

2015



Professionals in  
Flow & Fluid Technology

# MALLEABELE FITTINGEN & STAAL

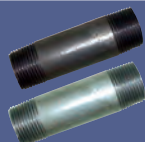
# 11



EE malleabel fitwerk

EE  
1886

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Lasbochten en  
lassokken

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Georg Fischer  
malleabel fitwerk

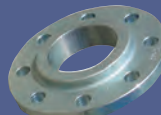
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Gasbuizen

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Flenzen

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**EE**  
1886

# malleabel fitwerk

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

**DVGW**  
CERT GMBH

**NV-7641CL0044**  
Registrierungsnummer  
registration number

|  |  |
|--|--|
| <b>Anwendungsbereich</b><br>field of application   | Produkte der Gas- und Wasserversorgung<br>products of gas and water supply |
| <b>Zertifikatinhaber</b><br>owner of certificate   | ODLEWNIĄ ŻELIWA S.A.<br>ul. Lesna 10, PL-42-400 Zawiercie                  |
| <b>Ventriiber</b><br>distributor                   | ODLEWNIĄ ŻELIWA S.A.<br>ul. Lesna 10, PL-42-400 Zawiercie                  |
| <b>Produktart</b><br>product category              | metal pipe unions and joints : malleable cast iron fitting (7641)          |
| <b>Produktbezeichnung</b><br>product description   | malleable cast iron fittings, design symbol "A"                            |
| <b>Modell</b><br>model                             | EE   |
| <b>Prüfberichte</b><br>test reports                | mechanical test: 120003360 from 08.02.2010 (MPM)                           |
| <b>Prüfgrundlagen</b><br>basis of type examination | DIN EN 10242 (01.03.1995)  |

**INSTITUT NAFTY I GAZU**  
**OIL AND GAS INSTITUTE**  
PL 31-502 Wrocław, ul. Śleszyńca 25A  
Tel: +48 71 32 42 00 21 Fax: +48 71 32 42 00 61  
**BIURO CERTYFIKACJI**  
**CERTIFICATION OFFICE**  
Tel: +48 71 32 42 00 61 www.ing.or

**PCIA**  
Polskie Centrum Instytucji Akredytacji  
AC 010

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

Nazwa i adres producenta:  
Name and address of producer: Odlewnia Żeliwa S.A.  
42-400 Zawiercie ul. Lesna 10

Miejsce produkcji:  
The place of production: Odlewnia Żeliwa S.A.  
42-400 Zawiercie ul. Lesna 10

Nazwa wyrobu:  
Name of product: Gwintowane łączniki rurowe z żelaza ciągliwego

Typ (rodziny):  
Type (series): kolanka A, trójniki B i E, erworniki C, złączki M i N,  
łuki D i G, zasłepki i korki T, wrotniki Za,  
długościki U1 i U2, dwuzłączki kolankowe U1 i U2  
zakres wielkości: 1/2 - 2 (DN8 - DN50) MOPIS T2-20°C = 60 °C

Przeznaczenie wyrobu:  
Intended use of product: Instalacje gazowe budynków zasilane paliwami gazowymi  
wg PN-C-04750-2011

Wzrosty specyfikacji wymagalna  
The product complies in  
requirements specified in: PN-EN 10242:1999 + A1:2002 + A2:2005

Na podstawie raportów z badań:  
(On the basis of test reports): 4A/GU/GP-I/02

Dokonano oceny zgodności według Systemu I  
zgodnie z Rozporządzeniem Ministra Infrastruktury z dnia 11 sierpnia 2004 r.  
w sprawie sposobów deklarowania zgodności wyrobów budowlanych  
zgodnie z Rozporządzeniem Ministra Infrastruktury z dnia 11 sierpnia 2004 r.  
w sprawie sposobów deklarowania zgodności wyrobów budowlanych  
zgodnie z Rozporządzeniem Ministra Infrastruktury z dnia 11 sierpnia 2004 r.  
w sprawie sposobów deklarowania zgodności wyrobów budowlanych

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

24 Chłodnia 00-791 Warszawa • Phone (22) 5421334; (22) 5421349 • Fax (22) 5421287 • e-mail: wdz@pih.gov.pl

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

Wyrob / product: Threaded Pipe Fittings in Malleable Iron according to standard  
EN 10242 and ISO 49

Zawiera /y / containing: malleable iron, zinc coating

Przeznaczony do / destined: pipe connections in water-pipe networks, including drinking water systems, gas networks, steam networks, fire protection systems and central heating systems

Wymieniony wyrob / is acceptable according to hygienic criteria with the following conditions:  
- without restrictions

Wywórcza / producer: Odlewnia Żeliwa S.A. Zawiercie  
42-400 Zawiercie  
ul. Lesna 10

Niniejszy dokument wydano na wniosek / this certificate issued for:  
Odlewnia Żeliwa S.A. Zawiercie  
42-400 Zawiercie  
ul. Lesna 10

Atest może być zmieniony lub unieważniony po przedstawieniu stosownych dowodów  
przez kłóskówek, srobnę. Niniejszy atest traci ważność po 2017-06-15  
lub w przypadku zmian w recepturze albo w technologii wytwarzania wyrobu.  
The certificate may be corrected or cancelled after appropriate motivation.  
The certificate loses its validity after 2017-06-15  
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  
Prof. Bogusław Klugutka

Reprodukowanie, kopiowanie, rozprowadzanie, wykorzystanie, dystrybucja Atestu Higienicznego  
w innych mediach bez zgody NIDZ-PIH jest zabronione.

www.pzh.gov.pl

**BUREAU VERITAS**  
Certification

**Certificate**  
Awarded to  
**ODLEWNIĄ ŻELIWA S.A.**  
ul. Lesna 10, 42-400 ZAWIERCIE  
POLAND

Bureau Veritas Certification certify that the Management System of the above organization  
has been audited 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**  
MANUFACTURING OF PRECISION CASTINGS, MALLEABLE CAST IRON FITTINGS  
AND OTHER CAST IRON CASTINGS GALVANIZED AND BLACK.

Approval Date: 7 July 2014  
Subject to the continued satisfactory operation of the organization's Management System.  
This certificate is valid until: 6 July 2017

To check this certificate validity please call: +48 22 549 04 00  
Further clarifications regarding the scope of this certificate and the applicability of the management system requirements  
may be obtained by consulting the organization.

Issue Date: 7 July 2014

Certificate Number: PL004039P

Piotr Popowski  
Local Technical Manager

**PCIA**  
Polskie Centrum Instytucji Akredytacji  
AC 081  
OMS, EMS,  
BHP

## 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)



ODLEWNIA ŻELIWA  
ZAWIERCIE

## WHITEHEART MALLEABLE CAST IRON FITTINGS EE BRAND

### THE STRONG ELEMENT OF EVERY INSTALLATION SYSTEM



[www.eeodlewnia.pl](http://www.eeodlewnia.pl)

## 1-Bocht 90° male / female



Zwart - BSPT male/BSP female

| 6700      |        | €     |
|-----------|--------|-------|
| 46101313Z | 1/4"   | 2.05  |
| 46101717Z | 3/8"   | 2.50  |
| 46102121Z | 1/2"   | 2.25  |
| 46102727Z | 3/4"   | 3.90  |
| 46103232Z | 1"     | 5.35  |
| 46104242Z | 1.1/4" | 9.30  |
| 46104848Z | 1.1/2" | 12.30 |
| 46106060Z | 2"     | 20.00 |
| 46107676Z | 2.1/2" | 43.65 |
| 46108989Z | 3"     | 56.45 |

Verzinkt - BSPT male/BSP female

| 6700     |        | €      |
|----------|--------|--------|
| 46101313 | 1/4"   | 2.60   |
| 46101717 | 3/8"   | 3.20   |
| 46102121 | 1/2"   | 2.80   |
| 46102727 | 3/4"   | 4.90   |
| 46103232 | 1"     | 6.65   |
| 46104242 | 1.1/4" | 11.40  |
| 46104848 | 1.1/2" | 15.25  |
| 46106060 | 2"     | 24.65  |
| 46107676 | 2.1/2" | 54.20  |
| 46108989 | 3"     | 70.10  |
| 46100114 | 4"     | 127.00 |

## 2-Bocht 90° female



Zwart - BSP female

| 6700      |        | €     |
|-----------|--------|-------|
| 46092121Z | 1/2"   | 2.50  |
| 46092727Z | 3/4"   | 4.00  |
| 46093232Z | 1"     | 5.40  |
| 46094242Z | 1.1/4" | 9.30  |
| 46094848Z | 1.1/2" | 11.50 |
| 46096060Z | 2"     | 15.95 |

Verzinkt - BSP female

| 6700     |        | €      |
|----------|--------|--------|
| 46092121 | 1/2"   | 3.20   |
| 46092727 | 3/4"   | 4.95   |
| 46093232 | 1"     | 6.65   |
| 46094242 | 1.1/4" | 11.50  |
| 46094848 | 1.1/2" | 14.20  |
| 46096060 | 2"     | 19.75  |
| 46097676 | 2.1/2" | 54.95  |
| 46098989 | 3"     | 69.05  |
| 46090114 | 4"     | 131.05 |

## 3-Bocht 90° male



Verzinkt - BSPT male

| 6700     |      | €    |
|----------|------|------|
| 45032121 | 1/2" | 4.55 |
| 45032727 | 3/4" | 5.05 |
| 45033232 | 1"   | 7.25 |

## 40-Bocht 45° male / female



Verzinkt - BSPT male/BSP female

| 6700     |        | €      |
|----------|--------|--------|
| 48101313 | 1/4"   | 3.75   |
| 48101717 | 3/8"   | 3.45   |
| 48102121 | 1/2"   | 3.20   |
| 48102727 | 3/4"   | 4.25   |
| 48103232 | 1"     | 6.05   |
| 48104242 | 1.1/4" | 10.70  |
| 48104848 | 1.1/2" | 12.70  |
| 48106060 | 2"     | 20.00  |
| 48107676 | 2.1/2" | 43.55  |
| 48108989 | 3"     | 47.70  |
| 48100114 | 4"     | 107.85 |

## 41-Bocht 45° female



Zwart - BSP female

| 6700      |        | €     |
|-----------|--------|-------|
| 48094242Z | 1.1/4" | 8.80  |
| 48094848Z | 1.1/2" | 11.65 |
| 48096060Z | 2"     | 16.45 |

Verzinkt - BSP female

| 6700     |        | €     |
|----------|--------|-------|
| 48092121 | 1/2"   | 3.75  |
| 48092727 | 3/4"   | 4.75  |
| 48093232 | 1"     | 6.05  |
| 48094242 | 1.1/4" | 10.85 |
| 48094848 | 1.1/2" | 14.30 |
| 48096060 | 2"     | 20.15 |
| 48097676 | 2.1/2" | 40.05 |
| 48098989 | 3"     | 51.00 |

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fittingen  
& staal

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## 90-Knie 90° female



Zwart - BSP female

| 6700      |        | €     |
|-----------|--------|-------|
| 45091313Z | 1/4"   | 1.40  |
| 45091717Z | 3/8"   | 1.15  |
| 45092121Z | 1/2"   | 0.85  |
| 45092727Z | 3/4"   | 1.40  |
| 45093232Z | 1"     | 1.90  |
| 45094242Z | 1.1/4" | 3.65  |
| 45094848Z | 1.1/2" | 6.05  |
| 45096060Z | 2"     | 7.00  |
| 45097676Z | 2.1/2" | 20.00 |
| 45098989Z | 3"     | 27.45 |
| 45090114Z | 4"     | 43.85 |

Verzinkt - BSP female

| 6700     |        | €     |
|----------|--------|-------|
| 45091313 | 1/4"   | 1.70  |
| 45091717 | 3/8"   | 1.40  |
| 45092121 | 1/2"   | 1.30  |
| 45092727 | 3/4"   | 1.65  |
| 45093232 | 1"     | 2.35  |
| 45094242 | 1.1/4" | 4.45  |
| 45094848 | 1.1/2" | 7.50  |
| 45096060 | 2"     | 8.70  |
| 45097676 | 2.1/2" | 24.85 |
| 45098989 | 3"     | 34.10 |
| 45090114 | 4"     | 59.90 |

## 92-Knie 90° male / female



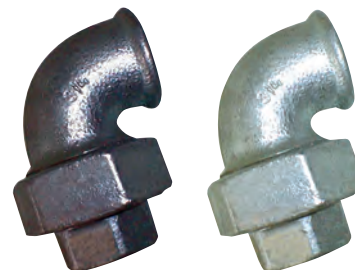
Zwart - BSPT male/BSP female

| 6700      |        | €     |
|-----------|--------|-------|
| 45101313Z | 1/4"   | 1.45  |
| 45101717Z | 3/8"   | 1.30  |
| 45102121Z | 1/2"   | 1.10  |
| 45102727Z | 3/4"   | 1.55  |
| 45103232Z | 1"     | 2.50  |
| 45104242Z | 1.1/4" | 4.25  |
| 45104848Z | 1.1/2" | 6.45  |
| 45106060Z | 2"     | 8.45  |
| 45107676Z | 2.1/2" | 20.70 |
| 45108989Z | 3"     | 27.20 |

Verzinkt - BSPT male/BSP female

| 6700     |        | €     |
|----------|--------|-------|
| 45101313 | 1/4"   | 1.80  |
| 45101717 | 3/8"   | 1.65  |
| 45102121 | 1/2"   | 1.30  |
| 45102727 | 3/4"   | 1.90  |
| 45103232 | 1"     | 3.20  |
| 45104242 | 1.1/4" | 5.35  |
| 45104848 | 1.1/2" | 8.05  |
| 45106060 | 2"     | 10.60 |
| 45107676 | 2.1/2" | 25.60 |
| 45108989 | 3"     | 33.75 |
| 45100114 | 4"     | 60.05 |

## 96-Driedelige knie conisch dichtend female



Zwart - BSP female

| 6700      |        | €     |
|-----------|--------|-------|
| 49092121Z | 1/2"   | 5.40  |
| 49092727Z | 3/4"   | 6.20  |
| 49093232Z | 1"     | 9.05  |
| 49094242Z | 1.1/4" | 15.10 |
| 49094848Z | 1.1/2" | 17.75 |
| 49096060Z | 2"     | 29.95 |

Verzinkt - BSP female

| 6700     |        | €     |
|----------|--------|-------|
| 49091717 | 3/8"   | 8.25  |
| 49092121 | 1/2"   | 6.80  |
| 49092727 | 3/4"   | 7.70  |
| 49093232 | 1"     | 11.20 |
| 49094242 | 1.1/4" | 18.65 |
| 49094848 | 1.1/2" | 21.90 |
| 49096060 | 2"     | 37.05 |

## 98-Driedelige knie conisch dichtend male / female



Zwart - BSPT male/BSP female

| 6700      |        | €     |
|-----------|--------|-------|
| 49102727Z | 3/4"   | 6.90  |
| 49103232Z | 1"     | 9.60  |
| 49104242Z | 1.1/4" | 15.85 |
| 49104848Z | 1.1/2" | 19.55 |
| 49106060Z | 2"     | 31.75 |



Verzinkt - BSPT male/BSP female

| 6700     |        | €     |
|----------|--------|-------|
| 49101717 | 3/8"   | 7.30  |
| 49102121 | 1/2"   | 6.80  |
| 49102727 | 3/4"   | 8.45  |
| 49103232 | 1"     | 11.80 |
| 49104242 | 1.1/4" | 19.65 |
| 49104848 | 1.1/2" | 24.15 |
| 49106060 | 2"     | 39.40 |

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& staal

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Slangen

Compressoren

# Malleabel fitwerk



## 130-Tee female



Zwart - BSP female

| 6700      |        | €     |
|-----------|--------|-------|
| 45121313Z | 1/4"   | 1.90  |
| 45121717Z | 3/8"   | 1.65  |
| 45122121Z | 1/2"   | 1.15  |
| 45122727Z | 3/4"   | 1.90  |
| 45123232Z | 1"     | 2.70  |
| 45124242Z | 1.1/4" | 4.95  |
| 45124848Z | 1.1/2" | 7.80  |
| 45126060Z | 2"     | 11.05 |
| 45127676Z | 2.1/2" | 24.35 |
| 45128989Z | 3"     | 32.90 |
| 45120114Z | 4"     | 63.10 |

Verzinkt - BSP female

| 6700     |        | €     |
|----------|--------|-------|
| 45121313 | 1/4"   | 2.35  |
| 45121717 | 3/8"   | 2.05  |
| 45122121 | 1/2"   | 1.55  |
| 45122727 | 3/4"   | 2.35  |
| 45123232 | 1"     | 3.65  |
| 45124242 | 1.1/4" | 6.10  |
| 45124848 | 1.1/2" | 9.70  |
| 45126060 | 2"     | 13.55 |
| 45127676 | 2.1/2" | 30.30 |
| 45128989 | 3"     | 40.55 |
| 45120114 | 4"     | 78.20 |

## 130-Verloop tee female



Zwart - BSP female

| 6700      |                      | €     |
|-----------|----------------------|-------|
| 46211321Z | 1/2"-1/4"-1/2"       | 2.60  |
| 46212721Z | 1/2"-3/4"-1/2"       | 2.30  |
| 46271327Z | 3/4"-1/4"-3/4"       | 3.65  |
| 46272121Z | 3/4"-1/2"-1/2"       | 2.25  |
| 46272721Z | 3/4"-3/4"-1/2"       | 2.45  |
| 46322132Z | 1"-1/2"-1"           | 2.60  |
| 46423242Z | 1.1/4"-1"-1.1/4"     | 5.35  |
| 46482748Z | 1.1/2"-3/4"-1.1/2"   | 6.35  |
| 46483248Z | 1.1/2"-1"-1.1/2"     | 6.90  |
| 46484248Z | 1.1/2"-1.1/4"-1.1/2" | 9.30  |
| 46602160Z | 2"-1/2"-2"           | 8.70  |
| 46602760Z | 2"-3/4"-2"           | 11.40 |
| 46603260Z | 2"-1"-2"             | 8.90  |
| 46604260Z | 2"-1.1/4"-2"         | 11.20 |
| 46604860Z | 2"-1.1/2"-2"         | 13.05 |

Verzinkt - BSP female

| 6700     |                      | €     |
|----------|----------------------|-------|
| 46211321 | 1/2"-1/4"-1/2"       | 3.45  |
| 46212721 | 1/2"-3/4"-1/2"       | 2.95  |
| 46271327 | 3/4"-1/4"-3/4"       | 4.45  |
| 46271727 | 3/4"-3/8"-3/4"       | 3.30  |
| 46272127 | 3/4"-1/2"-3/4"       | 2.35  |
| 46321732 | 1"-3/8"-1"           | 5.45  |
| 46322132 | 1"-1/2"-1"           | 3.30  |
| 46322732 | 1"-3/4"-1"           | 3.55  |
| 46323221 | 1"-1"-1/2"           | 4.30  |
| 46324832 | 1"-1.1/2"-1"         | 10.00 |
| 46422142 | 1.1/4"-1/2"-1.1/4"   | 5.50  |
| 46422732 | 1.1/4"-3/4"-1"       | 7.25  |
| 46422742 | 1.1/4"-3/4"-1.1/4"   | 5.90  |
| 46482148 | 1.1/2"-1/2"-1.1/2"   | 7.50  |
| 46482748 | 1.1/2"-3/4"-1.1/2"   | 7.90  |
| 46483248 | 1.1/2"-1"-1.1/4"     | 9.70  |
| 46483248 | 1.1/2"-1"-1.1/2"     | 8.80  |
| 46484248 | 1.1/2"-1.1/4"-1.1/2" | 11.50 |
| 46486048 | 1.1/2"-2"-1.1/2"     | 15.85 |
| 46602160 | 2"-1/2"-2"           | 10.70 |
| 46602760 | 2"-3/4"-2"           | 14.05 |
| 46603260 | 2"-1"-2"             | 11.05 |
| 46604260 | 2"-1.1/4"-2"         | 14.05 |
| 46604860 | 2"-1.1/2"-2"         | 16.25 |
| 46762776 | 2.1/2"-3/4"-2.1/2"   | 22.45 |
| 46764876 | 2.1/2"-1.1/2"-2.1/2" | 26.10 |
| 46766076 | 2.1/2"-2"-2.1/2"     | 29.45 |
| 46894889 | 3"-1.1/2"-3"         | 41.20 |
| 46896089 | 3"-2"-3"             | 38.05 |
| 46897689 | 3"-2.1/2"-3"         | 45.35 |

## 165-Tee 45° female



Verzinkt - BSP female

| 6700     |        | €     |
|----------|--------|-------|
| 48122121 | 1/2"   | 8.05  |
| 48122727 | 3/4"   | 9.30  |
| 48123232 | 1"     | 13.90 |
| 48124242 | 1.1/4" | 17.15 |
| 48124848 | 1.1/2" | 23.15 |

## 180-Kruissok female



Zwart - BSP female

| 6700      |      | €    |
|-----------|------|------|
| 45322121Z | 1/2" | 3.80 |
| 45322727Z | 3/4" | 5.80 |
| 45323232Z | 1"   | 7.05 |

Verzinkt - BSP female

| 6700     |        | €     |
|----------|--------|-------|
| 45321717 | 3/8"   | 5.15  |
| 45322121 | 1/2"   | 4.95  |
| 45322727 | 3/4"   | 7.50  |
| 45323232 | 1"     | 9.40  |
| 45324242 | 1.1/4" | 12.40 |
| 45324848 | 1.1/2" | 16.70 |
| 45326060 | 2"     | 24.65 |

## 221-Knie met zijspruitstuk female



Verzinkt - BSP female

| 6700     |      | €    |
|----------|------|------|
| 49991717 | 3/8" | 6.05 |
| 49992121 | 1/2" | 4.45 |
| 49992727 | 3/4" | 6.95 |
| 49993232 | 1"   | 9.50 |

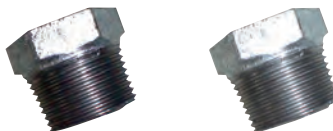
## 240-Verloopsok female



Verzinkt - BSP female

| 6700     |               | €     |
|----------|---------------|-------|
| 45071713 | 3/8"-1/4"     | 2.00  |
| 45072113 | 1/2"-1/4"     | 2.05  |
| 45072117 | 1/2"-3/8"     | 1.75  |
| 45072717 | 3/4"-3/8"     | 2.40  |
| 45072721 | 3/4"-1/2"     | 2.05  |
| 45073217 | 1"-3/8"       | 3.30  |
| 45073221 | 1"-1/2"       | 2.50  |
| 45073227 | 1"-3/4"       | 2.30  |
| 45074221 | 1.1/4"-1/2"   | 4.80  |
| 45074232 | 1.1/4"-1"     | 4.25  |
| 45074821 | 1.1/2"-1/2"   | 7.50  |
| 45074827 | 1.1/2"-3/4"   | 6.65  |
| 45074832 | 1.1/2"-1"     | 5.05  |
| 45074842 | 1.1/2"-1.1/4" | 5.65  |
| 45076021 | 2"-1/2"       | 10.25 |
| 45076027 | 2"-3/4"       | 10.70 |
| 45076032 | 2"-1"         | 10.00 |
| 45076042 | 2"-1.1/4"     | 8.80  |
| 45076048 | 2"-1.1/2"     | 8.25  |
| 45077632 | 2.1/2"-1"     | 20.15 |
| 45077660 | 2.1/2"-2"     | 22.70 |
| 45078960 | 3"-2"         | 35.30 |
| 45078976 | 3"-2.1/2"     | 40.05 |
| 45711460 | 4"-2"         | 60.80 |
| 45711489 | 4"-3"         | 65.25 |

## 241-Verloopping male / female



Zwart - BSPT male/BSP female

| 6700      |               | €    |
|-----------|---------------|------|
| 45041713Z | 3/8"-1/4"     | 1.00 |
| 45042113Z | 1/2"-1/4"     | 0.80 |
| 45042117Z | 1/2"-3/8"     | 0.75 |
| 45042713Z | 3/4"-1/4"     | 1.50 |
| 45042717Z | 3/4"-3/8"     | 1.30 |
| 45042721Z | 3/4"-1/2"     | 0.80 |
| 45043217Z | 1"-3/8"       | 1.90 |
| 45043221Z | 1"-1/2"       | 1.30 |
| 45043227Z | 1"-3/4"       | 1.15 |
| 45044221Z | 1.1/4"-1/2"   | 2.25 |
| 45044227Z | 1.1/4"-3/4"   | 1.90 |
| 45044232Z | 1.1/4"-1"     | 1.35 |
| 45044827Z | 1.1/2"-3/4"   | 2.95 |
| 45044832Z | 1.1/2"-1"     | 2.05 |
| 45044842Z | 1.1/2"-1.1/4" | 2.15 |
| 45046021Z | 2"-1/2"       | 5.65 |
| 45046027Z | 2"-3/4"       | 5.50 |
| 45046032Z | 2"-1"         | 4.55 |
| 45046042Z | 2"-1.1/4"     | 4.25 |
| 45046048Z | 2"-1.1/2"     | 4.00 |

Verzinkt - BSPT male/BSP female

| 6700     |               | €     |
|----------|---------------|-------|
| 45041713 | 3/8"-1/4"     | 1.35  |
| 45042113 | 1/2"-1/4"     | 1.00  |
| 45042117 | 1/2"-3/8"     | 1.00  |
| 45042713 | 3/4"-1/4"     | 1.85  |
| 45042717 | 3/4"-3/8"     | 1.40  |
| 45042721 | 3/4"-1/2"     | 1.15  |
| 45043217 | 1"-3/8"       | 2.30  |
| 45043221 | 1"-1/2"       | 1.60  |
| 45043227 | 1"-3/4"       | 1.40  |
| 45044217 | 1.1/4"-3/8"   | 4.30  |
| 45044221 | 1.1/4"-1/2"   | 2.70  |
| 45044227 | 1.1/4"-3/4"   | 2.30  |
| 45044232 | 1.1/4"-1"     | 1.65  |
| 45044821 | 1.1/2"-1/2"   | 3.45  |
| 45044827 | 1.1/2"-3/4"   | 3.75  |
| 45044832 | 1.1/2"-1"     | 2.50  |
| 45044842 | 1.1/2"-1.1/4" | 2.60  |
| 45046021 | 2"-1/2"       | 7.00  |
| 45046027 | 2"-3/4"       | 6.80  |
| 45046032 | 2"-1"         | 5.65  |
| 45046042 | 2"-1.1/4"     | 5.35  |
| 45046048 | 2"-1.1/2"     | 4.90  |
| 45047632 | 2.1/2"-1"     | 10.85 |
| 45047642 | 2.1/2"-1.1/4" | 12.70 |
| 45047648 | 2.1/2"-1.1/2" | 12.05 |
| 45047660 | 2.1/2"-2"     | 9.15  |
| 45048932 | 3"-1"         | 17.10 |
| 45048948 | 3"-1.1/2"     | 15.85 |
| 45048960 | 3"-2"         | 11.90 |
| 45048976 | 3"-2.1/2"     | 13.55 |
| 45411460 | 4"-2"         | 34.25 |
| 45411476 | 4"-2.1/2"     | 25.40 |
| 45411489 | 4"-3"         | 24.35 |

## 245-Verloopnippel male



Zwart - BSPT male

| 6700      |               | €    |
|-----------|---------------|------|
| 45021713Z | 3/8"-1/4"     | 1.60 |
| 45022113Z | 1/2"-1/4"     | 2.25 |
| 45022117Z | 1/2"-3/8"     | 1.90 |
| 45022717Z | 3/4"-3/8"     | 3.30 |
| 45022721Z | 3/4"-1/2"     | 1.65 |
| 45023221Z | 1"-1/2"       | 3.45 |
| 45023227Z | 1"-3/4"       | 1.90 |
| 45024232Z | 1.1/4"-1"     | 3.20 |
| 45024832Z | 1.1/2"-1"     | 7.05 |
| 45024842Z | 1.1/2"-1.1/4" | 3.80 |
| 45026032Z | 2"-1"         | 6.35 |
| 45026042Z | 2"-1.1/4"     | 8.05 |
| 45026048Z | 2"-1.1/2"     | 7.40 |

Verzinkt - BSPT male

| 6700     |               | €     |
|----------|---------------|-------|
| 45021713 | 3/8"-1/4"     | 2.05  |
| 45022113 | 1/2"-1/4"     | 2.70  |
| 45022117 | 1/2"-3/8"     | 2.30  |
| 45022717 | 3/4"-3/8"     | 4.15  |
| 45022721 | 3/4"-1/2"     | 2.15  |
| 45023217 | 1"-3/8"       | 4.05  |
| 45023221 | 1"-1/2"       | 4.15  |
| 45023227 | 1"-3/4"       | 2.30  |
| 45024221 | 1.1/4"-1/2"   | 6.40  |
| 45024227 | 1.1/4"-3/4"   | 5.45  |
| 45024232 | 1.1/4"-1"     | 3.80  |
| 45024821 | 1.1/2"-1/2"   | 6.40  |
| 45024827 | 1.1/2"-3/4"   | 5.45  |
| 45024832 | 1.1/2"-1"     | 8.90  |
| 45024842 | 1.1/2"-1.1/4" | 4.75  |
| 45026021 | 2"-1/2"       | 9.20  |
| 45026027 | 2"-3/4"       | 9.05  |
| 45026032 | 2"-1"         | 7.90  |
| 45026042 | 2"-1.1/4"     | 10.00 |
| 45026048 | 2"-1.1/2"     | 9.05  |
| 45027648 | 2.1/2"-1.1/2" | 13.35 |
| 45027660 | 2.1/2"-2"     | 22.45 |
| 45028960 | 3"-2"         | 27.30 |
| 45028976 | 3"-2.1/2"     | 33.85 |

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# Malleabel fitwerk



Hoofdstuk 11 – Malleabele fittingen & staal

## 246-Verloop soknippel



Verzinkt - BSPT male/BSP female

| 6700     |               | €     |
|----------|---------------|-------|
| 45081713 | 3/8"-1/4"     | 1.85  |
| 45082113 | 1/2"-1/4"     | 2.25  |
| 45082117 | 1/2"-3/8"     | 2.00  |
| 45082717 | 3/4"-3/8"     | 3.20  |
| 45082721 | 3/4"-1/2"     | 2.05  |
| 45083221 | 1"-1/2"       | 3.20  |
| 45083227 | 1"-3/4"       | 3.45  |
| 45084227 | 1.1/4"-3/4"   | 6.05  |
| 45084232 | 1.1/4"-1"     | 3.80  |
| 45084832 | 1.1/2"-1"     | 7.15  |
| 45084842 | 1.1/2"-1.1/4" | 6.20  |
| 45086042 | 2"-1.1/4"     | 10.15 |
| 45086048 | 2"-1.1/2"     | 10.70 |

## 270-Sok female



Zwart - BSP female

| 6700      |        | €    |
|-----------|--------|------|
| 45061313Z | 1/4"   | 1.30 |
| 45061717Z | 3/8"   | 1.15 |
| 45062121Z | 1/2"   | 1.10 |
| 45062727Z | 3/4"   | 1.30 |
| 45063232Z | 1"     | 1.60 |
| 45064242Z | 1.1/4" | 2.60 |
| 45064848Z | 1.1/2" | 3.65 |
| 45066060Z | 2"     | 5.65 |

Verzinkt - BSP female

| 6700     |        | €     |
|----------|--------|-------|
| 45061313 | 1/4"   | 1.65  |
| 45061717 | 3/8"   | 1.40  |
| 45062121 | 1/2"   | 1.30  |
| 45062727 | 3/4"   | 1.60  |
| 45063232 | 1"     | 2.05  |
| 45064242 | 1.1/4" | 3.30  |
| 45064848 | 1.1/2" | 4.65  |
| 45066060 | 2"     | 7.00  |
| 45067676 | 2.1/2" | 19.15 |
| 45068989 | 3"     | 23.05 |
| 45060114 | 4"     | 52.85 |

## 280-Dubbele nippel male



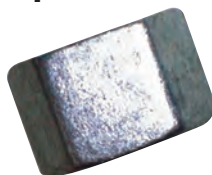
Zwart - BSPT male

| 6700      |        | €     |
|-----------|--------|-------|
| 45001313Z | 1/4"   | 1.35  |
| 45001717Z | 3/8"   | 1.60  |
| 45002121Z | 1/2"   | 0.85  |
| 45002727Z | 3/4"   | 1.15  |
| 45003232Z | 1"     | 1.55  |
| 45004242Z | 1.1/4" | 2.60  |
| 45004848Z | 1.1/2" | 3.20  |
| 45006060Z | 2"     | 5.65  |
| 45007676Z | 2.1/2" | 9.85  |
| 45008989Z | 3"     | 11.80 |

Verzinkt - BSPT male

| 6700     |        | €     |
|----------|--------|-------|
| 45001313 | 1/4"   | 1.65  |
| 45001717 | 3/8"   | 2.00  |
| 45002121 | 1/2"   | 1.30  |
| 45002727 | 3/4"   | 1.40  |
| 45003232 | 1"     | 2.00  |
| 45004242 | 1.1/4" | 3.30  |
| 45004848 | 1.1/2" | 3.80  |
| 45006060 | 2"     | 7.00  |
| 45007676 | 2.1/2" | 12.05 |
| 45008989 | 3"     | 14.60 |
| 45000114 | 4"     | 52.70 |

## 300-Kap zeskant female



Zwart - BSP female

| 6700      |        | €     |
|-----------|--------|-------|
| 45261300Z | 1/4"   | 0.95  |
| 45261700Z | 3/8"   | 0.85  |
| 45262100Z | 1/2"   | 1.10  |
| 45262700Z | 3/4"   | 1.30  |
| 45263200Z | 1"     | 1.40  |
| 45264200Z | 1.1/4" | 2.25  |
| 45264800Z | 1.1/2" | 2.80  |
| 45266000Z | 2"     | 5.05  |
| 45267600Z | 2.1/2" | 9.40  |
| 45268900Z | 3"     | 10.25 |
| 45261140Z | 4"     | 22.20 |

## 290-Plug met vierkante kop male



Zwart - BSPT male

| 6700      |        | €     |
|-----------|--------|-------|
| 45181300Z | 1/4"   | 0.70  |
| 45181700Z | 3/8"   | 0.65  |
| 45182100Z | 1/2"   | 0.65  |
| 45182700Z | 3/4"   | 0.85  |
| 45183200Z | 1"     | 1.10  |
| 45184200Z | 1.1/4" | 1.85  |
| 45184800Z | 1.1/2" | 2.25  |
| 45186000Z | 2"     | 4.05  |
| 45187600Z | 2.1/2" | 8.45  |
| 45188900Z | 3"     | 11.05 |
| 45181140Z | 4"     | 19.00 |

Verzinkt - BSPT male

| 6700     |        | €     |
|----------|--------|-------|
| 45181300 | 1/4"   | 0.95  |
| 45181700 | 3/8"   | 0.80  |
| 45182100 | 1/2"   | 0.85  |
| 45182700 | 3/4"   | 1.15  |
| 45183200 | 1"     | 1.30  |
| 45184200 | 1.1/4" | 2.25  |
| 45184800 | 1.1/2" | 2.70  |
| 45186000 | 2"     | 5.05  |
| 45187600 | 2.1/2" | 10.60 |
| 45188900 | 3"     | 13.55 |
| 45181140 | 4"     | 23.95 |

Verzinkt - BSP female

| 6700     |        | €     |
|----------|--------|-------|
| 45261300 | 1/4"   | 1.30  |
| 45261700 | 3/8"   | 1.30  |
| 45262100 | 1/2"   | 1.35  |
| 45262700 | 3/4"   | 1.60  |
| 45263200 | 1"     | 1.80  |
| 45264200 | 1.1/4" | 2.80  |
| 45264800 | 1.1/2" | 3.50  |
| 45266000 | 2"     | 6.45  |
| 45267600 | 2.1/2" | 11.75 |
| 45268900 | 3"     | 12.80 |
| 45261140 | 4"     | 27.65 |

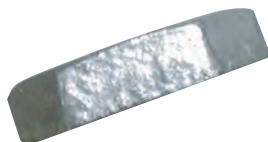
## 301-Kap rond female



Verzinkt - BSP female

| 6700     |        | €    |
|----------|--------|------|
| 45272100 | 1/2"   | 1.80 |
| 45272700 | 3/4"   | 1.65 |
| 45273200 | 1"     | 2.05 |
| 45274200 | 1.1/4" | 3.10 |
| 45274800 | 1.1/2" | 3.85 |
| 45276000 | 2"     | 6.80 |

## 310-Sluitmoer zeskant



Verzinkt - BSP female

| 6700     |        | €    |
|----------|--------|------|
| 45301700 | 3/8"   | 1.30 |
| 45302100 | 1/2"   | 0.95 |
| 45302700 | 3/4"   | 1.00 |
| 45303200 | 1"     | 1.35 |
| 45304200 | 1.1/4" | 2.15 |
| 45304800 | 1.1/2" | 2.35 |
| 45306000 | 2"     | 4.90 |

## 340-Driedelige koppeling conisch dichtend female



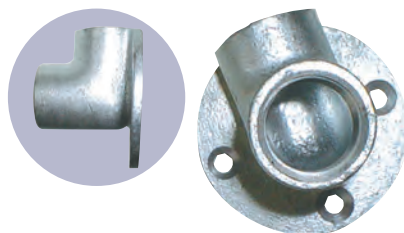
Zwart - BSP female

| 6700      |        | €     |
|-----------|--------|-------|
| 46061717Z | 3/8"   | 4.90  |
| 46062121Z | 1/2"   | 4.55  |
| 46062727Z | 3/4"   | 4.75  |
| 46063232Z | 1"     | 5.50  |
| 46064242Z | 1.1/4" | 9.05  |
| 46064848Z | 1.1/2" | 10.60 |
| 46066060Z | 2"     | 17.65 |
| 46067676Z | 2.1/2" | 38.30 |
| 46068989Z | 3"     | 46.80 |

Verzinkt - BSP female

| 6700     |        | €      |
|----------|--------|--------|
| 46061717 | 3/8"   | 6.05   |
| 46062121 | 1/2"   | 5.75   |
| 46062727 | 3/4"   | 6.00   |
| 46063232 | 1"     | 6.80   |
| 46064242 | 1.1/4" | 11.40  |
| 46064848 | 1.1/2" | 13.35  |
| 46066060 | 2"     | 21.90  |
| 46067676 | 2.1/2" | 47.30  |
| 46068989 | 3"     | 65.10  |
| 46061140 | 4"     | 131.05 |

## 471-Muurplaat female



Verzinkt - BSP female

| 6700     |      | €     |
|----------|------|-------|
| 45472121 | 1/2" | 6.10  |
| 45472727 | 3/4" | 12.00 |

## 341-Driedelige koppeling conisch dichtend male / female



Zwart - BSPT male/BSP female

| 6700      |        | €     |
|-----------|--------|-------|
| 47081717Z | 3/8"   | 4.25  |
| 47082121Z | 1/2"   | 4.10  |
| 47082727Z | 3/4"   | 4.95  |
| 47083232Z | 1"     | 6.10  |
| 47084242Z | 1.1/4" | 9.70  |
| 47084848Z | 1.1/2" | 12.50 |
| 47086060Z | 2"     | 19.65 |
| 47087676Z | 2.1/2" | 41.75 |
| 47088989Z | 3"     | 65.25 |

Verzinkt - BSPT male/BSP female

| 6700     |        | €      |
|----------|--------|--------|
| 47081717 | 3/8"   | 5.35   |
| 47082121 | 1/2"   | 5.35   |
| 47082727 | 3/4"   | 6.55   |
| 47083232 | 1"     | 7.70   |
| 47084242 | 1.1/4" | 11.90  |
| 47086060 | 2"     | 24.15  |
| 47084848 | 1.1/2" | 15.25  |
| 47087676 | 2.1/2" | 51.60  |
| 47088989 | 3"     | 80.75  |
| 47080114 | 4"     | 145.15 |

## 529A-Soknippel male / female



Verzinkt - BSPT male/BSP female

| 6700     |      | €    |
|----------|------|------|
| 46082121 | 1/2" | 2.15 |
| 46082727 | 3/4" | 3.00 |
| 46083232 | 1"   | 4.75 |

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fittingen  
& staal

Ringleiding-  
systemen

Slangen







Compressoren

# Pijpnippels - staal

## 23-Pijpnippel male - zwart



DIN 2982 - BSPT male




| MALZ      |  |  | €    | MALZ      |  |  | €    | MALZ      |  |  | €     |
|-----------|---|---|------|-----------|---|---|------|-----------|---|---|-------|
| 45313040Z | 1/4"  | 40  | 1.90 | 45327060Z | 3/4"  | 60  | 1.15 | 45348180Z | 1,1/2"  | 180   | 4.75  |
| 45313060Z | 1/4"  | 60  | 2.25 | 45327080Z | 3/4"  | 80  | 1.45 | 45348200Z | 1,1/2"  | 200   | 5.15  |
| 45313080Z | 1/4"  | 80  | 2.50 | 45327100Z | 3/4"  | 100   | 1.70 | 45348250Z | 1,1/2"  | 250   | 6.45  |
| 45313100Z | 1/4"  | 100   | 2.70 | 45327120Z | 3/4"  | 120   | 1.90 | 45348300Z | 1,1/2"  | 300   | 7.40  |
| 45313120Z | 1/4"  | 120   | 3.15 | 45327150Z | 3/4"  | 150   | 2.00 | 45360080Z | 2"  | 80  | 4.50  |
| 45313150Z | 1/4"  | 150   | 3.85 | 45327180Z | 3/4"  | 180   | 2.40 | 45360100Z | 2"  | 100   | 4.85  |
| 45313180Z | 1/4"  | 180   | 4.90 | 45327200Z | 3/4"  | 200   | 2.65 | 45360120Z | 2"  | 120   | 5.15  |
| 45313200Z | 1/4"  | 200   | 5.50 | 45327250Z | 3/4"  | 250   | 3.05 | 45360150Z | 2"  | 150   | 5.90  |
| 45313250Z | 1/4"  | 250   | 6.25 | 45327300Z | 3/4"  | 300   | 3.70 | 45360180Z | 2"  | 180   | 6.60  |
| 45313300Z | 1/4"  | 300   | 7.10 | 45332040Z | 1"  | 40  | 1.45 | 45360200Z | 2"  | 200   | 7.05  |
| 45317030Z | 3/8"  | 30  | 1.90 | 45332060Z | 1"  | 60  | 1.50 | 45360250Z | 2"  | 250   | 9.05  |
| 45317040Z | 3/8"  | 40  | 1.70 | 45332080Z | 1"  | 80  | 1.80 | 45360300Z | 2"  | 300   | 10.65 |
| 45317060Z | 3/8"  | 60  | 1.90 | 45332100Z | 1"  | 100   | 2.00 | 45376100Z | 2,1/2"  | 100   | 8.75  |
| 45317080Z | 3/8"  | 80  | 2.00 | 45332120Z | 1"  | 120   | 2.20 | 45376120Z | 2,1/2"  | 120   | 9.30  |
| 45317100Z | 3/8"  | 100   | 2.20 | 45332150Z | 1"  | 150   | 2.50 | 45376150Z | 2,1/2"  | 150   | 10.85 |
| 45317120Z | 3/8"  | 120   | 2.40 | 45332180Z | 1"  | 180   | 3.15 | 45376180Z | 2,1/2"  | 180   | 11.65 |
| 45317150Z | 3/8"  | 150   | 2.95 | 45332200Z | 1"  | 200   | 3.85 | 45376200Z | 2,1/2"  | 200   | 12.85 |
| 45317180Z | 3/8"  | 180   | 3.45 | 45332250Z | 1"  | 250   | 4.05 | 45376250Z | 2,1/2"  | 250   | 16.00 |
| 45317200Z | 3/8"  | 200   | 4.05 | 45332300Z | 1"  | 300   | 4.90 | 45376300Z | 2,1/2"  | 300   | 17.90 |
| 45317250Z | 3/8"  | 250   | 5.00 | 45342060Z | 1,1/4"  | 60  | 2.35 | 45389100Z | 3"  | 100   | 11.65 |
| 45317300Z | 3/8"  | 300   | 5.90 | 45342080Z | 1,1/4"  | 80  | 2.40 | 45389120Z | 3"  | 120   | 12.75 |
| 45321030Z | 1/2"  | 30  | 2.00 | 45342100Z | 1,1/4"  | 100   | 2.50 | 45389150Z | 3"  | 150   | 14.25 |
| 45321040Z | 1/2"  | 40  | 0.95 | 45342120Z | 1,1/4"  | 120   | 2.65 | 45389180Z | 3"  | 180   | 15.35 |
| 45321060Z | 1/2"  | 60  | 1.05 | 45342150Z | 1,1/4"  | 150   | 3.15 | 45389200Z | 3"  | 200   | 16.50 |
| 45321080Z | 1/2"  | 80  | 1.15 | 45342180Z | 1,1/4"  | 180   | 3.95 | 45389250Z | 3"  | 250   | 19.30 |
| 45321100Z | 1/2"  | 100   | 1.40 | 45342200Z | 1,1/4"  | 200   | 5.00 | 45389300Z | 3"  | 300   | 21.10 |
| 45321120Z | 1/2"  | 120   | 1.45 | 45342250Z | 1,1/4"  | 250   | 5.65 | 45314100Z | 4"  | 100   | 18.20 |
| 45321150Z | 1/2"  | 150   | 1.90 | 45342300Z | 1,1/4"  | 300   | 6.25 | 45314120Z | 4"  | 120   | 19.20 |
| 45321180Z | 1/2"  | 180   | 2.25 | 45348060Z | 1,1/2"  | 60  | 2.65 | 45314150Z | 4"  | 150   | 21.40 |
| 45321200Z | 1/2"  | 200   | 2.30 | 45348080Z | 1,1/2"  | 80  | 2.70 | 45314180Z | 4"  | 180   | 23.60 |
| 45321250Z | 1/2"  | 250   | 2.65 | 45348100Z | 1,1/2"  | 100   | 3.05 | 45314200Z | 4"  | 200   | 26.55 |
| 45321300Z | 1/2"  | 300   | 3.05 | 45348120Z | 1,1/2"  | 120   | 3.30 | 45314250Z | 4"  | 250   | 29.00 |
| 45327040Z | 3/4"  | 40  | 1.05 | 45348150Z | 1,1/2"  | 150   | 3.95 | 45314300Z | 4"  | 300   | 35.30 |

# 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      | 2.70 | 45327040 | 3/4"  | 40      | 1.90 | 45348180 | 1,1/2"  | 180     | 5.35  |
| 45311080 | 1/8"  | 80      | 3.15 | 45327060 | 3/4"  | 60      | 1.40 | 45348200 | 1,1/2"  | 200     | 5.90  |
| 45313040 | 1/4"  | 40      | 2.00 | 45327080 | 3/4"  | 80      | 1.50 | 45348250 | 1,1/2"  | 250     | 7.40  |
| 45313060 | 1/4"  | 60      | 2.35 | 45327100 | 3/4"  | 100     | 1.70 | 45348300 | 1,1/2"  | 300     | 8.60  |
| 45313080 | 1/4"  | 80      | 2.65 | 45327120 | 3/4"  | 120     | 2.00 | 45360080 | 2"  | 80      | 4.85  |
| 45313100 | 1/4"  | 100     | 3.05 | 45327150 | 3/4"  | 150     | 2.30 | 45360100 | 2"  | 100     | 5.35  |
| 45313120 | 1/4"  | 120     | 3.50 | 45327180 | 3/4"  | 180     | 2.70 | 45360120 | 2"  | 120     | 5.65  |
| 45313150 | 1/4"  | 150     | 4.15 | 45327200 | 3/4"  | 200     | 3.00 | 45360150 | 2"  | 150     | 6.35  |
| 45313180 | 1/4"  | 180     | 4.85 | 45327250 | 3/4"  | 250     | 3.40 | 45360180 | 2"  | 180     | 7.40  |
| 45313200 | 1/4"  | 200     | 5.65 | 45327300 | 3/4"  | 300     | 4.50 | 45360200 | 2"  | 200     | 8.35  |
| 45313250 | 1/4"  | 250     | 6.45 | 45332040 | 1"  | 40      | 1.70 | 45360250 | 2"  | 250     | 10.25 |
| 45313300 | 1/4"  | 300     | 7.05 | 45332060 | 1"  | 60      | 1.80 | 45360300 | 2"  | 300     | 11.95 |
| 45317030 | 3/8"  | 30      | 1.90 | 45332080 | 1"  | 80      | 2.00 | 45376100 | 2,1/2"  | 100     | 9.70  |
| 45317040 | 3/8"  | 40      | 1.90 | 45332100 | 1"  | 100     | 2.35 | 45376120 | 2,1/2"  | 120     | 10.15 |
| 45317060 | 3/8"  | 60      | 2.00 | 45332120 | 1"  | 120     | 2.45 | 45376150 | 2,1/2"  | 150     | 11.95 |
| 45317080 | 3/8"  | 80      | 2.20 | 45332150 | 1"  | 150     | 2.80 | 45376180 | 2,1/2"  | 180     | 12.85 |
| 45317100 | 3/8"  | 100     | 2.35 | 45332180 | 1"  | 180     | 3.60 | 45376200 | 2,1/2"  | 200     | 14.15 |
| 45317120 | 3/8"  | 120     | 2.65 | 45332200 | 1"  | 200     | 4.05 | 45376250 | 2,1/2"  | 250     | 17.25 |
| 45317150 | 3/8"  | 150     | 3.15 | 45332250 | 1"  | 250     | 4.85 | 45376300 | 2,1/2"  | 300     | 19.70 |
| 45317180 | 3/8"  | 180     | 3.70 | 45332300 | 1"  | 300     | 5.80 | 45389100 | 3"  | 100     | 12.75 |
| 45317200 | 3/8"  | 200     | 4.50 | 45342060 | 1,1/4"  | 60      | 2.40 | 45389120 | 3"  | 120     | 13.75 |
| 45317250 | 3/8"  | 250     | 5.40 | 45342080 | 1,1/4"  | 80      | 2.45 | 45389150 | 3"  | 150     | 14.95 |
| 45317300 | 3/8"  | 300     | 6.85 | 45342100 | 1,1/4"  | 100     | 2.65 | 45389180 | 3"  | 180     | 16.70 |
| 45321030 | 1/2"  | 30      | 2.00 | 45342120 | 1,1/4"  | 120     | 2.80 | 45389200 | 3"  | 200     | 18.75 |
| 45321040 | 1/2"  | 40      | 1.00 | 45342150 | 1,1/4"  | 150     | 3.60 | 45389250 | 3"  | 250     | 22.30 |
| 45321060 | 1/2"  | 60      | 1.30 | 45342180 | 1,1/4"  | 180     | 4.50 | 45389300 | 3"  | 300     | 25.35 |
| 45321080 | 1/2"  | 80      | 1.40 | 45342200 | 1,1/4"  | 200     | 5.00 | 45314100 | 4"  | 100     | 18.95 |
| 45321100 | 1/2"  | 100     | 1.45 | 45342250 | 1,1/4"  | 250     | 6.30 | 45314120 | 4"  | 120     | 21.30 |
| 45321120 | 1/2"  | 120     | 1.70 | 45342300 | 1,1/4"  | 300     | 7.10 | 45314150 | 4"  | 150     | 24.30 |
| 45321150 | 1/2"  | 150     | 2.00 | 45348060 | 1,1/2"  | 60      | 2.70 | 45314180 | 4"  | 180     | 26.55 |
| 45321180 | 1/2"  | 180     | 2.45 | 45348080 | 1,1/2"  | 80      | 2.95 | 45314200 | 4"  | 200     | 28.90 |
| 45321200 | 1/2"  | 200     | 2.70 | 45348100 | 1,1/2"  | 100     | 3.15 | 45314250 | 4"  | 250     | 31.35 |
| 45321250 | 1/2"  | 250     | 3.15 | 45348120 | 1,1/2"  | 120     | 3.45 | 45314300 | 4"  | 300     | 38.05 |
| 45321300 | 1/2"  | 300     | 3.60 | 45348150 | 1,1/2"  | 150     | 4.40 |          |   |         |       |

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# Lasfittingen

**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 | mm  | €     |
|-----------|--------|-------|-----|-------|
| 45192100Z | 1/2"   | 21,3  | 2,0 | 2.55  |
| 45192700Z | 3/4"   | 26,9  | 2,3 | 2.60  |
| 45193200Z | 1"     | 33,7  | 2,6 | 3.00  |
| 45194200Z | 1.1/4" | 42,4  | 2,6 | 3.50  |
| 45194800Z | 1.1/2" | 48,3  | 2,6 | 4.25  |
| 45196000Z | 2"     | 60,3  | 2,9 | 6.85  |
| 45197600Z | 2.1/2" | 76,1  | 2,9 | 9.40  |
| 45198600Z | 3"     | 88,9  | 3,2 | 13.75 |
| 45198700Z | 101    | 101,6 | 3,6 | 22.30 |
| 45198900Z | 108    | 108,0 | 3,6 | 23.15 |
| 45191140Z | 4"     | 114,3 | 3,6 | 24.30 |

## Lasbocht 45°



Zwart DIN 2605 (Staal 37.0.S)

| MALZ      |        | OD mm | mm  | €     |
|-----------|--------|-------|-----|-------|
| 46192100Z | 1/2"   | 21,3  | 2,0 | 3.90  |
| 46192700Z | 3/4"   | 26,9  | 2,3 | 3.90  |
| 46193200Z | 1"     | 33,7  | 2,6 | 4.00  |
| 46194200Z | 1.1/4" | 42,4  | 2,6 | 4.75  |
| 46194800Z | 1.1/2" | 48,3  | 2,6 | 5.95  |
| 46194900Z | 51     | 51,0  | 2,6 | 7.85  |
| 46196000Z | 2"     | 60,3  | 2,9 | 9.05  |
| 46197600Z | 2.1/2" | 76,1  | 2,9 | 13.25 |
| 46198600Z | 3"     | 88,9  | 3,2 | 18.65 |
| 46191140Z | 4"     | 114,3 | 3,6 | 32.75 |

## 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   | 2.20  |
| 45164200Z | 1.1/4" | 48,7  | 48   | 2.80  |
| 45164800Z | 1.1/2" | 55,3  | 48   | 3.45  |
| 45166000Z | 2"     | 66,2  | 56   | 5.15  |
| 45167600Z | 2.1/2" | 82,6  | 65   | 8.90  |
| 45168900Z | 3"     | 95,5  | 71   | 13.20 |
| 45161140Z | 4"     | 122,0 | 83   | 22.50 |

# Sokken

## Gesmede sok egaal



Gegalvaniseerd - BSP female

| MALF       | BSPP   | €     |
|------------|--------|-------|
| MIWRSG-18  | 1/8"   | 1.40  |
| MIWRSG-14  | 1/4"   | 1.55  |
| MIWRSG-38  | 3/8"   | 1.75  |
| MIWRSG-12  | 1/2"   | 1.85  |
| MIWRSG-34  | 3/4"   | 2.10  |
| MIWRSG-1   | 1"     | 3.50  |
| MIWRSG-114 | 1.1/4" | 5.45  |
| MIWRSG-112 | 1.1/2" | 5.85  |
| MIWRSG-2   | 2"     | 9.10  |
| MIWRSG-212 | 2.1/2" | 25.60 |
| MIWRSG-3   | 3"     | 41.70 |
| MIWRSG-4   | 4"     | 66.05 |



Zwart - BSP female

| MALF        | BSPP   | €     |
|-------------|--------|-------|
| MIWRSB-18N  | 1/8"   | 1.25  |
| MIWRSB-14N  | 1/4"   | 1.40  |
| MIWRSB-38N  | 3/8"   | 1.55  |
| MIWRSB-12N  | 1/2"   | 1.65  |
| MIWRSB-34N  | 3/4"   | 2.10  |
| MIWRSB-1N   | 1"     | 3.35  |
| MIWRSB-114N | 1.1/4" | 4.80  |
| MIWRSB-112N | 1.1/2" | 6.65  |
| MIWRSB-2N   | 2"     | 9.80  |
| MIWRSB-212N | 2.1/2" | 13.90 |
| MIWRSB-3N   | 3"     | 21.70 |
| MIWRSB-4N   | 4"     | 36.40 |

## 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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## 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      | BSP    | €      |
|-----------|--------|--------|
| 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     | BSP    | €      |
|----------|--------|--------|
| 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      | BSPT/BSP | €     |
|-----------|----------|-------|
| 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     | BSPT/BSP | €     |
|----------|----------|-------|
| 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        | BSP A  | BSP 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       | BSP A  | BSP 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      | BSPP   | €      |
|-----------|--------|--------|
| 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     | BSPP   | €     |
|----------|--------|-------|
| 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



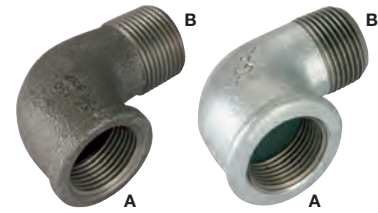
Zwart - BSPT male/BSP female

| 0217      |        | €      |
|-----------|--------|--------|
| 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     |        | €     |
|----------|--------|-------|
| 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 A | BSPP B | €     |
|-------------|--------|--------|-------|
| GF92-34-12N | 3/4"   | 1/2"   | 13.30 |
| GF92-1-34N  | 1"     | 3/4"   | 13.00 |

Verzinkt - BSPT male/BSP female

| 0217       | BSPT A | BSPP B | €     |
|------------|--------|--------|-------|
| 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      | BSPP   | €     |
|-----------|--------|-------|
| 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     | BSPP   | €      |
|----------|--------|--------|
| 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 |

KELM™  
pneumatiek

Hydrauliek

Snel-  
koppelingen

Afsluiters

Roestvast  
staal

Fittingen

Lucht-  
conditionering

Gereedschap

Pneumatiek

Diversen

Malleabele  
fittingen  
& staal

Ringleiding-  
systemen

Slangen

Compressoren



# Malleabel fitwerk



# +GF+

Hoofdstuk 11 – Malleabele fittingen & staal

## 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"   | 4.60   |
| 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"   | 29.00 |
| 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 |

## 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   |
| GF130-1-12-11N    | 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   |
| GF130-1-34-11N    | 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  |
| GF130-114-1-11N   | 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  |
| GF130-112-1-11N   | 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  |
| GF130-112-114-11N | 1.1/2"    | 1"        | 1.1/4"    | 20.05  |
| GF130-112114114N  | 1.1/2"    | 1.1/4"    | 1.1/4"    | 24.55  |
| GF130-2-12-21N    | 2"        | 2"        | 1/2"      | 75.50  |
| GF130-2-34-21N    | 2"        | 2"        | 3/4"      | 47.95  |
| GF130-2-1-21N     | 2"        | 2"        | 1"        | 46.25  |
| GF130-2-112-11N   | 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  |
| GF130-2-112-21N   | 2"        | 2"        | 1.1/2"    | 137.45 |
| GF130-212112212N  | 2.1/2"    | 2.1/2"    | 1.1/2"    | 160.60 |
| GF130-212-2-21N   | 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   |
| GF130-1-12-11    | 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  |
| GF130-1-34-11    | 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  |
| GF130-114-1-11   | 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  |
| GF130-112-1-11   | 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  |
| GF130-112-114-11 | 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



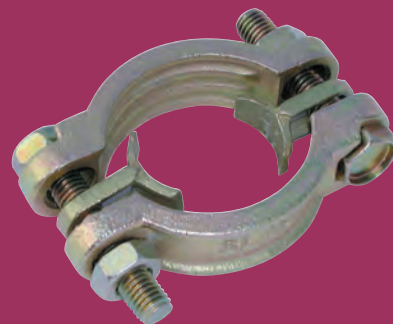
Zwart - BSP female

| 0217       | BSPP   | €      |
|------------|--------|--------|
| GF132-12N  | 1/2"   | 20.90  |
| GF132-34N  | 3/4"   | 22.70  |
| GF132-11N  | 1"     | 36.45  |
| GF132-114N | 1.1/4" | 62.70  |
| GF132-112N | 1.1/2" | 79.00  |
| GF132-21N  | 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



# Malleabel fitwerk



## 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 |

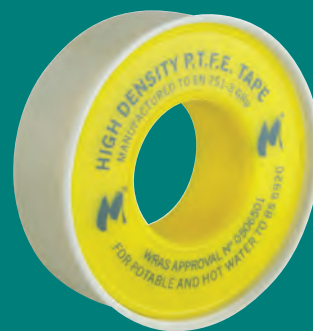


Verzinkt - BSP female

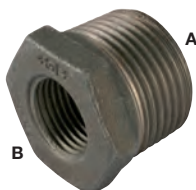
| 0217          | BSP    | BSP    | €      |
|---------------|--------|--------|--------|
| GF240-14-18 * | 1/4"   | 1/8"   | 5.85   |
| GF240-38-14 * | 3/8"   | 1/4"   | 5.25   |
| GF240-12-14   | 1/2"   | 1/4"   | 5.60   |
| GF240-12-38   | 1/2"   | 3/8"   | 4.50   |
| GF240-34-38   | 3/4"   | 3/8"   | 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"     | 31.80  |
| 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

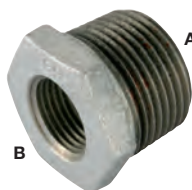


## 241-Verloopping male / female



Zwart - BSPT male/BSP female

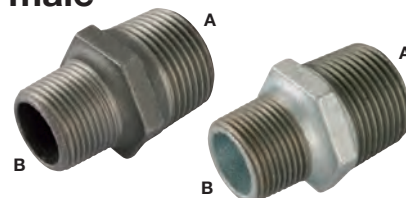
| 0217           | BSPT   | BSPP   | €     |
|----------------|--------|--------|-------|
| GF241-14-18N * | 1/4"   | 1/8"   | 3.75  |
| GF241-38-18N * | 3/8"   | 1/8"   | 3.75  |
| GF241-38-14N * | 3/8"   | 1/4"   | 2.75  |
| GF241-12-18N   | 1/2"   | 1/8"   | 3.50  |
| GF241-12-14N   | 1/2"   | 1/4"   | 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"   | 3/4"   | 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   | BSPP   | €     |
|---------------|--------|--------|-------|
| 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"   | 3/4"   | 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-Verlooppnippel male



Zwart - BSPT male

| 0217           | BSPT   | BSPT   | €     |
|----------------|--------|--------|-------|
| 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   | BSPT   | €     |
|---------------|--------|--------|-------|
| GF245-14-18 * | 1/4"   | 1/8"   | 5.85  |
| GF245-38-14 * | 3/8"   | 1/4"   | 5.65  |
| GF245-12-14   | 1/2"   | 1/4"   | 7.00  |
| 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.

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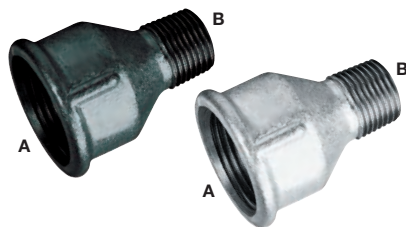
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## 246-Verloop soknippel male / female



Zwart - BSPT male/BSP female

| 0217         | BSPP A | BSPT 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 A | BSPT 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"     | 21.75  |
| 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.

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## 290-Plug met vierkante kop male



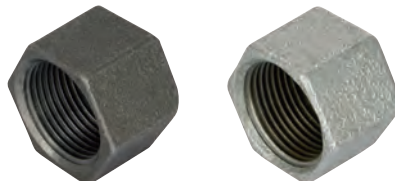
Zwart - BSPT male

| 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       |        | €     |
|------------|--------|-------|
| 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      |        | €     |
|-----------|--------|-------|
| 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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# Malleabel fitwerk



Hoofdstuk 11 – Malleabele fittingen & staal

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## 330-Driedelige koppeling met vlakke dichting female



Zwart - BSP female

0217



|            |        |       |
|------------|--------|-------|
| GF330-12N  | 1/2"   | 9.35  |
| 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 |

## 341-Driedelige koppeling conisch dichtend male / female



Zwart - BSPT male/BSP female

0217



|            |        |        |
|------------|--------|--------|
| 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 |

Verzinkt - BSPT male/BSP female

0217



|           |        |        |
|-----------|--------|--------|
| GF341-14  | 1/4"   | 20.20  |
| GF341-38  | 3/8"   | 15.80  |
| GF341-12  | 1/2"   | 13.95  |
| GF341-34  | 3/4"   | 15.95  |
| GF341-1   | 1"     | 20.95  |
| GF341-114 | 1.1/4" | 31.30  |
| GF341-112 | 1.1/2" | 40.25  |
| GF341-2   | 2"     | 64.10  |
| GF341-212 | 2.1/2" | 140.10 |
| GF341-3   | 3"     | 219.05 |

Verzinkt - BSP female

0217



|           |        |       |
|-----------|--------|-------|
| 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 |

## 340-Driedelige koppeling conisch dichtend female



Zwart - BSP female

0217



|            |        |        |
|------------|--------|--------|
| 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



|           |        |        |
|-----------|--------|--------|
| 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 |

## 342-Driedelige koppeling met bolronde dichting female



Zwart - BSP female

0217



|            |        |        |
|------------|--------|--------|
| 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



|           |        |        |
|-----------|--------|--------|
| 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 |

## 342a-Driedelige koppeling met bolronde dichting female



Zwart - BSP female

0217



|             |        |        |
|-------------|--------|--------|
| 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



|            |        |        |
|------------|--------|--------|
| 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 |

## Gelaste verzinkte gasbuizen




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

**Let op:** afwijkende transportkosten van toepassing



**Maximale werkdruk:**  
25 bar

Gladde einden - 6 meter lengte - DIN 2440

| GASB    |  |  |  | €      |
|---------|---|---|---|--------|
| 9700017 | 3/8"  | 2.32  | 17.2  | 25.35  |
| 9700021 | 1/2"  | 2.65  | 21.3  | 31.00  |
| 9700027 | 3/4"  | 2.65  | 26.9  | 37.30  |
| 9700032 | 1"  | 3.25  | 33.7  | 57.40  |
| 9700042 | 1.1/4"  | 3.25  | 42.4  | 73.70  |
| 9700048 | 1.1/2"  | 3.25  | 48.3  | 84.60  |
| 9700060 | 2"  | 3.65  | 60.3  | 119.60 |
| 9700076 | 2.1/2"  | 3.65  | 76.1  | 159.20 |
| 9700089 | 3"  | 4.05  | 88.9  | 194.75 |
| 9700114 | 4"  | 4.5   | 114.3   | 307.25 |



KELM™  
pneumatiek

Hydrauliek

Snel-  
koppelingen

Afsluiters

Roestvast  
staal

Fittingen

Lucht-  
conditionering

Gereedschap

Pneumatiek

Diversen

Malleabele  
fittingen  
& staal

Ringleiding-  
systemen

Slangen

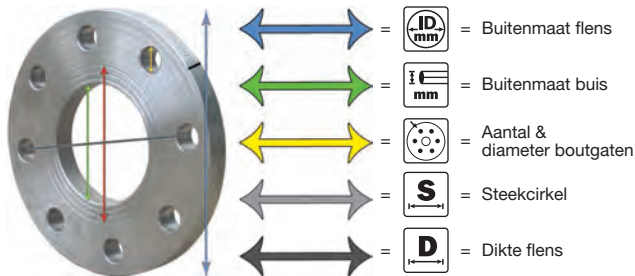
Compressoren

Voor hydrauliekbuis  
zie hoofdstuk 2





# 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 normering EN1092-1 (voorheen DIN 2576)

Blindflenzen staal 37, volgens normering EN1092-5 (voorheen DIN 2527)

## Draadflenzen staal DIN 2566



Verzinkt - DIN 2566 ST37 - 16 bar

|                 | FLEN                  | S   | D  | mm     | ID  | mm    | mm       | mm           | mm | mm | mm | € |
|-----------------|-----------------------|-----|----|--------|-----|-------|----------|--------------|----|----|----|---|
| Hydrauliek      | <b>DN15-DF16B-12</b>  | 65  | 14 | 1/2"   | 95  | 21,3  | 4 x 14mm | <b>6.65</b>  |    |    |    |   |
|                 | <b>DN20-DF16B-34</b>  | 75  | 16 | 3/4"   | 105 | 26,9  | 4 x 14mm | <b>8.20</b>  |    |    |    |   |
| Snelkoppelingen | <b>DN25-DF16B-1</b>   | 85  | 16 | 1"     | 115 | 33,7  | 4 x 14mm | <b>9.80</b>  |    |    |    |   |
|                 | <b>DN32-DF16B-114</b> | 100 | 16 | 1.1/4" | 140 | 42,4  | 4 x 18mm | <b>16.65</b> |    |    |    |   |
| Afsluiters      | <b>DN40-DF16B-112</b> | 110 | 16 | 1.1/2" | 150 | 48,3  | 4 x 18mm | <b>16.25</b> |    |    |    |   |
|                 | <b>DN50-DF16B-2</b>   | 125 | 18 | 2"     | 165 | 60,3  | 4 x 18mm | <b>18.80</b> |    |    |    |   |
|                 | <b>DN65-DF16B-212</b> | 145 | 18 | 2.1/2" | 185 | 76,1  | 8 x 18mm | <b>22.55</b> |    |    |    |   |
| Roestvast staal | <b>DN80-DF16B-3</b>   | 160 | 20 | 3"     | 200 | 88,9  | 8 x 18mm | <b>28.70</b> |    |    |    |   |
|                 | <b>DN100-DF16B-4</b>  | 180 | 20 | 4"     | 220 | 114,3 | 8 x 18mm | <b>53.20</b> |    |    |    |   |



Zwart - DIN 2566 ST37 - 16 bar

|                              | FLEN                   | S   | D  | mm     | ID  | mm    | mm       | mm           | mm | mm | mm | € |
|------------------------------|------------------------|-----|----|--------|-----|-------|----------|--------------|----|----|----|---|
| Malleabele fittingen & staal | <b>DN15-DF16B-12Z</b>  | 65  | 14 | 1/2"   | 95  | 21,3  | 4 x 14mm | <b>5.85</b>  |    |    |    |   |
|                              | <b>DN20-DF16B-34Z</b>  | 75  | 16 | 3/4"   | 105 | 26,9  | 4 x 14mm | <b>7.75</b>  |    |    |    |   |
| Ringleidingssystemen         | <b>DN25-DF16B-1Z</b>   | 85  | 16 | 1"     | 115 | 33,7  | 4 x 14mm | <b>9.20</b>  |    |    |    |   |
|                              | <b>DN32-DF16B-114Z</b> | 100 | 16 | 1.1/4" | 140 | 42,4  | 4 x 18mm | <b>13.40</b> |    |    |    |   |
| Slangen                      | <b>DN40-DF16B-112Z</b> | 110 | 16 | 1.1/2" | 150 | 48,3  | 4 x 18mm | <b>15.15</b> |    |    |    |   |
|                              | <b>DN50-DF16B-2Z</b>   | 125 | 18 | 2"     | 165 | 60,3  | 4 x 18mm | <b>17.65</b> |    |    |    |   |
|                              | <b>DN65-DF16B-212Z</b> | 145 | 18 | 2.1/2" | 185 | 76,1  | 8 x 18mm | <b>21.05</b> |    |    |    |   |
| Compressoren                 | <b>DN80-DF16B-3Z</b>   | 160 | 20 | 3"     | 200 | 88,9  | 8 x 18mm | <b>26.95</b> |    |    |    |   |
|                              | <b>DN100-DF16B-4Z</b>  | 180 | 20 | 4"     | 220 | 114,3 | 8 x 18mm | <b>30.50</b> |    |    |    |   |

## Voorlasflenzen staal DIN 2633

Voorlasflenzen in PN6 (DIN 2631), PN10 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           | mm | mm | mm | mm | € |
|--|------------------------|-----|----|-----|-------|-----------|--------------|----|----|----|----|---|
|  | <b>DN015-VLF021-16</b> | 65  | 14 | 95  | 21,3  | 4 x 14mm  | <b>5.30</b>  |    |    |    |    |   |
|  | <b>DN020-VLF026-16</b> | 75  | 16 | 105 | 26,9  | 4 x 14mm  | <b>7.50</b>  |    |    |    |    |   |
|  | <b>DN025-VLF033-16</b> | 85  | 16 | 115 | 33,7  | 4 x 14mm  | <b>9.00</b>  |    |    |    |    |   |
|  | <b>DN032-VLF042-16</b> | 100 | 16 | 140 | 42,4  | 4 x 18mm  | <b>13.20</b> |    |    |    |    |   |
|  | <b>DN040-VLF048-16</b> | 110 | 16 | 150 | 48,3  | 4 x 18mm  | <b>14.80</b> |    |    |    |    |   |
|  | <b>DN050-VLF060-16</b> | 125 | 18 | 165 | 60,3  | 4 x 18mm  | <b>17.50</b> |    |    |    |    |   |
|  | <b>DN065-VLF076-16</b> | 145 | 18 | 185 | 76,1  | 8 x 18mm  | <b>20.05</b> |    |    |    |    |   |
|  | <b>DN080-VLF088-16</b> | 160 | 20 | 200 | 88,9  | 8 x 18mm  | <b>25.90</b> |    |    |    |    |   |
|  | <b>DN100-VLF114-16</b> | 180 | 20 | 220 | 114,3 | 8 x 18mm  | <b>30.55</b> |    |    |    |    |   |
|  | <b>DN125-VLF139-16</b> | 210 | 22 | 250 | 139,7 | 8 x 18mm  | <b>41.70</b> |    |    |    |    |   |
|  | <b>DN150-VLF168-16</b> | 240 | 22 | 285 | 168,3 | 8 x 22mm  | <b>49.15</b> |    |    |    |    |   |
|  | <b>DN200-VLF219-16</b> | 295 | 24 | 340 | 219,1 | 12 x 22mm | <b>76.00</b> |    |    |    |    |   |

## Vlakke lasflenzen staal EN1092-1 (voorheen DIN 2576)

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



Staal EN1092-1 ST37,2 - 16 bar

|  | FLEN                   | S   | D  | mm | ID  | mm    | mm        | mm           | mm | mm | mm | € |
|--|------------------------|-----|----|----|-----|-------|-----------|--------------|----|----|----|---|
|  | <b>DN015-SLF021-16</b> | 65  | 14 | 16 | 95  | 21,3  | 4 x 14mm  | <b>4.95</b>  |    |    |    |   |
|  | <b>DN020-SLF026-16</b> | 75  | 16 | 16 | 105 | 26,9  | 4 x 14mm  | <b>7.00</b>  |    |    |    |   |
|  | <b>DN025-SLF033-16</b> | 85  | 16 | 16 | 115 | 33,7  | 4 x 14mm  | <b>9.25</b>  |    |    |    |   |
|  | <b>DN032-SLF042-16</b> | 100 | 16 | 16 | 140 | 42,4  | 4 x 18mm  | <b>13.60</b> |    |    |    |   |
|  | <b>DN040-SLF048-16</b> | 110 | 16 | 16 | 150 | 48,3  | 4 x 18mm  | <b>14.25</b> |    |    |    |   |
|  | <b>DN050-SLF060-16</b> | 125 | 18 | 16 | 165 | 60,3  | 4 x 18mm  | <b>20.35</b> |    |    |    |   |
|  | <b>DN065-SLF076-16</b> | 145 | 18 | 16 | 185 | 76,1  | 8 x 18mm  | <b>21.70</b> |    |    |    |   |
|  | <b>DN080-SLF088-16</b> | 160 | 20 | 16 | 200 | 88,9  | 8 x 18mm  | <b>27.45</b> |    |    |    |   |
|  | <b>DN100-SLF114-16</b> | 180 | 20 | 16 | 220 | 114,3 | 8 x 18mm  | <b>30.35</b> |    |    |    |   |
|  | <b>DN125-SLF139-16</b> | 210 | 22 | 16 | 250 | 139,7 | 8 x 18mm  | <b>39.45</b> |    |    |    |   |
|  | <b>DN150-SLF168-16</b> | 240 | 22 | 16 | 285 | 168,3 | 8 x 22mm  | <b>47.50</b> |    |    |    |   |
|  | <b>DN200-SLF219-16</b> | 295 | 24 | 16 | 340 | 219,1 | 12 x 22mm | <b>76.70</b> |    |    |    |   |

Staal EN1092-1 ST37,2 - 10 bar

|  | FLEN                   | S   | D  | mm | ID  | mm    | mm        | mm            | mm | mm | mm | € |
|--|------------------------|-----|----|----|-----|-------|-----------|---------------|----|----|----|---|
|  | <b>DN080-SLF088-10</b> | 160 | 20 | 10 | 200 | 88,9  | 4 x 18mm  | <b>26.20</b>  |    |    |    |   |
|  | <b>DN200-SLF219-10</b> | 295 | 24 | 10 | 340 | 219,1 | 8 x 22mm  | <b>67.30</b>  |    |    |    |   |
|  | <b>DN250-SLF273-10</b> | 350 | 26 | 10 | 395 | 273,0 | 12 x 22mm | <b>83.90</b>  |    |    |    |   |
|  | <b>DN300-SLF323-10</b> | 400 | 26 | 10 | 445 | 323,9 | 12 x 22mm | <b>100.70</b> |    |    |    |   |
|  | <b>DN350-SLF355-10</b> | 460 | 28 | 10 | 505 | 355,6 | 16 x 22mm | <b>172.80</b> |    |    |    |   |
|  | <b>DN400-SLF406-10</b> | 515 | 32 | 10 | 565 | 406,4 | 16 x 26mm | <b>220.20</b> |    |    |    |   |
|  | <b>DN450-SLF457-10</b> | 565 | 26 | 10 | 615 | 457,0 | 20 x 27mm | <b>271.20</b> |    |    |    |   |
|  | <b>DN500-SLF508-10</b> | 620 | 26 | 10 | 670 | 508,0 | 20 x 27mm | <b>322.30</b> |    |    |    |   |

# Flenzen - staal



## Blindflenzen staal EN1092-5 (voorheen DIN 2527)



Staal EN1092-5 ST37 - 16 bar

| FLEN        | S   | D  | bar | ID mm |          | €     |
|-------------|-----|----|-----|-------|----------|-------|
| DN015-BF-16 | 65  | 14 | 16  | 95    | 4 x 14mm | 5.05  |
| DN020-BF-16 | 75  | 16 | 16  | 105   | 4 x 14mm | 8.35  |
| DN025-BF-16 | 85  | 16 | 16  | 115   | 4 x 14mm | 9.30  |
| DN032-BF-16 | 100 | 16 | 16  | 140   | 4 x 18mm | 13.60 |
| DN040-BF-16 | 110 | 16 | 16  | 150   | 4 x 18mm | 15.80 |
| DN050-BF-16 | 125 | 18 | 16  | 165   | 4 x 18mm | 19.25 |
| DN065-BF-16 | 145 | 18 | 16  | 185   | 8 x 18mm | 22.40 |
| DN080-BF-16 | 160 | 20 | 16  | 200   | 8 x 18mm | 29.15 |
| DN100-BF-16 | 180 | 20 | 16  | 220   | 8 x 18mm | 34.60 |
| DN125-BF-16 | 210 | 22 | 16  | 250   | 8 x 18mm | 54.45 |
| DN150-BF-16 | 240 | 22 | 16  | 285   | 8 x 22mm | 63.75 |



Staal EN1092-5 ST37 - 10 bar

| FLEN        | S   | D  | bar | ID mm |           | €      |
|-------------|-----|----|-----|-------|-----------|--------|
| DN080-BF-10 | 160 | 20 | 10  | 200   | 4 x 18mm  | 29.15  |
| DN200-BF-10 | 295 | 24 | 10  | 340   | 8 x 22mm  | 127.95 |
| DN250-BF-10 | 350 | 26 | 10  | 395   | 12 x 22mm | 127.95 |
| DN300-BF-10 | 400 | 26 | 10  | 445   | 12 x 22mm | 172.00 |
| DN350-BF-10 | 460 | 26 | 10  | 505   | 16 x 22mm | 386.35 |
| DN400-BF-10 | 515 | 26 | 10  | 565   | 16 x 26mm | 482.00 |
| DN450-BF-10 | 565 | 28 | 10  | 615   | 20 x 27mm | 614.55 |
| DN500-BF-10 | 620 | 28 | 10  | 670   | 20 x 26mm | 733.65 |

## 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   | 1.80  |
| PF16DN080 | DN080   | 2.00  |
| PF16DN100 | DN100   | 2.50  |
| PF16DN125 | DN125   | 4.25  |
| PF16DN150 | DN150   | 4.70  |
| PF16DN250 | DN250   | 11.30 |
| PF16DN300 | DN300   | 13.30 |
| PF16DN350 | DN350   | 21.55 |

## Universele bouten voor flenzen

Staal 8.8 gegalvaniseerd

| FLEN        |     |         | L mm | €    |
|-------------|-----|---------|------|------|
| FBOUTM12X50 | M12 | 14      | 50   | 0.50 |
| FBOUTM16X65 | M16 | 18      | 65   | 1.20 |
| FBOUTM20X90 | M20 | 22      | 90   | 2.55 |
| FBOUTM24X90 | M24 | 26 & 27 | 90   | 4.20 |

## Universele moeren voor flenzen

Staal 8.8 gegalvaniseerd

| FLEN     |     |         | €    |
|----------|-----|---------|------|
| 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       |     |         | €    |
|------------|-----|---------|------|
| FSLRINGM12 | M12 | 14      | 0.05 |
| FSLRINGM16 | M16 | 18      | 0.15 |
| FSLRINGM20 | M20 | 22      | 0.15 |
| FSLRINGM24 | M24 | 26 & 27 | 0.45 |

## Universele veerringen voor flenzen

Staal 8.8 gegalvaniseerd

| FLEN         |     |         | €    |
|--------------|-----|---------|------|
| FVEERRINGM12 | M12 | 14      | 0.05 |
| FVEERRINGM16 | M16 | 18      | 0.15 |
| FVEERRINGM20 | M20 | 22      | 0.25 |
| FVEERRINGM24 | M24 | 26 & 27 | 0.30 |

Andere uitvoeringen en materialen zijn op aanvraag leverbaar.

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systemen

Slangen

Compressoren

# 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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