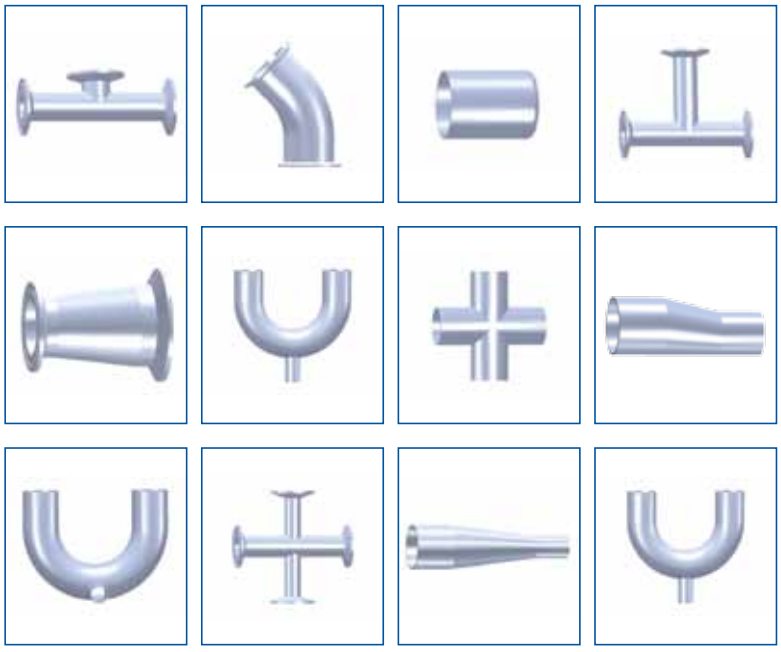
Gillain & Co

HYGIENIC EQUIPMENT FOR FOOD & LIFE SCIENCES

NL

# ASME BPE - Buizen en fittings





Mastering Purity

Méér dan 135 jaar ervaring in de hoge en ultrahoge zuiverheidssectoren

Contact







Gillain & Co is een toonaangevende leverancier voor bedrijven die behoefte hebben aan hoge of ultrahoge zuiverheid.

- Eindgebruikers (farmaceutica, voeding, bio-technologie, halfgeleiderindustrie, ...)
- Machine- apparaten- en tankenbouw
- Montage- en installatiebedrijven
- Engineering contractors
- Onderhoud-, reparatie- en re-visieondernemingen

"Hygienic equipment" omvat alle apparatuur, onderdelen, assemblages en systemen.

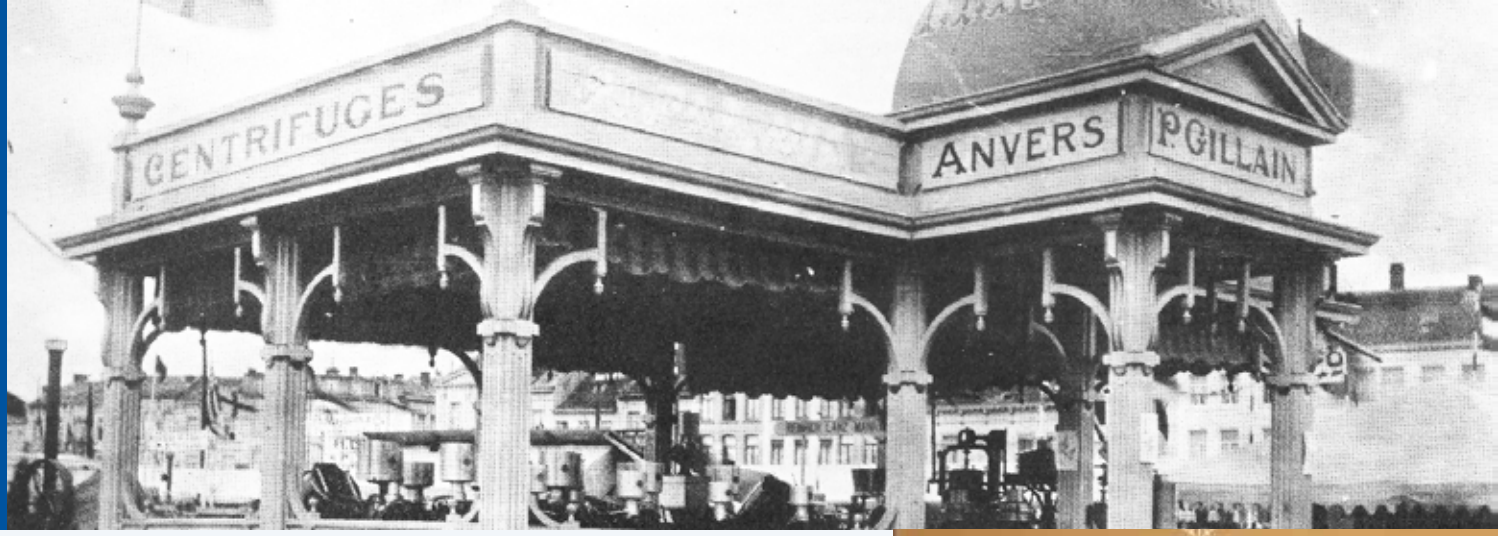
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# Een complete ASME BPE productrange voor de Life Sciences-industrie

Gillain & Co
HYGIENIC EQUIPMENT FOR FOOD & LIFE SCIENCES


| | |
|---|---|
| Over Gillain & Co | p. 4-5 |
| Acceptatiecriteria | p. 6 |
| Oppervlakteafwerkingen | p. 7 |
| Buizen | p. 8 |
| Fittings - overzicht | p. 10-11 |
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| Waarom Gillain & Co ? | p. 36 |




# Gillain & Co, 135 jaar van vertrouwen en expertise

135

**1875**
Paul Gillain, afkomstig van Dinant, vestigt zich in Antwerpen als handelaar en importeert vooral lijnkoeken en veevoeder.

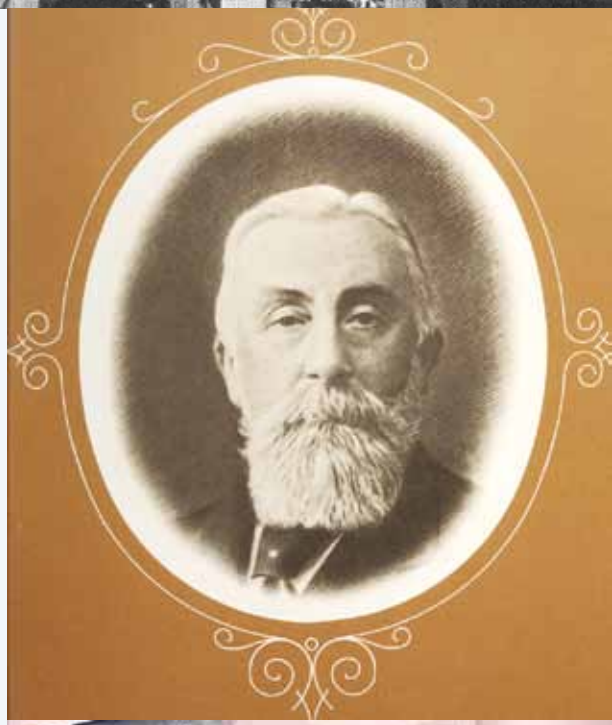
**1885 - 1887**
Als gedreven ondernemer met veel zin voor innovatie brengt hij een eigen gebrevetteerde ontromer op de markt en introduceert hij de centrifugale ontromer “Alfa Laval” in België.

**1913 - 1918**
Paul Gillain richt een fabriek van houtbewerkingsmachines en gasmotoren op die vanaf 1914 gevestigd is in Kontich. Bij het uitbreken van WO I neemt de bezetter de voortreffelijke uitrusting in beslag. Na de oorlog focust Paul Gillain vooral op de invoer van uitrustingen voor de zuivelsector, landbouwmateriaal en houtbewerkingsmachines.

**1924 - 1952**
René Gillain volgt zijn vader op in 1924. Naast de zetel in Antwerpen zijn er ook fillialen in Eisden en Luxemburg (stad). In 1952 nemen Joseph en Fernand Gillain de leiding over. Het veelvuldig gebruik van roestvrij staal bij het vervaardigen van de apparatuur ligt aan de basis van een aanzienlijke uitbreiding. De afdelingen “Brouwerij”, “Industrie” en “Farmaceutica” worden opgestart.

**1971 - 2001**
Het succesvolle bedrijf verhuist in 1971 naar een gloednieuw gebouw in Aartselaar. Vanaf 1977 werken Guy en Patrick Gillain (4de generatie) actief mee in het familiebedrijf dat aanhoudend groeit. In 1986 worden de opslagplaatsen uitgebreid voor de roestvrij stalen buizen. Vanaf 1987 realiseert Gillain & Co wereldwijd omvangrijke turnkey projecten. Guy Gillain komt in 1990 aan het hoofd van het bedrijf en bouwt de specialisatie in het ontwerpen, monteren en leveren van hygiënische installaties verder uit. In 2001 neemt Fabricom GDF SUEZ de afdeling “Systemen en projecten” over. Gillain & Co blijft autonoom en is vanaf dan een hooggespecialiseerde leverancier van componenten en apparatuur voor de voeding en life sciences.

**2001 - heden**
Gillain & Co verkrijgt in 2004 opnieuw de exclusieve vertegenwoordiging in België voor Alfa Laval (voeding en farma). In 2008 wordt het magazijn aanzienlijk vergroot en geautomatiseerd om klanten nog beter en sneller te kunnen bedienen en een volledige traceerbaarheid van de onderdelen te waarborgen. Met een doorgedreven kennis van hygiënische processen en een uitgebreid gamma is Gillain & Co nog altijd de partner bij uitstek voor bedrijven die veilig én kostenefficiënt willen produceren.










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# Hygiëne - zuiver onze tweede natuur

Gillain & Co is een gespecialiseerde leverancier van hygiënische componenten en apparatuur voor Life Sciences-toepassingen. Gillain & Co verdeelt gecertificeerde en traceerbare producten die essentieel zijn voor de complexe productieprocessen in deze veeleisende industrieën. Wij luisteren altijd naar de specifieke noden van onze klanten en in combinatie met onze beproefde praktijkervaring stellen wij altijd veilige oplossingen voor die naadloos aansluiten bij de eisen van productiebedrijven in de Life Sciences.

### Altijd alert

Het geheim van ons succes is eenvoudig. Wij monitoren continu wereldwijd nieuwe markt- en technologieontwikkelingen en passen ons assortiment aan wanneer wij ervaren dat dit onze klanten ten goede komt. Dit garandeert de allerbeste oplossingen tegen de allerbeste voorwaarden zodat Gillain & Co-klanten steeds mogen rekenen op de **hoogste veiligheid en kwaliteit** en **meer kostenefficiënt kunnen produceren**.

### 135 jaar van vertrouwen en expertise

Met een marktaanwezigheid van meer dan een eeuw in de hoge en ultrahoge zuiverheidssectoren heeft Gillain & Co een betrouwbare reputatie opgebouwd en een expertpositie verworven. Wij zijn bevoorrechte leverancier van toonaangevende bedrijven in de volgende marktsegmenten:

- Chemie, farmaceutica en cosmetica
- Fijne chemie en biotechnologie
- Pure gassen en micro-elektronica
- Voeding en zuivel
- Brouwerijen en dranken

# Procesomvattend aanbod

Gillain & Co levert roestvrij stalen hygiënische onderdelen en apparatuur voor elk stadium van het productieproces:

- Flow equipment
  Pijplijncomponenten, verbindingen (fittings) tussen buizen.
  Buizen voor het transport van vloeistoffen of gassen.
- Process equipment
  Procescomponenten voor de behandeling van vloeistof of gassen.
- Pre-engineered solutions
  Vooraf gefabriceerde process units.
- Vervangonderdelen

# ASME - BPE (Bio Processing Equipment) standaardspecificaties

**ASME BPE 2007**

**Ontwerpvoorschiften:** automatisch lassen, ovaliteit, wanddikte, en haaksheid.
**Traceerbaarheid:** onuitwisbaar gemerkt: gietnummer, afmeting, kwaliteit, oppervlakteafwerking, materiaal, jobnummer.
**Testrapporten beschikbaar op eenvoudig verzoek.**
**Verpakking:** kleurgecodeerde beschermingskapjes aan de uiteinden, individueel verpakt in een transparante verpakking in kunststof en voorzien van een label met gedetailleerde productinformatie.

# Acceptatiecriteria voor inwendige oppervlakteafwerking

| ANOMALIE / INDICATIE | ACCEPTATIECRITERIA |
|---|---|
| Verzameling van putjes | Niet geaccepteerd. |
| Verkleuring (scheidingslijn) | Indien < 5% van de totale oppervlake en de Ra-waarde is behaald. (visuele inspectie) |
| Korrellijnen | Indien de Ra is behaald. |
| Langsnaden | Indien egaal gepolijst en de Ra-waarde is behaald. |
| Inkepingen | Niet geaccepteerd. |
| Oxides | Niet geaccepteerd. |
| Putjes | Indien de diamater < 0.020" en glanzende bodem. |
| Krassen | Indien de lengte < 0.25", de diepte < 0.003" en de Ra-waarde is behaald. |
| Stervormige barstjes | Niet geaccepteerd. |
| Oppervlakkige barstjes | Niet geaccepteerd. |
| Oppervlakkige insluiting | Indien de Ra-waarde behaald is en er geen aanwijzing van vloeistofpenetratie is. |
| Oppervlakkige restanten | Niet geaccepteerd. Visuele inspectie zonder vergroting. |
| Oppervlakteruwheid (Ra) | Zie tabel ‘Oppervlakteafwerkingen’ op de volgende pagina. |
| Watervlekken | Indien er geen afzetting is. |
| Lasslak | Niet geaccepteerd. |
| Lasnaadporeusheid | Niet geaccepteerd. |

# Ra-waarden (oppervlakteruwheid)

De Ra-waarden worden gemeten volgens de gebruikelijke methodes. U kan voor meer informatie hierover bij ons terecht. Andere Ra-waarden zijn mogelijk indien deze op voorhand worden afgesproken.
Neem hiervoor contact op met ons via telefoon +32 (0)3 870 60 80 of stuur een e-mail naar advice@gillain.com.

# Oppervlakteafwerkingen

| Combinatiecode voor het polijsten | INWENDIGE OPPERVLAKTE (ID) | | | UITWENDIGE OPPERVLAKTE (OD) | | | ASME BPE oppervlakte-aanduiding |
|---|---|---|---|---|---|---|---|
| | Maximale op-pervlakteruw-heid | | Oppervlakte-afwerking | Maximale oppervlak-teruwheid | | Oppervlakte-afwerking | |
| | µ-in | µ-m | | µ-in | µ-m | | |
| 3/PC | 20 | 0.5 | mechanisch gepolijst | | | niet gepolijst | SF1 |
| 7/PL | 20 | 0.5 | mechanisch gepolijst | 32 | 0.8 | mechanisch gepolijst | SF1 |
| 3/PD | 15 | 0.375 | mechanisch en elektrolytisch gepolijst | | | niet gepolijst | SF4 |
| 7/PM | 15 | 0.375 | mechanisch en elektrolytisch gepolijst | 32 | 0.8 | mechanisch gepolijst | SF4 |

# Oppervlakteafwerkingen - conversietabel

| STANDAARDKOR-REL | Ra | | RMS | |
|---|---|---|---|---|
| | µ-in | µ-m | µ-in | µ-m |
| 150 | 27-32 | 0.68-0.80 | 30-35 | 0.76-0.89 |
| 180 | 18-23 | 0.46-0.58 | 20-25 | 0.51-0.64 |
| 240 | 14-18 | 0.34-0.46 | 15-20 | 0.38-0.51 |
| 320 | 8-10 | 0.21-0.25 | 9-11 | 0.23-0.28 |





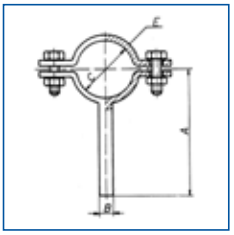

# Roestvrij stalen buizen, direct leverbaar uit voorraad

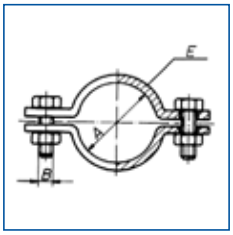
In de hoge en ultrahoge zuiverheidsindustrieën is absolute hygiëne gedurende het volledige productieproces noodzakelijk. Daarom worden uitsluitend buizen, toebehoren en afsluiters met een zeer glad binnenoppervlak gebruikt. Naast een zeer goede reinigbaarheid vermijdt dit het nestelen van bacteriën en laat het de productie toe van WFI (water for injection). Onze buizen worden geproduceerd, gecontroleerd, gemerkt en gecertificeerd volgens de strengste normen. Gillain & Co waarborgt kwaliteit en traceerbaarheid.

De volgende roestvrij stalen buizen zijn op voorraad in kwaliteit 316L - met een lage zwavelinhoud van 0.005 - 0.017% - en in afwerkingen SF1 en SF4 (volgens ASME BPE):

| Nominale afmeting | Buitendiameter x Wanddikte mm. |
|---|---|
| 1/4" | 6.35 × 0.89 |
| 3/8" | 9.53 × 0.89 |
| 1/2" | 12.70 × 1.65 |
| 3/4" | 19.05 × 1.65 |
| 1" | 25.40 × 1.65 |
| 1½" | 38.10 × 1.65 |
| 2" | 50.80 × 1.65 |
| 2½" | 63.50 × 1.65 |
| 3" | 76.20 × 1.65 |
| 4" | 101.60 × 2.11 |
| 6" | 152.40 × 2.77 |

Toleranties volgens ASTM A 270 Supplement 2





## Pijpbeugel voor duimse buis
## Pijpbeugel met gladde as voor duimse buis

| Afmeting | A | E |
|---|---|---|
| 1" | 25.40 | 30 × 3 |
| 1¼" | 31.80 | 30 × 3 |
| 1½" | 38.10 | 30 × 3 |
| 2" | 50.80 | 30 × 3 |
| 2½" | 63.50 | 30 × 3 |
| 3" | 76.20 | 30 × 3 |
| 4" | 101.60 | 30 × 3 |

A13MHM



## Klem - enkel-scharnierend

| Afmeting | A |
|---|---|
| 1" | 53.90 |
| 1½" | 53.90 |
| 2" | 67.40 |
| 2½" | 80.90 |
| 3" | 94.40 |
| 4" | 122.40 |



## Klem - dubbel-scharnierend

| Afmeting | A |
|---|---|
| 1/2" | 28.60 |
| 3/4" | 28.60 |
| 1" | 54.00 |
| 1½" | 54.00 |
| 2" | 67.40 |
| 2½" | 80.90 |
| 3" | 94.40 |
| 4" | 122.40 |
| 6" | 170.40 |
| 8" | 221.20 |
| 10" | 272.00 |

**Klem uit drie segmenten eveneens verkrijgbaar.**





## Clamp

p. 12-18

DT-21
16AMP



DT-21
B31-14MP



DT-21
B32-14MP



DT-17
B2KMP



DT-16
B2CMP



DT-18
B7MP



DT-27
B7MPS



DT-19
B7RMP



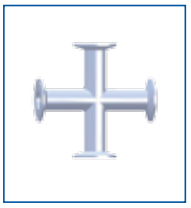
DT-20
B7RMPS



DT-19
B7REMP



DT-18
B9MP



B9RMP



## Las

p. 27-34

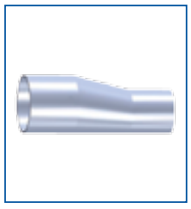
DT-30
B16W



DT-11
B31



DT-11
B32



DT-8
B2KS



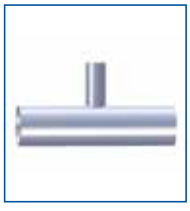
DT-7
B2S



DT-9
B7WWW



DT-10
B7RWWW



B7ERWWW



DT-9
B9WWWW



B9RWWWW



B29RBW



B29RSW









# Clamp - las

p. 19-26

DT-22
BS14AM



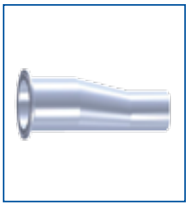
B14W



DT-26
B31M



DT-26
B32M



DT-13
B2KMW



DT-12
B2CMW



B7WWM



DT-15
B7WWMS



B7RWWM



DT-14
B7RWWMS



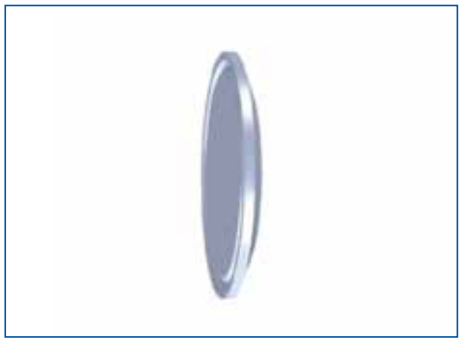
B2UMPBOA

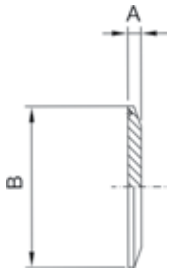


B2UMPSOA



## 16AMP
## BPE Blinde ferrule

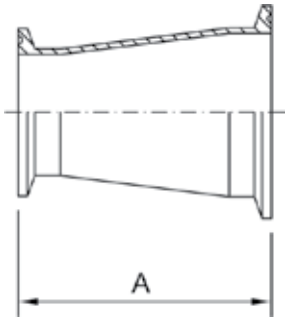





| Afmeting | A | B |
|---|---|---|
| 1/2" | 6.35 | 25.00 |
| 3/4" | 6.35 | 25.00 |
| 1" | 6.35 | 50.40 |
| 1½" | 6.35 | 50.40 |
| 2" | 6.35 | 63.91 |
| 2½" | 6.35 | 77.50 |
| 3" | 6.35 | 90.90 |
| 4" | 7.90 | 118.92 |
| 6" | 11.10 | 166.68 |

## B31-14MP
## BPE Concentrisch Verloopstuk C x C

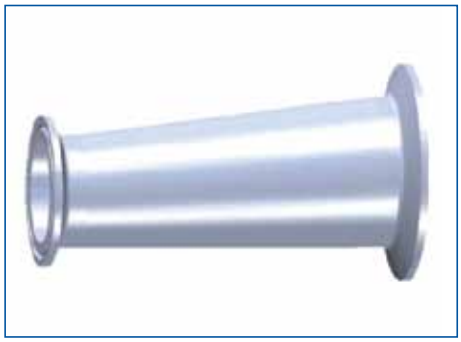


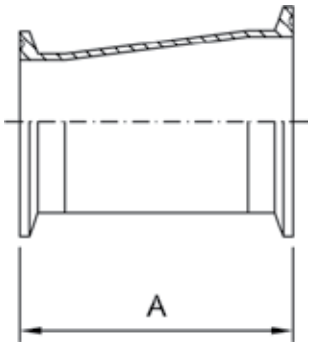



| Afmeting | A |
|---|---|
| 3/4" × 1/2" | 50.80 |
| 1" × 1/2" | 63.50 |
| 1" × 3/4" | 50.80 |
| 1½" × 1/2" | 88.90 |
| 1½" × 3/4" | 76.20 |
| 1½" × 1" | 76.20 |
| 2" × 1/2" | 139.70 |
| 2" × 3/4" | 127.00 |
| 2" × 1" | 127.00 |
| 2" × 1½" | 76.20 |
| 2½" × 1" | 177.80 |
| 2½" × 1½" | 127.00 |
| 2½" × 2" | 76.20 |
| 3" × 1" | 228.60 |
| 3" × 1½" | 177.80 |
| 3" × 2" | 127.00 |
| 3" × 2½" | 76.20 |
| 4" × 1" | 333.38 |
| 4" × 1½" | 282.58 |
| 4" × 2" | 231.78 |
| 4" × 2½" | 180.98 |
| 4" × 3" | 130.18 |
| 6" × 3" | 190.50 |
| 6" × 4" | 193.68 |

BPE-TABEL nr. DT-21

## B32-14MP
## BPE Excentrisch Verloopstuk C x C

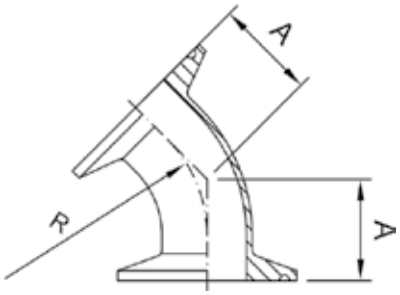





BPE-TABEL nr. DT-21

| Afmeting | | | A |
|---|---|---|---|
| 3/4" | × | 1/2" | 50.80 |
| 1" | × | 1/2" | 63.50 |
| 1" | × | 3/4" | 50.80 |
| 1½" | × | 1/2" | 88.90 |
| 1½" | × | 3/4" | 76.20 |
| 1½" | × | 1" | 76.20 |
| 2" | × | 1/2" | 139.70 |
| 2" | × | 3/4" | 127.00 |
| 2" | × | 1" | 127.00 |
| 2" | × | 1½" | 76.20 |
| 2½" | × | 1" | 177.80 |
| 2½" | × | 1½" | 127.00 |
| 2½" | × | 2" | 76.20 |
| 3" | × | 1" | 228.60 |
| 3" | × | 1½" | 177.80 |
| 3" | × | 2" | 127.00 |
| 3" | × | 2½" | 76.20 |
| 4" | × | 1" | 333.38 |
| 4" | × | 1½" | 282.58 |
| 4" | × | 2" | 231.78 |
| 4" | × | 2½" | 180.98 |
| 4" | × | 3" | 130.18 |
| 6" | × | 3" | 190.50 |
| 6" | × | 4" | 193.68 |

## B2KMP
## BPE Bocht 45° C x C



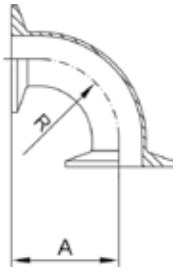



BPE-TABEL nr. DT-17

| Afmeting | A | R |
|---|---|---|
| 1/2" | 25.4 | 28.6 |
| 3/4" | 25.4 | 28.6 |
| 1" | 28.6 | 38.1 |
| 1½" | 36.6 | 57.2 |
| 2" | 44.5 | 76.2 |
| 2½" | 52.3 | 95.3 |
| 3" | 60.3 | 114.3 |
| 4" | 79.4 | 152.4 |
| 6" | 133.4 | 228.6 |
| 8" | 139.7 | 304.8 |
| 10" | 168.3 | 381.0 |

## B2CMP
## BPE Bocht 90° C x C



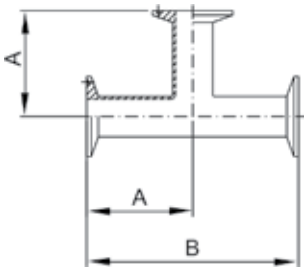



| Afmeting | A | R |
|---|---|---|
| 1/2" | 41.30 | 28.6 |
| 3/4" | 41.30 | 28.6 |
| 1" | 50.80 | 38.1 |
| 1½" | 69.85 | 57.2 |
| 2" | 88.90 | 76.1 |
| 2½" | 108.00 | 95.3 |
| 3" | 127.00 | 114.3 |
| 4" | 168.30 | 152.4 |
| 6" | 266.70 | 228.6 |

BPE-TABEL nr. DT-16

## B7MP
## BPE Gelijke Tee C x C x C

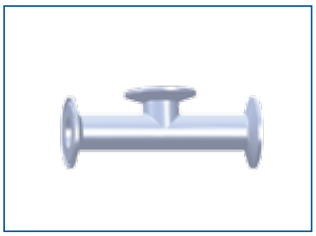


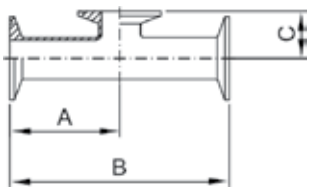



| Afmeting | A | B |
|---|---|---|
| 1/2" | 57.2 | 114.3 |
| 3/4" | 60.3 | 120.6 |
| 1" | 66.7 | 133.4 |
| 1½" | 73.0 | 146.0 |
| 2" | 85.7 | 171.5 |
| 2½" | 92.1 | 184.2 |
| 3" | 98.4 | 196.9 |
| 4" | 120.7 | 241.3 |
| 6" | 181.0 | 362.0 |

BPE-TABEL nr. DT-18

## B7MPS
## BPE Korte Tee C x C x C

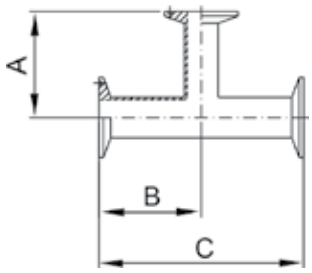





| Afmeting | A | B | C |
|---|---|---|---|
| 1/2" | 57.2 | 114.3 | 25.4 |
| 3/4" | 60.3 | 120.6 | 28.6 |
| 1" | 66.7 | 133.4 | 28.6 |
| 1½" | 73.0 | 146.0 | 34.9 |
| 2" | 85.7 | 171.5 | 41.3 |
| 2½" | 92.1 | 184.2 | 47.6 |
| 3" | 98.4 | 196.9 | 54.0 |
| 4" | 120.7 | 241.3 | 69.9 |
| 6" | 181.0 | 362.0 | 117.5 |

## B7RMP
## BPE Reduceer-T-stuk C x C x C



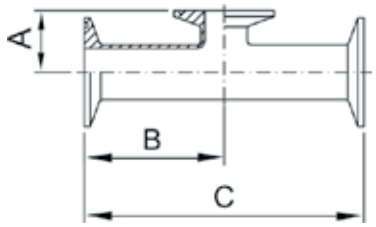



| Afmeting | A | B | C |
|---|---|---|---|
| 3/4" × 1/2" | 63.50 | 63.50 | 127.00 |
| 1" × 1/2" | 66.68 | 66.68 | 133.35 |
| 1" × 3/4" | 66.68 | 66.68 | 133.35 |
| 1½" × 1/2" | 73.03 | 73.03 | 146.05 |
| 1½" × 3/4" | 73.03 | 73.03 | 146.05 |
| 1½" × 1" | 73.03 | 73.03 | 146.05 |
| 2" × 1/2" | 79.38 | 85.73 | 171.45 |
| 2" × 3/4" | 79.38 | 85.73 | 171.45 |
| 2" × 1" | 79.38 | 85.73 | 171.45 |
| 2" × 1½" | 79.38 | 85.73 | 171.45 |
| 2½" × 1" | 85.73 | 92.08 | 184.15 |
| 2½" × 1½" | 85.73 | 92.08 | 184.15 |
| 2½" × 2" | 85.73 | 92.08 | 184.15 |
| 3" × 1" | 92.08 | 98.43 | 196.85 |
| 3" × 1½" | 92.08 | 98.43 | 196.85 |
| 3" × 2 | 98.43 | 98.43 | 196.85 |
| 3" × 2½" | 98.43 | 98.43 | 196.85 |
| 4" × 1" | 104.78 | 120.65 | 241.30 |
| 4" × 1½" | 104.78 | 120.65 | 241.30 |
| 4" × 2" | 111.13 | 120.65 | 241.30 |
| 4" × 2½" | 111.13 | 120.65 | 241.30 |
| 4" × 3" | 111.13 | 120.65 | 241.30 |
| 6" × 3" | 136.53 | 181.00 | 361.95 |
| 6" × 4" | 146.05 | 181.00 | 361.95 |

BPE-TABEL nr. DT-19

## B7RMPS
## BPE Kort Reduceer-T-stuk C x C x C

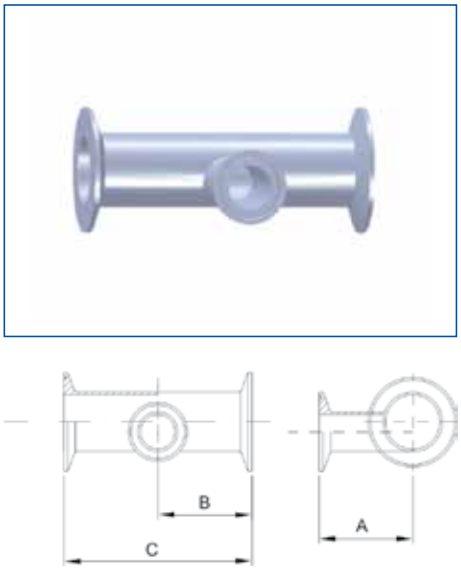





BPE-TABEL nr. DT-20

| Afmeting | | | A | B | C |
|---|---|---|---|---|---|
| 3/4" | × | 1/2" | 25.40 | 63.50 | 127.00 |
| 1" | × | 1/2" | 28.58 | 66.68 | 133.35 |
| 1" | × | 3/4" | 28.58 | 66.68 | 133.35 |
| 1½" | × | 1/2" | 34.93 | 73.03 | 146.05 |
| 1½" | × | 3/4" | 34.93 | 73.03 | 146.05 |
| 1½" | × | 1" | 34.93 | 73.03 | 146.05 |
| 2" | × | 1/2" | 41.28 | 85.73 | 171.45 |
| 2" | × | 3/4" | 41.28 | 85.73 | 171.45 |
| 2" | × | 1" | 41.28 | 85.73 | 171.45 |
| 2" | × | 1½" | 41.28 | 85.73 | 171.45 |
| 2½" | × | 1" | 47.63 | 92.08 | 184.15 |
| 2½" | × | 1½" | 47.63 | 92.08 | 184.15 |
| 2½" | × | 2" | 47.63 | 92.08 | 184.15 |
| 3" | × | 1" | 54.00 | 98.43 | 196.85 |
| 3" | × | 1½" | 54.00 | 98.43 | 196.85 |
| 3" | × | 2" | 54.00 | 98.43 | 196.85 |
| 3" | × | 2½" | 54.00 | 98.43 | 196.85 |
| 4" | × | 1" | 66.68 | 120.65 | 241.30 |
| 4" | × | 1½" | 66.68 | 120.65 | 241.30 |
| 4" | × | 2" | 66.68 | 120.65 | 241.30 |
| 4" | × | 2½" | 66.68 | 120.65 | 241.30 |
| 4" | × | 3" | 66.68 | 120.65 | 241.30 |
| 6" | × | 3" | 92.08 | 181.00 | 361.95 |
| 6" | × | 4" | 95.25 | 181.00 | 361.95 |

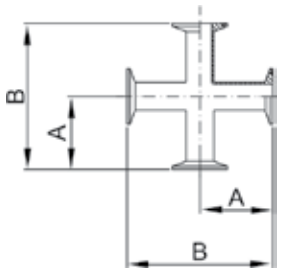
## B7REMP
## BPE Easy Drainage Excentrisch Reduceer-T-stuk C x C x C

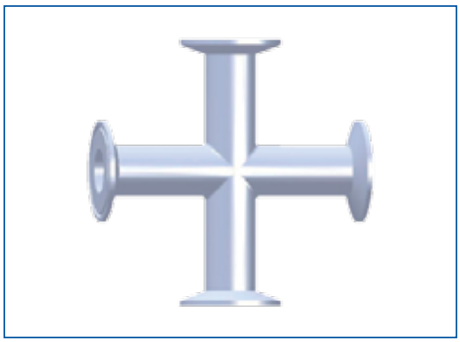



| Afmeting | A | B | C |
|---|---|---|---|
| 3/4" × 1/2" | 63.50 | 63.50 | 127.00 |
| 1" × 1/2" | 66.68 | 66.68 | 133.35 |
| 1" × 3/4" | 66.68 | 66.68 | 133.35 |
| 1½" × 1/2" | 73.03 | 73.03 | 146.05 |
| 1½" × 3/4" | 73.03 | 73.03 | 146.05 |
| 1½" × 1" | 73.03 | 73.03 | 146.05 |
| 2" × 1/2" | 79.38 | 85.73 | 171.45 |
| 2" × 3/4" | 79.38 | 85.73 | 171.45 |
| 2" × 1" | 79.38 | 85.73 | 171.45 |
| 2" × 1½" | 79.38 | 85.73 | 171.45 |
| 2½" × 1" | 85.73 | 92.08 | 184.15 |
| 2½" × 1½" | 85.73 | 92.08 | 184.15 |
| 2½" × 2" | 85.73 | 92.08 | 184.15 |
| 3" × 1" | 92.08 | 98.43 | 196.85 |
| 3" × 1½" | 92.08 | 98.43 | 196.85 |
| 3" × 2 | 98.43 | 98.43 | 196.85 |
| 3" × 2½" | 98.43 | 98.43 | 196.85 |
| 4" × 1" | 104.78 | 120.65 | 241.30 |
| 4" × 1½" | 104.78 | 120.65 | 241.30 |
| 4" × 2" | 111.13 | 120.65 | 241.30 |
| 4" × 2½" | 111.13 | 120.65 | 241.30 |
| 4" × 3" | 111.13 | 120.65 | 241.30 |
| 6" × 3" | 136.53 | 181.00 | 361.95 |
| 6" × 4" | 146.05 | 181.00 | 361.95 |

BPE-TABEL nr. DT-19

## BPE9MP
## BPE Gelijk Kruisstuk C x C x C x C



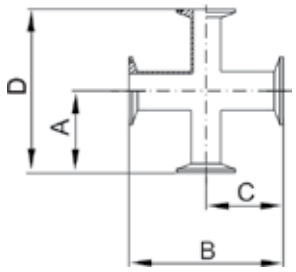



| Afmeting | A | B |
|---|---|---|
| 1/2" | 57.2 | 114.3 |
| 3/4" | 60.3 | 120.6 |
| 1" | 66.7 | 133.4 |
| 1½" | 73.0 | 146.0 |
| 2" | 85.7 | 171.4 |
| 2½" | 92.1 | 184.2 |
| 3" | 98.4 | 196.8 |
| 4" | 120.6 | 241.2 |
| 6" | 181.0 | 362.0 |
| 8" | 174.6 | 349.3 |
| 10" | 212.7 | 425.5 |

BPE-TABEL nr. DT-18

## B9RMP
## BPE Reduceer-Kruisstuk C x C x C x C

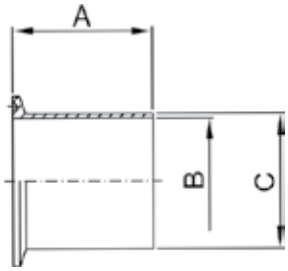





| Afmeting | A | B | C | D |
|---|---|---|---|---|
| 3/4" × 1/2" | 63.50 | 63.50 | 127.00 | 127.00 |
| 1" × 1/2" | 66.68 | 66.68 | 133.35 | 133.35 |
| 1" × 3/4" | 66.68 | 66.68 | 133.35 | 133.35 |
| 1½" × 1/2" | 73.03 | 73.03 | 146.05 | 146.05 |
| 1½" × 3/4" | 73.03 | 73.03 | 146.05 | 146.05 |
| 1½" × 1" | 73.03 | 73.03 | 146.05 | 146.05 |
| 2" × 1/2" | 79.38 | 85.73 | 171.45 | 158.75 |
| 2" × 3/4" | 79.38 | 85.73 | 171.45 | 158.75 |
| 2" × 1" | 79.38 | 85.73 | 171.45 | 158.75 |
| 2" × 1½" | 79.38 | 85.73 | 171.45 | 158.75 |
| 2½" × 1" | 85.73 | 92.08 | 184.15 | 171.45 |
| 2½" × 1½" | 85.73 | 92.08 | 184.15 | 171.45 |
| 2½" × 2" | 85.73 | 92.08 | 184.15 | 171.45 |
| 3" × 1" | 92.08 | 98.43 | 196.85 | 184.15 |
| 3" × 1½" | 92.08 | 98.43 | 196.85 | 184.15 |
| 3" × 2" | 98.43 | 98.43 | 196.85 | 196.85 |
| 3" × 2½" | 98.43 | 98.43 | 196.85 | 196.85 |
| 4" × 1" | 104.78 | 120.65 | 241.30 | 209.55 |
| 4" × 1½" | 104.78 | 120.65 | 241.30 | 209.55 |
| 4" × 2" | 111.13 | 120.65 | 241.30 | 222.25 |
| 4" × 2½" | 111.13 | 120.65 | 241.30 | 222.25 |
| 4" × 3" | 111.13 | 120.65 | 241.30 | 222.25 |
| 6" × 3" | 136.53 | 181.00 | 361.95 | 273.05 |
| 6" × 4" | 146.05 | 181.00 | 361.95 | 292.10 |

## BS14AM
## BPE Lange Lasferrule C x W

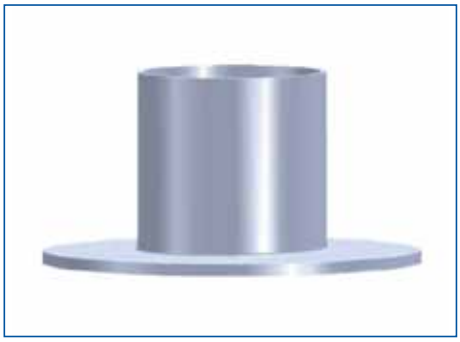


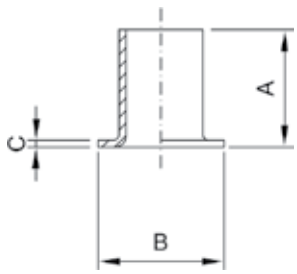



| Afmeting | A | B | C |
|---|---|---|---|
| 1/2" | 44.45 | 9.40 | 12.7 |
| 3/4" | 44.45 | 15.75 | 19.0 |
| 1" | 44.45 | 22.10 | 25.4 |
| 1½" | 44.45 | 34.80 | 38.1 |
| 2" | 57.15 | 47.50 | 50.8 |
| 2½" | 57.15 | 60.20 | 63.5 |
| 3" | 57.15 | 72.90 | 76.2 |
| 4" | 57.15 | 97.38 | 101.6 |
| 6" | 76.20 | 146.86 | 152.4 |

BPE-TABEL nr. DT-22

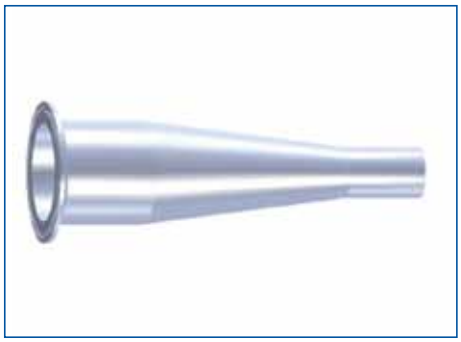
## B14W
## BPE Lasboordring

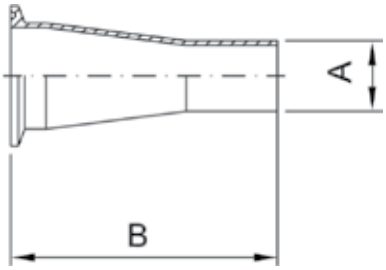





| Afmeting | A | B | C |
|---|---|---|---|
| 1/2" | 50.80 | 42.96 | 2.5 |
| 3/4" | 50.80 | 42.96 | 2.5 |
| 1" | 50.80 | 50.80 | 3.3 |
| 1½" | 50.80 | 73.03 | 3.3 |
| 2" | 63.50 | 92.08 | 3.3 |
| 2½" | 63.50 | 104.78 | 3.3 |
| 3" | 63.50 | 127.00 | 4.2 |
| 4" | 63.50 | 157.16 | 4.2 |
| 6" | 76.20 | 215.90 | 5.5 |

## B31M
## BPE Concentrisch Verloopstuk C x W

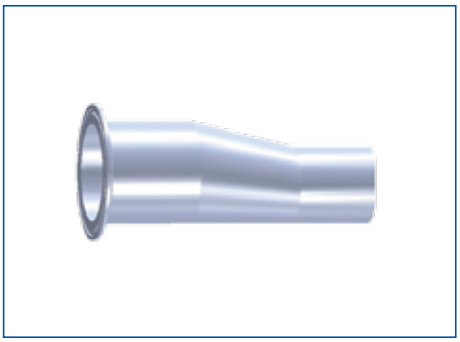


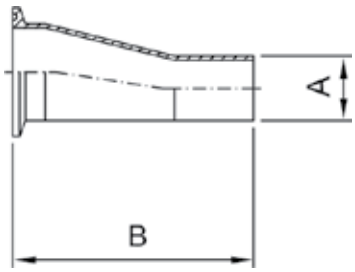



BPE-TABEL nr. DT-26

| Afmeting | | | A | B |
|---|---|---|---|---|
| 3/4" | × | 1/2" | 12.7 | 76.2 |
| 1" | × | 1/2" | 12.7 | 88.9 |
| 1" | × | 3/4" | 19.0 | 76.2 |
| 1½" | × | 1/2" | 12.7 | 114.3 |
| 1½" | × | 3/4" | 19.0 | 101.6 |
| 1½" | × | 1" | 25.4 | 101.6 |
| 2" | × | 1/2" | 12.7 | 165.1 |
| 2" | × | 3/4" | 19.0 | 152.4 |
| 2" | × | 1" | 25.4 | 152.4 |
| 2" | × | 1½" | 38.1 | 101.6 |
| 2½" | × | 1/2" | 12.7 | 215.9 |
| 2½" | × | 3/4" | 19.0 | 203.2 |
| 2½" | × | 1" | 25.4 | 152.4 |
| 2½" | × | 1½" | 38.1 | 152.4 |
| 2½" | × | 2" | 50.8 | 108.0 |
| 3" | × | 1/2" | 12.7 | 266.7 |
| 3" | × | 3/4" | 19.0 | 254.0 |
| 3" | × | 1" | 25.4 | 254.0 |
| 3" | × | 1½" | 38.1 | 203.2 |
| 3" | × | 2" | 50.8 | 158.8 |
| 3" | × | 2½" | 63.5 | 108.0 |
| 4" | × | 1/2" | 12.7 | 371.5 |
| 4" | × | 3/4" | 19.0 | 358.8 |
| 4" | × | 1" | 25.4 | 358.8 |
| 4" | × | 1½" | 38.1 | 308.0 |
| 4" | × | 2" | 50.8 | 263.5 |
| 4" | × | 2½" | 63.5 | 212.7 |
| 4" | × | 3" | 76.2 | 161.9 |
| 6" | × | 3" | 76.2 | 222.3 |
| 6" | × | 4" | 101.6 | 228.6 |

## B32M
## BPE Excentrisch Verloopstuk C x W

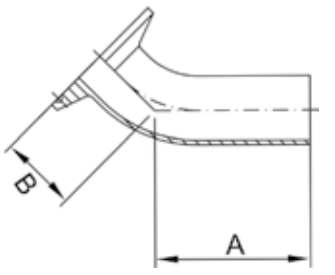





BPE-TABEL nr. DT-26

| Afmeting | | | A | B |
|---|---|---|---|---|
| 3/4" | × | 1/2" | 12.7 | 76.2 |
| 1" | × | 1/2" | 12.7 | 88.9 |
| 1" | × | 3/4" | 19.0 | 76.2 |
| 1½" | × | 1/2" | 12.7 | 114.3 |
| 1½" | × | 3/4" | 19.0 | 101.6 |
| 1½" | × | 1" | 25.4 | 101.6 |
| 2" | × | 1/2" | 12.7 | 165.1 |
| 2" | × | 3/4" | 19.0 | 152.4 |
| 2" | × | 1" | 25.4 | 152.4 |
| 2" | × | 1½" | 38.1 | 101.6 |
| 2½" | × | 1/2" | 12.7 | 215.9 |
| 2½" | × | 3/4" | 19.0 | 203.2 |
| 2½" | × | 1" | 25.4 | 203.2 |
| 2½" | × | 1½" | 38.1 | 152.4 |
| 2½" | × | 2" | 50.8 | 108.0 |
| 3" | × | 1/2" | 12.7 | 266.7 |
| 3" | × | 3/4" | 19.0 | 254.0 |
| 3" | × | 1" | 25.4 | 254.0 |
| 3" | × | 1½" | 38.1 | 203.2 |
| 3" | × | 2" | 50.8 | 158.8 |
| 3" | × | 2½" | 63.5 | 108.0 |
| 4" | × | 1/2" | 12.7 | 371.5 |
| 4" | × | 3/4" | 19.0 | 358.8 |
| 4" | × | 1" | 25.4 | 358.8 |
| 4" | × | 1½" | 38.1 | 308.0 |
| 4" | × | 2" | 50.8 | 263.5 |
| 4" | × | 2½" | 63.5 | 212.7 |
| 4" | × | 3" | 76.2 | 161.9 |
| 6" | × | 3" | 76.2 | 222.3 |
| 6" | × | 4" | 101.6 | 228.6 |

## B2KMW
## BPE Bocht 45° C x W



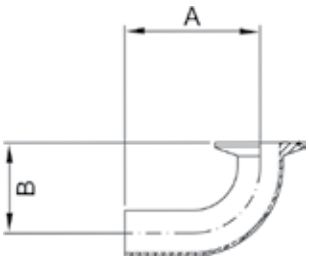



BPE-TABEL nr. DT-13

| Afmeting | A | B |
|---|---|---|
| 1/2" | 57.15 | 25.40 |
| 3/4" | 57.15 | 25.40 |
| 1" | 57.15 | 28.58 |
| 1½" | 63.50 | 36.58 |
| 2" | 76.20 | 44.45 |
| 2½" | 85.73 | 52.32 |
| 3" | 92.08 | 60.45 |
| 4" | 114.30 | 79.25 |
| 6" | 158.75 | 133.35 |

## B2CMW
## BPE Bocht 90° C x W

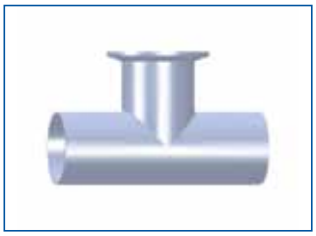


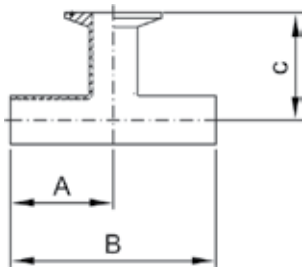



| Afmeting | A | B |
|---|---|---|
| 1/2" | 76.20 | 41.28 |
| 3/4" | 76.20 | 41.28 |
| 1" | 76.20 | 50.80 |
| 1½" | 95.25 | 69.85 |
| 2" | 120.65 | 88.90 |
| 2½" | 139.70 | 107.95 |
| 3" | 158.75 | 127.00 |
| 4" | 203.20 | 168.28 |
| 6" | 292.10 | 266.70 |

BPE-TABEL nr. DT-12

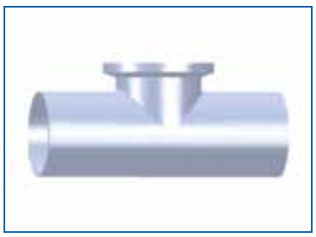
## B7WWM
## BPE Tee W x C x W

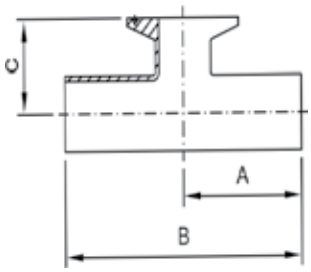





| Afmeting | A | B | C |
|---|---|---|---|
| 1/2" | 47.63 | 95.25 | 60.30 |
| 3/4" | 50.80 | 101.60 | 63.50 |
| 1" | 53.98 | 107.95 | 66.68 |
| 1½" | 60.33 | 120.65 | 73.03 |
| 2" | 73.03 | 146.05 | 85.73 |
| 2½' | 79.38 | 158.75 | 92.08 |
| 3" | 85.73 | 171.45 | 98.43 |
| 4" | 104.78 | 209.55 | 120.65 |

## B7WWMS
## BPE Korte Tee W x C x W

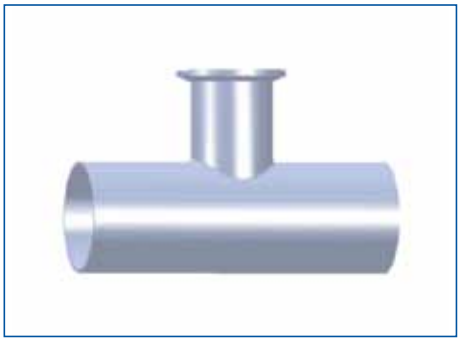


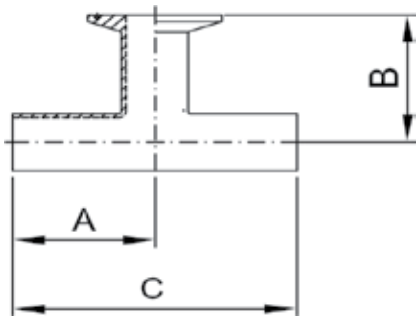



| Afmeting | A | B | C |
|---|---|---|---|
| 1/2" | 47.63 | 95.25 | 25.40 |
| 3/4" | 50.80 | 101.60 | 28.58 |
| 1" | 53.98 | 107.95 | 26.90 |
| 1½" | 60.33 | 120.65 | 34.93 |
| 2" | 73.03 | 146.05 | 41.28 |
| 2½" | 79.38 | 158.75 | 47.95 |
| 3" | 85.73 | 171.45 | 54.10 |
| 4" | 104.78 | 209.55 | 70.50 |

BPE-TABEL nr. DT-15

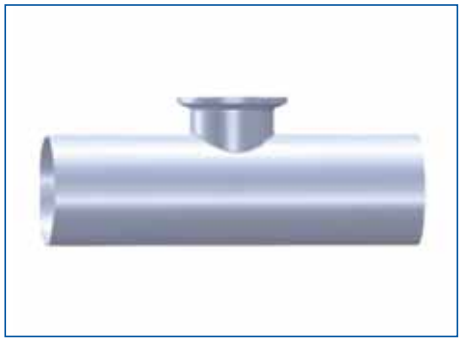
## B7RWWM
## BPE Reduceer-T-stuk W x C x W

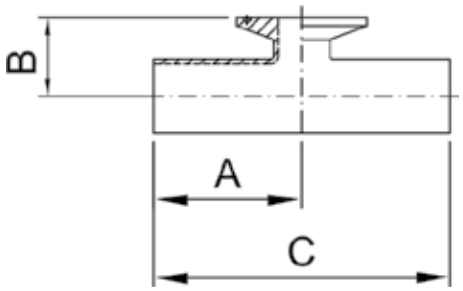





| Afmeting | | | A | B | C |
|---|---|---|---|---|---|
| 3/4" | × | 1/2" | 50.80 | 63.50 | 101.60 |
| 1" | × | 1/2" | 53.98 | 66.68 | 107.95 |
| 1" | × | 3/4" | 53.98 | 66.68 | 107.95 |
| 1½" | × | 1/2" | 60.33 | 73.03 | 120.65 |
| 1½" | × | 3/4" | 60.33 | 73.03 | 120.65 |
| 1½" | × | 1" | 60.33 | 73.03 | 120.65 |
| 2" | × | 1/2" | 73.03 | 79.38 | 146.05 |
| 2" | × | 3/4" | 73.03 | 79.38 | 146.05 |
| 2" | × | 1" | 73.03 | 79.38 | 146.05 |
| 2" | × | 1½" | 73.03 | 79.38 | 146.05 |
| 2½" | × | 1/2" | 79.38 | 85.73 | 158.75 |
| 2½" | × | 3/4" | 79.38 | 85.73 | 158.75 |
| 2½" | × | 1" | 79.38 | 85.73 | 158.75 |
| 2½" | × | 1½" | 79.38 | 85.73 | 158.75 |
| 2½" | × | 2" | 79.38 | 85.73 | 158.75 |
| 3" | × | 1/2" | 85.73 | 92.08 | 171.45 |
| 3" | × | 3/4" | 85.73 | 92.08 | 171.45 |
| 3" | × | 1" | 85.73 | 92.08 | 171.45 |
| 3" | × | 1½" | 85.73 | 92.08 | 171.45 |
| 3" | × | 2" | 85.73 | 92.08 | 171.45 |
| 3" | × | 2½" | 85.73 | 92.08 | 171.45 |
| 4" | × | 1/2" | 104.78 | 104.78 | 209.55 |
| 4" | × | 3/4" | 104.78 | 104.78 | 209.55 |
| 4" | × | 1" | 104.78 | 104.78 | 209.55 |
| 4" | × | 1½" | 104.78 | 104.78 | 209.55 |
| 4" | × | 2" | 104.78 | 111.13 | 209.55 |
| 4" | × | 2½" | 104.78 | 111.13 | 209.55 |
| 4" | × | 3" | 104.78 | 111.13 | 209.55 |
| 6" | × | 3" | 142.88 | 136.53 | 285.75 |
| 6" | × | 4" | 142.88 | 146.05 | 285.75 |

## B7RWWMS
## BPE Kort Reduceer-T-stuk W x C x W

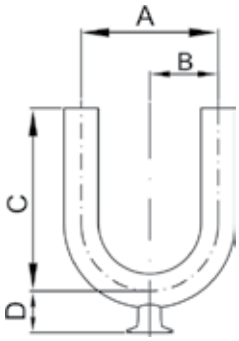





| Afmeting | A | B | C |
|---|---|---|---|
| 3/4" × 1/2" | 50.80 | 25.40 | 101.60 |
| 1" × 1/2" | 53.98 | 28.58 | 107.95 |
| 1" × 3/4" | 53.98 | 28.58 | 107.95 |
| 1½" × 1/2" | 60.33 | 34.93 | 120.65 |
| 1½" × 3/4" | 60.33 | 34.93 | 120.65 |
| 1½" × 1" | 60.33 | 34.93 | 120.65 |
| 2" × 1/2" | 73.03 | 41.28 | 146.05 |
| 2" × 3/4" | 73.03 | 41.28 | 146.05 |
| 2" × 1" | 73.03 | 41.28 | 146.05 |
| 2" × 1½" | 73.03 | 41.28 | 146.05 |
| 2½" × 1/2" | 79.38 | 47.63 | 158.75 |
| 2½" × 3/4" | 79.38 | 47.63 | 158.75 |
| 2½" × 1" | 79.38 | 47.63 | 158.75 |
| 2½" × 1½" | 79.38 | 47.63 | 158.75 |
| 2½" × 2" | 79.38 | 47.63 | 158.75 |
| 3" × 1/2" | 85.73 | 53.98 | 171.45 |
| 3" × 3/4" | 85.73 | 53.98 | 171.45 |
| 3" × 1" | 85.73 | 53.98 | 171.45 |
| 3" × 1½" | 85.73 | 53.98 | 171.45 |
| 3" × 2" | 85.73 | 53.98 | 171.45 |
| 3" × 2½" | 85.73 | 53.98 | 171.45 |
| 4" × 1/2" | 104.78 | 66.68 | 209.55 |
| 4" × 3/4" | 104.78 | 66.68 | 209.55 |
| 4" × 1" | 104.78 | 66.68 | 209.55 |
| 4" × 1½" | 104.78 | 66.68 | 209.55 |
| 4" × 2" | 104.78 | 66.68 | 209.55 |
| 4" × 2½" | 104.78 | 66.68 | 209.55 |
| 4" × 3" | 104.78 | 66.68 | 209.55 |
| 6" × 3" | 142.88 | 92.08 | 285.75 |
| 6" × 4" | 142.88 | 95.25 | 285.75 |

## B2UMPBOA
## BPE Aftakbocht 180° Gereduceerde Clamp Bodemuitlaat W x C x W

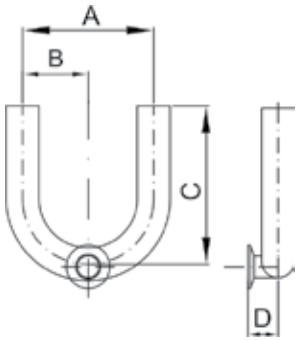





| Afmeting | | | A | B | C | D |
|---|---|---|---|---|---|---|
| 3/4" | × | 1/2" | 114.30 | 57.15 | 95.25 | 25.40 |
| 1" | × | 1/2" | 114.30 | 57.15 | 95.25 | 28.58 |
| 1" | × | 3/4" | 114.30 | 57.15 | 95.25 | 28.58 |
| 1½" | × | 1/2" | 152.40 | 76.20 | 114.30 | 34.93 |
| 1½" | × | 3/4" | 152.40 | 76.20 | 114.30 | 34.93 |
| 1½" | × | 1" | 152.40 | 76.20 | 114.30 | 34.93 |
| 2" | × | 1/2" | 152.40 | 76.20 | 127.00 | 41.28 |
| 2" | × | 3/4" | 152.40 | 76.20 | 127.00 | 41.28 |
| 2" | × | 1" | 152.40 | 76.20 | 127.00 | 41.28 |
| 2" | × | 1½" | 152.40 | 76.20 | 127.00 | 41.28 |
| 2½" | × | 1/2" | 190.50 | 95.25 | 146.05 | 47.63 |
| 2½" | × | 3/4" | 190.50 | 95.25 | 146.05 | 47.63 |
| 2½" | × | 1" | 190.50 | 95.25 | 146.05 | 47.63 |
| 2½" | × | 1½" | 190.50 | 95.25 | 146.05 | 47.63 |
| 2½" | × | 2" | 190.50 | 95.25 | 146.05 | 47.63 |
| 3" | × | 1/2" | 228.60 | 114.30 | 165.10 | 53.98 |
| 3" | × | 3/4" | 228.60 | 114.30 | 165.10 | 53.98 |
| 3" | × | 1" | 228.60 | 114.30 | 165.10 | 53.98 |
| 3" | × | 1½" | 228.60 | 114.30 | 165.10 | 53.98 |
| 3" | × | 2" | 228.60 | 114.30 | 165.10 | 53.98 |
| 3" | × | 2½" | 228.60 | 114.30 | 165.10 | 53.98 |
| 4" | × | 1/2" | 304.80 | 152.40 | 215.90 | 66.68 |
| 4" | × | 3/4" | 304.80 | 152.40 | 215.90 | 66.68 |
| 4" | × | 1" | 304.80 | 152.40 | 215.90 | 66.68 |
| 4" | × | 1½" | 304.80 | 152.40 | 215.90 | 66.68 |
| 4" | × | 2" | 304.80 | 152.40 | 215.90 | 66.68 |
| 4" | × | 2½" | 304.80 | 152.40 | 215.90 | 66.68 |
| 4" | × | 3" | 304.80 | 152.40 | 215.90 | 66.68 |

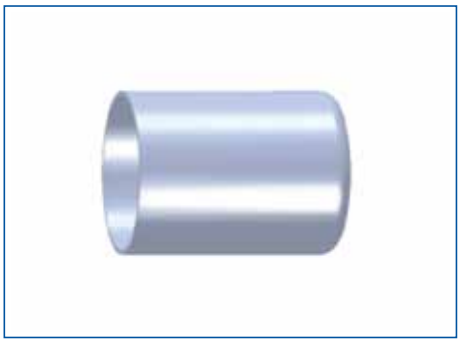
## B2UMPSOA
## BPE Aftakbocht 180° Gereduceerde Clamp
## Zij-uitlaat W x C x W

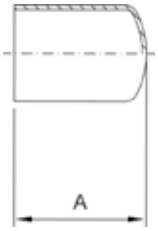





| Afmeting | | | A | B | C | D |
|---|---|---|---|---|---|---|
| 3/4" | × | 1/2" | 114.30 | 57.15 | 95.25 | 25.40 |
| 1" | × | 1/2" | 114.30 | 57.15 | 95.25 | 28.58 |
| 1" | × | 3/4" | 114.30 | 57.15 | 95.25 | 28.58 |
| 1½" | × | 1/2" | 152.40 | 76.20 | 114.30 | 34.93 |
| 1½" | × | 3/4" | 152.40 | 76.20 | 114.30 | 34.93 |
| 1½" | × | 1" | 152.40 | 76.20 | 114.30 | 34.93 |
| 2" | × | 1/2" | 152.40 | 76.20 | 127.00 | 41.28 |
| 2" | × | 3/4" | 152.40 | 76.20 | 127.00 | 41.28 |
| 2" | × | 1" | 152.40 | 76.20 | 127.00 | 41.28 |
| 2" | × | 1½" | 152.40 | 76.20 | 127.00 | 41.28 |
| 2½" | × | 1/2" | 190.50 | 95.25 | 146.05 | 47.63 |
| 2½" | × | 3/4" | 190.50 | 95.25 | 146.05 | 47.63 |
| 2½" | × | 1" | 190.50 | 95.25 | 146.05 | 47.63 |
| 2½" | × | 1½" | 190.50 | 95.25 | 146.05 | 47.63 |
| 2½" | × | 2" | 190.50 | 95.25 | 146.05 | 47.63 |
| 3" | × | 1/2" | 228.60 | 114.30 | 165.10 | 53.98 |
| 3" | × | 3/4" | 228.60 | 114.30 | 165.10 | 53.98 |
| 3" | × | 1" | 228.60 | 114.30 | 165.10 | 53.98 |
| 3" | × | 1½" | 228.60 | 114.30 | 165.10 | 53.98 |
| 3" | × | 2" | 228.60 | 114.30 | 165.10 | 53.98 |
| 3" | × | 2½" | 228.60 | 114.30 | 165.10 | 53.98 |
| 4" | × | 1/2" | 304.80 | 152.40 | 215.90 | 66.68 |
| 4" | × | 3/4" | 304.80 | 152.40 | 215.90 | 66.68 |
| 4" | × | 1" | 304.80 | 152.40 | 215.90 | 66.68 |
| 4" | × | 1½" | 304.80 | 152.40 | 215.90 | 66.68 |
| 4" | × | 2" | 304.80 | 152.40 | 215.90 | 66.68 |
| 4" | × | 2½" | 304.80 | 152.40 | 215.90 | 66.68 |
| 4" | × | 3" | 304.80 | 152.40 | 215.90 | 66.68 |

BPE-TABEL nr. DT-30

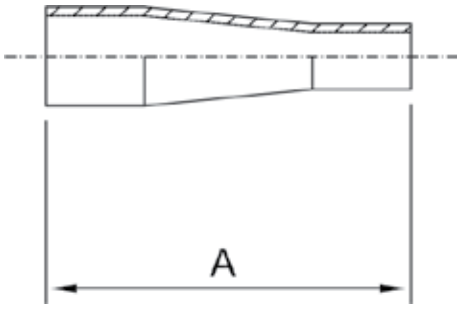





## B16W
## BPE Laskap

| Afmeting | A |
|---|---|
| 1/2" | 44.45 |
| 3/4" | 46.04 |
| 1" | 47.63 |
| 1½" | 52.39 |
| 2 | 69.85 |
| 2½ | 76.20 |
| 3" | 82.55 |
| 4" | 101.60 |
| 6" | 127.00 |

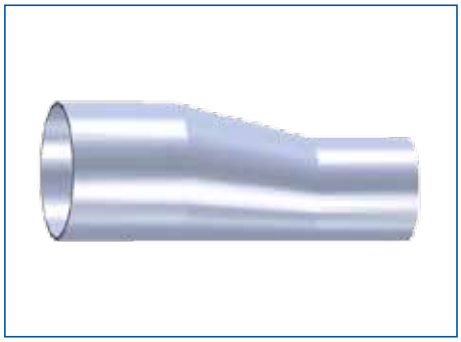


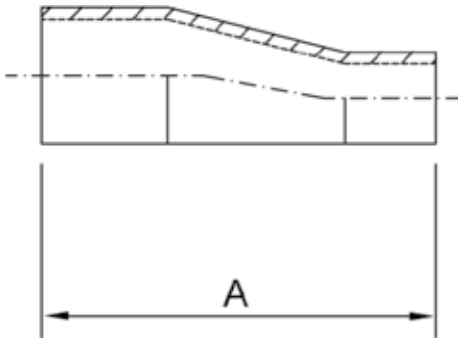



BPE-TABEL nr. DT-11

## B31
## BPE Concentrisch Lasverloopstuk W x W

| Afmeting | | | A |
|---|---|---|---|
| 3/4" | × | 1/2" | 101.6 |
| 1" | × | 1/2" | 114.3 |
| 1" | × | 3/4" | 101.6 |
| 1½" | × | 1/2" | 139.7 |
| 1½" | × | 3/4" | 127.0 |
| 1½" | × | 1" | 127.0 |
| 2" | × | 1/2" | 196.9 |
| 2" | × | 3/4" | 184.2 |
| 2" | × | 1" | 184.2 |
| 2" | × | 1½" | 133.4 |
| 2½" | × | 1/2" | 247.7 |
| 2½" | × | 3/4" | 235.0 |
| 2½" | × | 1" | 235.0 |
| 2½" | × | 1½" | 184.2 |
| 2½" | × | 2" | 139.7 |
| 3" | × | 1/2" | 298.5 |
| 3" | × | 3/4" | 285.8 |
| 3" | × | 1" | 285.8 |
| 3" | × | 1½" | 235.0 |
| 3" | × | 2" | 190.5 |
| 3" | × | 2½" | 139.7 |
| 4" | × | 1/2" | 406.4 |
| 4" | × | 3/4 | 393.7 |
| 4" | × | 1" | 393.7 |
| 4" | × | 1½" | 342.9 |
| 4" | × | 2" | 298.5 |
| 4" | × | 2½" | 247.7 |
| 4" | × | 3" | 196.9 |
| 6" | × | 3" | 247.7 |
| 6" | × | 4" | 254.0 |



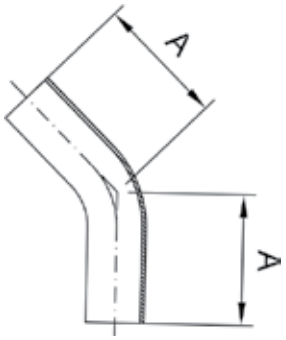



BPE-TABEL nr. DT-11

## B32
## BPE Excentrisch Lasverloopstuk W x W

| Afmeting | | | A |
|---|---|---|---|
| 3/4" | × | 1/2" | 101.6 |
| 1" | × | 1/2" | 114.3 |
| 1" | × | 3/4" | 101.6 |
| 1½" | × | 1/2" | 139.7 |
| 1½" | × | 3/4" | 127.0 |
| 1½" | × | 1" | 127.0 |
| 2" | × | 1/2" | 196.9 |
| 2" | × | 3/4" | 184.2 |
| 2" | × | 1" | 184.2 |
| 2" | × | 1½" | 133.4 |
| 2½" | × | 1/2" | 247.7 |
| 2½" | × | 3/4" | 235.0 |
| 2½" | × | 1" | 235.0 |
| 2½" | × | 1½" | 184.2 |
| 2½" | × | 2" | 139.7 |
| 3" | × | 1/2" | 298.5 |
| 3" | × | 3/4" | 285.8 |
| 3" | × | 1" | 285.8 |
| 3" | × | 1½" | 235.0 |
| 3" | × | 2" | 190.5 |
| 3" | × | 2½" | 139.7 |
| 4" | × | 1/2" | 406.4 |
| 4" | × | 3/4" | 393.7 |
| 4" | × | 1" | 393.7 |
| 4" | × | 1½" | 342.9 |
| 4" | × | 2" | 298.5 |
| 4" | × | 2½" | 247.7 |
| 4" | × | 3" | 196.9 |
| 6" | × | 3" | 247.7 |
| 6" | × | 4" | 254.0 |

BPE-TABEL nr. DT-8



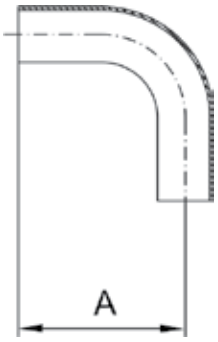



## B2KS
## BPE Lasbocht 45° W x W

| Afmeting | A | T |
|---|---|---|
| 1/2" | 57.15 | 1.65 |
| 3/4" | 57.15 | 1.65 |
| 1" | 57.15 | 1.65 |
| 1½" | 63.50 | 1.65 |
| 2" | 76.20 | 1.65 |
| 2½" | 85.85 | 1.65 |
| 3" | 91.95 | 1.65 |
| 4" | 114.30 | 2.11 |
| 6" | 158.88 | 2.77 |

## B2S
## BPE Lasbocht 90° W x W

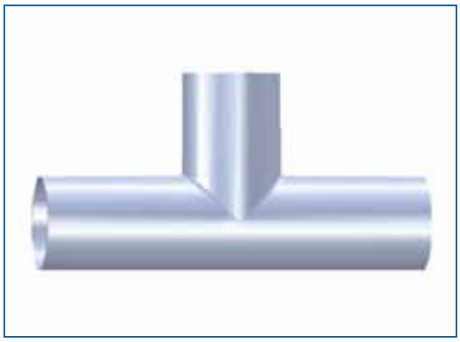


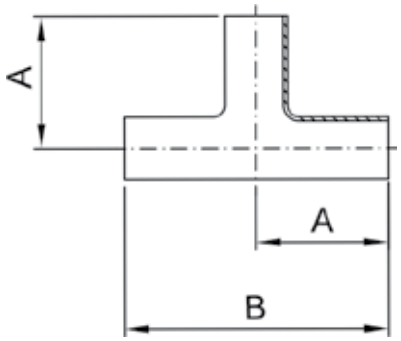



| Afmeting | A | T |
|---|---|---|
| 1/2" | 76.20 | 1.65 |
| 3/4" | 76.20 | 1.65 |
| 1" | 76.20 | 1.65 |
| 1½" | 95.25 | 1.65 |
| 2" | 120.65 | 1.65 |
| 2½" | 139.70 | 1.65 |
| 3" | 158.75 | 1.65 |
| 4" | 203.20 | 2.11 |
| 6" | 292.10 | 2.77 |

BPE-TABEL nr. DT-7

## B7WWW
## BPE Gelijk Las-T-stuk W x W x W

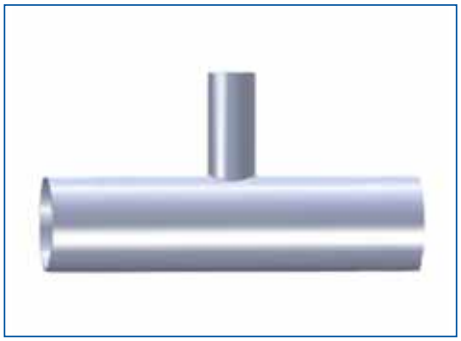


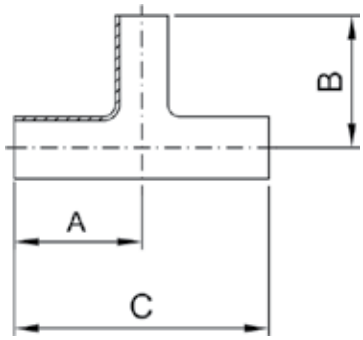



| Afmeting | A | B |
|---|---|---|
| 1/2" | 47.63 | 95.25 |
| 3/4" | 50.80 | 101.60 |
| 1" | 53.98 | 107.95 |
| 1½" | 60.33 | 120.65 |
| 2" | 73.03 | 146.05 |
| 2½" | 79.38 | 158.75 |
| 3 | 85.73 | 171.45 |
| 4 | 104.78 | 209.55 |
| 6 | 142.90 | 285.80 |

BPE-TABEL nr. DT-9

## B7RWWW
## BPE Reduceer-Las-T-stuk W x W x W

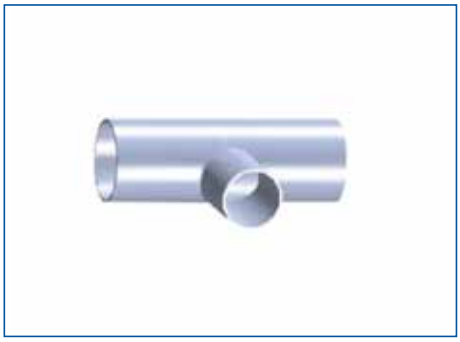


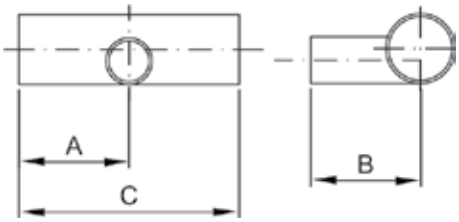



BPE-TABEL nr. DT-10

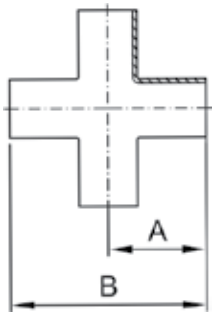
| Afmeting | | | A | B | C |
|---|---|---|---|---|---|
| 3/4" | × | 1/2" | 50.80 | 50.80 | 101.60 |
| 1" | × | 1/2" | 53.98 | 53.98 | 107.95 |
| 1" | × | 3/4" | 53.98 | 53.98 | 107.95 |
| 1½" | × | 1/2" | 60.33 | 60.33 | 120.65 |
| 1½" | × | 3/4" | 60.33 | 60.33 | 120.65 |
| 1½" | × | 1" | 60.33 | 60.33 | 120.65 |
| 2" | × | 1/2" | 73.03 | 66.68 | 146.05 |
| 2" | × | 3/4" | 73.03 | 66.68 | 146.05 |
| 2" | × | 1" | 73.03 | 66.68 | 146.05 |
| 2" | × | 1½" | 73.03 | 66.68 | 146.05 |
| 2½" | × | 1/2" | 79.38 | 73.03 | 158.75 |
| 2½" | × | 3/4" | 79.38 | 73.03 | 158.75 |
| 2½" | × | 1" | 79.38 | 73.03 | 158.75 |
| 2½" | × | 1½" | 79.38 | 73.03 | 158.75 |
| 2½" | × | 2" | 79.38 | 73.03 | 158.75 |
| 3" | × | 1/2" | 85.73 | 79.38 | 171.45 |
| 3" | × | 3/4" | 85.73 | 79.38 | 171.45 |
| 3" | × | 1" | 85.73 | 79.38 | 171.45 |
| 3" | × | 1½" | 85.73 | 79.38 | 171.45 |
| 3" | × | 2" | 85.73 | 79.38 | 171.45 |
| 3" | × | 2½" | 85.73 | 79.38 | 171.45 |
| 4" | × | 1/2" | 104.78 | 92.08 | 209.55 |
| 4" | × | 3/4" | 104.78 | 92.08 | 209.55 |
| 4" | × | 1" | 104.78 | 92.08 | 209.55 |
| 4" | × | 1½" | 104.78 | 92.08 | 209.55 |
| 4" | × | 2" | 104.78 | 98.43 | 209.55 |
| 4" | × | 2½" | 104.78 | 98.43 | 209.55 |
| 4" | × | 3" | 104.78 | 98.43 | 209.55 |
| 6" | × | 3" | 142.88 | 123.95 | 285.75 |
| 6" | × | 4" | 142.88 | 130.18 | 285.75 |

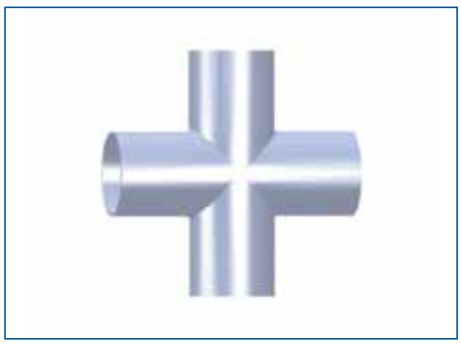
## B7ERWWW
## BPE Easy Drainage Excentrisch Reduceer-Las-T-stuk W x W x W






| Afmeting | | | A | B | C |
|---|---|---|---|---|---|
| 3/4" | × | 1/2" | 50.80 | 50.80 | 101.60 |
| 1" | × | 1/2" | 53.98 | 53.98 | 107.95 |
| 1" | × | 3/4" | 53.98 | 53.98 | 107.95 |
| 1½" | × | 1/2" | 60.33 | 60.33 | 120.65 |
| 1½" | × | 3/4" | 60.33 | 60.33 | 120.65 |
| 1½" | × | 1" | 60.33 | 60.33 | 120.65 |
| 2" | × | 1/2" | 73.03 | 66.68 | 146.05 |
| 2" | × | 3/4" | 73.03 | 66.68 | 146.05 |
| 2" | × | 1" | 73.03 | 66.68 | 146.05 |
| 2" | × | 1½" | 73.03 | 66.68 | 146.05 |
| 2½" | × | 1/2" | 79.38 | 73.03 | 158.75 |
| 2½" | × | 3/4" | 79.38 | 73.03 | 158.75 |
| 2½" | × | 1" | 79.38 | 73.03 | 158.75 |
| 2½" | × | 1½" | 79.38 | 73.03 | 158.75 |
| 2½" | × | 2" | 79.38 | 73.03 | 158.75 |
| 3" | × | 1/2" | 85.73 | 79.38 | 171.45 |
| 3" | × | 3/4" | 85.73 | 79.38 | 171.45 |
| 3" | × | 1" | 85.73 | 79.38 | 171.45 |
| 3" | × | 1½" | 85.73 | 79.38 | 171.45 |
| 3" | × | 2" | 85.73 | 79.38 | 171.45 |
| 3" | × | 2½" | 85.73 | 79.38 | 171.45 |
| 4" | × | 1/2" | 104.78 | 92.08 | 209.55 |
| 4" | × | 3/4" | 104.78 | 92.08 | 209.55 |
| 4" | × | 1" | 104.78 | 92.08 | 209.55 |
| 4" | × | 1½" | 104.78 | 92.08 | 209.55 |
| 4" | × | 2" | 104.78 | 98.43 | 209.55 |
| 4" | × | 2½" | 104.78 | 98.43 | 209.55 |
| 4" | × | 3" | 104.78 | 98.43 | 209.55 |
| 6" | × | 3" | 142.88 | 123.95 | 285.75 |
| 6" | × | 4" | 142.88 | 130.18 | 285.75 |

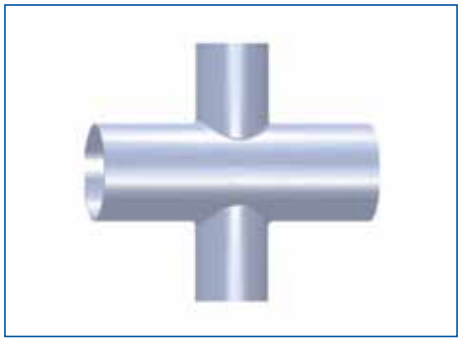


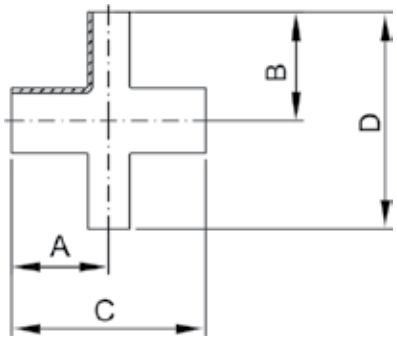



## B9WWWW
## BPE Gelijk Las-Kruisstuk W x W x W x W

| Afmeting | A | B |
|---|---|---|
| 1/2" | 47.60 | 95.20 |
| 3/4" | 50.80 | 101.60 |
| 1" | 54.00 | 108.00 |
| 1½" | 60.30 | 120.60 |
| 2" | 73.00 | 146.00 |
| 2½" | 79.40 | 158.80 |
| 3" | 85.70 | 171.40 |
| 4" | 104.80 | 209.60 |

## B9RWWWW
## BPE Reduceer-Las-Kruisstuk W x W x W x W

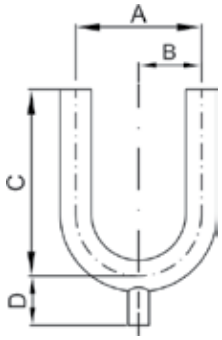





| Afmeting | | | A | B | C | D |
|---|---|---|---|---|---|---|
| 3/4" | × | 1/2" | 50.80 | 50.80 | 101.60 | 101.60 |
| 1" | × | 1/2" | 54.00 | 54.90 | 107.95 | 108.00 |
| 1" | × | 3/4" | 54.00 | 54.90 | 107.95 | 108.00 |
| 1½" | × | 1/2" | 60.30 | 60.30 | 120.65 | 120.60 |
| 1½" | × | 3/4" | 60.30 | 60.30 | 120.65 | 120.60 |
| 1½" | × | 1" | 60.30 | 60.30 | 120.65 | 120.65 |
| 2" | × | 1/2" | 73.00 | 66.70 | 146.05 | 133.40 |
| 2" | × | 3/4" | 73.00 | 66.70 | 146.05 | 133.40 |
| 2" | × | 1" | 73.00 | 66.70 | 146.05 | 133.40 |
| 2" | × | 1½" | 73.00 | 66.70 | 146.05 | 133.40 |
| 2½" | × | 1/2" | 79.40 | 73.00 | 158.75 | 146.00 |
| 2½" | × | 3/4" | 79.40 | 73.00 | 158.75 | 146.00 |
| 2½" | × | 1" | 79.40 | 73.00 | 158.75 | 146.00 |
| 2½" | × | 1½" | 79.40 | 73.00 | 158.75 | 146.00 |
| 2½" | × | 2" | 79.40 | 73.00 | 158.75 | 146.00 |
| 3" | × | 1/2" | 85.70 | 79.40 | 171.45 | 158.80 |
| 3" | × | 3/4" | 85.70 | 79.40 | 171.45 | 158.80 |
| 3" | × | 1" | 85.70 | 79.40 | 171.45 | 158.80 |
| 3" | × | 1½" | 85.70 | 79.40 | 171.45 | 158.80 |
| 3" | × | 2" | 85.70 | 79.40 | 171.45 | 158.80 |
| 3" | × | 2½" | 85.70 | 79.40 | 171.45 | 158.80 |
| 4" | × | 1/2" | 104.80 | 92.10 | 209.60 | 184.20 |
| 4" | × | 3/4" | 104.80 | 92.10 | 209.60 | 184.20 |
| 4" | × | 1" | 104.80 | 92.10 | 209.60 | 184.20 |
| 4" | × | 1½" | 104.80 | 92.10 | 209.60 | 184.20 |
| 4" | × | 2" | 104.80 | 98.40 | 209.60 | 196.80 |
| 4" | × | 2½" | 104.80 | 98.40 | 209.60 | 196.80 |
| 4" | × | 3" | 104.80 | 98.40 | 209.60 | 196.80 |
| 6" | × | 3" | 142.90 | 130.20 | 285.80 | 206.40 |
| 6" | × | 4" | 142.90 | 130.20 | 285.80 | 206.40 |

## B29RBW
## BPE Aftakbocht 180° Gereduceerde Las-Uitlaat W x W x W

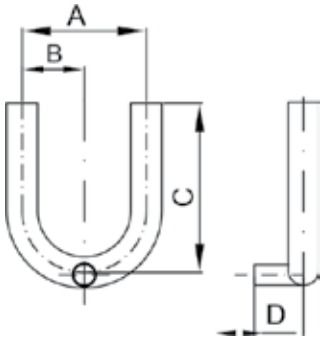





| Afmeting | | | A | B | C | D |
|---|---|---|---|---|---|---|
| 3/4" | × | 1/2" | 114.30 | 57.15 | 76.20 | 50.58 |
| 1" | × | 1/2" | 114.30 | 57.15 | 76.20 | 53.98 |
| 1" | × | 3/4" | 114.30 | 57.15 | 76.20 | 53.98 |
| 1½" | × | 1/2" | 152.40 | 76.20 | 114.30 | 60.33 |
| 1½" | × | 3/4" | 152.40 | 76.20 | 114.30 | 60.33 |
| 1½" | × | 1" | 152.40 | 76.20 | 114.30 | 60.33 |
| 2" | × | 1/2" | 152.40 | 76.20 | 127.00 | 66.55 |
| 2" | × | 3/4" | 152.40 | 76.20 | 127.00 | 66.55 |
| 2" | × | 1" | 152.40 | 76.20 | 127.00 | 66.55 |
| 2" | × | 1½" | 152.40 | 76.20 | 127.00 | 66.55 |
| 2½" | × | 1/2" | 190.50 | 95.25 | 146.05 | 73.03 |
| 2½" | × | 3/4" | 190.50 | 95.25 | 146.05 | 73.03 |
| 2½" | × | 1" | 190.50 | 95.25 | 146.05 | 73.03 |
| 2½" | × | 1½" | 190.50 | 95.25 | 146.05 | 73.03 |
| 2½" | × | 2" | 190.50 | 95.25 | 146.05 | 73.03 |
| 3" | × | 1/2" | 228.60 | 114.30 | 165.10 | 79.38 |
| 3" | × | 3/4" | 228.60 | 114.30 | 165.10 | 79.38 |
| 3" | × | 1" | 228.60 | 114.30 | 165.10 | 79.38 |
| 3" | × | 1½" | 228.60 | 114.30 | 165.10 | 79.38 |
| 3" | × | 2" | 228.60 | 114.30 | 165.10 | 79.38 |
| 3" | × | 2½" | 228.60 | 114.30 | 165.10 | 79.38 |
| 4" | × | 1/2" | 304.80 | 152.40 | 215.90 | 92.08 |
| 4" | × | 3/4" | 304.80 | 152.40 | 215.90 | 92.08 |
| 4" | × | 1" | 304.80 | 152.40 | 215.90 | 92.08 |
| 4" | × | 1½" | 304.80 | 152.40 | 215.90 | 92.08 |
| 4" | × | 2" | 304.80 | 152.40 | 215.90 | 98.55 |
| 4" | × | 2½" | 304.80 | 152.40 | 215.90 | 98.55 |
| 4" | × | 3" | 304.80 | 152.40 | 215.90 | 98.55 |

## B29RSW
## BPE Aftakbocht 180° Gereduceerde Las-Zij-uitlaat W x W x W






| Afmeting | | | A | B | C | D |
|---|---|---|---|---|---|---|
| 3/4" | × | 1/2" | 114.30 | 57.15 | 95.25 | 50.58 |
| 1" | × | 1/2" | 114.30 | 57.15 | 95.25 | 53.98 |
| 1" | × | 3/4" | 114.30 | 57.15 | 95.25 | 53.98 |
| 1½" | × | 1/2" | 152.40 | 76.20 | 114.30 | 60.33 |
| 1½" | × | 3/4" | 152.40 | 76.20 | 114.30 | 60.33 |
| 1½" | × | 1" | 152.40 | 76.20 | 114.30 | 60.33 |
| 2" | × | 1/2" | 152.40 | 76.20 | 127.00 | 66.55 |
| 2" | × | 3/4" | 152.40 | 76.20 | 127.00 | 66.55 |
| 2" | × | 1" | 152.40 | 76.20 | 127.00 | 66.55 |
| 2" | × | 1½" | 152.40 | 76.20 | 127.00 | 66.55 |
| 2½" | × | 1/2" | 190.50 | 95.25 | 146.05 | 73.03 |
| 2½" | × | 3/4" | 190.50 | 95.25 | 146.05 | 73.03 |
| 2½" | × | 1" | 190.50 | 95.25 | 146.05 | 73.03 |
| 2½" | × | 1½" | 190.50 | 95.25 | 146.05 | 73.03 |
| 2½" | × | 2" | 190.50 | 95.25 | 146.05 | 73.03 |
| 3" | × | 1/2" | 228.60 | 114.30 | 165.10 | 79.38 |
| 3" | × | 3/4" | 228.60 | 114.30 | 165.10 | 79.38 |
| 3" | × | 1" | 228.60 | 114.30 | 165.10 | 79.38 |
| 3" | × | 1½" | 228.60 | 114.30 | 165.10 | 79.38 |
| 3" | × | 2" | 228.60 | 114.30 | 165.10 | 79.38 |
| 3" | × | 2½" | 228.60 | 114.30 | 165.10 | 79.38 |
| 4" | × | 1/2" | 304.80 | 152.40 | 215.90 | 92.08 |
| 4" | × | 3/4" | 304.80 | 152.40 | 215.90 | 92.08 |
| 4" | × | 1" | 304.80 | 152.40 | 215.90 | 92.08 |
| 4" | × | 1½" | 304.80 | 152.40 | 215.90 | 92.08 |
| 4" | × | 2" | 304.80 | 152.40 | 215.90 | 98.55 |
| 4" | × | 2½" | 304.80 | 152.40 | 215.90 | 98.55 |
| 4" | × | 3" | 304.80 | 152.40 | 215.90 | 98.55 |

Gillain & Co
HYGIENIC EQUIPMENT FOR FOOD & LIFE SCIENCES




## 1. Kennis van zaken
Onze gespecialiseerde adviseurs zorgen ervoor dat u de juiste keuze maakt – die in *uw* voordeel is.

## 2. Snelle leveringen
*Altijd snel bevoorraad.* Standaardwisselstukken en –onderdelen ontvangt u zelfs binnen de 24 uur.
*Altijd soepele levering.* Uw order verwerken wij dezelfde dag. Met ons volledig geautomatiseed magazijn staan uw artikels in no time klaar voor verzending.

## 3. Altijd de beste deal
Wij houden u graag als klant. Dus krijgt u steeds onze beste prijzen. Doe de test: vraag een vrijblijvende offerte via advice@gillain.com

## 4. Topfabrikanten
Om onze doelstelling - u de hoogste kwaliteit tegen de beste prijs aan te bieden - werken wij enkel samen met fabrikanten die gespecialiseerd zijn binnen hun specifiek domein.

## 5. Veiligheid voorop
Onze producten voldoen aan de hoogste veilgheids- en performance-eisen.

## 6. Wegwijs in certificaten
Wij informeren u graag over de normen en specificaties en bezorgen u de juiste certificaten.

## 7. Efficiënt voorraadbeheer
*Alleen wat u nodig heeft.* Sla uw voorraad in consignatie bij ons op: wij hebben de ruimte en de kennis om hem te beheren. En u betaalt gewoon wat u verbruikt.
*Meer service.* Wij beheren uw voorraad voor u - ook als u uw goederen opslaat in het eigen magazijn.
*Zolang u wenst.* Vraag naar onze lange- of kortetermijnoplossingen.

## 8. Veeleisend voor onszelf
*Altijd veilig en verantwoord.* Uiteraard stellen wij hoge eisen aan onszelf als het om hygiëne en veiligheid gaat. Maar ook verantwoord ondernemen staat hoog in ons vaandel. Ondermeer daarom installeerden we zonnepanelen die alle energie leveren voor ons magazijn en die van Gillain & Co een $CO^2$-neutraal bedrijf maken.

# Waarom Gillain & Co ?

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