



# 2014

Professionals in  
Flow & Fluid Technology



# MALLEABELE FITTINGEN & STAAL

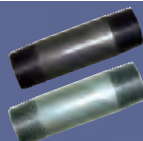
# 11



EE malleabel fitwerk

EE  
1888

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Pijpnippels

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Lasbochten en  
lassokken

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Georg Fischer  
malleabel fitwerk

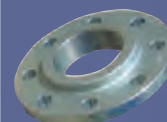
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Gasbuizen

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Stalen flenzen

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# malleabel fitwerk

**DIN-DVGW-Baumusterprüfzertifikat**  
DIN-DVGW type examination certificate

DVGW CERT GMBH

NV-7641CL0044

**Anwendungsbereich**  
field of application: Produkte der Gas- und Wasseranverpung  
products of gas and water supply

**Zertifikatsnummer**  
number of certificate: ODEWNA ŻELWA S.A.  
ul. Leśna 10, PL-42-400 Zawiercie

**Vertreiber**  
distributed: ODEWNA ŻELWA S.A.  
ul. Leśna 10, PL-42-400 Zawiercie

**Produktart**  
product category: metal pod ciśnisk and joints / malleable cast iron fittings (FR41)

**Produktbezeichnung**  
product description: malleable cast iron fittings, design symbol "A"

**Modell**  
model: EE

**Prüfberichte**  
test reports: mechanical test 120003500 from 08.02.2010 (MPP4)

**Prüfgruppen**  
tests of type examination: DIN EN 10242 (01.05.1999)

INSTYTUT NAFTY I GAZU  
OIL AND GAS INSTITUTE  
Biurowiec 10-0000 For - 42-400 Zawiercie  
BIURO CERTYFIKACJI  
CERTIFICATION OFFICE

PCIA

**CERTYFIKAT ZGODNOŚCI** Nr 29 / 12  
CERTIFICATE OF CONFORMITY

Imię i adres producenta  
Name of producer: Odlewnia Żelwa S.A.  
42-400 Zawiercie ul. Leśna 10

Wytwórca  
Manufacturer: Odlewnia Żelwa S.A.  
42-400 Zawiercie ul. Leśna 10

Typ produktu  
Type of product: Ciężkometalowe kształunki żelazne i żeluzne emaliowane  
Cast iron castings

Wymiary nominalne  
Nominal size: kształunki A, trypanki B i C, przewarki C, przewarki M i N,  
kolki D (C, rozkipek) kolki F, przewarki Z,  
dławiaki H i J, Złączniki podciężkometalowe UAT 18A2  
średnie nominalne: N x 2 (DIN5 - DN50) / MOPES 121-20°C - 80 °C

Przebieg badania  
Examination report: badania państwowe budowlane - Analiza jakościowa (państwowy  
wg PN-EN-10242:1999 i 41-200 i 42-2005

Wzrost techniczny  
Technical growth: PN-EN 10242:1999 i 41-200 i 42-2005

NARÓDOWY INSTYTUT ZDROWIA PUBLICZNEGO  
- PAŃSTWOWY ZAKŁAD HYGIENY  
NATIONAL INSTITUTE OF PUBLIC HEALTH  
- NATIONAL INSTITUTE OF HYGIENE  
ZAKŁAD HYGIENY ŚRODOWISKA  
DEPARTMENT OF ENVIRONMENTAL HYGIENE

**ATEST HIGIENICZNY** HK/W.0452/01/2012  
HYGIENIC CERTIFICATE

Wzrost / product: Thrusted Pipe Fittings in Malleable Iron, according to standard  
EN 10242 and ISO 48

Zastosowanie / containing: żeluzne cm, złącza ciemne  
cast iron connections in water pipe networks, including drinking water systems, gas networks, sewer networks, fire protection systems and central heating systems

Wytyczne / instructions: Wytyczne według projektu robocznego wypracowanego higienicznymi przy spełnieniu następujących warunków  
without revisions

Wytwórca / producer: Odlewnia Żelwa S.A. Zawiercie  
42-400 Zawiercie  
ul. Leśna 10

Ministerstwo Zdrowia wydanie, na wniosek / this certificate issued for: Odlewnia Żelwa S.A. Zawiercie  
42-400 Zawiercie  
ul. Leśna 10

**ATTEST** tena jest ważny tylko w odniesieniu do przedmiotowo określonych warunków  
przebiegu badania, grupy, kierunku oraz warunków wytworzenia wyrobu.  
This certificate is valid only in relation to the specified conditions of production.  
The certificate loses its validity after 1807-06-15  
or in the case of changes in composition or in technology of production.

Data wydania atestu higienicznego: 15 czerwca 2012  
The date of issue of the certificate: 15th June 2012

**Kierownik**  
Zakładu Higieny Środowiska  
Małgorzata Strycharczyk

BUREAU VERITAS  
Certification

**Certificate**  
Attested to  
**ODLEWNA ŻELWA S.A.**  
ul. Leśna 10, 42-400 ZAWIERCIE  
POLAND

Bureau Veritas Certification aversy that the Management System of the above organization  
has been modified and found to be in accordance with the requirements of the  
management system standards detailed below

**STANDARDS**  
ISO 9001:2008  
ISO 14001:2004  
PN-N-18001:2004

**SCOPE OF SUPPLY**  
FUSING AND MANUFACTURING OF FINE-GRAINED CASTINGS,  
MALLEABLE CAST IRON FITTINGS AND OTHER CAST IRON CASTINGS,  
GALVANIZED AND BLACK.

Attestation Date: 7 July 2011  
Subject to the standard certification procedure of the organization's Management System  
the certificate is valid until 21 July 2016

The lead of the certification body shall issue you a 49 22 8420 00  
Further information regarding the scope of the certificate and the applicability of its management system requirements  
may be obtained by consulting our operations.

Date: 7 July 2011

**Signature** PL10001689

Brian O'Connell  
BIA Operator Manager

PCIA

AC 001  
OAS 016  
010

## EE® malleabel fitwerk

- Geproduceerd van recycled ijzer onder ISO normering
- Topkwaliteit
- Compleet assortiment
- Goede prijs-kwaliteitverhouding

### Toepassingen:

Persluchtssystemen, ringleidingsystemen, hydraulische systemen, sprinklerinstallaties, olie- en benzinesystemen, waterleidingen, gasleidingen, stoomleidingen, CV-systemen, gritstraalinstallaties & smeersystemen

### Materiaal:

GGY (smeedbaar gietijzer)

### Normering:

W40-05, volgens ISO-5922, DIN-1692, PN-82/H83221

### Kwaliteitscontrole:

ISO-49, DIN-2950, PN-76/H-74392, PN-79/H-74393

### Oppervlaktebehandeling:

Zwart blank gepassiveerd of thermisch badverzinkt

### Testdruk:

Bij kamertemperatuur = 600 KBA

### Werkdruk:

Tot 120°C: 2.5 KBA (= 25 bar)



## 1-Bocht 90° male / female



Zwart - BSPT male/BSP female

| 6700      |        | €     |
|-----------|--------|-------|
| 46101313Z | 1/4"   | 2.15  |
| 46101717Z | 3/8"   | 2.65  |
| 46102121Z | 1/2"   | 2.40  |
| 46102727Z | 3/4"   | 4.10  |
| 46103232Z | 1"     | 5.65  |
| 46104242Z | 1.1/4" | 9.80  |
| 46104848Z | 1.1/2" | 12.95 |
| 46106060Z | 2"     | 21.05 |
| 46107676Z | 2.1/2" | 45.95 |
| 46108989Z | 3"     | 59.45 |

Verzinkt - BSPT male/BSP female

| 6700     |        | €      |
|----------|--------|--------|
| 46101313 | 1/4"   | 2.75   |
| 46101717 | 3/8"   | 3.40   |
| 46102121 | 1/2"   | 2.95   |
| 46102727 | 3/4"   | 5.15   |
| 46103232 | 1"     | 7.00   |
| 46104242 | 1.1/4" | 12.00  |
| 46104848 | 1.1/2" | 16.05  |
| 46106060 | 2"     | 25.95  |
| 46107676 | 2.1/2" | 57.05  |
| 46108989 | 3"     | 73.80  |
| 46100114 | 4"     | 133.70 |

## 2-Bocht 90° female



Zwart - BSP female

| 6700      |        | €     |
|-----------|--------|-------|
| 46092121Z | 1/2"   | 2.65  |
| 46092727Z | 3/4"   | 4.20  |
| 46093232Z | 1"     | 5.70  |
| 46094242Z | 1.1/4" | 9.80  |
| 46094848Z | 1.1/2" | 12.10 |
| 46096060Z | 2"     | 16.80 |

Verzinkt - BSP female

| 6700     |        | €      |
|----------|--------|--------|
| 46092121 | 1/2"   | 3.35   |
| 46092727 | 3/4"   | 5.20   |
| 46093232 | 1"     | 7.00   |
| 46094242 | 1.1/4" | 12.10  |
| 46094848 | 1.1/2" | 14.95  |
| 46096060 | 2"     | 20.80  |
| 46097676 | 2.1/2" | 57.85  |
| 46098989 | 3"     | 72.70  |
| 46090114 | 4"     | 137.95 |

## 3-Bocht 90° male



Verzinkt - BSPT male

| 6700     |      | €    |
|----------|------|------|
| 45032121 | 1/2" | 4.80 |
| 45032727 | 3/4" | 5.30 |
| 45033232 | 1"   | 7.65 |

## 40-Bocht 45° male / female



Verzinkt - BSPT male/BSP female

| 6700     |        | €      |
|----------|--------|--------|
| 48101313 | 1/4"   | 3.95   |
| 48101717 | 3/8"   | 3.65   |
| 48102121 | 1/2"   | 3.35   |
| 48102727 | 3/4"   | 4.50   |
| 48103232 | 1"     | 6.35   |
| 48104242 | 1.1/4" | 11.25  |
| 48104848 | 1.1/2" | 13.40  |
| 48106060 | 2"     | 21.05  |
| 48107676 | 2.1/2" | 45.85  |
| 48108989 | 3"     | 50.20  |
| 48100114 | 4"     | 113.55 |

## 41-Bocht 45° female



Zwart - BSP female

| 6700      |        | €     |
|-----------|--------|-------|
| 48094242Z | 1.1/4" | 9.25  |
| 48094848Z | 1.1/2" | 12.25 |
| 48096060Z | 2"     | 17.30 |

Verzinkt - BSP female

| 6700     |        | €     |
|----------|--------|-------|
| 48092121 | 1/2"   | 3.95  |
| 48092727 | 3/4"   | 5.00  |
| 48093232 | 1"     | 6.35  |
| 48094242 | 1.1/4" | 11.45 |
| 48094848 | 1.1/2" | 15.05 |
| 48096060 | 2"     | 21.20 |
| 48097676 | 2.1/2" | 42.15 |
| 48098989 | 3"     | 53.70 |

- KELM™ pneumatiek
- Hydrauliek
- Snelkoppelingen
- Afsluiters
- Roestvast staal
- Fittingen
- Luchtconditionering
- Gereedschap
- Pneumatiek
- Diversen
- Malleabele fittingen & staal
- Ringleidingssystemen
- Slangen
- Compressoren

## 90-Knie 90° female



Zwart - BSP female

| 6700      |        | €     |
|-----------|--------|-------|
| 45091313Z | 1/4"   | 1.50  |
| 45091717Z | 3/8"   | 1.20  |
| 45092121Z | 1/2"   | 0.90  |
| 45092727Z | 3/4"   | 1.50  |
| 45093232Z | 1"     | 2.00  |
| 45094242Z | 1.1/4" | 3.85  |
| 45094848Z | 1.1/2" | 6.35  |
| 45096060Z | 2"     | 7.35  |
| 45097676Z | 2.1/2" | 21.05 |
| 45098989Z | 3"     | 28.90 |
| 45090114Z | 4"     | 46.15 |

Verzinkt - BSP female

| 6700     |        | €     |
|----------|--------|-------|
| 45091313 | 1/4"   | 1.80  |
| 45091717 | 3/8"   | 1.50  |
| 45092121 | 1/2"   | 1.40  |
| 45092727 | 3/4"   | 1.75  |
| 45093232 | 1"     | 2.50  |
| 45094242 | 1.1/4" | 4.70  |
| 45094848 | 1.1/2" | 7.90  |
| 45096060 | 2"     | 9.15  |
| 45097676 | 2.1/2" | 26.15 |
| 45098989 | 3"     | 35.90 |
| 45090114 | 4"     | 63.05 |

## 92-Knie 90° male / female



Zwart - BSPT male/BSP female

| 6700      |        | €     |
|-----------|--------|-------|
| 45101313Z | 1/4"   | 1.55  |
| 45101717Z | 3/8"   | 1.40  |
| 45102121Z | 1/2"   | 1.15  |
| 45102727Z | 3/4"   | 1.65  |
| 45103232Z | 1"     | 2.65  |
| 45104242Z | 1.1/4" | 4.50  |
| 45104848Z | 1.1/2" | 6.80  |
| 45106060Z | 2"     | 8.90  |
| 45107676Z | 2.1/2" | 21.80 |
| 45108989Z | 3"     | 28.65 |

Verzinkt - BSPT male/BSP female

| 6700     |        | €     |
|----------|--------|-------|
| 45101313 | 1/4"   | 1.90  |
| 45101717 | 3/8"   | 1.75  |
| 45102121 | 1/2"   | 1.40  |
| 45102727 | 3/4"   | 2.00  |
| 45103232 | 1"     | 3.35  |
| 45104242 | 1.1/4" | 5.65  |
| 45104848 | 1.1/2" | 8.50  |
| 45106060 | 2"     | 11.15 |
| 45107676 | 2.1/2" | 26.95 |
| 45108989 | 3"     | 35.55 |
| 45100114 | 4"     | 63.20 |

## 96-Driedelige knie conisch dichtend female



Zwart - BSP female

| 6700      |        | €     |
|-----------|--------|-------|
| 49092121Z | 1/2"   | 5.70  |
| 49092727Z | 3/4"   | 6.55  |
| 49093232Z | 1"     | 9.55  |
| 49094242Z | 1.1/4" | 15.90 |
| 49094848Z | 1.1/2" | 18.70 |
| 49096060Z | 2"     | 31.55 |

Verzinkt - BSP female

| 6700     |        | €     |
|----------|--------|-------|
| 49091717 | 3/8"   | 8.70  |
| 49092121 | 1/2"   | 7.15  |
| 49092727 | 3/4"   | 8.10  |
| 49093232 | 1"     | 11.80 |
| 49094242 | 1.1/4" | 19.65 |
| 49094848 | 1.1/2" | 23.05 |
| 49096060 | 2"     | 39.00 |

## 98-Driedelige knie conisch dichtend male / female



Zwart - BSPT male/BSP female

| 6700      |        | €     |
|-----------|--------|-------|
| 49102727Z | 3/4"   | 7.25  |
| 49103232Z | 1"     | 10.10 |
| 49104242Z | 1.1/4" | 16.70 |
| 49104848Z | 1.1/2" | 20.60 |
| 49106060Z | 2"     | 33.45 |



Verzinkt - BSPT male/BSP female

| 6700     |        | €     |
|----------|--------|-------|
| 49101717 | 3/8"   | 7.70  |
| 49102121 | 1/2"   | 7.15  |
| 49102727 | 3/4"   | 8.90  |
| 49103232 | 1"     | 12.45 |
| 49104242 | 1.1/4" | 20.70 |
| 49104848 | 1.1/2" | 25.45 |
| 49106060 | 2"     | 41.50 |

KELM™  
pneumatiek

Hydrauliek

Snel-  
koppelingen

Afsluiters

Roestvast  
staal

Fittingen

Lucht-  
conditionering

Gereedschap

Pneumatiek

Diversen

Malleabele  
fittingen  
& staal

Ringleiding-  
systemen

Slangen

Compressoren

## 130-Tee female



Zwart - BSP female

| 6700      |        | €     |
|-----------|--------|-------|
| 45121313Z | 1/4"   | 2.00  |
| 45121717Z | 3/8"   | 1.75  |
| 45122121Z | 1/2"   | 1.20  |
| 45122727Z | 3/4"   | 2.00  |
| 45123232Z | 1"     | 2.85  |
| 45124242Z | 1.1/4" | 5.20  |
| 45124848Z | 1.1/2" | 8.20  |
| 45126060Z | 2"     | 11.65 |
| 45127676Z | 2.1/2" | 25.65 |
| 45128989Z | 3"     | 34.65 |
| 45120114Z | 4"     | 66.45 |

Verzinkt - BSP female

| 6700     |        | €     |
|----------|--------|-------|
| 45121313 | 1/4"   | 2.50  |
| 45121717 | 3/8"   | 2.15  |
| 45122121 | 1/2"   | 1.65  |
| 45122727 | 3/4"   | 2.50  |
| 45123232 | 1"     | 3.85  |
| 45124242 | 1.1/4" | 6.45  |
| 45124848 | 1.1/2" | 10.20 |
| 45126060 | 2"     | 14.25 |
| 45127676 | 2.1/2" | 31.90 |
| 45128989 | 3"     | 42.70 |
| 45120114 | 4"     | 82.30 |

## 130-Verloop tee female



Zwart - BSP female

| 6700      |                      | €     |
|-----------|----------------------|-------|
| 46211321Z | 1/2"-1/4"-1/2"       | 2.75  |
| 46212721Z | 1/2"-3/4"-1/2"       | 2.45  |
| 46271327Z | 3/4"-1/4"-3/4"       | 3.85  |
| 46272121Z | 3/4"-1/2"-1/2"       | 2.35  |
| 46272721Z | 3/4"-3/4"-1/2"       | 2.60  |
| 46322132Z | 1"-1/2"-1"           | 2.75  |
| 46423242Z | 1.1/4"-1"-1.1/4"     | 5.65  |
| 46482748Z | 1.1/2"-3/4"-1.1/2"   | 6.70  |
| 46483248Z | 1.1/2"-1"-1.1/2"     | 7.25  |
| 46484248Z | 1.1/2"-1.1/4"-1.1/2" | 9.80  |
| 46602160Z | 2"-1/2"-2"           | 9.15  |
| 46602760Z | 2"-3/4"-2"           | 12.00 |
| 46603260Z | 2"-1"-2"             | 9.35  |
| 46604260Z | 2"-1.1/4"-2"         | 11.80 |
| 46604860Z | 2"-1.1/2"-2"         | 13.75 |

Verzinkt - BSP female

| 6700     |                      | €     |
|----------|----------------------|-------|
| 46211321 | 1/2"-1/4"-1/2"       | 3.65  |
| 46212721 | 1/2"-3/4"-1/2"       | 3.10  |
| 46271327 | 3/4"-1/4"-3/4"       | 4.70  |
| 46271727 | 3/4"-3/8"-3/4"       | 3.50  |
| 46272127 | 3/4"-1/2"-3/4"       | 2.50  |
| 46321732 | 1"-3/8"-1"           | 5.75  |
| 46322132 | 1"-1/2"-1"           | 3.50  |
| 46322732 | 1"-3/4"-1"           | 3.75  |
| 46323221 | 1"-1"-1/2"           | 4.55  |
| 46324832 | 1"-1.1/2"-1"         | 10.55 |
| 46422142 | 1.1/4"-1/2"-1.1/4"   | 5.80  |
| 46422732 | 1.1/4"-3/4"-1"       | 7.65  |
| 46422742 | 1.1/4"-3/4"-1.1/4"   | 6.20  |
| 46482148 | 1.1/2"-1/2"-1.1/2"   | 7.90  |
| 46482748 | 1.1/2"-3/4"-1.1/2"   | 8.30  |
| 46483242 | 1.1/2"-1"-1.1/4"     | 10.20 |
| 46483248 | 1.1/2"-1"-1.1/2"     | 9.25  |
| 46484248 | 1.1/2"-1.1/4"-1.1/2" | 12.10 |
| 46486048 | 1.1/2"-2"-1.1/2"     | 16.70 |
| 46602160 | 2"-1/2"-2"           | 11.25 |
| 46602760 | 2"-3/4"-2"           | 14.80 |
| 46603260 | 2"-1"-2"             | 11.65 |
| 46604260 | 2"-1.1/4"-2"         | 14.80 |
| 46604860 | 2"-1.1/2"-2"         | 17.10 |
| 46762776 | 2.1/2"-3/4"-2.1/2"   | 23.65 |
| 46764876 | 2.1/2"-1.1/2"-2.1/2" | 27.50 |
| 46766076 | 2.1/2"-2"-2.1/2"     | 31.00 |
| 46894889 | 3"-1.1/2"-3"         | 43.35 |
| 46896089 | 3"-2"-3"             | 40.05 |
| 46897689 | 3"-2.1/2"-3"         | 47.75 |

## 165-Tee 45° female



Verzinkt - BSP female

| 6700     |        | €     |
|----------|--------|-------|
| 48122121 | 1/2"   | 8.50  |
| 48122727 | 3/4"   | 9.80  |
| 48123232 | 1"     | 14.65 |
| 48124242 | 1.1/4" | 18.05 |
| 48124848 | 1.1/2" | 24.35 |

## 180-Kruissok female



Zwart - BSP female

| 6700      |      | €    |
|-----------|------|------|
| 45322121Z | 1/2" | 4.00 |
| 45322727Z | 3/4" | 6.10 |
| 45323232Z | 1"   | 7.45 |

Verzinkt - BSP female

| 6700     |        | €     |
|----------|--------|-------|
| 45321717 | 3/8"   | 5.45  |
| 45322121 | 1/2"   | 5.20  |
| 45322727 | 3/4"   | 7.90  |
| 45323232 | 1"     | 9.90  |
| 45324242 | 1.1/4" | 13.05 |
| 45324848 | 1.1/2" | 17.60 |
| 45326060 | 2"     | 25.95 |

## 221-Knie met zijspuitstuk female



Verzinkt - BSP female

| 6700     |      | €     |
|----------|------|-------|
| 49991717 | 3/8" | 6.35  |
| 49992121 | 1/2" | 4.70  |
| 49992727 | 3/4" | 7.30  |
| 49993232 | 1"   | 10.00 |

KELM™  
pneumatiek

Hydrauliek

Snel-  
koppelingen

Afsluiters

Roestvast  
staal

Fittingen

Lucht-  
conditionering

Gereedschap

Pneumatiek

Diversen

Malleabele  
fittingen  
& staal

Ringleiding-  
systemen

Slangen

Compressoren

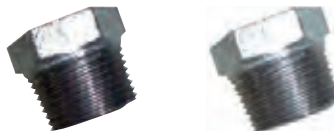
## 240-Verloopsok female



Verzinkt - BSP female

| 6700     |               | €     |
|----------|---------------|-------|
| 45071713 | 3/8"-1/4"     | 2.10  |
| 45072113 | 1/2"-1/4"     | 2.15  |
| 45072117 | 1/2"-3/8"     | 1.85  |
| 45072717 | 3/4"-3/8"     | 2.55  |
| 45072721 | 3/4"-1/2"     | 2.15  |
| 45073217 | 1"-3/8"       | 3.50  |
| 45073221 | 1"-1/2"       | 2.65  |
| 45073227 | 1"-3/4"       | 2.45  |
| 45074221 | 1.1/4"-1/2"   | 5.05  |
| 45074232 | 1.1/4"-1"     | 4.50  |
| 45074821 | 1.1/2"-1/2"   | 7.90  |
| 45074827 | 1.1/2"-3/4"   | 7.00  |
| 45074832 | 1.1/2"-1"     | 5.30  |
| 45074842 | 1.1/2"-1.1/4" | 5.95  |
| 45076021 | 2"-1/2"       | 10.80 |
| 45076027 | 2"-3/4"       | 11.25 |
| 45076032 | 2"-1"         | 10.55 |
| 45076042 | 2"-1.1/4"     | 9.25  |
| 45076048 | 2"-1.1/2"     | 8.70  |
| 45077632 | 2.1/2"-1"     | 21.20 |
| 45077660 | 2.1/2"-2"     | 23.90 |
| 45078960 | 3"-2"         | 37.15 |
| 45078976 | 3"-2.1/2"     | 42.15 |
| 45711460 | 4"-2"         | 64.00 |
| 45711489 | 4"-3"         | 68.70 |

## 241-Verlooping male / female



Zwart - BSPT male/BSP female

| 6700      |               | €    |
|-----------|---------------|------|
| 45041713Z | 3/8"-1/4"     | 1.05 |
| 45042113Z | 1/2"-1/4"     | 0.85 |
| 45042117Z | 1/2"-3/8"     | 0.80 |
| 45042713Z | 3/4"-1/4"     | 1.60 |
| 45042717Z | 3/4"-3/8"     | 1.35 |
| 45042721Z | 3/4"-1/2"     | 0.85 |
| 45043217Z | 1"-3/8"       | 2.00 |
| 45043221Z | 1"-1/2"       | 1.35 |
| 45043227Z | 1"-3/4"       | 1.20 |
| 45044221Z | 1.1/4"-1/2"   | 2.35 |
| 45044227Z | 1.1/4"-3/4"   | 2.00 |
| 45044232Z | 1.1/4"-1"     | 1.45 |
| 45044827Z | 1.1/2"-3/4"   | 3.10 |
| 45044832Z | 1.1/2"-1"     | 2.15 |
| 45044842Z | 1.1/2"-1.1/4" | 2.25 |
| 45046021Z | 2"-1/2"       | 5.95 |
| 45046027Z | 2"-3/4"       | 5.80 |
| 45046032Z | 2"-1"         | 4.80 |
| 45046042Z | 2"-1.1/4"     | 4.50 |
| 45046048Z | 2"-1.1/2"     | 4.20 |

Verzinkt - BSPT male/BSP female

| 6700     |               | €     |
|----------|---------------|-------|
| 45041713 | 3/8"-1/4"     | 1.45  |
| 45042113 | 1/2"-1/4"     | 1.05  |
| 45042117 | 1/2"-3/8"     | 1.05  |
| 45042713 | 3/4"-1/4"     | 1.95  |
| 45042717 | 3/4"-3/8"     | 1.50  |
| 45042721 | 3/4"-1/2"     | 1.20  |
| 45043217 | 1"-3/8"       | 2.45  |
| 45043221 | 1"-1/2"       | 1.70  |
| 45043227 | 1"-3/4"       | 1.50  |
| 45044217 | 1.1/4"-3/8"   | 4.55  |
| 45044221 | 1.1/4"-1/2"   | 2.85  |
| 45044227 | 1.1/4"-3/4"   | 2.45  |
| 45044232 | 1.1/4"-1"     | 1.75  |
| 45044821 | 1.1/2"-1/2"   | 3.65  |
| 45044827 | 1.1/2"-3/4"   | 3.95  |
| 45044832 | 1.1/2"-1"     | 2.65  |
| 45044842 | 1.1/2"-1.1/4" | 2.75  |
| 45046021 | 2"-1/2"       | 7.35  |
| 45046027 | 2"-3/4"       | 7.15  |
| 45046032 | 2"-1"         | 5.95  |
| 45046042 | 2"-1.1/4"     | 5.65  |
| 45046048 | 2"-1.1/2"     | 5.15  |
| 45047632 | 2.1/2"-1"     | 11.45 |
| 45047642 | 2.1/2"-1.1/4" | 13.40 |
| 45047648 | 2.1/2"-1.1/2" | 12.70 |
| 45047660 | 2.1/2"-2"     | 9.65  |
| 45048932 | 3"-1"         | 18.00 |
| 45048948 | 3"-1.1/2"     | 16.70 |
| 45048960 | 3"-2"         | 12.55 |
| 45048976 | 3"-2.1/2"     | 14.25 |
| 45411460 | 4"-2"         | 36.05 |
| 45411476 | 4"-2.1/2"     | 26.75 |
| 45411489 | 4"-3"         | 25.65 |

## 245-Verloopnippel male



Zwart - BSPT male

| 6700      |               | €    |
|-----------|---------------|------|
| 45021713Z | 3/8"-1/4"     | 1.70 |
| 45022113Z | 1/2"-1/4"     | 2.35 |
| 45022117Z | 1/2"-3/8"     | 2.00 |
| 45022717Z | 3/4"-3/8"     | 3.50 |
| 45022721Z | 3/4"-1/2"     | 1.75 |
| 45023221Z | 1"-1/2"       | 3.65 |
| 45023227Z | 1"-3/4"       | 2.00 |
| 45024232Z | 1.1/4"-1"     | 3.35 |
| 45024832Z | 1.1/2"-1"     | 7.45 |
| 45024842Z | 1.1/2"-1.1/4" | 4.00 |
| 45026032Z | 2"-1"         | 6.70 |
| 45026042Z | 2"-1.1/4"     | 8.50 |
| 45026048Z | 2"-1.1/2"     | 7.80 |

Verzinkt - BSPT male

| 6700     |               | €     |
|----------|---------------|-------|
| 45021713 | 3/8"-1/4"     | 2.15  |
| 45022113 | 1/2"-1/4"     | 2.85  |
| 45022117 | 1/2"-3/8"     | 2.45  |
| 45022717 | 3/4"-3/8"     | 4.40  |
| 45022721 | 3/4"-1/2"     | 2.25  |
| 45023217 | 1"-3/8"       | 4.25  |
| 45023221 | 1"-1/2"       | 4.40  |
| 45023227 | 1"-3/4"       | 2.45  |
| 45024221 | 1.1/4"-1/2"   | 6.75  |
| 45024227 | 1.1/4"-3/4"   | 5.75  |
| 45024232 | 1.1/4"-1"     | 4.00  |
| 45024821 | 1.1/2"-1/2"   | 6.75  |
| 45024827 | 1.1/2"-3/4"   | 5.75  |
| 45024832 | 1.1/2"-1"     | 9.35  |
| 45024842 | 1.1/2"-1.1/4" | 5.00  |
| 45026021 | 2"-1/2"       | 9.70  |
| 45026027 | 2"-3/4"       | 9.55  |
| 45026032 | 2"-1"         | 8.30  |
| 45026042 | 2"-1.1/4"     | 10.55 |
| 45026048 | 2"-1.1/2"     | 9.55  |
| 45027648 | 2.1/2"-1.1/2" | 14.05 |
| 45027660 | 2.1/2"-2"     | 23.65 |
| 45028960 | 3"-2"         | 28.75 |
| 45028976 | 3"-2.1/2"     | 35.65 |

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## 246-Verloop soknippel



Verzinkt - BSPT male/BSP female

| 6700     |               | €     |
|----------|---------------|-------|
| 45081713 | 3/8"-1/4"     | 1.95  |
| 45082113 | 1/2"-1/4"     | 2.40  |
| 45082117 | 1/2"-3/8"     | 2.10  |
| 45082717 | 3/4"-3/8"     | 3.35  |
| 45082721 | 3/4"-1/2"     | 2.15  |
| 45083221 | 1"-1/2"       | 3.35  |
| 45083227 | 1"-3/4"       | 3.65  |
| 45084227 | 1.1/4"-3/4"   | 6.35  |
| 45084232 | 1.1/4"-1"     | 4.00  |
| 45084832 | 1.1/2"-1"     | 7.55  |
| 45084842 | 1.1/2"-1.1/4" | 6.55  |
| 45086042 | 2"-1.1/4"     | 10.70 |
| 45086048 | 2"-1.1/2"     | 11.25 |

## 270-Sok female



Zwart - BSP female

| 6700      |        | €    |
|-----------|--------|------|
| 45061313Z | 1/4"   | 1.35 |
| 45061717Z | 3/8"   | 1.20 |
| 45062121Z | 1/2"   | 1.15 |
| 45062727Z | 3/4"   | 1.35 |
| 45063232Z | 1"     | 1.70 |
| 45064242Z | 1.1/4" | 2.75 |
| 45064848Z | 1.1/2" | 3.85 |
| 45066060Z | 2"     | 5.95 |

Verzinkt - BSP female

| 6700     |        | €     |
|----------|--------|-------|
| 45061313 | 1/4"   | 1.75  |
| 45061717 | 3/8"   | 1.50  |
| 45062121 | 1/2"   | 1.35  |
| 45062727 | 3/4"   | 1.70  |
| 45063232 | 1"     | 2.15  |
| 45064242 | 1.1/4" | 3.50  |
| 45064848 | 1.1/2" | 4.90  |
| 45066060 | 2"     | 7.35  |
| 45067676 | 2.1/2" | 20.15 |
| 45068989 | 3"     | 24.25 |
| 45060114 | 4"     | 55.65 |

## 280-Dubbele nippel male



Zwart - BSPT male

| 6700      |        | €     |
|-----------|--------|-------|
| 45001313Z | 1/4"   | 1.45  |
| 45001717Z | 3/8"   | 1.70  |
| 45002121Z | 1/2"   | 0.90  |
| 45002727Z | 3/4"   | 1.20  |
| 45003232Z | 1"     | 1.65  |
| 45004242Z | 1.1/4" | 2.75  |
| 45004848Z | 1.1/2" | 3.35  |
| 45006060Z | 2"     | 5.95  |
| 45007676Z | 2.1/2" | 10.35 |
| 45008989Z | 3"     | 12.45 |

Verzinkt - BSPT male

| 6700     |        | €     |
|----------|--------|-------|
| 45001313 | 1/4"   | 1.75  |
| 45001717 | 3/8"   | 2.10  |
| 45002121 | 1/2"   | 1.35  |
| 45002727 | 3/4"   | 1.50  |
| 45003232 | 1"     | 2.10  |
| 45004242 | 1.1/4" | 3.50  |
| 45004848 | 1.1/2" | 4.00  |
| 45006060 | 2"     | 7.35  |
| 45007676 | 2.1/2" | 12.70 |
| 45008989 | 3"     | 15.40 |
| 45000114 | 4"     | 55.50 |

## 300-Kap zeskant female



Zwart - BSP female

| 6700      |        | €     |
|-----------|--------|-------|
| 45261300Z | 1/4"   | 1.00  |
| 45261700Z | 3/8"   | 0.90  |
| 45262100Z | 1/2"   | 1.15  |
| 45262700Z | 3/4"   | 1.35  |
| 45263200Z | 1"     | 1.50  |
| 45264200Z | 1.1/4" | 2.40  |
| 45264800Z | 1.1/2" | 2.95  |
| 45266000Z | 2"     | 5.30  |
| 45267600Z | 2.1/2" | 9.90  |
| 45268900Z | 3"     | 10.80 |
| 45261140Z | 4"     | 23.35 |

## 290-Plug met vierkante kop male



Zwart - BSPT male

| 6700      |        | €     |
|-----------|--------|-------|
| 45181300Z | 1/4"   | 0.75  |
| 45181700Z | 3/8"   | 0.70  |
| 45182100Z | 1/2"   | 0.70  |
| 45182700Z | 3/4"   | 0.90  |
| 45183200Z | 1"     | 1.15  |
| 45184200Z | 1.1/4" | 1.95  |
| 45184800Z | 1.1/2" | 2.35  |
| 45186000Z | 2"     | 4.25  |
| 45187600Z | 2.1/2" | 8.90  |
| 45188900Z | 3"     | 11.65 |
| 45181140Z | 4"     | 20.00 |

Verzinkt - BSPT male

| 6700     |        | €     |
|----------|--------|-------|
| 45181300 | 1/4"   | 1.00  |
| 45181700 | 3/8"   | 0.85  |
| 45182100 | 1/2"   | 0.90  |
| 45182700 | 3/4"   | 1.20  |
| 45183200 | 1"     | 1.40  |
| 45184200 | 1.1/4" | 2.40  |
| 45184800 | 1.1/2" | 2.85  |
| 45186000 | 2"     | 5.30  |
| 45187600 | 2.1/2" | 11.15 |
| 45188900 | 3"     | 14.25 |
| 45181140 | 4"     | 25.20 |

Verzinkt - BSP female

| 6700     |        | €     |
|----------|--------|-------|
| 45261300 | 1/4"   | 1.40  |
| 45261700 | 3/8"   | 1.35  |
| 45262100 | 1/2"   | 1.45  |
| 45262700 | 3/4"   | 1.70  |
| 45263200 | 1"     | 1.90  |
| 45264200 | 1.1/4" | 2.95  |
| 45264800 | 1.1/2" | 3.70  |
| 45266000 | 2"     | 6.80  |
| 45267600 | 2.1/2" | 12.35 |
| 45268900 | 3"     | 13.50 |
| 45261140 | 4"     | 29.10 |

## 301-Kap rond female



Verzinkt - BSP female

| 6700     |        | €    |
|----------|--------|------|
| 45272100 | 1/2"   | 1.90 |
| 45272700 | 3/4"   | 1.75 |
| 45273200 | 1"     | 2.15 |
| 45274200 | 1.1/4" | 3.25 |
| 45274800 | 1.1/2" | 4.05 |
| 45276000 | 2"     | 7.15 |

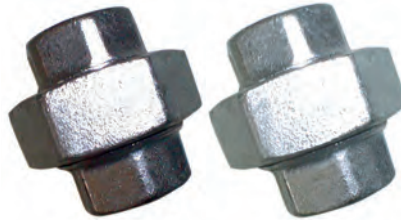
## 310-Sluitmoer zeskant



Verzinkt - BSP female

| 6700     |        | €    |
|----------|--------|------|
| 45301700 | 3/8"   | 1.40 |
| 45302100 | 1/2"   | 1.00 |
| 45302700 | 3/4"   | 1.05 |
| 45303200 | 1"     | 1.45 |
| 45304200 | 1.1/4" | 2.25 |
| 45304800 | 1.1/2" | 2.50 |
| 45306000 | 2"     | 5.15 |

## 340-Driedelige koppeling conisch dichtend female



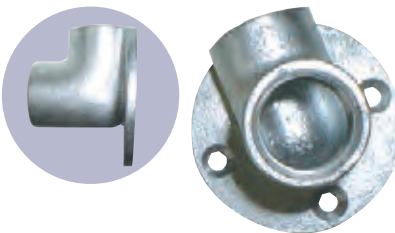
Zwart - BSP female

| 6700      |        | €     |
|-----------|--------|-------|
| 46061717Z | 3/8"   | 5.15  |
| 46062121Z | 1/2"   | 4.80  |
| 46062727Z | 3/4"   | 5.00  |
| 46063232Z | 1"     | 5.80  |
| 46064242Z | 1.1/4" | 9.55  |
| 46064848Z | 1.1/2" | 11.15 |
| 46066060Z | 2"     | 18.60 |
| 46067676Z | 2.1/2" | 40.30 |
| 46068989Z | 3"     | 49.25 |

Verzinkt - BSP female

| 6700     |        | €      |
|----------|--------|--------|
| 46061717 | 3/8"   | 6.35   |
| 46062121 | 1/2"   | 6.05   |
| 46062727 | 3/4"   | 6.30   |
| 46063232 | 1"     | 7.15   |
| 46064242 | 1.1/4" | 12.00  |
| 46064848 | 1.1/2" | 14.05  |
| 46066060 | 2"     | 23.05  |
| 46067676 | 2.1/2" | 49.80  |
| 46068989 | 3"     | 68.55  |
| 46061140 | 4"     | 137.95 |

## 471-Muurplaat female



Verzinkt - BSP female

| 6700     |      | €     |
|----------|------|-------|
| 45472121 | 1/2" | 6.45  |
| 45472727 | 3/4" | 12.65 |

## 341-Driedelige koppeling conisch dichtend male / female



Zwart - BSPT male/BSP female

| 6700      |        | €     |
|-----------|--------|-------|
| 47081717Z | 3/8"   | 4.50  |
| 47082121Z | 1/2"   | 4.30  |
| 47082727Z | 3/4"   | 5.20  |
| 47083232Z | 1"     | 6.45  |
| 47084242Z | 1.1/4" | 10.20 |
| 47084848Z | 1.1/2" | 13.15 |
| 47086060Z | 2"     | 20.70 |
| 47087676Z | 2.1/2" | 43.95 |
| 47088989Z | 3"     | 68.70 |

Verzinkt - BSPT male/BSP female

| 6700     |        | €      |
|----------|--------|--------|
| 47081717 | 3/8"   | 5.65   |
| 47082121 | 1/2"   | 5.65   |
| 47082727 | 3/4"   | 6.90   |
| 47083232 | 1"     | 8.10   |
| 47084242 | 1.1/4" | 12.55  |
| 47086060 | 2"     | 25.45  |
| 47084848 | 1.1/2" | 16.05  |
| 47087676 | 2.1/2" | 54.30  |
| 47088989 | 3"     | 85.00  |
| 47080114 | 4"     | 152.80 |

## 529A-Soknippel male / female



Verzinkt - BSPT male/BSP female

| 6700     |      | €    |
|----------|------|------|
| 46082121 | 1/2" | 2.25 |
| 46082727 | 3/4" | 3.15 |
| 46083232 | 1"   | 5.00 |

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Compressoren

# PIJPNIPPELS - STAAL

## 23-Pijpnippel male - zwart



DIN 2982 - BSPT male




| MALZ      |  |  | €    | MALZ      |  |  | €    | MALZ      |  |  | €     |
|-----------|---|---|------|-----------|---|---|------|-----------|---|---|-------|
| 45313040Z | 1/4"  | 40  | 1.85 | 45327060Z | 3/4"  | 60  | 1.15 | 45348180Z | 1,1/2"  | 180   | 4.65  |
| 45313060Z | 1/4"  | 60  | 2.20 | 45327080Z | 3/4"  | 80  | 1.45 | 45348200Z | 1,1/2"  | 200   | 5.05  |
| 45313080Z | 1/4"  | 80  | 2.45 | 45327100Z | 3/4"  | 100   | 1.65 | 45348250Z | 1,1/2"  | 250   | 6.35  |
| 45313100Z | 1/4"  | 100   | 2.65 | 45327120Z | 3/4"  | 120   | 1.85 | 45348300Z | 1,1/2"  | 300   | 7.25  |
| 45313120Z | 1/4"  | 120   | 3.10 | 45327150Z | 3/4"  | 150   | 1.95 | 45360080Z | 2"  | 80  | 4.40  |
| 45313150Z | 1/4"  | 150   | 3.80 | 45327180Z | 3/4"  | 180   | 2.35 | 45360100Z | 2"  | 100   | 4.75  |
| 45313180Z | 1/4"  | 180   | 4.80 | 45327200Z | 3/4"  | 200   | 2.60 | 45360120Z | 2"  | 120   | 5.05  |
| 45313200Z | 1/4"  | 200   | 5.40 | 45327250Z | 3/4"  | 250   | 3.00 | 45360150Z | 2"  | 150   | 5.80  |
| 45313250Z | 1/4"  | 250   | 6.15 | 45327300Z | 3/4"  | 300   | 3.65 | 45360180Z | 2"  | 180   | 6.50  |
| 45313300Z | 1/4"  | 300   | 6.95 | 45332040Z | 1"  | 40  | 1.45 | 45360200Z | 2"  | 200   | 6.90  |
| 45317030Z | 3/8"  | 30  | 1.85 | 45332060Z | 1"  | 60  | 1.50 | 45360250Z | 2"  | 250   | 8.90  |
| 45317040Z | 3/8"  | 40  | 1.65 | 45332080Z | 1"  | 80  | 1.75 | 45360300Z | 2"  | 300   | 10.45 |
| 45317060Z | 3/8"  | 60  | 1.85 | 45332100Z | 1"  | 100   | 1.95 | 45376100Z | 2,1/2"  | 100   | 8.60  |
| 45317080Z | 3/8"  | 80  | 1.95 | 45332120Z | 1"  | 120   | 2.15 | 45376120Z | 2,1/2"  | 120   | 9.10  |
| 45317100Z | 3/8"  | 100   | 2.15 | 45332150Z | 1"  | 150   | 2.45 | 45376150Z | 2,1/2"  | 150   | 10.65 |
| 45317120Z | 3/8"  | 120   | 2.35 | 45332180Z | 1"  | 180   | 3.10 | 45376180Z | 2,1/2"  | 180   | 11.45 |
| 45317150Z | 3/8"  | 150   | 2.90 | 45332200Z | 1"  | 200   | 3.80 | 45376200Z | 2,1/2"  | 200   | 12.60 |
| 45317180Z | 3/8"  | 180   | 3.40 | 45332250Z | 1"  | 250   | 4.00 | 45376250Z | 2,1/2"  | 250   | 15.70 |
| 45317200Z | 3/8"  | 200   | 4.00 | 45332300Z | 1"  | 300   | 4.80 | 45376300Z | 2,1/2"  | 300   | 17.55 |
| 45317250Z | 3/8"  | 250   | 4.90 | 45342060Z | 1,1/4"  | 60  | 2.30 | 45389100Z | 3"  | 100   | 11.45 |
| 45317300Z | 3/8"  | 300   | 5.80 | 45342080Z | 1,1/4"  | 80  | 2.35 | 45389120Z | 3"  | 120   | 12.50 |
| 45321030Z | 1/2"  | 30  | 1.95 | 45342100Z | 1,1/4"  | 100   | 2.45 | 45389150Z | 3"  | 150   | 14.00 |
| 45321040Z | 1/2"  | 40  | 0.95 | 45342120Z | 1,1/4"  | 120   | 2.60 | 45389180Z | 3"  | 180   | 15.05 |
| 45321060Z | 1/2"  | 60  | 1.05 | 45342150Z | 1,1/4"  | 150   | 3.10 | 45389200Z | 3"  | 200   | 16.20 |
| 45321080Z | 1/2"  | 80  | 1.15 | 45342180Z | 1,1/4"  | 180   | 3.90 | 45389250Z | 3"  | 250   | 18.95 |
| 45321100Z | 1/2"  | 100   | 1.40 | 45342200Z | 1,1/4"  | 200   | 4.90 | 45389300Z | 3"  | 300   | 20.70 |
| 45321120Z | 1/2"  | 120   | 1.45 | 45342250Z | 1,1/4"  | 250   | 5.55 | 45314100Z | 4"  | 100   | 17.85 |
| 45321150Z | 1/2"  | 150   | 1.85 | 45342300Z | 1,1/4"  | 300   | 6.15 | 45314120Z | 4"  | 120   | 18.85 |
| 45321180Z | 1/2"  | 180   | 2.20 | 45348060Z | 1,1/2"  | 60  | 2.60 | 45314150Z | 4"  | 150   | 21.00 |
| 45321200Z | 1/2"  | 200   | 2.25 | 45348080Z | 1,1/2"  | 80  | 2.65 | 45314180Z | 4"  | 180   | 23.15 |
| 45321250Z | 1/2"  | 250   | 2.60 | 45348100Z | 1,1/2"  | 100   | 3.00 | 45314200Z | 4"  | 200   | 26.05 |
| 45321300Z | 1/2"  | 300   | 3.00 | 45348120Z | 1,1/2"  | 120   | 3.25 | 45314250Z | 4"  | 250   | 28.45 |
| 45327040Z | 3/4"  | 40  | 1.05 | 45348150Z | 1,1/2"  | 150   | 3.90 | 45314300Z | 4"  | 300   | 34.60 |

# PIJPNIPPELS - STAAL

## 23-Pijpnippel male - verzinkt



DIN 2982 - BSPT male

| MALF     |  | L<br>mm | €    | MALF     |  | L<br>mm | €    | MALF     |  | L<br>mm | €     |
|----------|---|---------|------|----------|---|---------|------|----------|---|---------|-------|
| 45311060 | 1/8"  | 60      | 2.65 | 45327040 | 3/4"  | 40      | 1.85 | 45348180 | 1,1/2"  | 180     | 5.25  |
| 45311080 | 1/8"  | 80      | 3.10 | 45327060 | 3/4"  | 60      | 1.40 | 45348200 | 1,1/2"  | 200     | 5.80  |
| 45313040 | 1/4"  | 40      | 1.95 | 45327080 | 3/4"  | 80      | 1.50 | 45348250 | 1,1/2"  | 250     | 7.25  |
| 45313060 | 1/4"  | 60      | 2.30 | 45327100 | 3/4"  | 100     | 1.65 | 45348300 | 1,1/2"  | 300     | 8.45  |
| 45313080 | 1/4"  | 80      | 2.60 | 45327120 | 3/4"  | 120     | 1.95 | 45360080 | 2"  | 80      | 4.75  |
| 45313100 | 1/4"  | 100     | 3.00 | 45327150 | 3/4"  | 150     | 2.25 | 45360100 | 2"  | 100     | 5.25  |
| 45313120 | 1/4"  | 120     | 3.45 | 45327180 | 3/4"  | 180     | 2.65 | 45360120 | 2"  | 120     | 5.55  |
| 45313150 | 1/4"  | 150     | 4.05 | 45327200 | 3/4"  | 200     | 2.95 | 45360150 | 2"  | 150     | 6.25  |
| 45313180 | 1/4"  | 180     | 4.75 | 45327250 | 3/4"  | 250     | 3.35 | 45360180 | 2"  | 180     | 7.25  |
| 45313200 | 1/4"  | 200     | 5.55 | 45327300 | 3/4"  | 300     | 4.40 | 45360200 | 2"  | 200     | 8.20  |
| 45313250 | 1/4"  | 250     | 6.35 | 45332040 | 1"  | 40      | 1.65 | 45360250 | 2"  | 250     | 10.05 |
| 45313300 | 1/4"  | 300     | 6.90 | 45332060 | 1"  | 60      | 1.75 | 45360300 | 2"  | 300     | 11.70 |
| 45317030 | 3/8"  | 30      | 1.85 | 45332080 | 1"  | 80      | 1.95 | 45376100 | 2,1/2"  | 100     | 9.50  |
| 45317040 | 3/8"  | 40      | 1.85 | 45332100 | 1"  | 100     | 2.30 | 45376120 | 2,1/2"  | 120     | 9.95  |
| 45317060 | 3/8"  | 60      | 1.95 | 45332120 | 1"  | 120     | 2.40 | 45376150 | 2,1/2"  | 150     | 11.70 |
| 45317080 | 3/8"  | 80      | 2.15 | 45332150 | 1"  | 150     | 2.75 | 45376180 | 2,1/2"  | 180     | 12.60 |
| 45317100 | 3/8"  | 100     | 2.30 | 45332180 | 1"  | 180     | 3.55 | 45376200 | 2,1/2"  | 200     | 13.90 |
| 45317120 | 3/8"  | 120     | 2.60 | 45332200 | 1"  | 200     | 4.00 | 45376250 | 2,1/2"  | 250     | 16.90 |
| 45317150 | 3/8"  | 150     | 3.10 | 45332250 | 1"  | 250     | 4.75 | 45376300 | 2,1/2"  | 300     | 19.30 |
| 45317180 | 3/8"  | 180     | 3.65 | 45332300 | 1"  | 300     | 5.70 | 45389100 | 3"  | 100     | 12.50 |
| 45317200 | 3/8"  | 200     | 4.40 | 45342060 | 1,1/4"  | 60      | 2.35 | 45389120 | 3"  | 120     | 13.50 |
| 45317250 | 3/8"  | 250     | 5.30 | 45342080 | 1,1/4"  | 80      | 2.40 | 45389150 | 3"  | 150     | 14.65 |
| 45317300 | 3/8"  | 300     | 6.70 | 45342100 | 1,1/4"  | 100     | 2.60 | 45389180 | 3"  | 180     | 16.40 |
| 45321030 | 1/2"  | 30      | 1.95 | 45342120 | 1,1/4"  | 120     | 2.75 | 45389200 | 3"  | 200     | 18.40 |
| 45321040 | 1/2"  | 40      | 1.00 | 45342150 | 1,1/4"  | 150     | 3.55 | 45389250 | 3"  | 250     | 21.85 |
| 45321060 | 1/2"  | 60      | 1.30 | 45342180 | 1,1/4"  | 180     | 4.40 | 45389300 | 3"  | 300     | 24.85 |
| 45321080 | 1/2"  | 80      | 1.40 | 45342200 | 1,1/4"  | 200     | 4.90 | 45314100 | 4"  | 100     | 18.60 |
| 45321100 | 1/2"  | 100     | 1.45 | 45342250 | 1,1/4"  | 250     | 6.20 | 45314120 | 4"  | 120     | 20.90 |
| 45321120 | 1/2"  | 120     | 1.65 | 45342300 | 1,1/4"  | 300     | 6.95 | 45314150 | 4"  | 150     | 23.85 |
| 45321150 | 1/2"  | 150     | 1.95 | 45348060 | 1,1/2"  | 60      | 2.65 | 45314180 | 4"  | 180     | 26.05 |
| 45321180 | 1/2"  | 180     | 2.40 | 45348080 | 1,1/2"  | 80      | 2.90 | 45314200 | 4"  | 200     | 28.35 |
| 45321200 | 1/2"  | 200     | 2.65 | 45348100 | 1,1/2"  | 100     | 3.10 | 45314250 | 4"  | 250     | 30.75 |
| 45321250 | 1/2"  | 250     | 3.10 | 45348120 | 1,1/2"  | 120     | 3.40 | 45314300 | 4"  | 300     | 37.30 |
| 45321300 | 1/2"  | 300     | 3.55 | 45348150 | 1,1/2"  | 150     | 4.30 |          |   |         |       |

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# LASBOCHTEN EN LASSOKKEN

Materiaal: Normaal wandig staal 37.0.S (naadloos)  
 Kwaliteitscontrole: T.U.V. Quality systems. Fabricage volgens DIN.  
 Oppervlaktebehandeling: Zwart



Barstdruk: 80 bar  
 Werkdruk: 30 bar (bij +20°C)

## Lasbocht 90°



Zwart DIN 2605 (Staal 37.0.S)

| MALZ      |        | OD mm |     | €     |
|-----------|--------|-------|-----|-------|
| 45192100Z | 1/2"   | 21,3  | 2,0 | 2.50  |
| 45192700Z | 3/4"   | 26,9  | 2,3 | 2.55  |
| 45193200Z | 1"     | 33,7  | 2,6 | 2.95  |
| 45194200Z | 1.1/4" | 42,4  | 2,6 | 3.45  |
| 45194800Z | 1.1/2" | 48,3  | 2,6 | 4.15  |
| 45196000Z | 2"     | 60,3  | 2,9 | 6.70  |
| 45197600Z | 2.1/2" | 76,1  | 2,9 | 9.20  |
| 45198600Z | 3"     | 88,9  | 3,2 | 13.50 |
| 45198700Z | 101    | 101,6 | 3,6 | 21.85 |
| 45198900Z | 108    | 108,0 | 3,6 | 22.70 |
| 45191140Z | 4"     | 114,3 | 3,6 | 23.85 |

## Lasbocht 45°



Zwart DIN 2605 (Staal 37.0.S)

| MALZ      |        | OD mm |     | €     |
|-----------|--------|-------|-----|-------|
| 46192100Z | 1/2"   | 21,3  | 2,0 | 3.85  |
| 46192700Z | 3/4"   | 26,9  | 2,3 | 3.85  |
| 46193200Z | 1"     | 33,7  | 2,6 | 3.95  |
| 46194200Z | 1.1/4" | 42,4  | 2,6 | 4.65  |
| 46194800Z | 1.1/2" | 48,3  | 2,6 | 5.85  |
| 46194900Z | 51     | 51,0  | 2,6 | 7.70  |
| 46196000Z | 2"     | 60,3  | 2,9 | 8.90  |
| 46197600Z | 2.1/2" | 76,1  | 2,9 | 13.00 |
| 46198600Z | 3"     | 88,9  | 3,2 | 18.30 |
| 46191140Z | 4"     | 114,3 | 3,6 | 32.10 |

## Lassok egaal



Female - DIN 2986 (Staal 37.0.S)

| MALZ      |        | OD mm | L mm | €     |
|-----------|--------|-------|------|-------|
| 45161000Z | 1/8"   | 14,7  | 17   | 0.80  |
| 45161300Z | 1/4"   | 18,4  | 25   | 0.80  |
| 45161700Z | 3/8"   | 21,4  | 26   | 0.90  |
| 45162100Z | 1/2"   | 26,8  | 34   | 0.90  |
| 45162700Z | 3/4"   | 32,0  | 36   | 1.40  |
| 45163200Z | 1"     | 39,7  | 43   | 2.15  |
| 45164200Z | 1.1/4" | 48,7  | 48   | 2.75  |
| 45164800Z | 1.1/2" | 55,3  | 48   | 3.40  |
| 45166000Z | 2"     | 66,2  | 56   | 5.05  |
| 45167600Z | 2.1/2" | 82,6  | 65   | 8.75  |
| 45168900Z | 3"     | 95,5  | 71   | 12.95 |
| 45161140Z | 4"     | 122,0 | 83   | 22.05 |

## Gesmede lassok egaal



Female - DIN 2986

| MALF       |        | €      |
|------------|--------|--------|
| MIWRSG-18  | 1/8"   | 2.90   |
| MIWRSG-14  | 1/4"   | 1.55   |
| MIWRSG-38  | 3/8"   | 1.75   |
| MIWRSG-12  | 1/2"   | 1.65   |
| MIWRSG-34  | 3/4"   | 4.35   |
| MIWRSG-1   | 1"     | 3.25   |
| MIWRSG-114 | 1.1/4" | 5.20   |
| MIWRSG-112 | 1.1/2" | 6.75   |
| MIWRSG-2   | 2"     | 10.00  |
| MIWRSG-212 | 2.1/2" | 14.95  |
| MIWRSG-3   | 3"     | 112.20 |
| MIWRSG-4   | 4"     | 38.55  |

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## 1-Bocht 90° male / female



Zwart - BSPT male/BSP female

| 0217     |        | €      |
|----------|--------|--------|
| GF1-14N  | 1/4"   | 5.45   |
| GF1-38N  | 3/8"   | 6.55   |
| GF1-12N  | 1/2"   | 5.85   |
| GF1-34N  | 3/4"   | 10.30  |
| GF1-1N   | 1"     | 13.75  |
| GF1-114N | 1.1/4" | 24.35  |
| GF1-112N | 1.1/2" | 31.45  |
| GF1-2N   | 2"     | 52.05  |
| GF1-212N | 2.1/2" | 154.05 |
| GF1-3N   | 3"     | 147.10 |
| GF1-4N   | 4"     | 267.05 |

Verzinkt - BSPT male/BSP female

| 0217    |        | €      |
|---------|--------|--------|
| GF1-14  | 1/4"   | 6.75   |
| GF1-38  | 3/8"   | 8.30   |
| GF1-12  | 1/2"   | 7.25   |
| GF1-34  | 3/4"   | 12.85  |
| GF1-1   | 1"     | 17.45  |
| GF1-114 | 1.1/4" | 30.30  |
| GF1-112 | 1.1/2" | 40.05  |
| GF1-2   | 2"     | 64.55  |
| GF1-212 | 2.1/2" | 145.25 |
| GF1-3   | 3"     | 186.35 |
| GF1-4   | 4"     | 458.85 |

## 2-Bocht 90° female



Zwart - BSP female

| 0217     |        | €      |
|----------|--------|--------|
| GF2-14N  | 1/4"   | 8.00   |
| GF2-38N  | 3/8"   | 8.55   |
| GF2-12N  | 1/2"   | 6.70   |
| GF2-34N  | 3/4"   | 10.45  |
| GF2-1N   | 1"     | 13.75  |
| GF2-114N | 1.1/4" | 24.40  |
| GF2-112N | 1.1/2" | 30.20  |
| GF2-2N   | 2"     | 41.60  |
| GF2-212N | 2.1/2" | 156.60 |
| GF2-3N   | 3"     | 145.10 |
| GF2-4N   | 4"     | 274.90 |

Verzinkt - BSP female

| 0217    |        | €      |
|---------|--------|--------|
| GF2-14  | 1/4"   | 9.75   |
| GF2-38  | 3/8"   | 8.30   |
| GF2-12  | 1/2"   | 8.40   |
| GF2-34  | 3/4"   | 12.90  |
| GF2-1   | 1"     | 17.45  |
| GF2-114 | 1.1/4" | 30.40  |
| GF2-112 | 1.1/2" | 37.30  |
| GF2-2   | 2"     | 51.80  |
| GF2-212 | 2.1/2" | 146.05 |
| GF2-3   | 3"     | 183.60 |
| GF2-4   | 4"     | 348.20 |

## 2a-Korte bocht 90° female



Zwart - BSP female

| 0217      |        | €      |
|-----------|--------|--------|
| GF2A-14N  | 1/4"   | 8.75   |
| GF2A-38N  | 3/8"   | 7.35   |
| GF2A-12N  | 1/2"   | 6.85   |
| GF2A-34N  | 3/4"   | 9.20   |
| GF2A-1N   | 1"     | 14.50  |
| GF2A-114N | 1.1/4" | 21.50  |
| GF2A-112N | 1.1/2" | 29.65  |
| GF2A-2N   | 2"     | 46.75  |
| GF2A-212N | 2.1/2" | 87.90  |
| GF2A-3N   | 3"     | 151.70 |
| GF2A-4N   | 4"     | 320.35 |

Verzinkt - BSP female

| 0217     |        | €      |
|----------|--------|--------|
| GF2A-14  | 1/4"   | 10.85  |
| GF2A-38  | 3/8"   | 8.95   |
| GF2A-12  | 1/2"   | 7.60   |
| GF2A-34  | 3/4"   | 12.05  |
| GF2A-1   | 1"     | 18.55  |
| GF2A-114 | 1.1/4" | 28.05  |
| GF2A-112 | 1.1/2" | 37.65  |
| GF2A-2   | 2"     | 60.55  |
| GF2A-212 | 2.1/2" | 111.00 |
| GF2A-3   | 3"     | 192.10 |
| GF2A-4   | 4"     | 405.80 |

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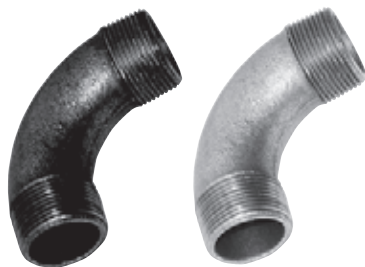
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## 3-Bocht 90° male



Zwart - BSPT male

| 0217     | BSPT   | €     |
|----------|--------|-------|
| GF3-12N  | 1/2"   | 10.30 |
| GF3-34N  | 3/4"   | 11.45 |
| GF3-1N   | 1"     | 16.50 |
| GF3-114N | 1.1/4" | 42.10 |
| GF3-112N | 1.1/2" | 44.20 |
| GF3-2N   | 2"     | 59.60 |

Verzinkt - BSPT male

| 0217    | BSPT   | €      |
|---------|--------|--------|
| GF3-12  | 1/2"   | 12.75  |
| GF3-34  | 3/4"   | 14.35  |
| GF3-1   | 1"     | 20.50  |
| GF3-114 | 1.1/4" | 53.40  |
| GF3-112 | 1.1/2" | 75.70  |
| GF3-2   | 2"     | 102.25 |

## 60-U-bocht female



Zwart - BSP female

| 0217      | BSPP   | €      |
|-----------|--------|--------|
| GF60-12N  | 1/2"   | 28.40  |
| GF60-34N  | 3/4"   | 43.35  |
| GF60-1N   | 1"     | 55.20  |
| GF60-114N | 1.1/4" | 76.10  |
| GF60-112N | 1.1/2" | 90.00  |
| GF60-2N   | 2"     | 137.45 |

Verzinkt - BSP female

| 0217     | BSPP   | €      |
|----------|--------|--------|
| GF60-12  | 1/2"   | 35.75  |
| GF60-34  | 3/4"   | 54.80  |
| GF60-1   | 1"     | 51.40  |
| GF60-114 | 1.1/4" | 96.15  |
| GF60-112 | 1.1/2" | 113.65 |
| GF60-2   | 2"     | 173.70 |

## 40-Bocht 45° male / female



Zwart - BSPT male/BSP female

| 0217      |        | €     |
|-----------|--------|-------|
| GF40-12N  | 1/2"   | 6.70  |
| GF40-34N  | 3/4"   | 8.95  |
| GF40-1N   | 1"     | 12.85 |
| GF40-114N | 1.1/4" | 22.15 |
| GF40-112N | 1.1/2" | 26.60 |
| GF40-2N   | 2"     | 41.90 |

Verzinkt - BSPT male/BSP female

| 0217     |        | €     |
|----------|--------|-------|
| GF40-12  | 1/2"   | 8.40  |
| GF40-34  | 3/4"   | 11.20 |
| GF40-1   | 1"     | 15.85 |
| GF40-114 | 1.1/4" | 27.65 |
| GF40-112 | 1.1/2" | 32.95 |
| GF40-2   | 2"     | 52.15 |

## 90-Verloopknie 90° female



Zwart - BSP female

| 0217        | BSPP A | BSPP B | €     |
|-------------|--------|--------|-------|
| GF90-38-14N | 3/8"   | 1/4"   | 7.60  |
| GF90-12-14N | 1/2"   | 1/4"   | 9.15  |
| GF90-12-38N | 1/2"   | 3/8"   | 4.00  |
| GF90-34-12N | 3/4"   | 1/2"   | 4.75  |
| GF90-10-12N | 1"     | 1/2"   | 6.35  |
| GF90-1-34N  | 1"     | 3/4"   | 6.90  |
| GF90-114-1N | 1.1/4" | 1"     | 11.10 |



Verzinkt - BSP female

| 0217       | BSPP A | BSPP B | €     |
|------------|--------|--------|-------|
| GF90-12-14 | 1/2"   | 1/4"   | 11.45 |
| GF90-12-38 | 1/2"   | 3/8"   | 6.70  |
| GF90-34-12 | 3/4"   | 1/2"   | 13.80 |
| GF90-1-12  | 1"     | 1/2"   | 8.20  |
| GF90-1-34  | 1"     | 3/4"   | 8.60  |
| GF90-114-1 | 1.1/4" | 1"     | 13.90 |

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## 90-Knie 90° female



Zwart - BSP female

| 0217      | BSP    | €      |
|-----------|--------|--------|
| GF90-18N  | 1/8"   | 4.35   |
| GF90-14N  | 1/4"   | 3.65   |
| GF90-38N  | 3/8"   | 2.95   |
| GF90-12N  | 1/2"   | 2.00   |
| GF90-34N  | 3/4"   | 3.20   |
| GF90-1N   | 1"     | 4.95   |
| GF90-114N | 1.1/4" | 9.35   |
| GF90-112N | 1.1/2" | 15.05  |
| GF90-2N   | 2"     | 17.45  |
| GF90-212N | 2.1/2" | 51.35  |
| GF90-3N   | 3"     | 71.45  |
| GF90-4N   | 4"     | 126.05 |

Verzinkt - BSP female

| 0217     | BSP    | €     |
|----------|--------|-------|
| GF90-18  | 1/8"   | 7.25  |
| GF90-14  | 1/4"   | 4.35  |
| GF90-38  | 3/8"   | 3.85  |
| GF90-12  | 1/2"   | 2.75  |
| GF90-34  | 3/4"   | 4.20  |
| GF90-1   | 1"     | 6.35  |
| GF90-114 | 1.1/4" | 11.70 |
| GF90-112 | 1.1/2" | 18.90 |
| GF90-2   | 2"     | 22.15 |
| GF90-212 | 2.1/2" | 65.00 |
| GF90-3   | 3"     | 88.95 |

## 92-Knie 90° male / female



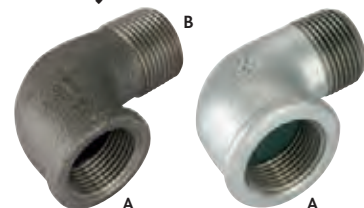
Zwart - BSPT male/BSP female

| 0217      | BSPT   | €      |
|-----------|--------|--------|
| GF92-18N  | 1/8"   | 5.05   |
| GF92-14N  | 1/4"   | 3.80   |
| GF92-38N  | 3/8"   | 3.65   |
| GF92-12N  | 1/2"   | 2.50   |
| GF92-34N  | 3/4"   | 3.95   |
| GF92-1N   | 1"     | 6.25   |
| GF92-114N | 1.1/4" | 11.15  |
| GF92-112N | 1.1/2" | 16.35  |
| GF92-2N   | 2"     | 21.30  |
| GF92-212N | 2.1/2" | 53.90  |
| GF92-3N   | 3"     | 70.90  |
| GF92-4N   | 4"     | 119.20 |

Verzinkt - BSPT male/BSP female

| 0217     | BSPT   | €     |
|----------|--------|-------|
| GF92-18  | 1/8"   | 6.45  |
| GF92-14  | 1/4"   | 4.75  |
| GF92-38  | 3/8"   | 4.35  |
| GF92-12  | 1/2"   | 3.10  |
| GF92-34  | 3/4"   | 4.85  |
| GF92-1   | 1"     | 8.20  |
| GF92-114 | 1.1/4" | 13.70 |
| GF92-112 | 1.1/2" | 20.50 |
| GF92-2   | 2"     | 27.00 |
| GF92-212 | 2.1/2" | 66.95 |
| GF92-3   | 3"     | 88.30 |

## 92-Verloopknie 90° male / female



Zwart - BSPT male/BSP female

| 0217        | BSPT | BSP  | €     |
|-------------|------|------|-------|
| GF92-34-12N | 3/4" | 1/2" | 13.30 |
| GF92-1-34N  | 1"   | 3/4" | 13.00 |

Verzinkt - BSPT male/BSP female

| 0217       | BSPT | BSP  | €     |
|------------|------|------|-------|
| GF92-34-12 | 3/4" | 1/2" | 16.70 |
| GF92-1-34  | 1"   | 3/4" | 21.80 |

## 96-Driedelige knie female

CONISCHE DICHTING



Zwart - BSP female

| 0217      | BSP    | €     |
|-----------|--------|-------|
| GF96-12N  | 1/2"   | 14.25 |
| GF96-34N  | 3/4"   | 16.45 |
| GF96-1N   | 1"     | 23.75 |
| GF96-114N | 1.1/4" | 40.05 |
| GF96-112N | 1.1/2" | 47.00 |
| GF96-2N   | 2"     | 79.35 |

Verzinkt - BSP female

| 0217     | BSP    | €      |
|----------|--------|--------|
| GF96-12  | 1/2"   | 18.00  |
| GF96-34  | 3/4"   | 20.75  |
| GF96-1   | 1"     | 29.80  |
| GF96-114 | 1.1/4" | 49.80  |
| GF96-112 | 1.1/2" | 59.45  |
| GF96-2   | 2"     | 100.30 |

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## 98-Driedelige knie male / female

CONISCHE  
DICHTING



Zwart - BSPT male/BSP female

| 0217      |        | €     |
|-----------|--------|-------|
| GF98-12N  | 1/2"   | 14.35 |
| GF98-34N  | 3/4"   | 18.25 |
| GF98-1N   | 1"     | 24.95 |
| GF98-114N | 1.1/4" | 41.50 |
| GF98-112N | 1.1/2" | 51.95 |
| GF98-2N   | 2"     | 84.45 |



Verzinkt - BSPT male/BSP female

| 0217     |        | €      |
|----------|--------|--------|
| GF98-12  | 1/2"   | 18.05  |
| GF98-34  | 3/4"   | 22.90  |
| GF98-1   | 1"     | 31.45  |
| GF98-114 | 1.1/4" | 52.80  |
| GF98-112 | 1.1/2" | 64.55  |
| GF98-2   | 2"     | 106.80 |

## 130-Tee female



Zwart - BSP female

| 0217       |        | €      |
|------------|--------|--------|
| GF130-18N  | 1/8"   | 5.65   |
| GF130-14N  | 1/4"   | 4.95   |
| GF130-38N  | 3/8"   | 4.35   |
| GF130-12N  | 1/2"   | 2.85   |
| GF130-34N  | 3/4"   | 4.95   |
| GF130-1N   | 1"     | 7.15   |
| GF130-114N | 1.1/4" | 12.85  |
| GF130-112N | 1.1/2" | 19.60  |
| GF130-2N   | 2"     | 28.25  |
| GF130-212N | 2.1/2" | 63.70  |
| GF130-3N   | 3"     | 85.15  |
| GF130-4N   | 4"     | 164.00 |

Verzinkt - BSP female

| 0217      |        | €      |
|-----------|--------|--------|
| GF130-14  | 1/4"   | 6.35   |
| GF130-38  | 3/8"   | 5.40   |
| GF130-12  | 1/2"   | 3.65   |
| GF130-34  | 3/4"   | 6.35   |
| GF130-1   | 1"     | 9.15   |
| GF130-114 | 1.1/4" | 15.95  |
| GF130-112 | 1.1/2" | 24.70  |
| GF130-2   | 2"     | 34.70  |
| GF130-212 | 2.1/2" | 79.35  |
| GF130-3   | 3"     | 105.90 |
| GF130-4   | 4"     | 207.55 |

## 130-Verloop tee female



Zwart - BSP female

| 0217           |        |        | €     |
|----------------|--------|--------|-------|
| GF130-38-14N   | 3/8"   | 1/4"   | 12.15 |
| GF130-12-14N   | 1/2"   | 1/4"   | 9.50  |
| GF130-12-38N   | 1/2"   | 3/8"   | 5.70  |
| GF130-12-34N   | 1/2"   | 3/4"   | 6.35  |
| GF130-34-14N   | 3/4"   | 1/4"   | 13.00 |
| GF130-34-38N   | 3/4"   | 3/8"   | 6.80  |
| GF130-34-12N   | 3/4"   | 1/2"   | 5.15  |
| GF130-34-1N    | 3/4"   | 1"     | 10.95 |
| GF130-1-38N    | 1"     | 3/8"   | 15.50 |
| GF130-1-12N    | 1"     | 1/2"   | 6.75  |
| GF130-1-34N    | 1"     | 3/4"   | 7.25  |
| GF130-1-114N   | 1"     | 1.1/4" | 16.80 |
| GF130-1-112N   | 1"     | 1.1/2" | 20.90 |
| GF130-114-12N  | 1.1/4  | 01-Feb | 11.20 |
| GF130-114-34N  | 1.1/4  | 03-Apr | 12.20 |
| GF130-114-1N   | 1.1/4" | 1"     | 13.30 |
| GF130-112-12N  | 1.1/2  | 01-Feb | 15.05 |
| GF130-112-34N  | 1.1/2  | 03-Apr | 22.15 |
| GF130-112-1N   | 1.1/2" | 1"     | 17.70 |
| GF130-112-114N | 1.1/2  | 1.1/4  | 24.05 |
| GF130-112-2N   | 1.1/2" | 2"     | 33.10 |
| GF130-2-12N    | 2"     | 1/2"   | 22.25 |
| GF130-2-34N    | 2"     | 3/4"   | 28.90 |
| GF130-2-1N     | 2"     | 1"     | 22.75 |
| GF130-2-114N   | 2"     | 1.1/4" | 28.90 |
| GF130-2-112N   | 2"     | 1.1/2" | 33.95 |

Verzinkt - BSP female

| 0217          |        |        | €     |
|---------------|--------|--------|-------|
| GF130-38-14   | 3/8"   | 1/4"   | 15.25 |
| GF130-12-14   | 1/2"   | 1/4"   | 12.15 |
| GF130-12-38   | 1/2"   | 3/8"   | 6.95  |
| GF130-12-34   | 1/2"   | 3/4"   | 7.90  |
| GF130-34-14   | 3/4"   | 1/4"   | 16.25 |
| GF130-34-38   | 3/4"   | 3/8"   | 11.45 |
| GF130-34-12   | 3/4"   | 1/2"   | 6.55  |
| GF130-34-1    | 3/4"   | 1"     | 18.15 |
| GF130-1-38    | 1"     | 3/8"   | 19.75 |
| GF130-1-12    | 1"     | 1/2"   | 8.50  |
| GF130-1-34    | 1"     | 3/4"   | 9.15  |
| GF130-1-114   | 1"     | 1.1/4" | 21.15 |
| GF130-1-112   | 1"     | 1.1/2" | 26.55 |
| GF130-114-12  | 1.1/4" | 1/2"   | 14.25 |
| GF130-114-34  | 1.1/4" | 3/4"   | 14.95 |
| GF130-114-1   | 1.1/4" | 1"     | 16.80 |
| GF130-112-12  | 1.1/2" | 1/2"   | 19.05 |
| GF130-112-34  | 1.1/2" | 3/4"   | 20.65 |
| GF130-112-1   | 1.1/2" | 1"     | 22.25 |
| GF130-112-114 | 1.1/2" | 1.1/4" | 30.40 |
| GF130-112-2   | 1.1/2" | 2"     | 41.80 |
| GF130-2-12    | 2"     | 1/2"   | 28.15 |
| GF130-2-34    | 2"     | 3/4"   | 36.65 |
| GF130-2-1     | 2"     | 1"     | 28.40 |
| GF130-2-114   | 2"     | 1.1/4" | 36.65 |
| GF130-2-112   | 2"     | 1.1/2" | 42.30 |

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## 130-Verloop tee female



Zwart - BSP female

| 0217             | BSPP<br>A | BSPP<br>B | BSPP<br>C | €      |
|------------------|-----------|-----------|-----------|--------|
| GF130-12-38-38N  | 1/2"      | 3/8"      | 3/8"      | 8.85   |
| GF130-34-12-12N  | 3/4"      | 1/2"      | 1/2"      | 5.65   |
| GF130-34-12-34N  | 3/4"      | 3/4"      | 1/2"      | 6.55   |
| GF130-1-12-1N    | 1"        | 1"        | 1/2"      | 8.85   |
| GF130-1-34-12N   | 1"        | 1/2"      | 3/4"      | 8.30   |
| GF130-1-34-34N   | 1"        | 3/4"      | 3/4"      | 8.50   |
| GF130-1-34-1N    | 1"        | 1"        | 3/4"      | 9.65   |
| GF130-114-12114N | 1.1/4"    | 1.1/4"    | 01-Feb    | 17.40  |
| GF130-114-1-12N  | 1.1/4"    | 1/2"      | 1"        | 13.20  |
| GF130-114-1-34N  | 1.1/4"    | 3/4"      | 1"        | 15.50  |
| GF130-114-1-1N   | 1.1/4"    | 1"        | 1"        | 15.05  |
| GF130-114-1-114N | 1.1/4"    | 1.1/4"    | 1"        | 16.80  |
| GF130-112-12112N | 1.1/2"    | 1.1/2"    | 01-Feb    | 33.80  |
| GF130-112-1-1N   | 1.1/2"    | 1"        | 1"        | 20.40  |
| GF130-112-1-112N | 1.1/2"    | 1.1/2"    | 1"        | 28.25  |
| GF130-112-11412N | 1.1/2"    | 1/2"      | 1.1/4"    | 17.40  |
| GF130-112-114-1N | 1.1/2"    | 1"        | 1.1/4"    | 20.05  |
| GF130-112114114N | 1.1/2"    | 1.1/4"    | 1.1/4"    | 24.55  |
| GF130-2-12-2N    | 2"        | 2"        | 1/2"      | 75.50  |
| GF130-2-34-2N    | 2"        | 2"        | 3/4"      | 47.95  |
| GF130-2-1-2N     | 2"        | 2"        | 1"        | 46.25  |
| GF130-2-112-1N   | 2"        | 1"        | 1.1/2"    | 31.90  |
| GF130-2-112-114N | 2"        | 1.1/4"    | 1.1/2"    | 31.75  |
| GF130-2-112-112N | 2"        | 1.1/2"    | 1.1/2"    | 35.10  |
| GF130-2-112-2N   | 2"        | 2"        | 1.1/2"    | 137.45 |
| GF130-212112212N | 2.1/2"    | 2.1/2"    | 1.1/2"    | 160.60 |
| GF130-212-2-2N   | 2.1/2"    | 2"        | 2"        | 104.30 |



Verzinkt - BSP female

| 0217             | BSPP<br>A | BSPP<br>B | BSPP<br>C | €      |
|------------------|-----------|-----------|-----------|--------|
| GF130-12-38-38   | 1/2"      | 3/8"      | 3/8"      | 11.10  |
| GF130-34-12-12   | 3/4"      | 1/2"      | 1/2"      | 6.95   |
| GF130-34-12-34   | 3/4"      | 3/4"      | 1/2"      | 8.30   |
| GF130-1-12-1     | 1"        | 1"        | 1/2"      | 11.15  |
| GF130-1-34-12    | 1"        | 1/2"      | 3/4"      | 14.15  |
| GF130-1-34-34    | 1"        | 3/4"      | 3/4"      | 14.35  |
| GF130-1-34-1     | 1"        | 1"        | 3/4"      | 16.55  |
| GF130-114-12-114 | 1.1/4"    | 1.1/4"    | 1/2"      | 29.55  |
| GF130-114-1-12   | 1.1/4"    | 1/2"      | 1"        | 16.50  |
| GF130-114-1-34   | 1.1/4"    | 3/4"      | 1"        | 19.30  |
| GF130-114-1-1    | 1.1/4"    | 1"        | 1"        | 18.85  |
| GF130-114-1-114  | 1.1/4"    | 1.1/4"    | 1"        | 21.35  |
| GF130-112-12-112 | 1.1/2"    | 1.1/2"    | 1/2"      | 43.50  |
| GF130-112-1-1    | 1.1/2"    | 1"        | 1"        | 34.80  |
| GF130-112-1-112  | 1.1/2"    | 1.1/2"    | 1"        | 35.60  |
| GF130-112-11412  | 1.1/2"    | 1/2"      | 1.1/4"    | 22.15  |
| GF130-112-114-1  | 1.1/2"    | 1"        | 1.1/4"    | 25.20  |
| GF130-112-114114 | 1.1/2"    | 1.1/4"    | 1.1/4"    | 31.30  |
| GF130-2-12-2     | 2"        | 2"        | 1/2"      | 94.90  |
| GF130-2-34-2     | 2"        | 2"        | 3/4"      | 60.90  |
| GF130-2-1-2      | 2"        | 2"        | 1"        | 43.15  |
| GF130-2-112-1    | 2"        | 1"        | 1.1/2"    | 40.25  |
| GF130-2-112-114  | 2"        | 1.1/4"    | 1.1/2"    | 39.85  |
| GF130-2-112-112  | 2"        | 1.1/2"    | 1.1/2"    | 44.15  |
| GF130-2-112-2    | 2"        | 2"        | 1.1/2"    | 173.85 |
| GF130-212-112212 | 2.1/2"    | 2.1/2"    | 1.1/2"    | 199.40 |
| GF130-212-2-2    | 2.1/2"    | 2"        | 2"        | 131.95 |
| GF130-3-2-2      | 3"        | 2"        | 2"        | 161.80 |

## 132-Stroom tee female



Zwart - BSP female

| 0217       | BSPP   | €      |
|------------|--------|--------|
| GF132-12N  | 1/2"   | 20.90  |
| GF132-34N  | 3/4"   | 22.70  |
| GF132-1N   | 1"     | 36.45  |
| GF132-114N | 1.1/4" | 62.70  |
| GF132-112N | 1.1/2" | 79.00  |
| GF132-2N   | 2"     | 101.00 |

Verzinkt - BSP female

| 0217      | BSPP   | €      |
|-----------|--------|--------|
| GF132-12  | 1/2"   | 26.00  |
| GF132-34  | 3/4"   | 28.65  |
| GF132-1   | 1"     | 45.80  |
| GF132-114 | 1.1/4" | 79.00  |
| GF132-112 | 1.1/2" | 100.00 |
| GF132-2   | 2"     | 127.70 |

Voor galvaniseerde heavy duty slangklemmen zie hoofdstuk 13



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## 180-Kruis female



Zwart - BSP female

| 0217       | BSP    | €      |
|------------|--------|--------|
| GF180-12N  | 1/2"   | 10.15  |
| GF180-34N  | 3/4"   | 20.90  |
| GF180-1N   | 1"     | 18.85  |
| GF180-114N | 1.1/4" | 24.95  |
| GF180-112N | 1.1/2" | 33.10  |
| GF180-2N   | 2"     | 49.30  |
| GF180-3N   | 3"     | 174.25 |

Verzinkt - BSP female

| 0217      | BSP    | €      |
|-----------|--------|--------|
| GF180-12  | 1/2"   | 12.55  |
| GF180-34  | 3/4"   | 18.85  |
| GF180-1   | 1"     | 23.30  |
| GF180-114 | 1.1/4" | 31.30  |
| GF180-112 | 1.1/2" | 41.80  |
| GF180-2   | 2"     | 62.30  |
| GF180-3   | 3"     | 220.65 |

## 240-Verloopsok female



Zwart - BSP female

| 0217           | BSP    | BSP    | €      |
|----------------|--------|--------|--------|
| GF240-14-18N*  | 1/4"   | 1/8"   | 4.75   |
| GF240-38-14N*  | 3/8"   | 1/4"   | 4.05   |
| GF240-12-14N   | 1/2"   | 1/4"   | 4.30   |
| GF240-12-38N   | 1/2"   | 3/8"   | 3.80   |
| GF240-34-38N   | 3/4"   | 3/8"   | 4.95   |
| GF240-34-12N   | 3/4"   | 1/2"   | 4.10   |
| GF240-1-12N    | 1"     | 1/2"   | 5.30   |
| GF240-1-34N    | 1"     | 3/4"   | 4.80   |
| GF240-114-12N  | 1.1/4" | 1/2"   | 9.85   |
| GF240-114-34N  | 1.1/4" | 3/4"   | 8.85   |
| GF240-114-1N   | 1.1/4" | 1"     | 8.75   |
| GF240-112-12N  | 1.1/2" | 1/2"   | 15.80  |
| GF240-112-34N  | 1.1/2" | 3/4"   | 13.75  |
| GF240-112-1N   | 1.1/2" | 1"     | 10.60  |
| GF240-112-114N | 1.1/2" | 1.1/4" | 11.60  |
| GF240-2-34N    | 2"     | 3/4"   | 30.70  |
| GF240-2-1N     | 2"     | 1"     | 20.50  |
| GF240-2-114N   | 2"     | 1.1/4" | 18.45  |
| GF240-2-112N   | 2"     | 1.1/2" | 17.40  |
| GF240-212-112N | 2.1/2" | 1.1/2" | 74.80  |
| GF240-212-2N   | 2.1/2" | 2"     | 47.65  |
| GF240-3-112N   | 3"     | 1.1/2" | 68.50  |
| GF240-3-2N     | 3"     | 2"     | 73.95  |
| GF240-3-212N   | 3"     | 2.1/2" | 114.30 |
| GF240-4-2N     | 4"     | 2"     | 127.70 |
| GF240-4-212N   | 4"     | 2.1/2" | 181.25 |
| GF240-4-3N     | 4"     | 3"     | 136.90 |

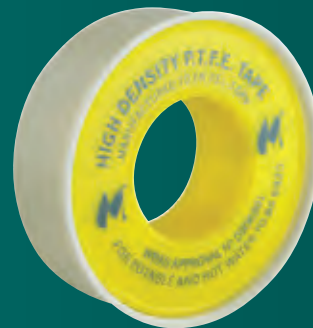


Verzinkt - BSP female

| 0217          | BSP    | BSP    | €      |
|---------------|--------|--------|--------|
| GF240-14-18*  | 1/4"   | 1/8"   | 5.85   |
| GF240-38-14*  | 3/8"   | 1/4"   | 5.25   |
| GF240-12-14   | 1/2"   | 1/4"   | 5.45   |
| GF240-12-38   | 1/2"   | 3/8"   | 4.50   |
| GF240-34-38   | 3/4"   | 3/8"   | 6.25   |
| GF240-34-12   | 3/4"   | 1/2"   | 5.30   |
| GF240-1-12    | 1"     | 1/2"   | 6.70   |
| GF240-1-34    | 1"     | 3/4"   | 6.10   |
| GF240-114-12  | 1.1/4" | 1/2"   | 12.75  |
| GF240-114-34  | 1.1/4" | 3/4"   | 11.20  |
| GF240-114-1   | 1.1/4" | 1"     | 10.95  |
| GF240-112-12  | 1.1/2" | 1/2"   | 26.80  |
| GF240-112-34  | 1.1/2" | 3/4"   | 17.45  |
| GF240-112-1   | 1.1/2" | 1"     | 13.30  |
| GF240-112-114 | 1.1/2" | 1.1/4" | 14.55  |
| GF240-2-34    | 2"     | 3/4"   | 28.40  |
| GF240-2-1     | 2"     | 1"     | 26.20  |
| GF240-2-114   | 2"     | 1.1/4" | 23.10  |
| GF240-2-112   | 2"     | 1.1/2" | 21.90  |
| GF240-212-112 | 2.1/2" | 1.1/2" | 94.65  |
| GF240-212-2   | 2.1/2" | 2"     | 59.25  |
| GF240-3-112   | 3"     | 1.1/2" | 86.65  |
| GF240-3-2     | 3"     | 2"     | 93.35  |
| GF240-3-212   | 3"     | 2.1/2" | 137.00 |
| GF240-4-2     | 4"     | 2"     | 219.25 |
| GF240-4-212   | 4"     | 2.1/2" | 229.20 |
| GF240-4-3     | 4"     | 3"     | 235.15 |

\* Deze artikelen zijn van gegalvaniseerd staal, en daardoor niet bruikbaar in drinkwater installaties.

## Voor schroefdraadichting en -borging zie hoofdstuk 10



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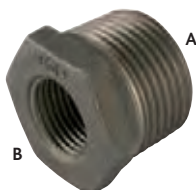
Malleabele fittingen & staal

Ringleidingssystemen

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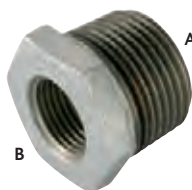
Compressoren

## 241-Verloopering male / female



Zwart - BSPT male/BSP female

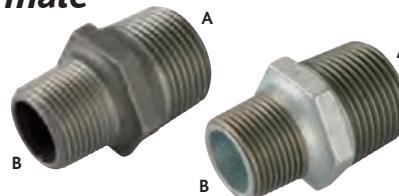
| 0217           | BSPT<br>A | BSPP<br>B | €     |
|----------------|-----------|-----------|-------|
| GF241-14-18N * | 1/4"      | 1/8"      | 3.75  |
| GF241-38-18N * | 3/8"      | 1/8"      | 3.75  |
| GF241-38-14N * | 3/8"      | 1/4"      | 2.75  |
| GF241-12-18N   | 1/2"      | 1/8"      | 3.50  |
| GF241-12-14N   | 1/2"      | 1/4"      | 2.10  |
| GF241-12-38N   | 1/2"      | 3/8"      | 2.00  |
| GF241-34-14N   | 3/4"      | 1/4"      | 3.95  |
| GF241-34-38N   | 3/4"      | 3/8"      | 3.05  |
| GF241-34-12N   | 3/4"      | 1/2"      | 2.15  |
| GF241-1-14N    | 1"        | 1/4"      | 5.70  |
| GF241-1-38N    | 1"        | 3/8"      | 4.95  |
| GF241-1-12N    | 1"        | 1/2"      | 3.10  |
| GF241-1-34N    | 1"        | 3/4"      | 2.85  |
| GF241-114-38N  | 1.1/4"    | 3/8"      | 12.05 |
| GF241-114-12N  | 1.1/4"    | 1/2"      | 5.70  |
| GF241-114-34N  | 1.1/4"    | 3/4"      | 4.85  |
| GF241-114-1N   | 1.1/4"    | 1"        | 3.75  |
| GF241-112-38N  | 1.1/2"    | 3/8"      | 15.05 |
| GF241-112-12N  | 1.1/2"    | 1/2"      | 7.00  |
| GF241-112-34N  | 1.1/2"    | 3/4"      | 8.20  |
| GF241-112-1N   | 1.1/2"    | 1"        | 5.30  |
| GF241-112-114N | 1.1/2"    | 1.1/4"    | 5.45  |
| GF241-2-12N    | 2"        | 1/2"      | 14.35 |
| GF241-2-34N    | 2"        | 3/4"      | 14.25 |
| GF241-2-1N     | 2"        | 1"        | 11.70 |
| GF241-2-114N   | 2"        | 1.1/4"    | 11.10 |
| GF241-2-112N   | 2"        | 1.1/2"    | 9.95  |
| GF241-212-1N   | 2.1/2"    | 1"        | 31.55 |
| GF241-212-114N | 2.1/2"    | 1.1/4"    | 36.20 |
| GF241-212-112N | 2.1/2"    | 1.1/2"    | 25.40 |
| GF241-212-2N   | 2.1/2"    | 2"        | 19.15 |
| GF241-3-1N     | 3"        | 1"        | 48.80 |
| GF241-3-114N   | 3"        | 1.1/4"    | 48.80 |
| GF241-3-112N   | 3"        | 1.1/2"    | 33.55 |
| GF241-3-2N     | 3"        | 2"        | 25.15 |
| GF241-3-212N   | 3"        | 2.1/2"    | 28.40 |



Verzinkt - BSPT male/BSP female

| 0217          | BSPT<br>A | BSPP<br>B | €     |
|---------------|-----------|-----------|-------|
| GF241-14-18 * | 1/4"      | 1/8"      | 4.50  |
| GF241-38-18 * | 3/8"      | 1/8"      | 4.50  |
| GF241-38-14 * | 3/8"      | 1/4"      | 3.50  |
| GF241-12-18   | 1/2"      | 1/8"      | 4.30  |
| GF241-12-14   | 1/2"      | 1/4"      | 2.75  |
| GF241-12-38   | 1/2"      | 3/8"      | 2.75  |
| GF241-34-14   | 3/4"      | 1/4"      | 4.85  |
| GF241-34-38   | 3/4"      | 3/8"      | 3.75  |
| GF241-34-12   | 3/4"      | 1/2"      | 2.85  |
| GF241-1-14    | 1"        | 1/4"      | 7.00  |
| GF241-1-38    | 1"        | 3/8"      | 6.10  |
| GF241-1-12    | 1"        | 1/2"      | 4.05  |
| GF241-1-34    | 1"        | 3/4"      | 3.80  |
| GF241-114-38  | 1.1/4"    | 3/8"      | 15.25 |
| GF241-114-12  | 1.1/4"    | 1/2"      | 6.80  |
| GF241-114-34  | 1.1/4"    | 3/4"      | 6.10  |
| GF241-114-1   | 1.1/4"    | 1"        | 4.50  |
| GF241-112-38  | 1.1/2"    | 3/8"      | 13.75 |
| GF241-112-12  | 1.1/2"    | 1/2"      | 8.95  |
| GF241-112-34  | 1.1/2"    | 3/4"      | 9.95  |
| GF241-112-1   | 1.1/2"    | 1"        | 6.70  |
| GF241-112-114 | 1.1/2"    | 1.1/4"    | 6.80  |
| GF241-2-12    | 2"        | 1/2"      | 18.15 |
| GF241-2-34    | 2"        | 3/4"      | 18.00 |
| GF241-2-1     | 2"        | 1"        | 14.75 |
| GF241-2-114   | 2"        | 1.1/4"    | 14.05 |
| GF241-2-112   | 2"        | 1.1/2"    | 12.65 |
| GF241-212-1   | 2.1/2"    | 1"        | 39.30 |
| GF241-212-114 | 2.1/2"    | 1.1/4"    | 45.40 |
| GF241-212-112 | 2.1/2"    | 1.1/2"    | 42.95 |
| GF241-212-2   | 2.1/2"    | 2"        | 24.25 |
| GF241-3-1     | 3"        | 1"        | 61.60 |
| GF241-3-114   | 3"        | 1.1/4"    | 61.60 |
| GF241-3-112   | 3"        | 1.1/2"    | 57.20 |
| GF241-3-2     | 3"        | 2"        | 31.30 |
| GF241-3-212   | 3"        | 2.1/2"    | 35.40 |

## 245-Verloopnippel male



Zwart - BSPT male

| 0217           | BSPT<br>A | BSPT<br>B | €     |
|----------------|-----------|-----------|-------|
| GF245-14-18N * | 1/4"      | 1/8"      | 4.30  |
| GF245-38-14N * | 3/8"      | 1/4"      | 4.85  |
| GF245-12-14N   | 1/2"      | 1/4"      | 5.70  |
| GF245-12-38N   | 1/2"      | 3/8"      | 4.95  |
| GF245-34-38N   | 3/4"      | 3/8"      | 8.95  |
| GF245-34-12N   | 3/4"      | 1/2"      | 4.50  |
| GF245-1-12N    | 1"        | 1/2"      | 8.75  |
| GF245-1-34N    | 1"        | 3/4"      | 4.95  |
| GF245-114-34N  | 1.1/4"    | 3/4"      | 11.70 |
| GF245-114-1N   | 1.1/4"    | 1"        | 8.20  |
| GF245-112-1N   | 1.1/2"    | 1"        | 18.45 |
| GF245-112-114N | 1.1/2"    | 1.1/4"    | 9.85  |
| GF245-2-1N     | 2"        | 1"        | 22.60 |
| GF245-2-114N   | 2"        | 1.1/4"    | 28.40 |
| GF245-2-112N   | 2"        | 1.1/2"    | 18.90 |
| GF245-3-2N     | 3"        | 2"        | 55.95 |

Verzinkt - BSPT male

| 0217          | BSPT<br>A | BSPT<br>B | €     |
|---------------|-----------|-----------|-------|
| GF245-14-18 * | 1/4"      | 1/8"      | 5.65  |
| GF245-38-14 * | 3/8"      | 1/4"      | 5.45  |
| GF245-12-14   | 1/2"      | 1/4"      | 6.80  |
| GF245-12-38   | 1/2"      | 3/8"      | 6.25  |
| GF245-34-38   | 3/4"      | 3/8"      | 11.15 |
| GF245-34-12   | 3/4"      | 1/2"      | 5.60  |
| GF245-1-12    | 1"        | 1/2"      | 11.05 |
| GF245-1-34    | 1"        | 3/4"      | 6.25  |
| GF245-114-34  | 1.1/4"    | 3/4"      | 14.45 |
| GF245-114-1   | 1.1/4"    | 1"        | 10.15 |
| GF245-112-1   | 1.1/2"    | 1"        | 23.30 |
| GF245-112-114 | 1.1/2"    | 1.1/4"    | 12.55 |
| GF245-2-1     | 2"        | 1"        | 21.00 |
| GF245-2-114   | 2"        | 1.1/4"    | 35.50 |
| GF245-2-112   | 2"        | 1.1/2"    | 23.90 |
| GF245-3-2     | 3"        | 2"        | 70.65 |

\* Deze artikelen zijn van gegalvaniseerd staal, en daardoor niet bruikbaar in drinkwater installaties.

KELM™  
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Hydrauliek

Snel-  
koppelingen

Afsluiters

Roestvast  
staal

Fittingen

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conditionering

Gereedschap

Pneumatiek

Diversen

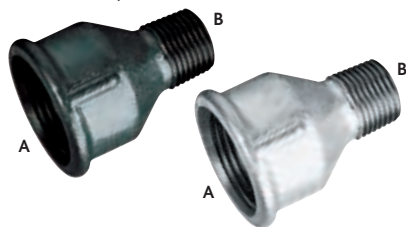
Malleabele  
fittingen  
& staal

Ringleiding-  
systemen

Slangen

Compressoren

## 246-Verloop soknippel male / female



Zwart - BSPT male/BSP female

| 0217         | BSPP<br>A | BSPT<br>B | €    |
|--------------|-----------|-----------|------|
| GF246-34-12N | 3/4"      | 1/2"      | 4.30 |
| GF246-1-34N  | 1"        | 3/4"      | 6.90 |
| GF246-114-1N | 1.1/4"    | 1"        | 8.00 |

Verzinkt - BSPT male/BSP female

| 0217        | BSPP<br>A | BSPT<br>B | €    |
|-------------|-----------|-----------|------|
| GF246-34-12 | 3/4"      | 1/2"      | 5.45 |
| GF246-1-34  | 1"        | 3/4"      | 8.85 |
| GF246-114-1 | 1.1/4"    | 1"        | 9.85 |

## 270-Sok female



Zwart - BSP female

| 0217        | BSPP   | €      |
|-------------|--------|--------|
| GF270-18N * | 1/8"   | 3.50   |
| GF270-14N * | 1/4"   | 3.20   |
| GF270-38N   | 3/8"   | 3.05   |
| GF270-12N   | 1/2"   | 2.35   |
| GF270-34N   | 3/4"   | 3.10   |
| GF270-1N    | 1"     | 4.10   |
| GF270-114N  | 1.1/4" | 6.75   |
| GF270-112N  | 1.1/2" | 9.50   |
| GF270-2N    | 2"     | 14.35  |
| GF270-212N  | 2.1/2" | 40.40  |
| GF270-3N    | 3"     | 48.50  |
| GF270-4N    | 4"     | 111.25 |

Verzinkt - BSP female

| 0217       | BSPP   | €      |
|------------|--------|--------|
| GF270-18 * | 1/8"   | 4.30   |
| GF270-14 * | 1/4"   | 4.50   |
| GF270-38   | 3/8"   | 3.75   |
| GF270-12   | 1/2"   | 2.95   |
| GF270-34   | 3/4"   | 4.05   |
| GF270-1    | 1"     | 5.40   |
| GF270-114  | 1.1/4" | 8.50   |
| GF270-112  | 1.1/2" | 12.20  |
| GF270-2    | 2"     | 18.15  |
| GF270-212  | 2.1/2" | 50.10  |
| GF270-3    | 3"     | 60.25  |
| GF270-4    | 4"     | 190.75 |

## 280-Dubbele nippel male



Zwart - BSPT male

| 0217        | BSPT   | €      |
|-------------|--------|--------|
| GF280-18N * | 1/8"   | 4.00   |
| GF280-14N * | 1/4"   | 3.75   |
| GF280-38N   | 3/8"   | 4.05   |
| GF280-12N   | 1/2"   | 2.10   |
| GF280-34N   | 3/4"   | 2.85   |
| GF280-1N    | 1"     | 4.00   |
| GF280-114N  | 1.1/4" | 6.75   |
| GF280-112N  | 1.1/2" | 8.00   |
| GF280-2N    | 2"     | 14.15  |
| GF280-212N  | 2.1/2" | 25.40  |
| GF280-3N    | 3"     | 30.85  |
| GF280-4N    | 4"     | 111.25 |

Verzinkt - BSPT male

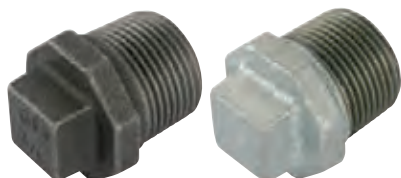
| 0217       | BSPT   | €      |
|------------|--------|--------|
| GF280-18 * | 1/8"   | 4.95   |
| GF280-14 * | 1/4"   | 4.50   |
| GF280-38   | 3/8"   | 5.05   |
| GF280-12   | 1/2"   | 2.75   |
| GF280-34   | 3/4"   | 3.65   |
| GF280-1    | 1"     | 5.25   |
| GF280-114  | 1.1/4" | 8.50   |
| GF280-112  | 1.1/2" | 9.85   |
| GF280-2    | 2"     | 17.70  |
| GF280-212  | 2.1/2" | 31.70  |
| GF280-3    | 3"     | 38.10  |
| GF280-4    | 4"     | 140.75 |

\* Deze artikelen zijn van gegalvaniseerd staal, en daardoor niet bruikbaar in drinkwater installaties.

Voor reparatiekoppelingen  
zie hoofdstuk 13



## 290-Plug met vierkante kop male



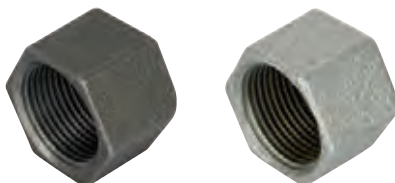
Zwart - BSPT male

| 0217       | BSPT   | €     |
|------------|--------|-------|
| GF290-14N  | 1/4"   | 2.00  |
| GF290-38N  | 3/8"   | 1.80  |
| GF290-12N  | 1/2"   | 1.80  |
| GF290-34N  | 3/4"   | 2.35  |
| GF290-1N   | 1"     | 2.75  |
| GF290-114N | 1.1/4" | 4.60  |
| GF290-112N | 1.1/2" | 5.95  |
| GF290-2N   | 2"     | 10.45 |

Verzinkt - BSPT male

| 0217      | BSPT   | €     |
|-----------|--------|-------|
| GF290-14  | 1/4"   | 2.55  |
| GF290-38  | 3/8"   | 2.10  |
| GF290-12  | 1/2"   | 2.10  |
| GF290-34  | 3/4"   | 2.85  |
| GF290-1   | 1"     | 3.20  |
| GF290-114 | 1.1/4" | 5.95  |
| GF290-112 | 1.1/2" | 7.15  |
| GF290-2   | 2"     | 12.90 |

## 300-Kap zeskant female



Zwart - BSP female

| 0217       | BSP    | €     |
|------------|--------|-------|
| GF300-14N  | 1/4"   | 2.50  |
| GF300-38N  | 3/8"   | 2.25  |
| GF300-12N  | 1/2"   | 2.75  |
| GF300-34N  | 3/4"   | 3.10  |
| GF300-1N   | 1"     | 3.85  |
| GF300-114N | 1.1/4" | 5.95  |
| GF300-112N | 1.1/2" | 7.25  |
| GF300-2N   | 2"     | 13.40 |
| GF300-212N | 2.1/2" | 24.70 |
| GF300-3N   | 3"     | 26.90 |
| GF300-4N   | 4"     | 57.95 |

Verzinkt - BSP female

| 0217      | BSP    | €     |
|-----------|--------|-------|
| GF300-14  | 1/4"   | 3.20  |
| GF300-38  | 3/8"   | 2.95  |
| GF300-12  | 1/2"   | 3.40  |
| GF300-34  | 3/4"   | 4.05  |
| GF300-1   | 1"     | 4.80  |
| GF300-114 | 1.1/4" | 7.15  |
| GF300-112 | 1.1/2" | 8.95  |
| GF300-2   | 2"     | 16.90 |
| GF300-212 | 2.1/2" | 30.70 |
| GF300-3   | 3"     | 33.55 |
| GF300-4   | 4"     | 99.85 |

## 321-Voorlasflens



Zwart

| 0217       | BSP    | €     |
|------------|--------|-------|
| GF321-12N  | 1/2"   | 16.55 |
| GF321-34N  | 3/4"   | 14.75 |
| GF321-1N   | 1"     | 17.25 |
| GF321-114N | 1.1/4" | 22.90 |
| GF321-112N | 1.1/2" | 37.80 |
| GF321-2N   | 2"     | 45.80 |

Verzinkt

| 0217      | BSP    | €     |
|-----------|--------|-------|
| GF321-12  | 1/2"   | 20.60 |
| GF321-34  | 3/4"   | 25.40 |
| GF321-1   | 1"     | 29.45 |
| GF321-114 | 1.1/4" | 39.15 |
| GF321-2   | 2"     | 57.50 |

Voor RVS draadfittingen zie hoofdstuk 5



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& staal

Ringleiding-  
systemen

Slangen

Compressoren

## 330-Driedelige koppeling met vlakke dichting female



Zwart - BSP female

| 0217       | BSPP   | €     |
|------------|--------|-------|
| GF330-12N  | 1/2"   | 8.95  |
| GF330-34N  | 3/4"   | 10.20 |
| GF330-1N   | 1"     | 11.35 |
| GF330-114N | 1.1/4" | 19.60 |
| GF330-112N | 1.1/2" | 25.30 |
| GF330-2N   | 2"     | 41.60 |



Verzinkt - BSP female

| 0217      | BSPP   | €     |
|-----------|--------|-------|
| GF330-12  | 1/2"   | 14.65 |
| GF330-34  | 3/4"   | 17.10 |
| GF330-1   | 1"     | 19.40 |
| GF330-114 | 1.1/4" | 33.45 |
| GF330-112 | 1.1/2" | 43.25 |
| GF330-2   | 2"     | 71.70 |

## 342-Driedelige koppeling met bolronde dichting female



Zwart - BSP female

| 0217       | BSPP   | €      |
|------------|--------|--------|
| GF342-12N  | 1/2"   | 35.10  |
| GF342-34N  | 3/4"   | 39.05  |
| GF342-1N   | 1"     | 50.95  |
| GF342-114N | 1.1/4" | 70.40  |
| GF342-112N | 1.1/2" | 85.25  |
| GF342-2N   | 2"     | 108.00 |

Verzinkt - BSP female

| 0217      | BSPP   | €      |
|-----------|--------|--------|
| GF342-12  | 1/2"   | 49.40  |
| GF342-34  | 3/4"   | 58.20  |
| GF342-1   | 1"     | 72.65  |
| GF342-114 | 1.1/4" | 104.85 |
| GF342-112 | 1.1/2" | 127.10 |
| GF342-2   | 2"     | 153.90 |

## 341-Driedelige koppeling conisch dichtend male / female



Zwart - BSPT male/BSP female

| 0217       | BSPP   | €      |
|------------|--------|--------|
| GF341-14N  | 1/4"   | 16.25  |
| GF341-38N  | 3/8"   | 12.55  |
| GF341-12N  | 1/2"   | 11.15  |
| GF341-34N  | 3/4"   | 12.70  |
| GF341-1N   | 1"     | 16.70  |
| GF341-114N | 1.1/4" | 24.90  |
| GF341-112N | 1.1/2" | 31.85  |
| GF341-2N   | 2"     | 50.90  |
| GF341-212N | 2.1/2" | 110.75 |
| GF341-3N   | 3"     | 173.00 |

## 340-Driedelige koppeling conisch dichtend female



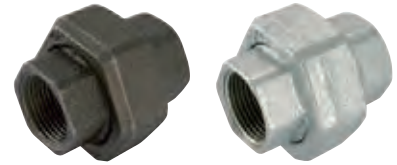
Zwart - BSP female

| 0217       | BSPP   | €      |
|------------|--------|--------|
| GF340-14N  | 1/4"   | 15.80  |
| GF340-38N  | 3/8"   | 14.25  |
| GF340-12N  | 1/2"   | 10.65  |
| GF340-34N  | 3/4"   | 12.10  |
| GF340-1N   | 1"     | 14.15  |
| GF340-114N | 1.1/4" | 23.25  |
| GF340-112N | 1.1/2" | 27.35  |
| GF340-2N   | 2"     | 44.80  |
| GF340-212N | 2.1/2" | 101.35 |
| GF340-3N   | 3"     | 141.35 |
| GF340-4N   | 4"     | 386.85 |

Verzinkt - BSP female

| 0217      | BSPP   | €      |
|-----------|--------|--------|
| GF340-14  | 1/4"   | 19.40  |
| GF340-38  | 3/8"   | 17.45  |
| GF340-12  | 1/2"   | 13.40  |
| GF340-34  | 3/4"   | 15.25  |
| GF340-1   | 1"     | 17.55  |
| GF340-114 | 1.1/4" | 30.30  |
| GF340-112 | 1.1/2" | 35.40  |
| GF340-2   | 2"     | 58.25  |
| GF340-212 | 2.1/2" | 128.40 |
| GF340-3   | 3"     | 179.05 |
| GF340-4   | 4"     | 490.15 |

## 342a-Driedelige koppeling met bolronde dichting female



Zwart - BSP female

| 0217        | BSPP   | €      |
|-------------|--------|--------|
| GF342A-12N  | 1/2"   | 46.95  |
| GF342A-34N  | 3/4"   | 51.70  |
| GF342A-1N   | 1"     | 68.50  |
| GF342A-114N | 1.1/4" | 94.30  |
| GF342A-112N | 1.1/2" | 113.55 |
| GF342A-2N   | 2"     | 144.45 |

Verzinkt - BSP female

| 0217       | BSPP   | €      |
|------------|--------|--------|
| GF342A-12  | 1/2"   | 68.15  |
| GF342A-34  | 3/4"   | 75.50  |
| GF342A-1   | 1"     | 99.35  |
| GF342A-114 | 1.1/4" | 137.05 |
| GF342A-112 | 1.1/2" | 165.55 |
| GF342A-2   | 2"     | 210.20 |

KELM™ pneumatiek

Hydrauliek

Snelkoppelingen

Afsluiters

Roestvast staal

Fittingen

Luchtconditionering

Gereedschap

Pneumatiek

Diversen

Malleabele fittingen & staal

Ringleidingssystemen

Slangen

Compressoren

## Gelaste verzinkte gasbuizen

- In- en uitwendig thermisch verzinkt
- NEN-3257 / DIN-2440
- Installatie kwaliteit



Maximale werkdruk:  
25 bar

Gladde einden - 6 meter lengte - DIN 2440

| GASB    |        |      |       | €           |
|---------|--------|------|-------|-------------|
| 9700017 | 3/8"   | 2.32 | 17.2  | Op aanvraag |
| 9700021 | 1/2"   | 2.65 | 21.3  | Op aanvraag |
| 9700027 | 3/4"   | 2.65 | 26.9  | Op aanvraag |
| 9700032 | 1"     | 3.25 | 33.7  | Op aanvraag |
| 9700042 | 1.1/4" | 3.25 | 42.4  | Op aanvraag |
| 9700048 | 1.1/2" | 3.25 | 48.3  | Op aanvraag |
| 9700060 | 2"     | 3.65 | 60.3  | Op aanvraag |
| 9700076 | 2.1/2" | 3.65 | 76.1  | Op aanvraag |
| 9700089 | 3"     | 4.05 | 88.9  | Op aanvraag |
| 9700114 | 4"     | 4.5  | 114.3 | Op aanvraag |

Gladde einden - 3 meter lengte - DIN 2440

| GASB      |        |      |       | €           |
|-----------|--------|------|-------|-------------|
| 9700017-3 | 3/8"   | 2.32 | 17.2  | Op aanvraag |
| 9700021-3 | 1/2"   | 2.65 | 21.3  | Op aanvraag |
| 9700027-3 | 3/4"   | 2.65 | 26.9  | Op aanvraag |
| 9700032-3 | 1"     | 3.25 | 33.7  | Op aanvraag |
| 9700042-3 | 1.1/4" | 3.25 | 42.4  | Op aanvraag |
| 9700048-3 | 1.1/2" | 3.25 | 48.3  | Op aanvraag |
| 9700060-3 | 2"     | 3.65 | 60.3  | Op aanvraag |
| 9700076-3 | 2.1/2" | 3.65 | 76.1  | Op aanvraag |
| 9700089-3 | 3"     | 4.05 | 88.9  | Op aanvraag |
| 9700114-3 | 4"     | 4.5  | 114.3 | Op aanvraag |

Afname alleen per 2 lengtes van 3 meter



Voor hydraulische buis  
zie hoofdstuk 2



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staal

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Malleabele  
fittingen  
& staal

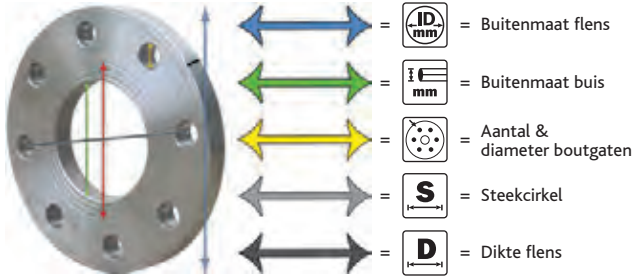
Ringleiding-  
systemen

Slangen

Compressoren



# FLENZEN - STAAL



Topkwaliteit voor een breed scala aan toepassingen binnen de chemische en petrochemische industrie, offshore, etc.

Naast dit assortiment van meest toegepaste flenzen zijn een groot aantal types en maten op aanvraag leverbaar.

Draadflenzen staal C22,8, volgens DIN normering 2566

Voorlasflenzen staal C22,8 volgens DIN normering 2633 (2631/2635)

Vlakke lasflenzen staal 37,2 volgens DIN normering 2576

Blindflenzen staal 37, volgens DIN normering 2527

## Draadflenzen staal DIN 2566



Verzinkt - DIN 2566 ST37 - 16 bar

| FLEN           | S   | D  | mm     | ID (mm) | mm    | €                     |
|----------------|-----|----|--------|---------|-------|-----------------------|
| DN15-DF16B-12  | 65  | 14 | 1/2"   | 95      | 21,3  | 4 x 14mm <b>15.55</b> |
| DN20-DF16B-34  | 75  | 16 | 3/4"   | 105     | 26,9  | 4 x 14mm <b>17.40</b> |
| DN25-DF16B-1   | 85  | 16 | 1"     | 115     | 33,7  | 4 x 14mm <b>18.35</b> |
| DN32-DF16B-114 | 100 | 16 | 1.1/4" | 140     | 42,4  | 4 x 18mm <b>25.05</b> |
| DN40-DF16B-112 | 110 | 16 | 1.1/2" | 150     | 48,3  | 4 x 18mm <b>26.75</b> |
| DN50-DF16B-2   | 125 | 18 | 2"     | 165     | 60,3  | 4 x 18mm <b>33.80</b> |
| DN65-DF16B-212 | 145 | 18 | 2.1/2" | 185     | 76,1  | 4 x 18mm <b>42.10</b> |
| DN80-DF16B-3   | 160 | 20 | 3"     | 200     | 88,9  | 8 x 18mm <b>50.35</b> |
| DN100-DF16B-4  | 180 | 20 | 4"     | 220     | 114,3 | 8 x 18mm <b>56.80</b> |



Zwart - DIN 2566 ST37 - 16 bar

| FLEN            | S   | D  | mm     | ID (mm) | mm    | €                     |
|-----------------|-----|----|--------|---------|-------|-----------------------|
| DN15-DF16B-12Z  | 65  | 14 | 1/2"   | 95      | 21,3  | 4 x 14mm <b>9.75</b>  |
| DN20-DF16B-34Z  | 75  | 16 | 3/4"   | 105     | 26,9  | 4 x 14mm <b>10.85</b> |
| DN25-DF16B-1Z   | 85  | 16 | 1"     | 115     | 33,7  | 4 x 14mm <b>11.40</b> |
| DN32-DF16B-114Z | 100 | 16 | 1.1/4" | 140     | 42,4  | 4 x 18mm <b>15.65</b> |
| DN40-DF16B-112Z | 110 | 16 | 1.1/2" | 150     | 48,3  | 4 x 18mm <b>16.70</b> |
| DN50-DF16B-2Z   | 125 | 18 | 2"     | 165     | 60,3  | 4 x 18mm <b>21.10</b> |
| DN65-DF16B-212Z | 145 | 18 | 2.1/2" | 185     | 76,1  | 4 x 18mm <b>26.30</b> |
| DN80-DF16B-3Z   | 160 | 20 | 3"     | 200     | 88,9  | 8 x 18mm <b>31.45</b> |
| DN100-DF16B-4Z  | 180 | 20 | 4"     | 220     | 114,3 | 8 x 18mm <b>35.45</b> |

## Voorlasflenzen staal DIN 2633

Voorlasflenzen in PN6 (DIN 2631), PN10 (DIN 2632) en PN40 (DIN 2635) en andere maten zijn op aanvraag leverbaar.



Staal DIN 2633 C22,8 - 16 bar

| FLEN            | S   | D  | mm  | ID (mm) | mm                     | € |
|-----------------|-----|----|-----|---------|------------------------|---|
| DN015-VLF021-16 | 65  | 14 | 95  | 21,3    | 4 x 14mm <b>7.80</b>   |   |
| DN025-VLF033-16 | 75  | 16 | 105 | 26,9    | 4 x 14mm <b>9.75</b>   |   |
| DN032-VLF042-16 | 85  | 16 | 115 | 33,7    | 4 x 14mm <b>9.40</b>   |   |
| DN040-VLF048-16 | 100 | 16 | 140 | 42,4    | 4 x 18mm <b>13.75</b>  |   |
| DN050-VLF060-16 | 110 | 16 | 150 | 48,3    | 4 x 18mm <b>14.65</b>  |   |
| DN065-VLF076-16 | 125 | 18 | 165 | 60,3    | 4 x 18mm <b>17.45</b>  |   |
| DN080-VLF088-16 | 145 | 18 | 185 | 76,1    | 4 x 18mm <b>21.10</b>  |   |
| DN100-VLF114-16 | 160 | 20 | 200 | 88,9    | 8 x 18mm <b>25.70</b>  |   |
| DN125-VLF139-16 | 180 | 20 | 220 | 114,3   | 8 x 18mm <b>31.85</b>  |   |
| DN150-VLF168-16 | 210 | 22 | 250 | 139,7   | 8 x 18mm <b>43.35</b>  |   |
| DN200-VLF219-16 | 240 | 22 | 285 | 168,3   | 8 x 22mm <b>54.95</b>  |   |
|                 | 295 | 24 | 340 | 219,1   | 12 x 22mm <b>80.85</b> |   |

## Vlakke lasflenzen staal DIN 2576

Vlakke lasflenzen in PN6 (DIN 2573) en in andere maten zijn op aanvraag leverbaar.



Staal DIN 2576 ST37,2 - 16 bar

| FLEN            | S   | D  | bar | ID (mm) | mm    | €                      |
|-----------------|-----|----|-----|---------|-------|------------------------|
| DN015-SLF021-16 | 65  | 14 | 16  | 95      | 21,3  | 4 x 14mm <b>7.05</b>   |
| DN020-SLF026-16 | 75  | 16 | 16  | 105     | 26,9  | 4 x 14mm <b>8.10</b>   |
| DN025-SLF033-16 | 85  | 16 | 16  | 115     | 33,7  | 4 x 14mm <b>9.40</b>   |
| DN032-SLF042-16 | 100 | 16 | 16  | 140     | 42,4  | 4 x 18mm <b>12.80</b>  |
| DN040-SLF048-16 | 110 | 16 | 16  | 150     | 48,3  | 4 x 18mm <b>14.55</b>  |
| DN050-SLF060-16 | 125 | 18 | 16  | 165     | 60,3  | 4 x 18mm <b>19.35</b>  |
| DN065-SLF076-16 | 145 | 18 | 16  | 185     | 76,1  | 4 x 18mm <b>22.15</b>  |
| DN080-SLF088-16 | 160 | 20 | 16  | 200     | 88,9  | 8 x 18mm <b>28.05</b>  |
| DN100-SLF114-16 | 180 | 20 | 16  | 220     | 114,3 | 8 x 18mm <b>31.00</b>  |
| DN125-SLF139-16 | 210 | 22 | 16  | 250     | 139,7 | 8 x 18mm <b>40.35</b>  |
| DN150-SLF168-16 | 240 | 22 | 16  | 285     | 168,3 | 8 x 22mm <b>48.50</b>  |
| DN200-SLF219-16 | 295 | 24 | 16  | 340     | 219,1 | 12 x 22mm <b>78.35</b> |

Staal DIN 2576 ST37,2 - 10 bar

| FLEN            | S   | D  | bar | ID (mm) | mm    | €                       |
|-----------------|-----|----|-----|---------|-------|-------------------------|
| DN080-SLF088-10 | 160 | 20 | 10  | 200     | 88,9  | 4 x 18mm <b>28.05</b>   |
| DN200-SLF219-10 | 295 | 24 | 10  | 340     | 219,1 | 8 x 22mm <b>68.70</b>   |
| DN250-SLF273-10 | 350 | 26 | 10  | 395     | 273,0 | 12 x 22mm <b>91.70</b>  |
| DN300-SLF323-10 | 400 | 26 | 10  | 445     | 323,9 | 12 x 22mm <b>106.35</b> |
| DN350-SLF355-10 | 460 | 28 | 10  | 505     | 355,6 | 16 x 22mm <b>165.35</b> |
| DN400-SLF406-10 | 515 | 32 | 10  | 565     | 406,4 | 16 x 26mm <b>184.55</b> |
| DN450-SLF457-10 | 565 | 26 | 10  | 615     | 457,0 | 20 x 27mm <b>216.70</b> |
| DN500-SLF508-10 | 620 | 26 | 10  | 670     | 508,0 | 20 x 27mm <b>252.75</b> |

## Blindflenzen staal DIN 2527



Staal DIN 2527 ST37 - 16 bar

| FLEN        | S   | D  | bar | ID mm | Ø        | €     |
|-------------|-----|----|-----|-------|----------|-------|
| DN015-BF-16 | 65  | 14 | 16  | 95    | 4 x 14mm | 6.55  |
| DN020-BF-16 | 75  | 16 | 16  | 105   | 4 x 14mm | 9.15  |
| DN025-BF-16 | 85  | 16 | 16  | 115   | 4 x 14mm | 10.35 |
| DN032-BF-16 | 100 | 16 | 16  | 140   | 4 x 18mm | 15.00 |
| DN040-BF-16 | 110 | 16 | 16  | 150   | 4 x 18mm | 17.45 |
| DN050-BF-16 | 125 | 18 | 16  | 165   | 4 x 18mm | 24.10 |
| DN065-BF-16 | 145 | 18 | 16  | 185   | 4 x 18mm | 29.00 |
| DN080-BF-16 | 160 | 20 | 16  | 200   | 8 x 18mm | 39.80 |
| DN100-BF-16 | 180 | 20 | 16  | 220   | 8 x 18mm | 44.75 |
| DN125-BF-16 | 210 | 22 | 16  | 250   | 8 x 18mm | 66.65 |
| DN150-BF-16 | 240 | 22 | 16  | 285   | 8 x 22mm | 82.35 |



Staal DIN 2527 ST37 - 10 bar

| FLEN        | S   | D  | bar | ID mm | Ø         | €      |
|-------------|-----|----|-----|-------|-----------|--------|
| DN080-BF-10 | 160 | 20 | 10  | 200   | 4 x 18mm  | 39.80  |
| DN200-BF-10 | 295 | 24 | 10  | 340   | 8 x 22mm  | 130.70 |
| DN250-BF-10 | 350 | 26 | 10  | 395   | 12 x 22mm | 200.20 |
| DN300-BF-10 | 400 | 26 | 10  | 445   | 12 x 22mm | 257.85 |
| DN350-BF-10 | 460 | 26 | 10  | 505   | 16 x 22mm | 344.50 |
| DN400-BF-10 | 515 | 26 | 10  | 565   | 16 x 26mm | 419.10 |
| DN450-BF-10 | 565 | 28 | 10  | 615   | 20 x 27mm | 500.50 |
| DN500-BF-10 | 620 | 28 | 10  | 670   | 20 x 26mm | 646.95 |

## Universele HD flenspakking ring



Zonder boutgaten - 16 bar

| FLEN      | To Suit | €     |
|-----------|---------|-------|
| PF16DN015 | DN015   | 0.60  |
| PF16DN020 | DN020   | 0.65  |
| PF16DN025 | DN025   | 0.75  |
| PF16DN032 | DN032   | 1.10  |
| PF16DN040 | DN040   | 1.40  |
| PF16DN050 | DN050   | 1.40  |
| PF16DN065 | DN065   | 1.75  |
| PF16DN080 | DN080   | 1.95  |
| PF16DN100 | DN100   | 2.45  |
| PF16DN125 | DN125   | 4.15  |
| PF16DN150 | DN150   | 4.60  |
| PF16DN250 | DN250   | 11.10 |
| PF16DN300 | DN300   | 13.05 |
| PF16DN350 | DN350   | 21.15 |

## Universele bouten voor flenzen

Staal 8.8 gegalvaniseerd

| FLEN        | Ø   | L mm      | €  |      |
|-------------|-----|-----------|----|------|
| FBOUTM12X50 | M12 | 14        | 50 | 0.50 |
| FBOUTM16X65 | M16 | 18        | 65 | 1.20 |
| FBOUTM20X90 | M20 | 22        | 90 | 2.50 |
| FBOUTM24X90 | M24 | 26 and 27 | 90 | 4.10 |

## Universele moeren voor flenzen

Staal 8.8 gegalvaniseerd

| FLEN     | Ø   | L mm    | €    |
|----------|-----|---------|------|
| FMOERM12 | M12 | 14      | 0.10 |
| FMOERM16 | M16 | 18      | 0.20 |
| FMOERM20 | M20 | 22      | 0.40 |
| FMOERM24 | M24 | 26 & 27 | 1.00 |

## Universele sluitringen voor flenzen

Staal 8.8 gegalvaniseerd

| FLEN       | Ø   | L mm    | €    |
|------------|-----|---------|------|
| FSLRINGM12 | M12 | 14      | 0.05 |
| FSLRINGM16 | M16 | 18      | 0.10 |
| FSLRINGM20 | M20 | 22      | 0.20 |
| FSLRINGM24 | M24 | 26 & 27 | 0.40 |

## Universele veerringen voor flenzen

Staal 8.8 gegalvaniseerd

| FLEN         | Ø   | L mm    | €    |
|--------------|-----|---------|------|
| FVEERRINGM12 | M12 | 14      | 0.05 |
| FVEERRINGM16 | M16 | 18      | 0.10 |
| FVEERRINGM20 | M20 | 22      | 0.20 |
| FVEERRINGM24 | M24 | 26 & 27 | 0.25 |

Andere uitvoeringen en materialen zijn op aanvraag leverbaar.

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# TECHNICAL & ENGINEERING DATA

## Length Conversion

|                    | Metres  | Inches  | Feet      | Millimetres | Miles        | Kilometres |
|--------------------|---------|---------|-----------|-------------|--------------|------------|
| <b>Metres</b>      | 1       | 39.37   | 3.2808    | 1,000       | 0.0006214    | 0.001      |
| <b>Inches</b>      | 0.0254  | 1       | 0.0833    | 25.4        | 0.00001578   | 0.0000254  |
| <b>Feet</b>        | 0.3048  | 12      | 1         | 304.80      | 0.0001894    | 0.0003048  |
| <b>Millimetres</b> | 0.001   | 0.03937 | 0.0032808 | 1           | 0.0000006214 | 0.000001   |
| <b>Miles</b>       | 1609.35 | 63.360  | 5.286     | 1,609,350   | 1            | 1.60935    |

## Flow Rate Conversion

|                                    | Litres PER SECOND | Litres PER MINUTE | Cubic Metres PER HOUR | Cubic Feet PER HOUR | Gallons PER MINUTE | Imperial Gallons PER MIN. |
|------------------------------------|-------------------|-------------------|-----------------------|---------------------|--------------------|---------------------------|
| <b>Litres per Second</b>           | 1                 | 60                | 3.600                 | 127.1               | 21.19              | 13.20                     |
| <b>Litres per Minute</b>           | 0.1667            | 1                 | 0.06000               | 2.119               | 0.03532            | 0.2200                    |
| <b>Cubic Metres per Hour</b>       | 0.2778            | 16.67             | 1                     | 35.31               | 0.5886             | 3.666                     |
| <b>Cubic Feet per Hour</b>         | 0.007865          | 0.4719            | 0.02832               | 1                   | 0.01667            | 0.1038                    |
| <b>Cubic Feet per Minute</b>       | 0.4719            | 28.32             | 1.6999                | 60.00               | 1                  | 6.229                     |
| <b>Imperial Gallons per Minute</b> | 0.07577           | 4.546             | 0.2727                | 9.633               | 0.1606             | 1                         |

## Conversion Chart

1 bar = 14.5 lb/in<sup>2</sup> (PSI)    °C = 5/9 (°F – 32°)    °F = (9/5 °C) + 32°

| Airflow                           | Symbol               | X by   | To Convert           |
|-----------------------------------|----------------------|--------|----------------------|
| <b>Cubic Feet per Minute</b>      | ft <sup>3</sup> /min | 1.699  | m <sup>3</sup> /h    |
| <b>Cubic Feet per Minute</b>      | ft <sup>3</sup> /min | 0.0283 | m <sup>3</sup> /min  |
| <b>Cubic Feet per Minute</b>      | ft <sup>3</sup> /min | 28.316 | l/min                |
| <b>Cubic Feet per Minute</b>      | ft <sup>3</sup> /min | 0.4719 | l/s                  |
| <b>Cubic Metre per Minute</b>     | m <sup>3</sup> /min  | 35.31  | ft <sup>3</sup> /min |
| <b>Cubic Metre per Hour</b>       | m <sup>3</sup> /h    | 0.5885 | ft <sup>3</sup> /min |
| <b>Litre per Minute</b>           | l/min                | 0.0353 | ft <sup>3</sup> /min |
| <b>Litre per Second</b>           | l/s                  | 2.119  | ft <sup>3</sup> /min |
| <b>Cubic Decimetre per Second</b> | dm <sup>3</sup> /s   | 2.119  | ft <sup>3</sup> /min |

## Decimal & Millimetre Equivalents of Fractions

| FRACTION    | INCHES        | MM           | FRACTION     | INCHES        | MM            | FRACTION     | INCHES         | MM            |
|-------------|---------------|--------------|--------------|---------------|---------------|--------------|----------------|---------------|
| 1/64        | .01563        | .397         | 25/64        | .39063        | 9.922         | 49/64        | .76563         | 19.447        |
| 1/32        | .03125        | .794         | 15/32        | .40625        | 10.319        | 25/32        | .78125         | 19.844        |
| 3/64        | .04688        | 1.191        | 27/64        | .42188        | 10.716        | 51/64        | .79688         | 20.241        |
| <b>1/16</b> | <b>.06250</b> | <b>1.588</b> | <b>7/16</b>  | <b>.43750</b> | <b>11.113</b> | <b>13/16</b> | <b>.81250</b>  | <b>20.638</b> |
| 5/64        | .07813        | 1.984        | 29/64        | .45313        | 11.509        | 53/64        | .82813         | 21.034        |
| 3/32        | .09375        | 2.381        | 15/32        | .46875        | 11.906        | 27/32        | .84375         | 21.431        |
| 7/64        | .10938        | 2.778        | 31/64        | .48438        | 12.303        | 55/64        | .85938         | 21.828        |
| <b>1/8</b>  | <b>.12500</b> | <b>3.175</b> | <b>1/2</b>   | <b>.50000</b> | <b>12.700</b> | <b>7/8</b>   | <b>.87500</b>  | <b>22.225</b> |
| 9/64        | .14063        | 3.572        | 33/64        | .51563        | 13.097        | 57/64        | .89063         | 22.622        |
| 5/32        | .15625        | 3.969        | 17/32        | .53125        | 13.494        | 29/32        | .90625         | 23.019        |
| 11/64       | .17188        | 4.366        | 35/64        | .54688        | 13.891        | 59/64        | .92188         | 23.416        |
| <b>3/16</b> | <b>.18750</b> | <b>4.763</b> | <b>9/16</b>  | <b>.56250</b> | <b>14.288</b> | <b>15/16</b> | <b>.93750</b>  | <b>23.813</b> |
| 13/64       | .20313        | 5.159        | 37/64        | .57813        | 14.684        | 61/64        | .95313         | 24.209        |
| 7/32        | .21875        | 5.556        | 19/32        | .59375        | 15.081        | 31/32        | .96875         | 24.606        |
| 15/64       | .23438        | 5.953        | 39/64        | .60938        | 15.478        | 63/64        | .98438         | 25.003        |
| <b>1/4</b>  | <b>.25000</b> | <b>6.350</b> | <b>5/8</b>   | <b>.62500</b> | <b>15.875</b> | <b>1</b>     | <b>1.00000</b> | <b>25.400</b> |
| 17/64       | .26563        | 6.747        | 41/64        | .64063        | 16.272        |              |                |               |
| 9/32        | .28125        | 7.144        | 21/32        | .65625        | 16.669        |              |                |               |
| 19/64       | .29688        | 7.541        | 43/64        | .67188        | 17.066        |              |                |               |
| <b>5/16</b> | <b>.31250</b> | <b>7.938</b> | <b>11/16</b> | <b>.68750</b> | <b>17.463</b> |              |                |               |
| 21/64       | .32813        | 8.334        | 45/64        | .70313        | 17.859        |              |                |               |
| 11/32       | .34375        | 8.731        | 23/32        | .71875        | 18.256        |              |                |               |
| 23/64       | .35938        | 9.128        | 47/64        | .73438        | 18.653        |              |                |               |
| <b>3/8</b>  | <b>.37500</b> | <b>9.525</b> | <b>3/4</b>   | <b>.75000</b> | <b>19.050</b> |              |                |               |



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