

TRI-CLAMP FITTINGS



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Tri-Clamp Fittings

TRI-CLAMP ELBOW 45° 1/2

Standards

DIN 11865, TC according to DIN 32676, ASME BPE 2009

Material

Stainless Steel 1.4435 BN2 (Fe < 0,5%) according to EN 10088

Sterilization temperature

150°C

Application

Pharmaceutical and biotechnology industries

Type of Construction / Surface quality

- Inner surface: sanded and electropolished
- Ra internal < 0,6 µm
- Outer surface of the elbow : glossy finishes
- Welding : bleached pickled

Hygienic tube class

H 3 according to DIN 11866

Marking

Dimension, material, casting number

Certificates

Certificate according to EN 10204-3.1

Tolerances

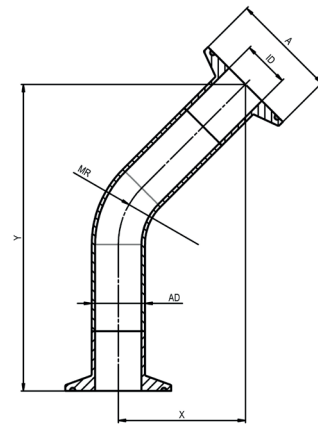
Measures x / y: +/- 2mm

Option

Other sizes and / or combinations available on request

Remark

Technical changes reserved



DIMENSIONS OF TRI-CLAMP ELBOW 45°

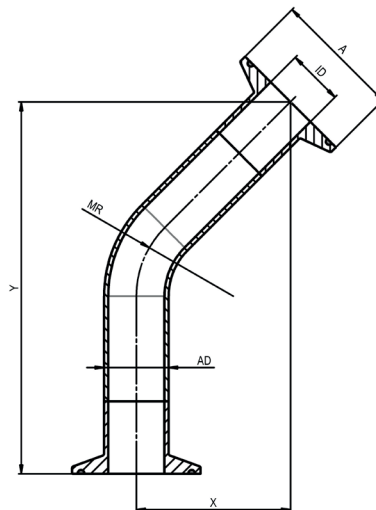
DIMENSION	A (mm)	AD (mm)	ID (mm)	X (mm)	Y (mm)	Item No.	
According to 32676 Row B, ISO 1127							
ISO DN	8	25,00	13,50	10,30	43,70	105,50	123.45.I-008.025.EP
ISO DN	8	50,50	13,50	10,30	43,70	105,50	123.45.I-008.050.EP
ISO DN	10	25,00	17,20	14,00	46,00	111,10	123.45.I-010.025.EP
ISO DN	10	50,50	17,20	14,00	46,00	111,10	123.45.I-010.050.EP
ISO DN	15	50,50	21,30	18,10	46,60	112,50	123.45.I-015.050.EP
ISO DN	20	50,50	26,90	23,70	56,80	137,10	123.45.I-020.050.EP
ISO DN	25	50,50	33,70	29,70	59,50	143,70	123.45.I-025.050.EP
ISO DN	32	64,00	42,40	38,40	62,40	150,60	123.45.I-032.064.EP
ISO DN	40	64,00	48,30	44,30	65,10	157,20	123.45.I-040.064.EP
ISO DN	50	77,50	60,30	56,30	70,70	170,70	123.45.I-050.077.EP
ISO DN	65	91,00	76,10	72,10	86,90	209,80	123.45.I-065.091.EP

Tri-Clamp Fittings

TRI-CLAMP ELBOW 45° 2/2

DIMENSIONS OF TRI-CLAMP ELBOW 45°

DIMENSION		A (mm)	AD (mm)	ID (mm)	X (mm)	Y (mm)	Item No.
According to 32676 Row C, ASME BPE 2009							
OD	1/2"	25,00	12,70	9,40	60,60	146,30	123.45.A-050.025.EP
OD	3/4"	25,00	19,05	15,75	60,60	146,30	123.45.A-075.025.EP
OD	1"	50,50	25,40	22,10	60,60	146,30	123.45.A-100.050.EP
OD	1 1/2"	50,50	38,10	34,80	65,10	157,10	123.45.A-150.050.EP
OD	2"	64,00	50,80	47,50	74,00	178,70	123.45.A-200.064.EP
OD	2 1/2"	77,50	63,50	60,20	80,80	195,00	123.45.A-250.077.EP
OD	3"	91,00	76,20	72,90	85,30	205,90	123.45.A-300.091.EP
OD	4"	119,00	101,60	97,40	101,00	243,80	123.45.A-400.119.EP



Tri-Clamp Fittings

TRI-CLAMP ELBOW 90° WITH FERRULE 1/2

Standards

DIN 11865, TC according to DIN 32676, ASME BPE 2009

Material

Stainless Steel 1.4435 BN2 (Fe < 0,5%) according to EN 10088

Sterilization temperature

150°C

Application

Pharmaceutical and biotechnology industries

Type of Construction / Surface quality

- Inner surface: sanded and electropolished
- Ra internal < 0,6 µm
- Outer surface of the elbow : glossy finishes
- Welding : bleached pickled

Hygienic tube class

H 3 according to DIN 11866

Marking

Dimension, material, casting number

Certificates

Certificate according to EN 10204-3.1

Tolerances

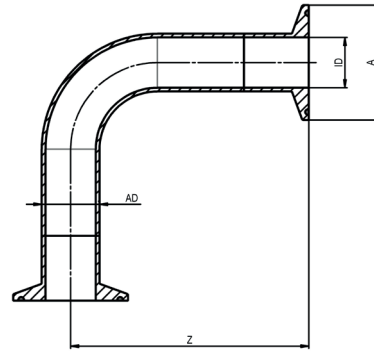
Measure Z: +/- 2mm

Option

Other sizes and / or combinations available on request

Remark

Technical changes reserved



DIMENSIONS OF ELBOW 90° WITH FERRULE

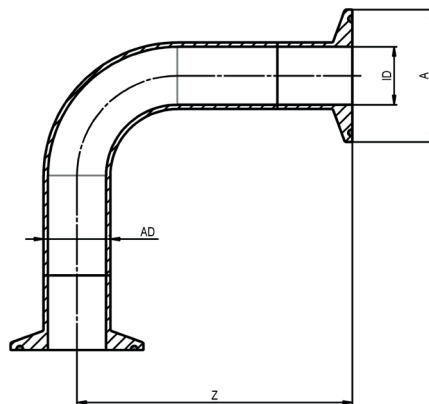
DIMENSION		A (mm)	AD (mm)	ID (mm)	Z (mm)	Item No.
According to DIN 32676 Row B, ISO 1127						
ISO DN	8	25,00	13,50	10,30	73,50	123.90.I-008.025.EP
ISO DN	8	50,50	13,50	10,30	73,50	123.90.I-008.050.EP
ISO DN	10	25,00	17,20	14,00	81,50	123.90.I-010.025.EP
ISO DN	10	50,50	17,20	14,00	81,50	123.90.I-010.050.EP
ISO DN	15	50,50	21,30	18,10	83,50	123.90.I-015.050.EP
ISO DN	20	50,50	26,90	23,70	97,00	123.90.I-020.050.EP
ISO DN	25	50,50	33,70	29,70	106,50	123.90.I-025.050.EP
ISO DN	32	64,00	42,40	38,40	116,00	123.90.I-032.064.EP
ISO DN	40	64,00	48,30	44,30	125,50	123.90.I-040.064.EP
ISO DN	50	77,50	60,30	56,30	144,50	123.90.I-050.077.EP
ISO DN	65	91,00	76,10	72,10	178,50	123.90.I-065.091.EP

Tri-Clamp Fittings

TRI-CLAMP ELBOW 90° WITH FERRULE 2/2

DIMENSIONS OF ELBOW 90° WITH FERRULE

DIMENSION		A (mm)	AD (mm)	ID (mm)	Z (mm)	Item No.
According to DIN 32676 Row C, ASME BPE 2009						
OD	1/2"	25,00	12,70	9,40	104,70	123.90.A-050.025.EP
OD	3/4"	25,00	19,05	15,75	104,70	123.90.A-075.025.EP
OD	1"	50,50	25,40	22,10	104,70	123.90.A-100.050.EP
OD	1 1/2"	50,50	38,10	34,80	123,80	123.90.A-150.050.EP
OD	2"	64,00	50,80	47,50	149,20	123.90.A-200.064.EP
OD	2 1/2"	77,50	63,50	60,20	168,20	123.90.A-250.077.EP
OD	3"	91,00	76,20	72,90	187,30	123.90.A-300.091.EP
OD	4"	119,00	101,60	97,40	231,70	123.90.A-400.119.EP



Tri-Clamp Fittings

EQUAL TRI-CLAMP T-PIECE 1/2

Standards

DIN 11865, TC according to DIN 32676, ASME BPE 2009

Material

Stainless Steel 1.4435 BN2 (Fe < 0,5%) according to EN 10088

Sterilization temperature

150°C

Application

Pharmaceutical and biotechnology industries

Type of Construction / Surface quality

- Inner surface: sanded and electropolished
- Ra internal < 0,6 µm
- Outer surface of the T-piece: glossy finishes
- Welding: bleached pickled

Hygienic tube class

H 3 according to DIN 11866

Marking

Dimension, material, casting number

Certificates

Certificate according to EN 10204-3.1

Tolerances

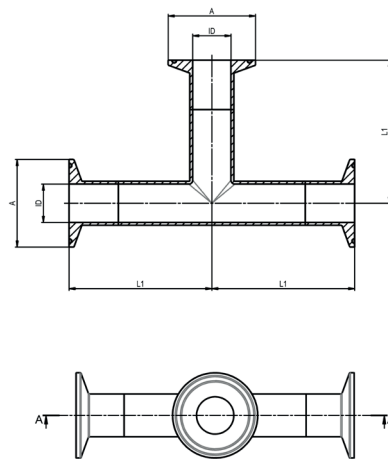
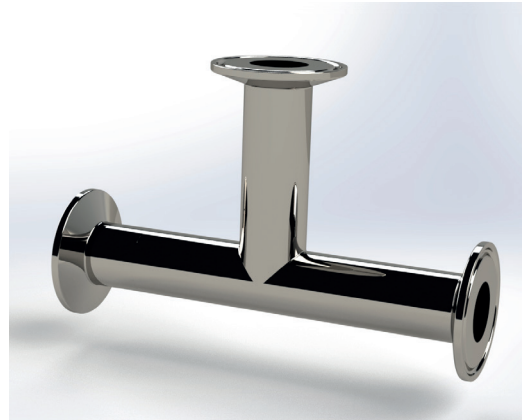
Measure L1= +/- 2mm

Option

Other sizes and / or combinations available on request

Remark

Technical changes reserved



DIMENSIONS OF EQUAL TRI-CLAMP T-PIECE

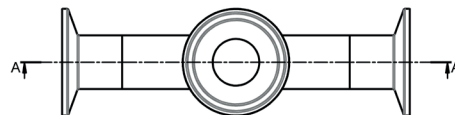
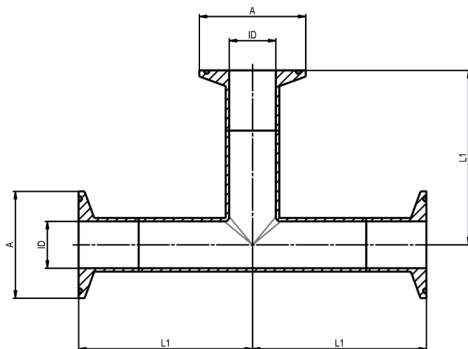
DIMENSION	A (mm)	AD (mm)	ID (mm)	L1 (mm)	L2 (mm)	Item No.
According to DIN 32676 Row B, ISO 1127						
ISO DN	8	25,00	13,50	10,20	60,50	121.E.I-008.025.EP
ISO DN	8	50,50	13,50	10,20	60,50	121.E.I-008.050.EP
ISO DN	10	25,00	17,20	15,00	62,50	121.E.I-010.025.EP
ISO DN	10	50,50	17,20	14,00	62,50	121.E.I-010.050.EP
ISO DN	15	50,50	21,30	18,10	64,50	121.E.I-015.050.EP
ISO DN	20	50,50	26,90	23,70	83,00	121.E.I-020.050.EP
ISO DN	25	50,50	33,70	29,70	88,50	121.E.I-025.050.EP
ISO DN	32	64,00	42,40	38,40	93,50	121.E.I-032.064.EP
ISO DN	40	64,00	48,30	44,30	93,50	121.E.I-040.064.EP
ISO DN	50	77,50	60,30	56,30	118,50	121.E.I-050.077.EP
ISO DN	65	91,00	76,10	72,10	138,50	121.E.I-065.091.EP
ISO DN	80	106,00	88,90	84,30	158,50	121.E.I-080.106.EP
ISO DN	100	130,00	114,30	109,70	183,50	121.E.I-100.130.EP

Tri-Clamp Fittings

EQUAL TRI-CLAMP T-PIECE 2/2

DIMENSIONS OF EQUAL TRI-CLAMP T-PIECE

DIMENSION		A (mm)	AD (mm)	ID (mm)	L1 (mm)	L2 (mm)	Item No.
According to DIN 32676 Row C, ASME BPE 2009							
OD	1/2"	25,00	12,70	9,40	76,10	152,20	121.E.A-050.025.EP
OD	3/4"	25,00	19,05	15,75	79,30	158,60	121.E.A-075.025.EP
OD	1"	50,50	25,40	22,10	82,50	165,00	121.E.A-100.050.EP
OD	1 1/2"	50,50	38,10	34,80	88,80	177,60	121.E.A-150.050.EP
OD	2"	64,00	50,80	47,50	101,50	203,00	121.E.A-200.064.EP
OD	2 1/2"	77,50	63,50	60,20	107,90	215,80	121.E.A-250.077.EP
OD	3"	91,00	76,20	72,90	114,20	228,40	121.E.A-300.091.EP
OD	4"	119,00	101,60	97,40	126,90	266,60	121.E.A-400.119.EP



Tri-Clamp Fittings

SHORT TRI-CLAMP T-PIECE 1/2

Standards

DIN 11865, TC according to DIN 32676, ASME BPE 2009

Material

Stainless Steel 1.4435 BN2 (Fe < 0,5%) according to EN 10088

Sterilization temperature

150°C

Application

Pharmaceutical and biotechnology industries

Type of Construction / Surface quality

- Inner surface: sanded and electropolished
- Ra internal < 0,6 µm
- Outer surface of the T-piece: glossy finishes
- Welding: bleached pickled

Hygienic tube class

H 3 according to DIN 11866

Marking

Dimension, material, casting number

Certificates

Certificate according to EN 10204-3.1

Tolerances

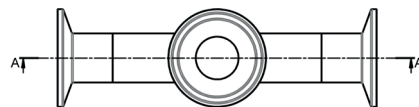
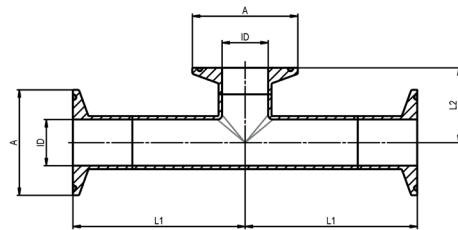
Measures L1 / L2: +/- 2mm

Option

Other sizes and / or combinations available on request

Remark

Technical changes reserved



DIMENSIONS OF SHORT TRI-CLAMP T-PIECE

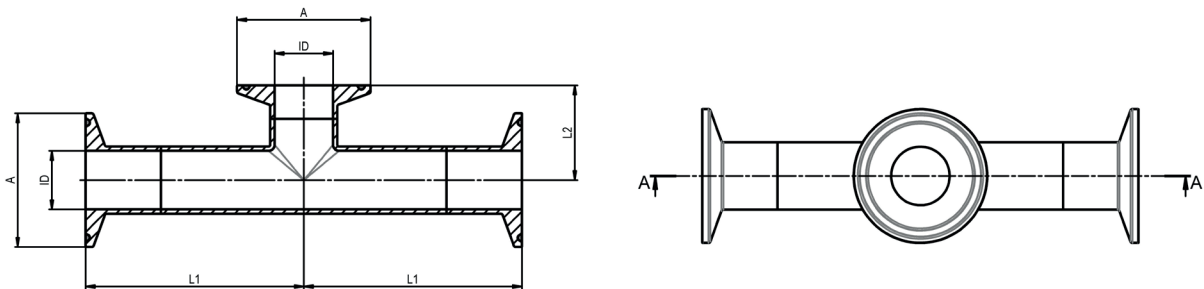
DIMENSION	A (mm)	AD (mm)	ID (mm)	L1 (mm)	L2 (mm)	Item No.
According to DIN 32676 Row B, ISO 1127						
ISO DN	8	25,00	13,50	10,30	60,50	121.K.I-008.025.EP
ISO DN	8	50,50	13,50	10,30	60,50	121.K.I-008.050.EP
ISO DN	10	25,00	17,20	14,00	62,50	121.K.I-010.025.EP
ISO DN	10	50,50	17,20	14,00	62,50	121.K.I-010.050.EP
ISO DN	15	50,50	21,30	18,10	64,50	121.K.I-015.050.EP
ISO DN	20	50,50	26,90	23,70	83,50	121.K.I-020.050.EP
ISO DN	25	50,50	33,70	29,70	88,50	121.K.I-025.050.EP
ISO DN	32	64,00	42,40	38,40	93,50	121.K.I-032.064.EP
ISO DN	40	64,00	48,30	44,30	93,50	121.K.I-040.064.EP
ISO DN	50	77,50	60,30	56,30	118,50	121.K.I-050.077.EP
ISO DN	65	91,00	76,10	72,10	138,50	121.K.I-065.091.EP

Tri-Clamp Fittings

SHORT TRI-CLAMP T-PIECE 2/2

DIMENSIONS OF SHORT TRI-CLAMP T-PIECE

DIMENSION		A (mm)	AD (mm)	ID (mm)	L1 (mm)	L2 (mm)	Item No.
According to DIN 32676 Row C, ASME BPE 2009							
OD	1/2"	25,00	12,70	9,40	76,10	39,90	121.K.A-050.025.EP
OD	3/4"	25,00	19,05	15,75	79,30	39,50	121.K.A-075.025.EP
OD	1"	50,50	25,40	22,10	82,50	35,80	121.K.A-100.050.EP
OD	1 1/2"	50,50	38,10	34,80	88,80	42,20	121.K.A-150.050.EP
OD	2"	64,00	50,80	47,50	101,50	50,00	121.K.A-200.064.EP
OD	2 1/2"	77,50	63,50	60,20	107,90	57,40	121.K.A-250.077.EP
OD	3"	91,00	76,20	72,90	114,20	64,70	121.K.A-300.091.EP
OD	4"	119,00	101,60	97,40	126,90	77,40	121.K.A-400.119.EP



Tri-Clamp Fittings

CONCENTRIC TRI-CLAMP REDUCERS

Standards

According to DIN 32676 Row C (ASME BPE 2009)

Material

Stainless Steel 1.4435 BN2 (Fe < 0,5%) according to EN 10088

Sterilization temperature

150°C

Application

Pharmaceutical and biotechnology industries

Type of Construction / Surface quality

- Inner surface: sanded and polished
- Weld-on ends for orbital-welding
- Ra internal < 0,4 µm

Hygienic tube class

H 3 / H 4 according to DIN 11866

Marking

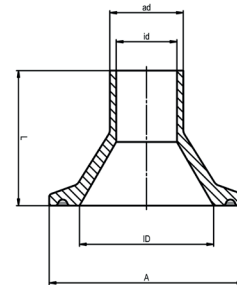
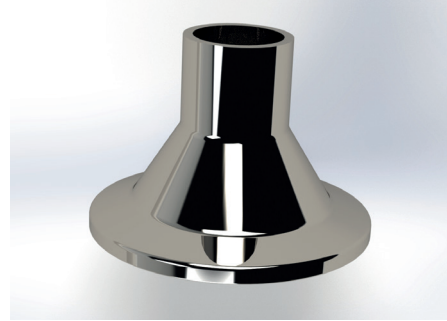
Dimension, material, casting number

Certificates

Certificate according to EN 10204-3.1

Option

- Electropolishing (EP)
- Other sizes and / or combinations available on request



Remark

Technical changes reserved

DIMENSIONS OF CONCENTRIC TRI-CLAMP REDUCERS

DIMENSION		A (mm)	ID (mm)	ad (mm)	id (mm)	L (mm)	Item No.
According to DIN 32676 Row C (ASME BPE 2009)							
OD	3/4" - 1/2"	25,00	15,75	12,70	9,40	40,00	108.025.A-075.A-050.BWE.XX
OD	1" - 1/2"	50,50	22,10	12,70	9,40	35,00	108.050.A-100.A-050.BWE.XX
OD	1" - 3/4"	50,50	22,10	19,05	15,75	35,00	108.050.A-100.A-075.BWE.XX
OD	1 1/2" - 1/2"	50,50	34,80	12,70	9,40	35,00	108.050.A-150.A-050.BWE.XX
OD	1 1/2" - 3/4"	50,50	34,80	19,05	15,75	35,00	108.050.A-150.A-075.BWE.XX
OD	1 1/2" - 1"	50,50	34,80	25,40	22,10	35,00	108.050.A-150.A-100.BWE.XX
OD	2" - 1/2"	64,00	47,50	12,70	9,40	35,00	108.064.A-200.A-050.BWE.XX
OD	2" - 3/4"	64,00	47,50	19,10	15,75	35,00	108.064.A-200.A-075.BWE.XX
OD	2" - 1"	64,00	47,50	25,40	22,10	35,00	108.064.A-200.A-100.BWE.XX
OD	2" - 1 1/2"	64,00	47,50	38,10	34,80	35,00	108.064.A-200.A-150.BWE.XX
OD	2 1/2" - 1/2"	77,50	60,20	12,70	9,40	35,00	108.077.A-250.A-050.BWE.XX
OD	2 1/2" - 3/4"	77,50	60,20	19,10	15,75	35,00	108.077.A-250.A-075.BWE.XX
OD	2 1/2" - 1"	77,50	60,20	25,40	22,10	35,00	108.077.A-250.A-100.BWE.XX
OD	2 1/2" - 1 1/2"	77,50	60,20	38,10	34,80	35,00	108.077.A-250.A-150.BWE.XX
OD	2 1/2" - 2"	77,50	60,20	50,80	47,50	35,00	108.077.A-250.A-200.BWE.XX
OD	3" - 1/2"	91,00	72,90	12,70	9,40	35,00	108.091.A-300.A-050.BWE.XX
OD	3" - 3/4"	91,00	72,90	19,10	15,75	35,00	108.091.A-300.A-075.BWE.XX
OD	3" - 1"	91,00	72,90	25,40	22,10	35,00	108.091.A-300.A-100.BWE.XX
OD	3" - 1 1/2"	91,00	72,90	38,10	34,80	35,00	108.091.A-300.A-150.BWE.XX
OD	3" - 2"	91,00	72,90	50,80	47,50	35,00	108.091.A-300.A-200.BWE.XX
OD	3" - 2 1/2"	91,00	72,90	63,50	60,20	35,00	108.091.A-300.A-250.BWE.XX
OD	4" - 1/2"	119,00	97,40	12,70	9,40	35,00	108.119.A-400.A-050.BWE.XX
OD	4" - 3/4"	119,00	97,40	19,10	15,75	35,00	108.119.A-400.A-075.BWE.XX
OD	4" - 1"	119,00	97,40	25,40	22,10	35,00	108.119.A-400.A-100.BWE.XX
OD	4" - 1 1/2"	119,00	97,40	38,10	34,80	35,00	108.119.A-400.A-150.BWE.XX
OD	4" - 2"	119,00	97,40	50,80	47,50	35,00	108.119.A-400.A-200.BWE.XX
OD	4" - 2 1/2"	119,00	97,40	63,50	60,20	35,00	108.119.A-400.A-250.BWE.XX
OD	4" - 3"	119,00	97,40	76,20	72,90	35,00	108.119.A-400.A-300.BWE.XX

.XX = EP, Electropolishing

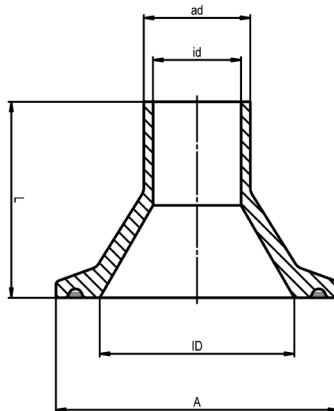
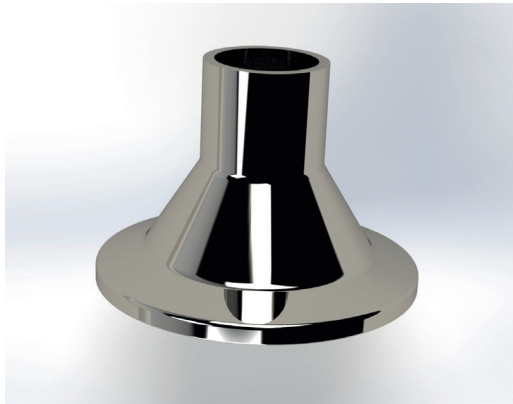
Tri-Clamp Fittings

CONCENTRIC TRI-CLAMP REDUCERS 2/2

DIMENSIONS OF CONCENTRIC TRI-CLAMP REDUCERS

DIMENSION	A (mm)	ID (mm)	ad (mm)	id (mm)	L (mm)	Item No.	
According to DIN 32676 Row B, ISO 1127							
ISO DN	50 - 8	77,50	56,30	13,50	10,30	35,00	108.077.I-050.I-008.BWE.XX
ISO DN	50 - 10	77,50	56,30	17,20	14,00	35,00	108.077.I-050.I-010.BWE.XX
ISO DN	50 - 15	77,50	56,30	21,30	18,10	35,00	108.077.I-050.I-015.BWE.XX
ISO DN	50 - 20	77,50	56,30	26,90	23,70	35,00	108.077.I-050.I-020.BWE.XX
ISO DN	50 - 25	77,50	56,30	33,70	29,70	35,00	108.077.I-050.I-025.BWE.XX
ISO DN	50 - 32	77,50	56,30	42,40	38,40	35,00	108.077.I-050.I-032.BWE.XX
ISO DN	50 - 40	77,50	56,30	48,30	44,30	35,00	108.077.I-050.I-040.BWE.XX
ISO DN	65 - 8	91,00	72,10	13,50	10,30	35,00	108.091.I-065.I-008.BWE.XX
ISO DN	65 - 10	91,00	72,10	17,20	14,00	35,00	108.091.I-065.I-010.BWE.XX
ISO DN	65 - 15	91,00	72,10	21,30	18,10	35,00	108.091.I-065.I-015.BWE.XX
ISO DN	65 - 20	91,00	72,10	26,90	23,70	35,00	108.091.I-065.I-020.BWE.XX
ISO DN	65 - 25	91,00	72,10	33,70	29,70	35,00	108.091.I-065.I-025.BWE.XX
ISO DN	65 - 32	91,00	72,10	42,40	38,40	35,00	108.091.I-065.I-032.BWE.XX
ISO DN	65 - 40	91,00	72,10	48,30	44,30	35,00	108.091.I-065.I-040.BWE.XX
ISO DN	65 - 50	91,00	72,10	60,30	56,30	35,00	108.091.I-065.I-050.BWE.XX

.XX = EP, Electropolishing



Tri-Clamp Fittings

ADAPTER - CONCENTRIC TRI-CLAMP REDUCERS

Standards

DIN 32676 Row C (ASME-BPE 2009)

Material

Stainless Steel 1.4435 BN2 (Fe < 0,5%) according to EN 10088

Sterilization temperature

150°C

Application

Pharmaceutical and biotechnology industries

Type of Construction / Surface quality

- Inner surface: sanded and polished
- Ra internal < 0,4 µm

Hygienic tube class

H 3 / H 4 according to DIN 11866

Marking

Dimension, material, casting number

Certificates

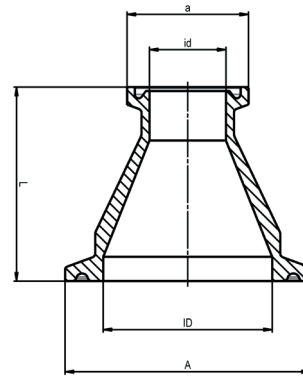
Certificate according to EN 10204-3.1

Option

- Electropolishing (EP)
- Other sizes and / or combinations available on request

Remark

Technical changes reserved



DIMENSIONS OF ADAPTER - CONCENTRIC TRI-CLAMP REDUCERS

DIMENSION		A (mm)	ID (mm)	a (mm)	id (mm)	L (mm)	Item No.
DIN 32676 Row C (ASME-BPE 2009)							
OD	3/4" - 1/2"	25,00	15,75	25,00	9,40	40,00	108.025.A-075.A-050.025.XX
OD	1" - 1/2"	50,50	22,10	25,00	9,40	40,00	108.050.A-100.A-050.025.XX
OD	1" - 3/4"	50,50	22,10	25,00	15,75	40,00	108.050.A-100.A-075.025.XX
OD	1 1/2" - 1/2"	50,50	34,80	25,00	9,40	40,00	108.050.A-150.A-050.025.XX
OD	1 1/2" - 3/4"	50,50	34,80	25,00	15,75	40,00	108.050.A-150.A-075.025.XX
OD	1 1/2" - 1"	50,50	34,80	50,50	22,10	40,00	108.050.A-150.A-100.050.XX
OD	2" - 1/2"	64,00	47,50	25,00	9,40	60,00	108.064.A-200.A-050.025.XX
OD	2" - 3/4"	64,00	47,50	25,00	15,75	60,00	108.064.A-200.A-075.025.XX
OD	2" - 1"	64,00	47,50	50,50	22,10	45,00	108.064.A-200.A-100.050.XX
OD	2" - 1 1/2"	64,00	47,50	50,50	34,80	45,00	108.064.A-200.A-150.050.XX
OD	2 1/2" - 1/2"	77,5	60,20	25,00	9,40	55,00	108.077.A-250.A-050.025.XX
OD	2 1/2" - 3/4"	77,5	60,20	25,00	15,75	55,00	108.077.A-250.A-075.025.XX
OD	2 1/2" - 1"	77,5	60,20	50,50	22,10	45,00	108.077.A-250.A-100.050.XX
OD	2 1/2" - 1 1/2"	77,5	60,20	50,50	34,80	45,00	108.077.A-250.A-150.050.XX
OD	2 1/2" - 2"	77,5	60,20	64,00	47,50	45,00	108.077.A-250.A-200.050.XX
OD	3" - 1/2"	91,00	72,90	25,00	9,40	75,00	108.091.A-300.A-050.025.XX
OD	3" - 3/4"	91,00	72,90	25,00	15,75	75,00	108.091.A-300.A-075.025.XX
OD	3" - 1"	91,00	72,90	50,50	22,10	60,00	108.091.A-300.A-100.050.XX
OD	3" - 1 1/2"	91,00	72,90	50,50	34,80	60,00	108.091.A-300.A-150.050.XX
OD	3" - 2"	91,00	72,90	64,00	47,50	60,00	108.091.A-300.A-200.064.XX
OD	3" - 2 1/2"	91,00	72,90	77,50	60,20	60,00	108.091.A-300.A-250.077.XX
OD	4" - 1/2"	119,00	97,40	25,00	9,40	80,00	108.119.A-400.A-050.025.XX
OD	4" - 3/4"	119,00	97,40	25,00	15,75	80,00	108.119.A-400.A-075.025.XX
OD	4" - 1"	119,00	97,40	50,50	22,10	80,00	108.119.A-400.A-100.050.XX
OD	4" - 1 1/2"	119,00	97,40	50,50	34,80	80,00	108.119.A-400.A-150.050.XX
OD	4" - 2"	119,00	97,40	64,00	47,50	80,00	108.119.A-400.A-200.064.XX
OD	4" - 2 1/2"	119,00	97,40	77,50	60,20	80,00	108.119.A-400.A-250.077.XX
OD	4" - 3"	119,00	97,40	91,00	72,90	80,00	108.119.A-400.A-300.091.XX

.XX = EP, Electropolishing

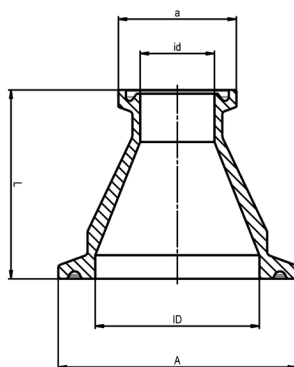
Tri-Clamp Fittings

ADAPTER - CONCENTRIC TRI-CLAMP REDUCERS 2/2

DIMENSIONS OF ADAPTER - CONCENTRIC TRI-CLAMP REDUCERS

DIMENSION		A (mm)	ID (mm)	a (mm)	id (mm)	L (mm)	Item No.
According to DIN 32676 Row B (ISO 1127)							
ISO DN	40 - 8	64,00	44,30	25,00	10,30	60,00	108.064.I-040.I-008.025.XX
ISO DN	40 - 8	64,00	44,30	50,50	10,30	45,00	108.064.I-040.I-008.050.XX
ISO DN	40 - 10	64,00	44,30	25,00	14,00	60,00	108.064.I-040.I-010.025.XX
ISO DN	40 - 10	64,00	44,30	50,50	14,00	45,00	108.064.I-040.I-010.050.XX
ISO DN	40 - 15	64,00	44,30	50,50	18,10	45,00	108.064.I-040.I-015.050.XX
ISO DN	40 - 20	64,00	44,30	50,50	23,70	45,00	108.064.I-040.I-020.050.XX
ISO DN	40 - 25	64,00	44,30	50,50	29,70	45,00	108.064.I-040.I-025.050.XX
ISO DN	40 - 32	64,00	44,30	64,00	38,40	45,00	108.064.I-040.I-032.064.XX
ISO DN	50 - 8	77,50	56,30	25,00	10,30	60,00	108.077.I-050.I-008.025.XX
ISO DN	50 - 8	77,50	56,30	50,50	10,30	45,00	108.077.I-050.I-008.050.XX
ISO DN	50 - 10	77,50	56,30	25,00	14,00	60,00	108.077.I-050.I-010.025.XX
ISO DN	50 - 10	77,50	56,30	50,50	14,00	45,00	108.077.I-050.I-010.050.XX
ISO DN	50 - 15	77,50	56,30	50,50	18,10	45,00	108.077.I-050.I-015.050.XX
ISO DN	50 - 20	77,50	56,30	50,50	23,70	45,00	108.077.I-050.I-020.050.XX
ISO DN	50 - 25	77,50	56,30	50,50	29,70	45,00	108.077.I-050.I-025.050.XX
ISO DN	50 - 32	77,50	56,30	64,00	38,40	45,00	108.077.I-050.I-032.064.XX
ISO DN	50 - 40	77,50	56,30	64,00	44,30	45,00	108.077.I-050.I-040.064.XX
ISO DN	65 - 8	91,00	72,10	25,00	10,30	60,00	108.091.I-065.I-008.025.XX
ISO DN	65 - 8	91,00	72,10	50,50	10,30	60,00	108.091.I-065.I-008.050.XX
ISO DN	65 - 10	91,00	72,10	25,00	14,00	60,00	108.091.I-065.I-010.025.XX
ISO DN	65 - 10	91,00	72,10	50,50	14,00	60,00	108.091.I-065.I-010.050.XX
ISO DN	65 - 15	91,00	72,10	50,50	18,10	60,00	108.091.I-065.I-015.050.XX
ISO DN	65 - 20	91,00	72,10	50,50	23,70	60,00	108.091.I-065.I-020.050.XX
ISO DN	65 - 25	91,00	72,10	50,50	29,70	60,00	108.091.I-065.I-025.050.XX
ISO DN	65 - 32	91,00	72,10	64,00	38,40	60,00	108.091.I-065.I-032.064.XX
ISO DN	65 - 40	91,00	72,10	64,00	44,30	60,00	108.091.I-065.I-040.064.XX
ISO DN	65 - 50	91,00	72,10	77,50	56,30	60,00	108.091.I-065.I-050.077.XX

.XX = EP, Electropolishing



Tri-Clamp Fittings

ADAPTER - EXCENTRIC TRI-CLAMP REDUCERS

Standards

DIN 32676 Row C (ASME-BPE 2009)

Material

Stainless Steel 1.4435 BN2 (Fe < 0,5%) according to EN 10088

Sterilization temperature

150°C

Application

Pharmaceutical and biotechnology industries

Type of Construction / Surface quality

- Inner surface: sanded and polished
- Ra internal < 0,4 µm

Hygienic tube class

H 3 / H 4 according to DIN 11866

Marking

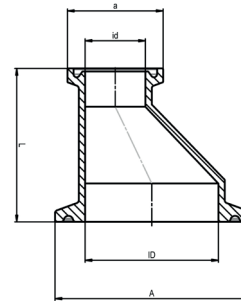
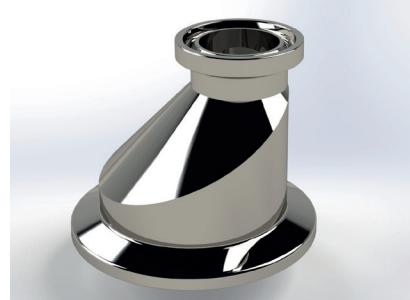
Dimension, material, casting number

Certificates

Certificate according to EN 10204-3.1

Option

- Electropolishing (EP)
- Other sizes and / or combinations available on request



Remark

Technical changes reserved

DIMENSIONS OF ADAPTER - EXCENTRIC TRI-CLAMP REDUCERS

DIMENSION		A (mm)	ID (mm)	a (mm)	id (mm)	L (mm)	Item No.
DIN 32676 Row C (ASME-BPE 2009)							
OD	3/4" - 1/2"	25,00	15,75	25,00	9,40	40,00	108.025.A-075.A-050.025.XX
OD	1" - 1/2"	50,50	22,10	25,00	9,40	40,00	109.050.A-100.A-050.025.XX
OD	1" - 3/4"	50,50	22,10	25,00	15,75	40,00	109.050.A-100.A-075.025.XX
OD	1 1/2" - 1/2"	50,50	34,80	25,00	9,40	40,00	109.050.A-150.A-050.025.XX
OD	1 1/2" - 3/4"	50,50	34,80	25,00	15,75	40,00	109.050.A-150.A-075.025.XX
OD	1 1/2" - 1"	50,50	34,80	50,00	22,10	40,00	109.050.A-150.A-100.050.XX
OD	2" - 1/2"	64,00	47,50	25,00	9,40	60,00	109.064.A-200.A-050.025.XX
OD	2" - 3/4"	64,00	47,50	25,00	15,80	60,00	109.064.A-200.A-075.025.XX
OD	2" - 1"	64,00	47,50	50,00	22,10	45,00	109.064.A-200.A-100.050.XX
OD	2" - 1 1/2"	64,00	47,50	50,00	34,80	45,00	109.064.A-200.A-150.050.XX
OD	2 1/2" - 1/2"	77,50	60,20	25,00	9,40	60,00	109.077.A-250.A-050.025.XX
OD	2 1/2" - 3/4"	77,50	60,20	25,00	15,75	60,00	109.077.A-250.A-075.025.XX
OD	2 1/2" - 1"	77,50	60,20	50,50	22,10	45,00	109.077.A-250.A-100.050.XX
OD	2 1/2" - 1 1/2"	77,50	60,20	50,50	34,80	45,00	109.077.A-250.A-150.050.XX
OD	2 1/2" - 2"	77,50	60,20	64,00	47,50	45,00	109.077.A-250.A-200.050.XX
OD	3" - 1/2"	91,00	72,90	25,00	9,40	60,00	109.091.A-300.A-050.025.XX
OD	3" - 3/4"	91,00	72,90	25,00	15,75	60,00	109.091.A-300.A-075.025.XX
OD	3" - 1"	91,00	72,90	50,00	22,10	45,00	109.091.A-300.A-100.050.XX
OD	3" - 1 1/2"	91,00	72,90	50,00	34,80	45,00	109.091.A-300.A-150.050.XX
OD	3" - 2"	91,00	72,90	64,00	47,50	45,00	109.091.A-300.A-200.064.XX
OD	3" - 2 1/2"	91,00	72,90	77,50	60,20	45,00	109.091.A-300.A-250.077.XX
OD	4" - 1/2"	119,00	97,40	25,00	9,40	60,00	109.119.A-400.A-050.025.XX
OD	4" - 3/4"	119,00	97,40	25,00	15,75	60,00	109.119.A-400.A-075.025.XX
OD	4" - 1"	119,00	97,40	50,00	22,10	45,00	109.119.A-400.A-100.050.XX
OD	4" - 1 1/2"	119,00	97,40	50,00	34,80	45,00	109.119.A-400.A-150.050.XX
OD	4" - 2"	119,00	97,40	64,00	47,50	45,00	109.119.A-400.A-200.064.XX
OD	4" - 2 1/2"	119,00	97,40	77,50	60,20	45,00	109.119.A-400.A-250.077.XX
OD	4" - 3"	119,00	97,40	91,00	72,90	45,00	109.119.A-400.A-300.091.XX

.XX = EP, Electropolishing

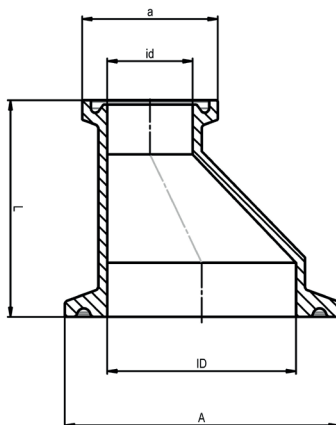
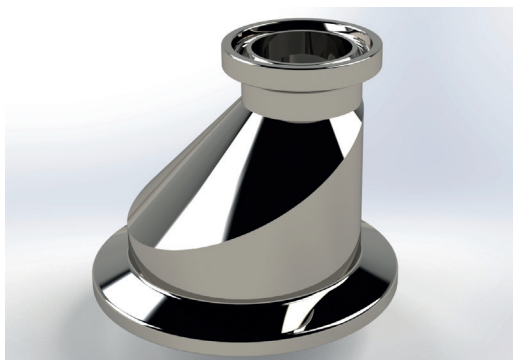
Tri-Clamp Fittings

EXCENTRIC TRI-CLAMP REDUCERS 2/2

DIMENSIONS OF ADAPTER - EXCENTRIC TRI-CLAMP REDUCERS

DIMENSION		A (mm)	ID (mm)	a (mm)	id (mm)	L (mm)	Item No.
According to DIN 32676 Row B (ISO 1127)							
ISO DN	40 - 8	64,00	44,30	25,00	10,30	60,00	109.064.I-040.I-008.025.XX
ISO DN	40 - 8	64,00	44,30	50,50	10,30	45,00	109.064.I-040.I-008.050.XX
ISO DN	40 - 10	64,00	44,30	25,00	14,00	60,00	109.064.I-040.I-010.025.XX
ISO DN	40 - 10	64,00	44,30	50,50	14,00	45,00	109.064.I-040.I-010.050.XX
ISO DN	40 - 15	64,00	44,30	50,50	18,10	45,00	109.064.I-040.I-015.050.XX
ISO DN	40 - 20	64,00	44,30	50,50	23,70	45,00	109.064.I-040.I-020.050.XX
ISO DN	40 - 25	64,00	44,30	50,50	29,70	45,00	109.064.I-040.I-025.050.XX
ISO DN	40 - 32	64,00	44,30	64,00	38,40	45,00	109.064.I-040.I-032.064.XX
ISO DN	50 - 8	77,50	56,30	25,00	10,30	60,00	109.077.I-050.I-008.025.XX
ISO DN	50 - 8	77,50	56,30	50,50	10,30	45,00	109.077.I-050.I-008.050.XX
ISO DN	50 - 10	77,50	56,30	25,00	14,00	60,00	109.077.I-050.I-010.025.XX
ISO DN	50 - 10	77,50	56,30	50,50	14,00	45,00	109.077.I-050.I-010.050.XX
ISO DN	50 - 15	77,50	56,30	50,50	18,10	45,00	109.077.I-050.I-015.050.XX
ISO DN	50 - 20	77,50	56,30	50,50	23,70	45,00	109.077.I-050.I-020.050.XX
ISO DN	50 - 25	77,50	56,30	50,50	29,70	45,00	109.077.I-050.I-025.050.XX
ISO DN	50 - 32	77,50	56,30	64,00	38,40	45,00	109.077.I-050.I-032.064.XX
ISO DN	50 - 40	77,50	56,30	64,00	44,30	45,00	109.077.I-050.I-040.064.XX
ISO DN	65 - 8	91,00	72,10	25,00	10,30	60,00	109.091.I-065.I-008.025.XX
ISO DN	65 - 8	91,00	72,10	50,50	10,30	45,00	109.091.I-065.I-008.050.XX
ISO DN	65 - 10	91,00	72,10	25,00	14,00	60,00	109.091.I-065.I-010.025.XX
ISO DN	65 - 10	91,00	72,10	50,50	14,00	45,00	109.091.I-065.I-010.050.XX
ISO DN	65 - 15	91,00	72,10	50,50	18,10	45,00	109.091.I-065.I-015.050.XX
ISO DN	65 - 20	91,00	72,10	50,50	23,70	45,00	109.091.I-065.I-020.050.XX
ISO DN	65 - 25	91,00	72,10	50,50	29,70	45,00	109.091.I-065.I-025.050.XX
ISO DN	65 - 32	91,00	72,10	64,00	38,40	45,00	109.091.I-065.I-032.064.XX
ISO DN	65 - 40	91,00	72,10	64,00	44,30	45,00	109.091.I-065.I-040.064.XX
ISO DN	65 - 50	91,00	72,10	77,50	56,30	45,00	109.091.I-065.I-050.077.XX

.XX = EP, Electropolishing



Tri-Clamp Fittings

FEMALE THREADED TRI-CLAMP ADAPTER

Standards

ISO 2852. thread: DIN 2999

Material

Stainless Steel 1.4435 BN2 (Fe < 0,5%) according to EN 10088

Sterilization temperature

150°C

Application

Pharmaceutical and biotechnology industries

Type of Construction / Surface quality

- Outer surface: Ra < 0,8 µm
- Inner surface : Ra < 0,4 µm

Hygienic tube class

H 3 / H 4 according to DIN 11866

Marking

Dimension, material, casting number

Certificates

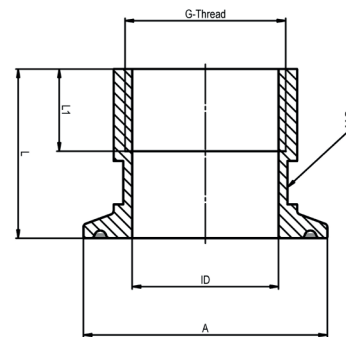
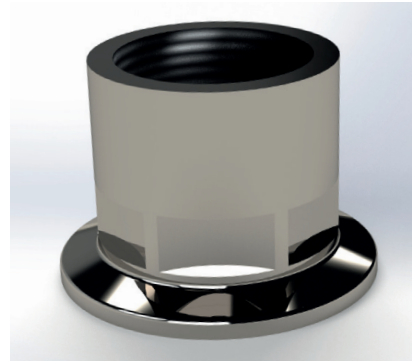
Certificate according to EN 10204-3.1

Option

- Electropolishing (EP)
- Other sizes and / or combinations available on request

Remark

- According to DIN 2999 the pipe threads are designated with IR, e.g. R2 DIN 2999, however the dimensions are identical
- Technical changes reserved



DIMENSIONS OF FEMALE THREADED TRI-CLAMP ADAPTER

DIMENSION		L1 (mm)	A (mm)	ID (mm)	L (mm)	Item No.
TC according to ISO 2852 / according to thread						
IG R	1/8	12,00	25,00	8,60	30,00	105.0125.025.XX
IG R	1/4	12,00	25,00	11,50	30,00	105.0250.025.XX
IG R	3/8	12,00	25,00	15,00	30,00	105.0375.025.XX
IG R	1/8	12,00	50,50	8,60	30,00	105.0125.050.XX
IG R	1/4	12,00	50,50	11,50	30,00	105.0250.050.XX
IG R	3/8	12,00	50,50	15,00	30,00	105.0375.050.XX
IG R	1/2	14,00	34,00	18,60	30,00	105.0500.034.XX
IG R	1/2	14,00	50,50	18,60	30,00	105.0500.050.XX
IG R	3/4	14,50	50,50	24,10	30,00	105.0750.050.XX
IG R	1	17,00	50,50	30,30	35,00	105.1000.050.XX
IG R	1 1/4	17,00	64,00	39,00	35,00	105.1250.064.XX
IG R	1 1/2	19,00	64,00	44,90	40,00	105.1500.064.XX
IG R	2	19,00	77,50	56,70	40,00	105.2000.077.XX
.XX = EP, Electropolishing						

Tri-Clamp Fittings

MALE THREADED TRI-CLAMP ADAPTER

Standards

ISO 2852, thread: DIN 2999

Material

Stainless Steel 1.4435 BN2 (Fe < 0,5%) according to EN 10088

Sterilization temperature

150°C

Application

Pharmaceutical and biotechnology industries

Type of Construction / Surface quality

- Outer surface: Ra < 0,8 µm
- Inner surface: Ra < 0,4 µm

Hygienic tube class

H 3 / H 4 according to DIN 11866

Marking

Dimension, material, casting number

Certificates

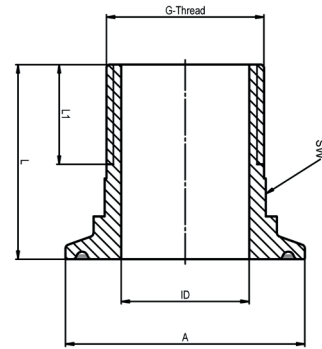
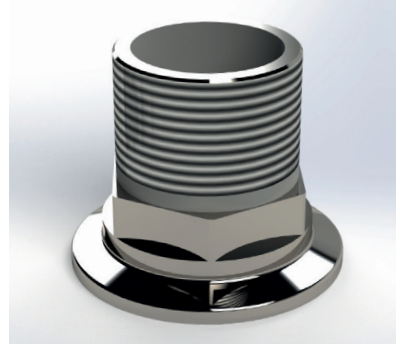
Certificate according to EN 10204-3.1

Option

- Electropolishing (EP)
- Other sizes and / or combinations available on request

Remark

- According to DIN 2999 the threads of the pipes are designated with IR, e.g. R2 DIN 2999, however the dimensions are identical
- Technical changes reserved



DIMENSIONS OF MALE THREADED TRI-CLAMP ADAPTER

DIMENSION	L1 (mm)	A (mm)	ID (mm)	L (mm)	Item No.	
TC according to ISO 2852 / according to thread						
AG R	1/8	10,00	25,00	6,00	30,00	106.0125.025.XX
AG R	1/4	10,00	25,00	9,00	30,00	106.0250.025.XX
AG R	3/8	12,00	25,00	12,50	30,00	106.0375.025.XX
AG R	1/8	10,00	50,50	6,00	30,00	106.0125.050.XX
AG R	1/4	10,00	50,50	9,00	30,00	106.0250.050.XX
AG R	3/8	12,00	50,50	12,50	30,00	106.0375.050.XX
AG R	1/2	13,00	50,50	16,00	30,00	106.0500.050.XX
AG R	3/4	18,00	50,50	22,00	35,00	106.0750.050.XX
AG R	1	21,00	50,50	27,00	41,00	106.1000.050.XX
AG R	1 1/4	18,00	64,00	35,50	35,00	106.1250.064.XX
AG R	1 1/4	18,00	77,50	35,50	35,00	106.1250.077.XX
AG R	1 1/4	18,00	91,00	35,50	35,00	106.1250.091.XX
AG R	1 1/2	20,00	50,50	35,50	40,00	106.1500.050.XX
AG R	1 1/2	20,00	64,00	35,50	40,00	106.1500.064.XX
AG R	2	20,00	64,00	47,50	40,00	106.2000.064.XX
AG R	2	20,00	77,50	47,50	40,00	106.2000.077.XX
.XX = EP, Electropolishing						