

ASEPTIC O-RING FITTINGS



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Aseptic O-Ring fittings

FEMALE UNION

Standards

According to aseptic standards with tube according to ISO 1127 / DIN 11850

Material

Stainless Steel 1.4435 BN2 (Fe < 0,5%) according to EN 10088-1

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, manufacturer

Certificates

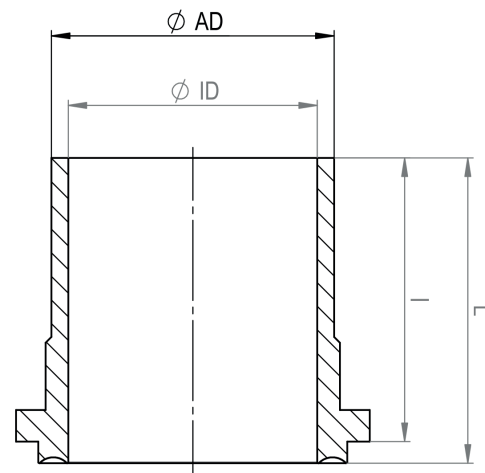
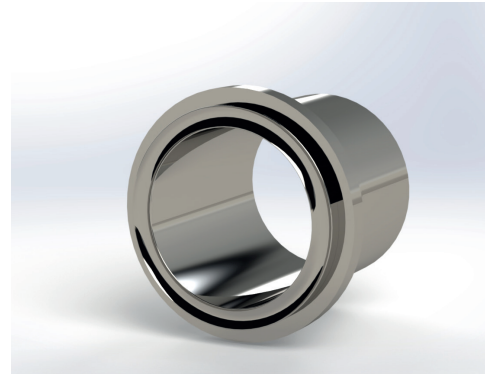
Certificate according to EN 10204-3.1

Option

- Electropolishing (EP)
- Other sizes available on request

Remarks

Technical changes reserved



DIMENSIONS OF FEMALE UNION

DIMENSION	AD (mm)	ID (mm)	l (mm)	L (mm)	Item No.	
According to ISO 1127						
ISO DN	8	13,50	10,30	26,00	28,00	120.I-008.BUN.XX
ISO DN	10	17,20	14,00	26,95	29,00	120.I-010.BUN.XX
ISO DN	15	21,30	18,10	26,95	29,00	120.I-015.BUN.XX
ISO DN	20	26,90	23,70	26,95	29,00	120.I-020.BUN.XX
ISO DN	25	33,70	29,70	27,95	30,00	120.I-025.BUN.XX
ISO DN	32	42,40	38,40	29,95	32,00	120.I-032.BUN.XX
ISO DN	40	48,30	44,30	29,95	32,00	120.I-040.BUN.XX
ISO DN	50	60,30	56,30	29,95	32,00	120.I-050.BUN.XX
According to DIN 11850						
DIN DN	4	6,00	4,00	26,00	28,00	120.D-004.BUN.XX
DIN DN	6	8,00	6,00	26,00	28,00	120.D-006.BUN.XX
DIN DN	8	10,00	8,00	26,00	28,00	120.D-008.BUN.XX
DIN DN	10	12,00	10,00	26,00	28,00	120.D-010.BUN.XX
.XX = EP, Electropolishing						

Aseptic O-Ring fittings

UNION NUT

Standards

According to aseptic standards

Material

Stainless Steel 1.4301 acc. EN 10088-1

Sterilization temperature

150°C

Application

Pharmaceutical and biotechnology industries

Form

Up to ISO DN 15: ISO hex nut DN 20: fluted nut

Type of Construction / Surface quality

Outer surface: Ra < 1,0 µm

Marking

On request: laser marking

Certificates

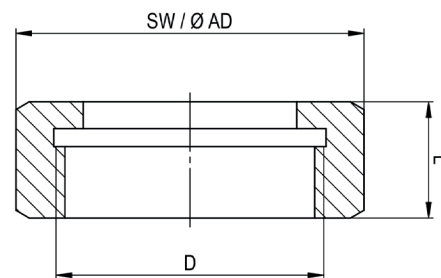
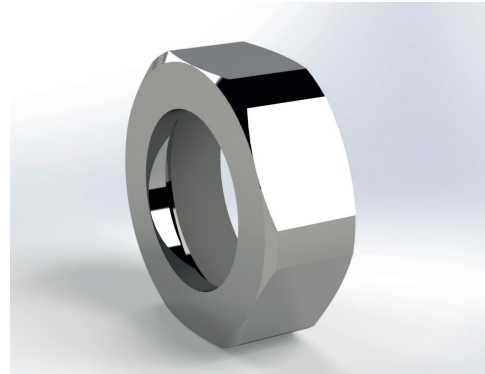
On request: acceptance certificate according to EN 10204-2.2

Option

- Electropolishing (EP)
- Other sizes available on request

Remarks

Technical changes reserved



DIMENSIONS OF UNION NUT

DIMENSION	D	L (mm)	SW	Ø AD (mm)	Item No.	
According to Aseptconn standards						
ISO DN	8	M 22 x 1.5	12,00	27,00	30,00	120.I-008.UEM.XX
ISO DN	10	M 26 x 1.5	13,00	32,00	35,00	120.I-010.UEM.XX
ISO DN	15	M 30 x 2.0	13,00	36,00	39,00	120.I-015.UEM.XX
ISO DN	20	M 36 x 2.0	13,00	-	48,00	120.I-020.UEM.XX
ISO DN	25	M 42 x 2.0	15,00	-	52,00	120.I-025.UEM.XX
ISO DN	32	M 52 x 2.0	18,00	-	62,00	120.I-032.UEM.XX
ISO DN	40	M 56 x 2.0	18,00	-	65,00	120.I-040.UEM.XX
ISO DN	50	M 68 x 2.0	18,00	-	80,00	120.I-050.UEM.XX
According to Aseptconn standards						
DIN DN	4	M 16 x 1.5	12,00	19,00	21,00	120.D-004.UEM.XX
DIN DN	6	M 16 x 1.5	12,00	19,00	21,00	120.D-006.UEM.XX
DIN DN	8	M 18 x 1.5	12,00	22,00	24,00	120.D-008.UEM.XX
DIN DN	10	M 22 x 1.5	12,00	27,00	30,00	120.D-010.UEM.XX
.XX = EP, Electropolishing						

Aseptic O-Ring fittings

MALE UNION

Standards

According to aseptic standards with tube according to ISO 1127 / DIN 11850

Material

Stainless Steel 1.4435 BN2 (Fe < 0,5%) according to EN 10088-1

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, manufacturer

Certificates

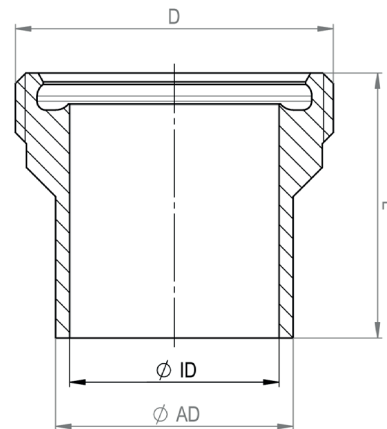
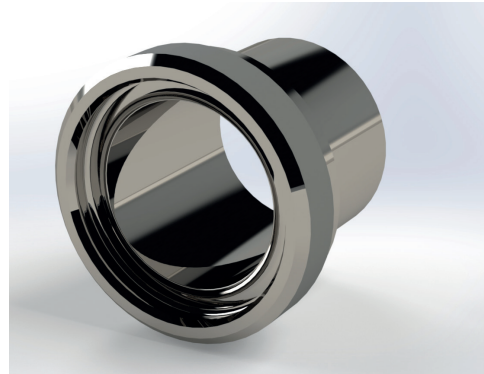
Certificate according to EN 10204-3.1

Option

- Electropolishing (EP)
- Other sizes available on request

Remarks

Technical changes reserved



DIMENSIONS OF MALE UNION

DIMENSION	AD (mm)	ID (mm)	D (mm)	L (mm)	Item No.
According to ISO 1127					
ISO DN 8	13,50	10,30	M 22 x 1.5	32,00	120.I-008.GEW.XX
ISO DN 10	17,20	14,00	M 26 x 1.5	31,00	120.I-010.GEW.XX
ISO DN 15	21,30	18,10	M 30 x 2.0	32,00	120.I-015.GEW.XX
ISO DN 20	26,90	23,70	M 36 x 2.0	30,00	120.I-020.GEW.XX
ISO DN 25	33,70	29,70	M 42 x 2.0	32,00	120.I-025.GEW.XX
ISO DN 32	42,40	38,40	M 52 x 2.0	34,00	120.I-032.GEW.XX
ISO DN 40	48,30	44,30	M 56 x 2.0	34,00	120.I-040.GEW.XX
ISO DN 50	60,30	56,30	M 68 x 2.0	34,00	120.I-050.GEW.XX
According to DIN 11850					
DIN DN 4	6,00	4,00	M 16 x 1.5	31,00	120.D-004.GEW.XX
DIN DN 6	8,00	6,00	M 16 x 1.5	31,00	120.D-006.GEW.XX
DIN DN 8	10,00	8,00	M 18 x 1.5	31,00	120.D-008.GEW.XX
DIN DN 10	12,00	10,00	M 22 x 1.5	31,00	120.D-010.GEW.XX
.XX = EP, Electropolishing					

Aseptic O-Ring fittings

O-RINGS

Standards

According to aseptic standards

Material

Virgin PTFE (Polytetrafluorethylen), Coated (FEP/MVQ)
 Viton®, Vinylidenfluorid Polymerase and Hexafluoropropylene
 Platinum cured Silicone, EPDM Ethyl-Propylene-Dien-Rubber,
 Viton®

Sterilization temperature

- EPDM: 132°C (almost at 150°C), Silicone, Viton® and Teflon® (PTFE): 150°C
 - FEP/MVQ: -60 to +200 °C

Application

Pharmaceutical and biotechnology industries

Type of Construction / Surface quality

- Smooth, non-porous surface, free of blind spots
 - Edges free of burrs

Marking

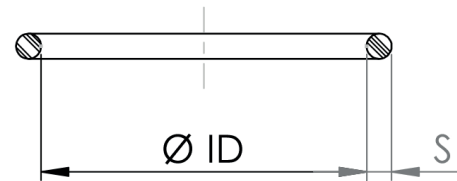
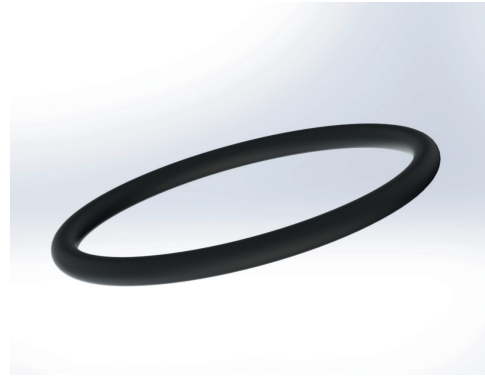
Marking on packaged units

Certificates

- Incl. Certificate of conformity FDA-21 CFR 177.2600 for Elastomers
 - Incl. Certificate of conformity FDA-21 CFR 177.1550 for PTFE
 - Incl. USP Class VI
 - Animal Derived Ingredients free (ADI) and are therefore BSE/ TSE free with respect to source, manufacturing and treatment according to RoHS and REACH guidelines

Option

Other sizes available on request



Remarks

- Technical changes reserved
 - Viton® and Teflon® are registered trademarks of Dupont Dow Elastomers

DIMENSIONS OF O-RINGS

DIMENSION	ID (mm)	S (mm)	EPDM	Silicone	Viton®	PTFE	Coated (FEP/MVQ)
According to ISO 1127			Item No.	Item No.	Item No.	Item No.	Item No.
ISO DN 8	10,00	2,50	120.I-008.ORI.EPD	120.I-008.ORI.SIL	120.I-008.ORI.VIT	120.I-008.ORI.TEF	120.I-008.ORI.FEP
ISO DN 10	14,00	3,00	120.I-010.ORI.EPD	120.I-010.ORI.SIL	120.I-010.ORI.VIT	120.I-010.ORI.TEF	120.I-010.ORI.FEP
ISO DN 15	18,00	3,00	120.I-015.ORI.EPD	120.I-015.ORI.SIL	120.I-015.ORI.VIT	120.I-015.ORI.TEF	120.I-015.ORI.FEP
ISO DN 20	24,00	3,00	120.I-020.ORI.EPD	120.I-020.ORI.SIL	120.I-020.ORI.VIT	120.I-020.ORI.TEF	120.I-020.ORI.FEP
ISO DN 25	30,00	3,00	120.I-025.ORI.EPD	120.I-025.ORI.SIL	120.I-025.ORI.VIT	120.I-025.ORI.TEF	120.I-025.ORI.FEP
ISO DN 32	39,00	3,00	120.I-032.ORI.EPD	120.I-032.ORI.SIL	120.I-032.ORI.VIT	120.I-032.ORI.TEF	120.I-032.ORI.FEP
ISO DN 40	45,00	3,00	120.I-040.ORI.EPD	120.I-040.ORI.SIL	120.I-040.ORI.VIT	120.I-040.ORI.TEF	120.I-040.ORI.FEP
ISO DN 50	56,00	3,00	120.I-050.ORI.EPD	120.I-050.ORI.SIL	120.I-050.ORI.VIT	120.I-050.ORI.TEF	120.I-050.ORI.FEP
According to DIN 11850			Item No.	Item No.	Item No.	Item No.	Item No.
DIN DN 4	4,00	2,00	120.D-004.ORI.EPD	120.D-004.ORI.SIL	120.D-004.ORI.VIT	120.D-004.ORI.TEF	120.D-004.ORI.FEP
DIN DN 6	6,00	2,50	120.D-006.ORI.EPD	120.D-006.ORI.SIL	120.D-006.ORI.VIT	120.D-006.ORI.TEF	120.D-006.ORI.FEP
DIN DN 8	8,00	2,50	120.D-008.ORI.EPD	120.D-008.ORI.SIL	120.D-008.ORI.VIT	120.D-008.ORI.TEF	120.D-008.ORI.FEP
DIN DN 10	10,00	2,50	120.D-010.ORI.EPD	120.D-010.ORI.SIL	120.D-010.ORI.VIT	120.D-010.ORI.TEF	120.D-010.ORI.FEP

Chemical resistance of the material : see chapter Tri-Clamp Connections

Aseptic O-Ring fittings

FEMALE BLIND COVER

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Application

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- 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, manufacturer

Certificates

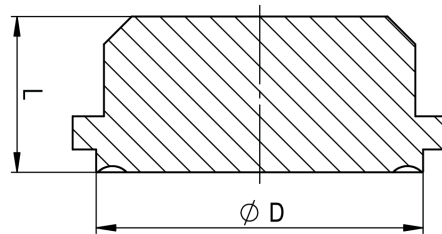
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Option

- Electropolishing (EP)
- Other sizes available on request

Remarks

Technical changes reserved



DIMENSIONS OF FEMALE BLIND COVER

DIMENSION	L (mm)	D (mm)	Item No.
According to ISO 1127			
ISO DN 8	12,00	15,10	120.I-008.BBD.XX
ISO DN 10	14,00	19,90	120.I-010.BBD.XX
ISO DN 15	14,00	23,90	120.I-015.BBD.XX
ISO DN 20	14,00	29,40	120.I-020.BBD.XX
ISO DN 25	14,00	35,60	120.I-025.BBD.XX
ISO DN 32	17,00	44,25	120.I-032.BBD.XX
ISO DN 40	17,00	50,20	120.I-040.BBD.XX
ISO DN 50	17,00	61,15	120.I-050.BBD.XX
According to DIN 11850			
DIN DN 4	12,00	7,90	120.D-004.BBD.XX
DIN DN 6	12,00	10,90	120.D-006.BBD.XX
DIN DN 8	12,00	12,90	120.D-008.BBD.XX
DIN DN 10	12,00	14,90	120.D-010.BBD.XX
.XX = EP, Electropolishing			

Aseptic O-Ring fittings

MALE BLIND COVER

Standards

According to aseptic standards with tube according to ISO 1127 / DIN 11850

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Hygienic tube class

H 3 / H 4 according to DIN 11866

Marking

Dimension, material, casting number, manufacturer

Certificates

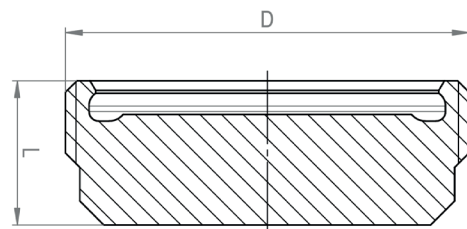
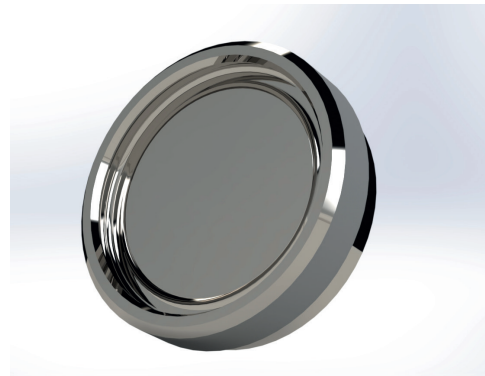
Certificate according to EN 10204-3.1

Option

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- Other sizes available on request

Remarks

Technical changes reserved



DIMENSIONS OF FEMALE BLIND COVER

DIMENSION	D	L (mm)	Item No.	
According to ISO 1127				
ISO DN	8	M 22 x 1.5	13,00	120.I-008.GBD.XX
ISO DN	10	M 26 x 1.5	14,00	120.I-010.GBD.XX
ISO DN	15	M 30 x 2.0	15,00	120.I-015.GBD.XX
ISO DN	20	M 36 x 2.0	15,00	120.I-020.GBD.XX
ISO DN	25	M 42 x 2.0	15,00	120.I-025.GBD.XX
ISO DN	32	M 52 x 2.0	16,00	120.I-032.GBD.XX
ISO DN	40	M 56 x 2.0	16,00	120.I-040.GBD.XX
ISO DN	50	M 68 x 2.0	18,00	120.I-050.GBD.XX
According to DIN 11850				
DIN DN	4	M 16 x 1.5	12,00	120.D-004.GBD.XX
DIN DN	6	M 16 x 1.5	12,00	120.D-006.GBD.XX
DIN DN	8	M 18 x 1.5	12,00	120.D-008.GBD.XX
DIN DN	10	M 22 x 1.5	12,00	120.D-010.GBD.XX
.XX = EP, Electropolishing				