	SF4	-	RT-24-32 - 2-10

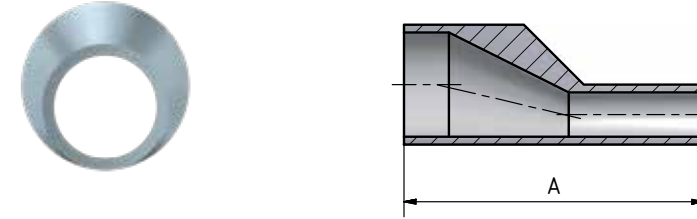
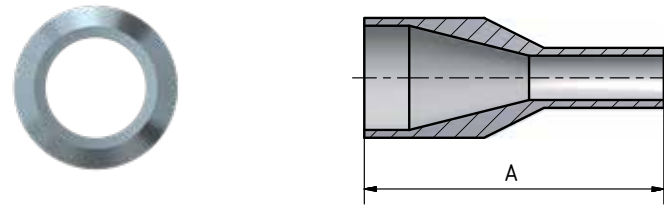
Further dimensions on request.

For Order Code please combine:
Product Quality¹- Basic Code²- Ref. acc. to ASME BPE³

Nominal Size (d)		A		B		ASME BPE / SF1 Mechanically polished ¹	ASME BPE / SF4 Electropolished ¹	Basic Code ²	ASME Ref. ³
Inch	mm	Inch	mm	Inch	mm	316L	WCW		
1/2 x 1 1/2	12.70 x 38.10	2.500	63.50	0.875	22.20	SF1	SF4	-	RT-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	-	RT-12-24 - 2-11
1 x 1 1/2	25.40 x 38.10	2.500	63.50	1.125	28.60	SF1	SF4	-	RT-16-24 - 2-11
1/2 x 2	12.70 x 50.80	2.750	69.90	1.000	25.40	SF1	SF4	-	RT-08-32 - 2-11
3/4 x 2	19.05 x 50.80	2.750	69.90	1.125	28.60	SF1	SF4	-	RT-12-32 - 2-11
1 x 2	25.40 x 50.80	2.750	69.90	1.250	31.80	SF1	SF4	-	RT-16-32 - 2-11
1 1/2 x 2	38.10 x 50.80	2.750	69.90	1.500	38.10	SF1	SF4	-	RT-24-32 - 2-11

Further dimensions on request.

For Order Code please combine:
Product Quality¹- Basic Code²- Ref. acc. to ASME BPE³



ASME BPE / SF1
Mechanically polished¹

ASME BPE / SF4
Electropolished¹

Basic Code²
ASME Ref.³

Nominal Size (d)		A		316L		Basic Code ²		ASME Ref. ³	
Inch	mm	Inch	mm						
3/8 x 1/4	9.53 x 6.35	1.625	41.30	SF1	SF4	-	CR-06-04	-	3-1
1/2 x 1/4	12.70 x 6.35	1.875	47.60	SF1	SF4	-	CR-08-04	-	3-1
1/2 x 3/8	12.70 x 9.53	1.875	47.60	SF1	SF4	-	CR-08-06	-	3-1
3/4 x 3/8	19.05 x 9.53	2.000	50.80	SF1	SF4	-	CR-12-06	-	3-1
3/4 x 1/2	19.05 x 12.70	2.125	54.00	SF1	SF4	-	CR-12-08	-	3-1
1 x 1/2	25.40 x 12.70	2.500	63.50	SF1	SF4	-	CR-16-08	-	3-1
1 x 3/4	25.40 x 19.05	2.125	54.00	SF1	SF4	-	CR-16-12	-	3-1
1 1/2 x 3/4	38.10 x 19.05	3.000	76.20	SF1	SF4	-	CR-24-12	-	3-1
1 1/2 x 1	38.10 x 25.40	2.500	63.50	SF1	SF4	-	CR-24-16	-	3-1
2 x 1	50.80 x 25.40	3.375	85.70	SF1	SF4	-	CR-32-16	-	3-1
2 x 1 1/2	50.80 x 38.10	2.500	63.50	SF1	SF4	-	CR-32-24	-	3-1
2 1/2 x 1 1/2	63.50 x 38.10	3.375	85.70	SF1	SF4	-	CR-40-24	-	3-1
2 1/2 x 2	63.50 x 50.80	2.500	63.50	SF1	SF4	-	CR-40-32	-	3-1
3 x 1 1/2	76.20 x 38.10	4.250	108.00	SF1	SF4	-	CR-48-24	-	3-1
3 x 2	76.20 x 50.80	3.375	85.70	SF1	SF4	-	CR-48-32	-	3-1
3 x 2 1/2	76.20 x 63.50	2.625	66.70	SF1	SF4	-	CR-48-40	-	3-1
4 x 2	101.60 x 50.80	5.125	130.20	SF1	SF4	-	CR-64-32	-	3-1
4 x 2 1/2	101.60 x 63.50	4.250	108.00	SF1	SF4	-	CR-64-40	-	3-1
4 x 3	101.60 x 76.20	3.875	98.40	SF1	SF4	-	CR-64-48	-	3-1
6 x 3	152.40 x 76.20	7.250	184.20	SF1	SF4	-	CR-96-48	-	3-1
6 x 4	152.40 x 101.60	5.625	142.90	SF1	SF4	-	CR-96-64	-	3-1

For Order Code please combine:
Product Quality¹- Basic Code²- Reference acc. to ASME BPE³

Further dimensions on request.

ASME BPE / SF1
Mechanically polished¹

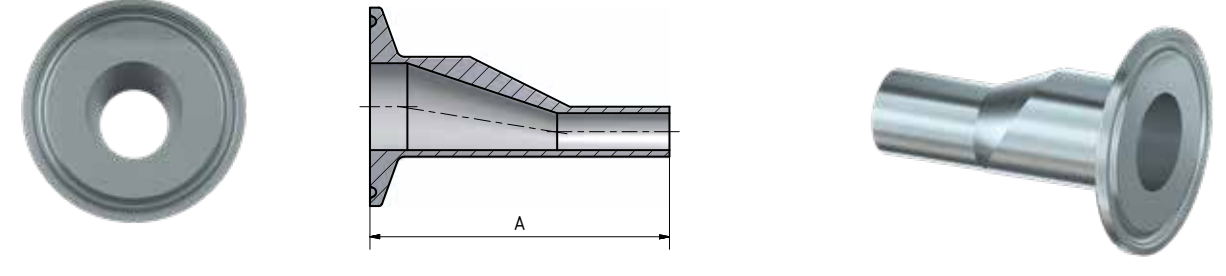
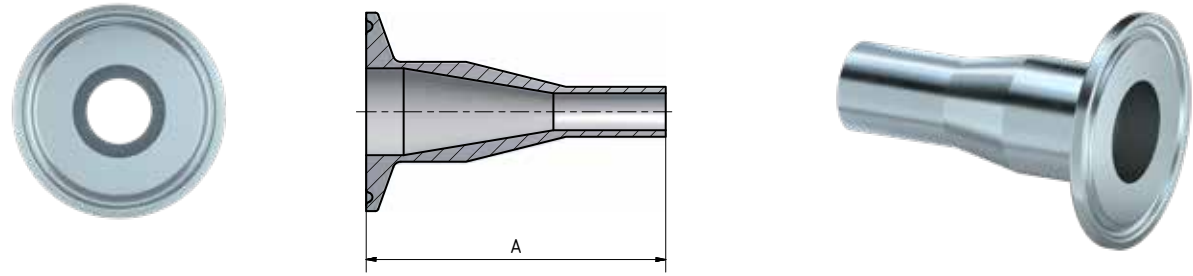
ASME BPE / SF4
Electropolished¹

Basic Code²
ASME Ref.³

Nominal Size (d)		A		316L		Basic Code ²		ASME Ref. ³	
Inch	mm	Inch	mm						
3/8 x 1/4	9.53 x 6.35	1.625	41.30	SF1	SF4	-	ER-06-04	-	3-1
1/2 x 1/4	12.70 x 6.35	1.875	47.60	SF1	SF4	-	ER-08-04	-	3-1
1/2 x 3/8	12.70 x 9.53	1.875	47.60	SF1	SF4	-	ER-08-06	-	3-1
3/4 x 3/8	19.05 x 9.53	2.000	50.80	SF1	SF4	-	ER-12-06	-	3-1
3/4 x 1/2	19.05 x 12.70	2.125	54.00	SF1	SF4	-	ER-12-08	-	3-1
1 x 1/2	25.40 x 12.70	2.500	63.50	SF1	SF4	-	ER-16-08	-	3-1
1 x 3/4	25.40 x 19.05	2.125	54.00	SF1	SF4	-	ER-16-12	-	3-1
1 1/2 x 3/4	38.10 x 19.05	3.000	76.20	SF1	SF4	-	ER-24-12	-	3-1
1 1/2 x 1	38.10 x 25.40	2.500	63.50	SF1	SF4	-	ER-24-16	-	3-1
2 x 1	50.80 x 25.40	3.375	85.70	SF1	SF4	-	ER-32-16	-	3-1
2 x 1 1/2	50.80 x 38.10	2.500	63.50	SF1	SF4	-	ER-32-24	-	3-1
2 1/2 x 1 1/2	63.50 x 38.10	3.375	85.70	SF1	SF4	-	ER-40-24	-	3-1
2 1/2 x 2	63.50 x 50.80	2.500	63.50	SF1	SF4	-	ER-40-32	-	3-1
3 x 1 1/2	76.20 x 38.10	4.250	108.00	SF1	SF4	-	ER-48-24	-	3-1
3 x 2	76.20 x 50.80	3.375	85.70	SF1	SF4	-	ER-48-32	-	3-1
3 x 2 1/2	76.20 x 63.50	2.625	66.70	SF1	SF4	-	ER-48-40	-	3-1
4 x 2	101.60 x 50.80	5.125	130.20	SF1	SF4	-	ER-64-32	-	3-1
4 x 2 1/2	101.60 x 63.50	4.250	108.00	SF1	SF4	-	ER-64-40	-	3-1
4 x 3	101.60 x 76.20	3.875	98.40	SF1	SF4	-	ER-64-48	-	3-1
6 x 3	152.40 x 76.20	7.250	184.20	SF1	SF4	-	ER-96-48	-	3-1
6 x 4	152.40 x 101.60	5.625	142.90	SF1	SF4	-	ER-96-64	-	3-1

For Order Code please combine:
Product Quality¹- Basic Code²- Reference acc. to ASME BPE³

Further dimensions on request.



ASME BPE / SF1
Mechanically polished¹

ASME BPE / SF4
Electropolished¹

Basic Code²

ASME Ref.³

ASME BPE / SF1
Mechanically polished¹

ASME BPE / SF4
Electropolished¹

Basic Code²

ASME Ref.³

Nominal Size (d)		A		316L		CW	
Inch	mm	Inch	mm	SF1	SF4	Basic Code ²	ASME Ref. ³
3/8 x 1/4	9.53 x 6.35	2.125	54.00	SF1	SF4	CR-06-04	3-2
1/2 x 1/4	12.70 x 6.35	2.375	60.30	SF1	SF4	CR-08-04	3-2
1/2 x 3/8	12.70 x 9.53	2.375	60.30	SF1	SF4	CR-08-06	3-2
3/4 x 3/8	19.05 x 9.53	2.500	63.50	SF1	SF4	CR-12-06	3-2
3/4 x 1/2	19.05 x 12.70	2.625	66.70	SF1	SF4	CR-12-08	3-2
1 x 1/2	25.40 x 12.70	3.000	76.20	SF1	SF4	CR-16-08	3-2
1 x 3/4	25.40 x 19.05	2.625	66.70	SF1	SF4	CR-16-12	3-2
1 1/2 x 3/4	38.10 x 19.05	3.500	88.90	SF1	SF4	CR-24-12	3-2
1 1/2 x 1	38.10 x 25.40	3.000	76.20	SF1	SF4	CR-24-16	3-2
2 x 1	50.80 x 25.40	3.875	98.40	SF1	SF4	CR-32-16	3-2
2 x 1 1/2	50.80 x 38.10	3.000	76.20	SF1	SF4	CR-32-24	3-2
2 1/2 x 1 1/2	63.50 x 38.10	3.875	98.40	SF1	SF4	CR-40-24	3-2
2 1/2 x 2	63.50 x 50.80	3.000	76.20	SF1	SF4	CR-40-32	3-2
3 x 1 1/2	76.20 x 38.10	4.750	120.70	SF1	SF4	CR-48-24	3-2
3 x 2	76.20 x 50.80	3.875	98.40	SF1	SF4	CR-48-32	3-2
3 x 2 1/2	76.20 x 63.50	3.125	79.40	SF1	SF4	CR-48-40	3-2
4 x 2	101.60 x 50.80	5.750	146.00	SF1	SF4	CR-64-32	3-2
4 x 2 1/2	101.60 x 63.50	4.875	123.80	SF1	SF4	CR-64-40	3-2
4 x 3	101.60 x 76.20	4.500	114.30	SF1	SF4	CR-64-48	3-2
6 x 3	152.40 x 76.20	8.000	203.20	SF1	SF4	CR-96-48	3-2
6 x 4	152.40 x 101.60	6.375	161.90	SF1	SF4	CR-96-64	3-2

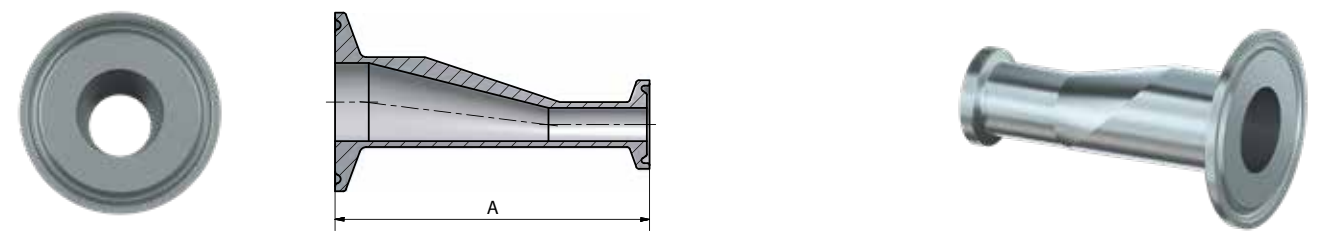
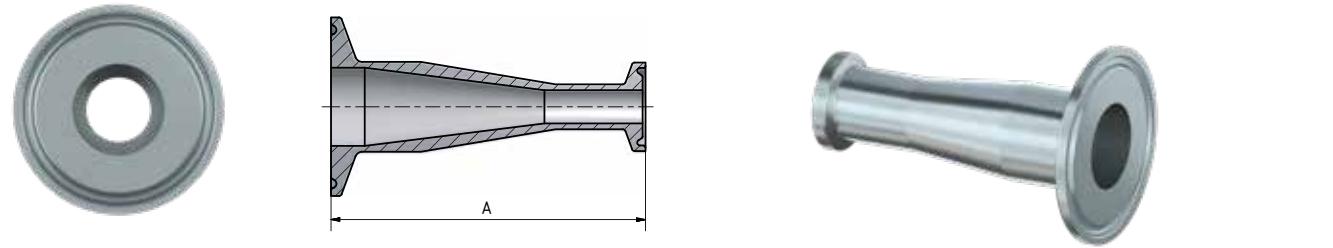
Nominal Size (d)		A		316L		CW	
Inch	mm	Inch	mm	SF1	SF4	Basic Code ²	ASME Ref. ³
3/8 x 1/4	9.53 x 6.35	2.125	54.00	SF1	SF4	ER-06-04	3-2
1/2 x 1/4	12.70 x 6.35	2.375	60.30	SF1	SF4	ER-08-04	3-2
1/2 x 3/8	12.70 x 9.53	2.375	60.30	SF1	SF4	ER-08-06	3-2
3/4 x 3/8	19.05 x 9.53	2.500	63.50	SF1	SF4	ER-12-06	3-2
3/4 x 1/2	19.05 x 12.70	2.625	66.70	SF1	SF4	ER-12-08	3-2
1 x 1/2	25.40 x 12.70	3.000	76.20	SF1	SF4	ER-16-08	3-2
1 x 3/4	25.40 x 19.05	2.625	66.70	SF1	SF4	ER-16-12	3-2
1 1/2 x 3/4	38.10 x 19.05	3.500	88.90	SF1	SF4	ER-24-12	3-2
1 1/2 x 1	38.10 x 25.40	3.000	76.20	SF1	SF4	ER-24-16	3-2
2 x 1	50.80 x 25.40	3.875	98.40	SF1	SF4	ER-32-16	3-2
2 x 1 1/2	50.80 x 38.10	3.000	76.20	SF1	SF4	ER-32-24	3-2
2 1/2 x 1 1/2	63.50 x 38.10	3.875	98.40	SF1	SF4	ER-40-24	3-2
2 1/2 x 2	63.50 x 50.80	3.000	76.20	SF1	SF4	ER-40-32	3-2
3 x 1 1/2	76.20 x 38.10	4.750	120.70	SF1	SF4	ER-48-24	3-2
3 x 2	76.20 x 50.80	3.875	98.40	SF1	SF4	ER-48-32	3-2
3 x 2 1/2	76.20 x 63.50	3.125	79.40	SF1	SF4	ER-48-40	3-2
4 x 2	101.60 x 50.80	5.750	146.00	SF1	SF4	ER-64-32	3-2
4 x 2 1/2	101.60 x 63.50	4.875	123.80	SF1	SF4	ER-64-40	3-2
4 x 3	101.60 x 76.20	4.500	114.30	SF1	SF4	ER-64-48	3-2
6 x 3	152.40 x 76.20	8.000	203.20	SF1	SF4	ER-96-48	3-2
6 x 4	152.40 x 101.60	6.375	161.90	SF1	SF4	ER-96-64	3-2

Further dimensions on request.
Clamp dimensions see table DT-4.1.4-1.

For Order Code please combine:
Product Quality¹ - Basic Code² - Reference acc. to ASME BPE³

Further dimensions on request.
Clamp dimensions see table DT-4.1.4-1.

For Order Code please combine:
Product Quality¹ - Basic Code² - Reference acc. to ASME BPE³



ASME BPE / SF1
Mechanically polished¹

ASME BPE / SF4
Electropolished¹

Basic Code²

ASME Ref.³

ASME BPE / SF1
Mechanically polished¹

ASME BPE / SF4
Electropolished¹

Basic Code²

ASME Ref.³

Nominal Size (d)		A		316L		CC	
Inch	mm	Inch	mm	SF1	SF4	Basic Code ²	ASME Ref. ³
3/8 x 1/4	9.53 x 6.35	2.625	66.70	SF1	SF4	CR-06-04	3-3
1/2 x 1/4	12.70 x 6.35	2.875	73.00	SF1	SF4	CR-08-04	3-3
1/2 x 3/8	12.70 x 9.53	2.875	73.00	SF1	SF4	CR-08-06	3-3
3/4 x 3/8	19.05 x 9.53	3.000	76.20	SF1	SF4	CR-12-06	3-3
3/4 x 1/2	19.05 x 12.70	3.125	79.40	SF1	SF4	CR-12-08	3-3
1 x 1/2	25.40 x 12.70	3.500	88.90	SF1	SF4	CR-16-08	3-3
1 x 3/4	25.40 x 19.05	3.125	79.40	SF1	SF4	CR-16-12	3-3
1 1/2 x 3/4	38.10 x 19.05	4.000	101.60	SF1	SF4	CR-24-12	3-3
1 1/2 x 1	38.10 x 25.40	3.500	88.90	SF1	SF4	CR-24-16	3-3
2 x 1	50.80 x 25.40	4.375	111.10	SF1	SF4	CR-32-16	3-3
2 x 1 1/2	50.80 x 38.10	3.500	88.90	SF1	SF4	CR-32-24	3-3
2 1/2 x 1 1/2	63.50 x 38.10	4.375	111.10	SF1	SF4	CR-40-24	3-3
2 1/2 x 2	63.50 x 50.80	3.500	88.90	SF1	SF4	CR-40-32	3-3
3 x 1 1/2	76.20 x 38.10	5.250	133.40	SF1	SF4	CR-48-24	3-3
3 x 2	76.20 x 50.80	4.375	111.10	SF1	SF4	CR-48-32	3-3
3 x 2 1/2	76.20 x 63.50	3.625	92.10	SF1	SF4	CR-48-40	3-3
4 x 2	101.60 x 50.80	6.250	158.80	SF1	SF4	CR-64-32	3-3
4 x 2 1/2	101.60 x 63.50	5.375	136.50	SF1	SF4	CR-64-40	3-3
4 x 3	101.60 x 76.20	5.000	127.00	SF1	SF4	CR-64-48	3-3
6 x 3	152.40 x 76.20	8.500	215.90	SF1	SF4	CR-96-48	3-3
6 x 4	152.40 x 101.60	7.000	177.80	SF1	SF4	CR-96-64	3-3

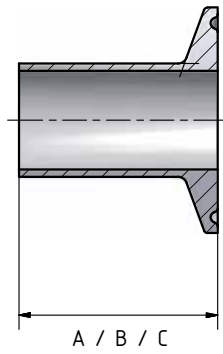
Nominal Size (d)		A		316L		CC	
Inch	mm	Inch	mm	SF1	SF4	Basic Code ²	ASME Ref. ³
3/8 x 1/4	9.53 x 6.35	2.625	66.70	SF1	SF4	ER-06-04	3-3
1/2 x 1/4	12.70 x 6.35	2.875	73.00	SF1	SF4	ER-08-04	3-3
1/2 x 3/8	12.70 x 9.53	2.875	73.00	SF1	SF4	ER-08-06	3-3
3/4 x 3/8	19.05 x 9.53	3.000	76.20	SF1	SF4	ER-12-06	3-3
3/4 x 1/2	19.05 x 12.70	3.125	79.40	SF1	SF4	ER-12-08	3-3
1 x 1/2	25.40 x 12.70	3.500	88.90	SF1	SF4	ER-16-08	3-3
1 x 3/4	25.40 x 19.05	3.125	79.40	SF1	SF4	ER-16-12	3-3
1 1/2 x 3/4	38.10 x 19.05	4.000	101.60	SF1	SF4	ER-24-12	3-3
1 1/2 x 1	38.10 x 25.40	3.500	88.90	SF1	SF4	ER-24-16	3-3
2 x 1	50.80 x 25.40	4.375	111.10	SF1	SF4	ER-32-16	3-3
2 x 1 1/2	50.80 x 38.10	3.500	88.90	SF1	SF4	ER-32-24	3-3
2 1/2 x 1 1/2	63.50 x 38.10	4.375	111.10	SF1	SF4	ER-40-24	3-3
2 1/2 x 2	63.50 x 50.80	3.500	88.90	SF1	SF4	ER-40-32	3-3
3 x 1 1/2	76.20 x 38.10	5.250	133.40	SF1	SF4	ER-48-24	3-3
3 x 2	76.20 x 50.80	4.375	111.10	SF1	SF4	ER-48-32	3-3
3 x 2 1/2	76.20 x 63.50	3.625	92.10	SF1	SF4	ER-48-40	3-3
4 x 2	101.60 x 50.80	6.250	158.80	SF1	SF4	ER-64-32	3-3
4 x 2 1/2	101.60 x 63.50	5.375	136.50	SF1	SF4	ER-64-40	3-3
4 x 3	101.60 x 76.20	5.000	127.00	SF1	SF4	ER-64-48	3-3
6 x 3	152.40 x 76.20	8.500	215.90	SF1	SF4	ER-96-48	3-3
6 x 4	152.40 x 101.60	7.000	177.80	SF1	SF4	ER-96-64	3-3

Further dimensions on request.
Clamp dimensions see table DT-4.1.4-1.

For Order Code please combine:
Product Quality¹ - Basic Code² - Reference acc. to ASME BPE³

Further dimensions on request.
Clamp dimensions see table DT-4.1.4-1.

For Order Code please combine:
Product Quality¹ - Basic Code² - Reference acc. to ASME BPE³



Nominal Size (d)		A		Clamp Dimensions		ASME BPE / SF1 Mechanically polished ¹	ASME BPE / SF4 Electropolished ¹	Basic Code ²	ASME Ref. ³
Inch	mm	Inch	mm	Inch	mm	316L			CW
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

Further dimensions on request.

For Order Code please combine:
Product Quality¹ - Basic Code² - Reference acc. to ASME BPE³

Nominal Size (d)		B		Clamp Dimensions		ASME BPE / SF1 Mechanically polished ¹	ASME BPE / SF4 Electropolished ¹	Basic Code ²	ASME Ref. ³
Inch	mm	Inch	mm	Inch	mm	316L			CW
1/4	6.35	1.130	28.58	0.984	25.0	SF1	SF4	FB-04	4-1
3/8	9.53	1.130	28.58	0.984	25.0	SF1	SF4	FB-06	4-1
1/2	12.70	1.130	28.58	0.984	25.0	SF1	SF4	FB-08	4-1
3/4	19.05	1.130	28.58	0.984	25.0	SF1	SF4	FB-12	4-1
1	25.40	1.130	28.58	1.984	50.5	SF1	SF4	FB-16	4-1
1 1/2	38.10	1.130	28.58	1.984	50.5	SF1	SF4	FB-24	4-1
2	50.80	1.130	28.58	2.516	64.0	SF1	SF4	FB-32	4-1
2 1/2	63.50	1.130	28.58	3.047	77.5	SF1	SF4	FB-40	4-1
3	76.20	1.130	28.58	3.579	91.0	SF1	SF4	FB-48	4-1
4	101.60	1.130	28.58	4.682	119.0	SF1	SF4	FB-64	4-1
6	152.40	1.500	38.1	6.570	167.0	SF1	SF4	FB-96	4-1

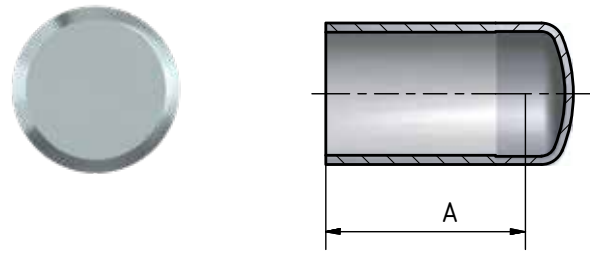
Further dimensions on request. Subject to alteration.

For Order Code please combine:
Product Quality¹ - Basic Code² - Reference acc. to ASME BPE³

Nominal Size (d)		C		Clamp Dimensions		ASME BPE / SF1 Mechanically polished ¹	ASME BPE / SF4 Electropolished ¹	Basic Code ²	ASME Ref. ³
Inch	mm	Inch	mm	Inch	mm	316L			CW
1/4	6.35	0.500	12.70	0.984	25.00	SF1	SF4	FC-04	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

Further dimensions on request.

For Order Code please combine:
Product Quality¹ - Basic Code² - Reference acc. to ASME BPE³



ASME BPE / SF1
Mechanically polished¹

ASME BPE / SF4
Electropolished¹

Basic
Code²

ASME
Ref.³

Nominal Size (d)		A		316L		Basic Code ²		ASME Ref. ³	
Inch	mm	Inch	mm	SF1	SF4	-	WC	-	W
1/2	12.70	1.500	38.10	SF1	SF4	-	WC-08	-	5-1
3/4	19.05	1.500	38.10	SF1	SF4	-	WC-12	-	5-1
1	25.40	1.500	38.10	SF1	SF4	-	WC-16	-	5-1
1 1/2	38.10	1.500	38.10	SF1	SF4	-	WC-24	-	5-1
2	50.80	1.500	38.10	SF1	SF4	-	WC-32	-	5-1
2 1/2	63.50	1.500	38.10	SF1	SF4	-	WC-40	-	5-1
3	76.20	1.750	44.50	SF1	SF4	-	WC-48	-	5-1
4	101.60	2.000	50.80	SF1	SF4	-	WC-64	-	5-1
6	152.40	2.500	63.50	SF1	SF4	-	WC-96	-	5-1

For Order Code please combine:
Product Quality¹ - Basic Code² - Ref. acc. to ASME BPE³

Further dimensions on request.

Nominal Size (d)		A		Clamp Dimensions		316L		Basic Code ²		ASME Ref. ³	
Inch	mm	Inch	mm	Inch	mm	SF1	SF4	-	FTC	-	C
1/4	6.35	0.187	4.70	0.984	25.00	SF1	SF4	-	FTC-04	-	5-2
3/8	9.53	0.187	4.70	0.984	25.00	SF1	SF4	-	FTC-06	-	5-2
1/2	12.70	0.187	4.70	0.984	25.00	SF1	SF4	-	FTC-08	-	5-2
3/4	19.05	0.187	4.70	0.984	25.00	SF1	SF4	-	FTC-12	-	5-2
1	25.40	0.250	6.40	1.984	50.50	SF1	SF4	-	FTC-16	-	5-2
1 1/2	38.10	0.250	6.40	1.984	50.50	SF1	SF4	-	FTC-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

ASME BPE / SF1
Mechanically polished¹

ASME BPE / SF4
Electropolished¹

Basic
Code²

ASME
Ref.³

For Order Code please combine:
Product Quality¹ - Basic Code² - Reference acc. to ASME BPE³

Further dimensions on request.



Nominal Size	Flange Dimensions	Order Code
Inch	Inch	
1/4	0.984	CLAMP-04
3/8	0.984	CLAMP-06
1/2	0.984	CLAMP-08
3/4	0.984	CLAMP-12
1	1.984	CLAMP-16
1 1/2	1.984	CLAMP-24
2	2.516	CLAMP-32
2 1/2	3.047	CLAMP-40
3	3.579	CLAMP-48
4	4.682	CLAMP-64
6	6.570	CLAMP-96

Special Clamps / optional

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



Nominal Size	Flange	Basic Code ²	PTFE	FKM	PTFE/FKM	EPDM	VMQ	PTFE/316L	PTFE/EPDM
Inch	Inch								
1/4	0.984	GK-IMP-04	- P	F	FP	E	V	P3	PE
3/8	0.984	GK-IMP-06	- P	F	FP	E	V	P3	PE
1/2	0.984	GK-IMP-08	- P	F	FP	E	V	P3	PE
3/4	0.984	GK-IMP-12	- P	F	FP	E	V	P3	PE
1	1.984	GK-IMP-16	- P	F	FP	E	V	P3	PE
1 1/2	1.984	GK-IMP-24	- P	F	FP	E	V	P3	PE
2	2.516	GK-IMP-32	- P	F	FP	E	V	P3	PE
2 1/2	3.047	GK-IMP-40	- P	F	FP	E	V	P3	PE
3	3.579	GK-IMP-48	- P	F	FP	E	V	P3	PE
4	4.682	GK-IMP-64	- P	F	FP	E	V	P3	PE
6	6.570	GK-IMP-96	- P	F	FP	E	V	P3	PE

For Order Code please combine: **Basic Code² + Gasket Material**

Special Gaskets / optional

- SCREEN GASKETS
- SMART GASKETS
- CONTROLLED COMPRESSION
- ORIFICE PLATES

Screen Gaskets provide pre-filtration 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.

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	PTFE / FKM	EPDM	VMQ	PTFE / 316L	PTFE / EPDM
Material acc. to ISO 1629 / ASTM D1418	Polytetrafluoroethylene	Perfluorinated rubber	PTFE enveloped FKM	Ethylene propylene diene rubber	Platinum cured silicone rubber	Composite of stainless steel 316L and PTFE	PTFE enveloped EPDM
Trade name	Teflon® Dyneon®	Viton® Fluorel®		Buna® Nordel®	Silopren® Silastic®		
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			
<small>*Not all diameters are available in all materials.</small>	Imperial 1/4" – 6"			Imperial 1/4" – 6"			
Temperature variations	-	+	0	+	+	+	+
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	215.3765 lb/ft ³	79.90779 lb/ft ³	118.613 lb/ft ³	131.099 lb /ft ³	74.9136 lb/ft ³	115.4917 lb/ft ³	78.03495 lb/ft ³
Compression set	18,5 %	13 %	15 %	10 %	20 %	7 %	5 %
	70 Hour	24 Hour	24 Hour	24 Hour	24 Hour	24 Hour	24 Hour
	392 °F	347 °F	347 °F	302 °F	347 °F	302 °F	347 °F
	5 to 446 °F	-4 to 410 °F	-76 to 356 °F	-40 to 284 °F	-76 to 392 °F	-94 to 500 °F	-94 to 356 °F
	+ = highly suitable	0 = suitable	- = not suitable		+ = highly suitable	0 = suitable	- = not suitable

Optimized designs, the purest surfaces, perfected welds

When it comes to implementing complex components and systems Dockweiler is your manufacturing specialist. Maximizing productivity is the primary goal. This requires a highly reliable and efficient solution. The focus here is on low dead space and surface optimization.



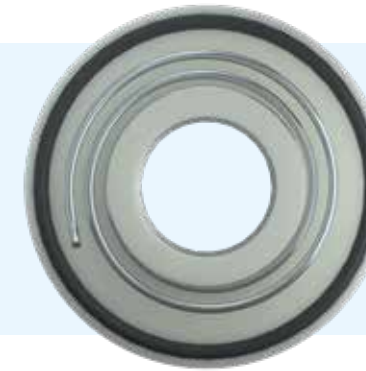
Customized Fittings

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Cleanshut wall and ceiling feedthroughs

Page 53



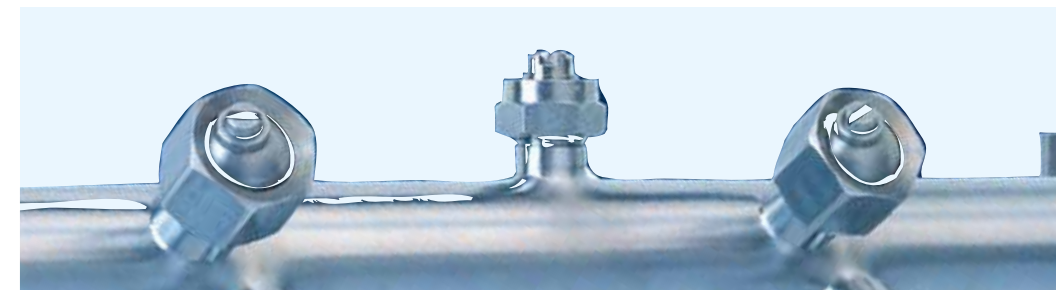
Pharmaceutical Hoses

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Prefabricated Components

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Customized Fittings

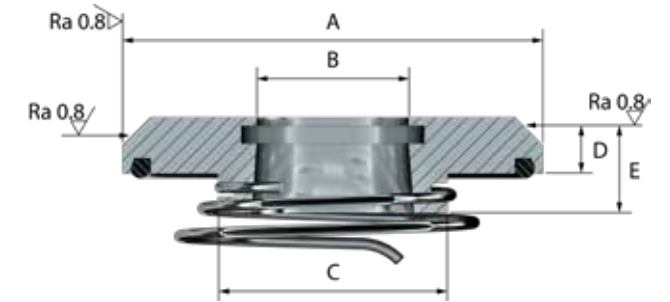
Customized fittings manufactured to your specifications are the tailor-made solution when standard fittings do not meet customer requirements. Our service starts with drafting and extends to 3.1 documentation.



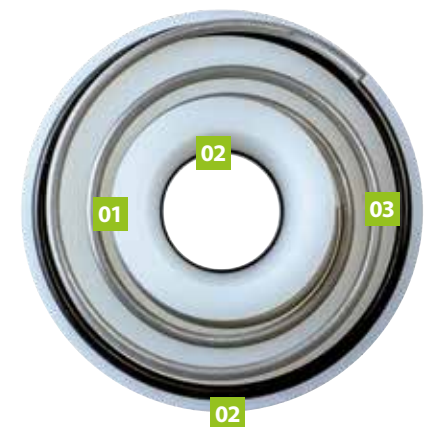
A perfect finish for wall and ceiling feedthroughs in clean rooms

Assembly without screws – minimizes the risk of damage to the cleanroom wall.

Simple installation within seconds.





Imperial Tube Dimensions	Dimensions					Basic Code
	Ø A	Ø B	Ø C	D	E	
Inch	Inch					
0.500	2.520	0.508	1.339	0.394	0.709	WFT - 08 - PV
0.750	2.953	0.758	1.772	0.394	0.709	WFT - 12 - PV
1.000	2.953	1.008	1.772	0.394	0.709	WFT - 16 - PV
1.500	4.134	1.508	2.953	0.394	0.787	WFT - 24 - PV
2.000	4.134	2.008	2.953	0.394	0.787	WFT - 32 - PV
2.500	5.433	2.508	4.252	0.394	0.866	WFT - 40 - PV
3.000	5.433	3.008	4.252	0.394	0.866	WFT - 48 - PV
4.000	5.866	4.008	5.000	0.394	0.866	WFT - 64 - PV



Components	Materials
01 Basic Body	PVDF
02 O-rings	EPDM
03 Spring	1.4310

Pharmaceutical Hoses in Silicone, EPDM and PTFE

	PolyFlow ST	PolyFlow STR
Design		
Material	Platinum-cured silicone, braid-reinforced	Platinum-cured silicone, braid-reinforced, with stainless steel wire reinforcement
Diameter	1/4" - 1" *	1/2" - 2" *
Max. Length	82.021 ft **	131.235 ft
Min. Bending Radius	1.575" (OD 1/4") to 4.724" (OD 1")	2.362" (OD 1/2") to 8.268" (OD 2")
Temperature Range	-76° to + 356°F	-76° to + 392°F
Working Pressure	87 psi (1/4") - 36psi (1")	217 psi (1/4") - 58 psi (3")
Conformity	FDA 21 CFR 177.2600, BhVV Type II, USP Class VI, USP Physicochemical 661, Cytotoxicity, Hemolysis, European Pharmacopeia 3.1.9	FDA 21 CFR 177.2600, USP Class VI, 3-A Sanitary Standard, EC 1935/2004, EC 2023/2006, DM21/03/1973, BfR XV and XXI cat.2, ISO10993-8, -10 and -11

* Other dimensions on request
** From a diameter of 1" only 32.808 ft

	PolyFlow ETR EPDM	PolyFlow PTR OHM	PolyFlow PTR
Design			
Material	Braid-reinforced with stainless steel wire reinforcement, outside blue EPDM, inside food-grade white EPDM	Teflon® (PTFE) liner (black), braid-reinforced (>1" also stainless steel wire reinforcement), outside EPDM, fully electrically conductive (Ω/T)	Teflon® (PTFE) liner (white), braid-reinforced (>1" also stainless steel wire reinforcement), outside EPDM
Diameter	3/4" - 2"*	1/2" - 2"	1/2" - 2"
Max. Length	131.235 ft	131.235 ft	131.235 ft
Min. Bending Radius	4.724" (OD 3/4") to 11.810" (OD 2")	4.331" (OD 1/2") to 8.268" (OD 2")	4.331" (OD 1/2") to 8.268" (OD 2")
Temperature Range	-22° to + 248°F	-22° to + 302°F	-22° to + 302°F
Working Pressure	94 psi (3/4") - 58 psi (2")	232 psi (1/2" - 2")	232 psi (1/2" - 2")
Conformity	FDA 21 CFR - 177.2600, BGVV Type II, USP Physicochemical 661	FDA 21 CFR 177.1550, FDA 21 CFR 1783297, USP Class VI, EC 1935/2004, 10/2011, 1282/2011, 1183/2011, 202/2014, 2023/2006, Bed.Ggst V, 24.06.2013, LFGB	FDA 21 CFR 177.1550, FDA 21 CFR 1783297, USP Class VI, EC 1935/2004, 10/2011, 1282/2011, 1183/2011, 202/2014, 2023/2006, BedGgstV, 24.06.2013, LFGB

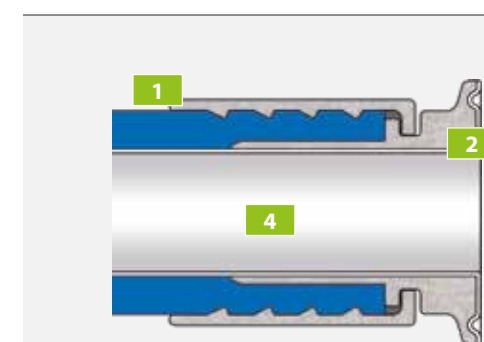
* Other dimensions on request
** From a diameter of 1" only 32.808 ft

Connections

Flared Connection

- **TriClamp connections** in accordance with DIN 32676 and ASME BPE 2019
- **Aseptic connections** in accordance with DIN 11864 Form A
- **Welding ends** for orbital welding
- **Further connections** and customized solutions (e.g. 90° Elbow) on request
- **Free of dead space due to specially crimped Elaflex hose fitting FLARED:** PolyFlow PTR and PolyFlow PTR OHM hoses with crimped hose-fitting and flared PTFE liner by Elaflex.
- The connection fitting has no contact to the medium, as the special crimping does not allow for any gaps or dead space up to the seal.

Flared Connection Design



- 1 PolyFlow PTR / PolyFlow PTR OHM
- 2 Hose fittings
- 3 Patented sheath specification
- 4 PTFE-Liner (Teflon®)

Prefabricated components for simple and smooth installations

Experience in piping systems for transporting high-purity media is the Dockweiler “plus”: The safety and purity of production processes is the primary objective. In addition, improvements in design can increase productivity and simplify installation – synergies that our customers appreciate.



Highest Purity



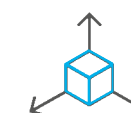
The highest standards of hygiene and cleanliness are essential for numerous manufacturing processes in the pharmaceutical, chemical and semiconductor industries. This is particularly true for the inner surfaces of piping systems that are in contact with sensitive media.

Hygienic Design



For pharmaceutical products and other highly sensitive substances, protection against contamination is an essential aspect. The question is how quickly and easily a production facility can be cleaned. Hygienic design includes production features that ensure this and guarantee continuous product quality.

Space Management



Nowadays, capital-intensive production, rising prices (e.g. energy) or shortages of raw materials are forcing companies more and more to put their processes to the test. Space management refers to customer-specific solutions that enable the expansion or optimization of plants in a very limited space.

Enhancing Efficiency



For many manufacturing companies, increasing efficiency is a particular challenge: Given the high complexity of production systems, companies might come up against personnel or technological limits.



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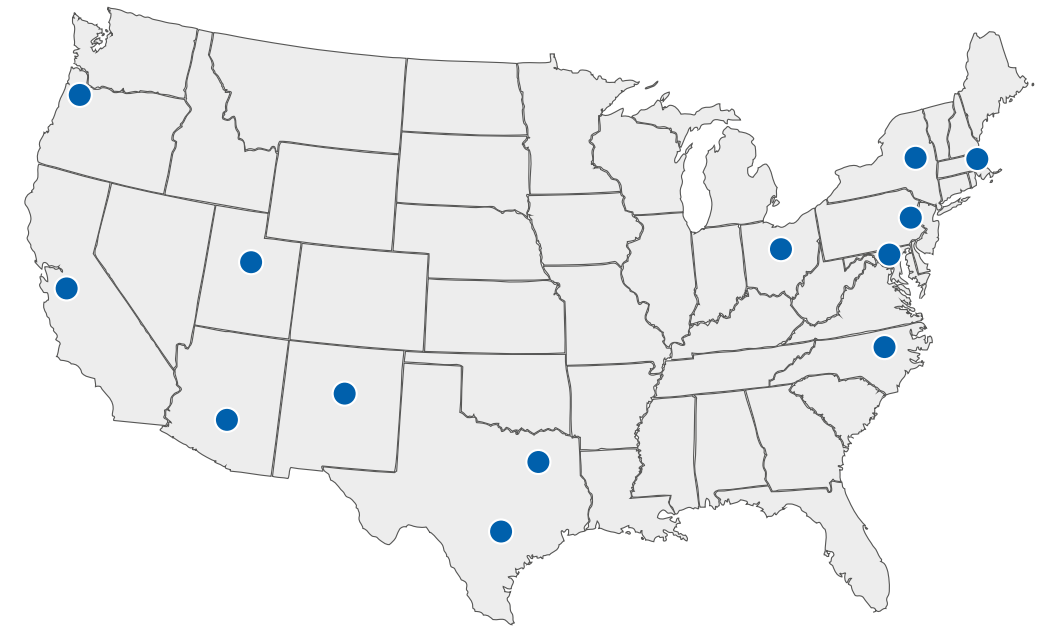
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