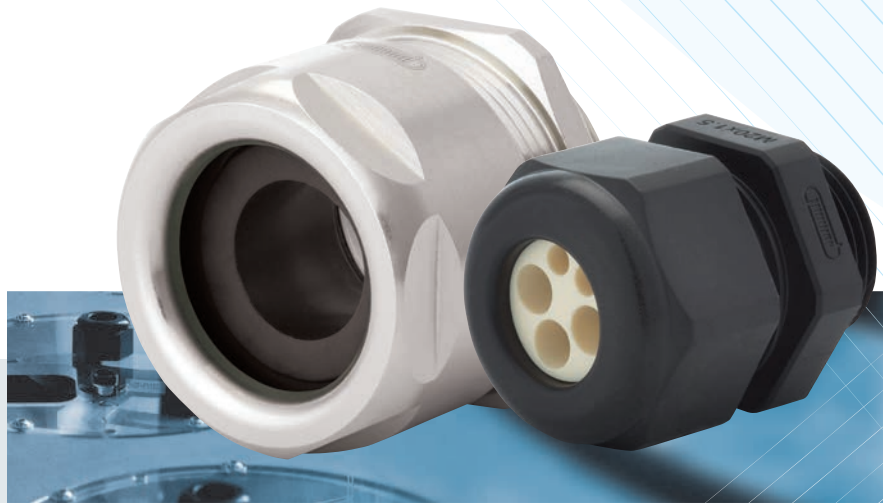


KABELWARTELS EN KABELBESCHERMINGSSYSTEMEN





HUMMEL



SMART & RELIABLE CONNECTIONS

HUMMEL AG






HUMMEL AG staat voor betrouwbaarheid en kwaliteit. Daardoor is het middelgrote familiebedrijf, dat inmiddels in handen is van de derde generatie, toekomstbestendig voor zijn handelspartners, die precies weten wat ze kunnen en mogen verwachten. Maar ook de producten onderscheiden zich door betrouwbaarheid en de hoogste kwaliteit. Klanten waarderen HUMMEL AG als innovatieve fabrikant van kwalitatieve elektromechanische componenten en klantspecifieke producten.

De productiemogelijkheden van de onderneming zijn enorm dankzij haar eigen ontwikkeling, productie en montage. Als erkende fabrikant van kabelwartels, connectoren, op maat gemaakte onderdelen en verwarmingstoebehoren is HUMMEL tevens gespecialiseerd in de bewerking van kunststof en metaal.

Naast het hoofdkantoor in Denzlingen, in het zuiden van Baden-Württemberg, heeft HUMMEL productielocaties in het aangrenzende Waldkirch, in Frankrijk, China, Italië, Brazilië en Indië. In Scandinavië, Engeland, Rusland, Polen en Korea bevinden zich vestigingen van HUMMEL. Daarbij komt nog een wereldwijd netwerk met distributiepartners.

HUMMEL-kabelwartels horen tot het premium segment. De keuze is enorm, de kwaliteit is uitstekend. De kabelwartels uit kunststof, messing of roestvrij staal zijn jarenlang getest, werken heel betrouwbaar en beschikken over alle relevante goedkeuringen.

HUMMEL is gecertificeerde fabrikant van componenten die over een bijzondere explosiebeveiliging moeten beschikken, en die worden gebruikt in bijzonder extreme omgevingen.

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HUMMEL Internationaal 235

Montage-instructies

Meervoudig dichtingsinzetstuk: De kabeldiameter mag 20% kleiner zijn dan de diameter van het boorgat, maar maximaal 1 mm kleiner dan de diameter van het boorgat.

Vlakke kabel-dichtingsinzetstuk: De gebruikte kabel mag maximaal 1 mm korter zijn en maximaal 1 mm minder breed zijn dan het door de fabrikant voorgeschreven klemgedeelte. De afmetingen van de kabel en het gatenpatroon moeten overeenstemmen (aan de zijanten half rond of recht).

Brandbeveiligingsklassen volgens UL94

V0: zelfblussend binnen maximaal 10 seconden, brandende druppels zijn niet toegestaan, smeulen maximaal 30 seconden

V1: zelfblussend binnen maximaal 30 seconden, brandende druppels zijn niet toegestaan, smeulen maximaal 60 seconden

V2: zelfblussend binnen maximaal 30 seconden, brandende druppels zijn toegestaan








Gebruikte afkortingen

| | |
|------|-----------------------|
| CR | Chloorrubber |
| FKM | Fluorelastomeer |
| Ms | Messing |
| NBR | Nitrilbutadiëenrubber |
| PA | Polyamide |
| PE | Polyethyleen |
| PP | Polypropyleen |
| PVC | Polyvinylchloride |
| PVDF | Polyvinylidenfluoride |
| VMQ | Siliconen |





Instructies over de opslag van artikelen met elastomeercomponenten

- // Opslag beschermd tegen licht
 - // Bescherming tegen de inwerking van ozon
 - // Opslag bij kamertemperatuur
 - // Bescherming tegen vocht
- Zie voor verdere informatie DIN 7716

Normen

| | | |
|--|------------------|---|
|  | Railtoepassingen | Brandbescherming in railvoertuigen volgens EN 45545 |
|  | Chemicaliën | Bestand tegen zuren en chemicaliën |
|  | EMC | Kabelwartels met EMC-beveiliging (elektromagnetische compatibiliteit) |
|  | EX d/ Ex e | Explosiebeveiliging Ex d (drukvast omhulsel) en Ex e (verhoogde veiligheid) |
|  | Leadfree | Kabelwartels uit loodvrije messing |
|  | RoHS | Beperking van gevaarlijke stoffen: EU-richtlijn betreffende het gebruik van gevaarlijke stoffen |
|  | Temperatuur | Temperatuurbereik van -60 °C tot +200 °C |

Afkortingen en technische kenmerken

| | |
|---|----------------------------------|
| A [mm] | Lengtemaat A in mm |
| A1 [mm] | Klembereik 1 |
| A2 [mm] | Klembereik 2 |
| max. A2 [mm] | max. kabeldiameter klembereik 2 |
| max. A3 [mm] | max. kabeldoorsnede klembereik 3 |
| AG | Buitenschroefdraad |
| B [mm] | Lengtemaat B in mm |
| C [mm] | Lengtemaat C in mm |
| d [mm] | Diameter in mm |
| D [mm] | Doorsnede in mm |
| DN | Nominale diameter in mm |
| E [mm] | Lengtemaat E in mm |
| F [mm] | Lengtemaat F in mm |
| GL [mm] | Draadlengte in mm |
| H [mm] | Hoogte in mm |
| h [mm] | Hoogte |
| H1 [mm] | Hoogte 1 in mm |
| H2 [mm] | Hoogte 2 in mm |
| IG | Binnendraad |
| K1 [mm] | Wapening klemring 1 in mm |
| K2 [mm] | Wapening klemring 2 in mm |
| K3 [mm] | Wapening klemring 3 in mm |
| L [mm] | Lengte in mm |
| nr. | Item-No |
| s [mm] | Dikte |
| SW [mm] | Sleutelbreedte in mm |
| Ø [mm] | Diameter in mm |
|  | Kabeldiameter in mm |
|  | Aanhaalmoment in Nm |
|  | Inbussleutel |
|  | Minimale buigradius in mm |

Certificaten

| | | |
|---|----------|--|
|  | ATEX | Certificering voor onderdelen in potentieel explosieve omgevingen (ATEX-richtlijn 2014/34/EU) |
|  | CE | EG - verklaring van overeenstemming |
|  | CSA C/US | CSA-goedkeuring voor Noord-Amerika |
|  | CSA | CSA-goedkeuring voor Canada |
|  | UL C | UL-goedkeuring voor Noord-Amerika volgens UL 514 B |
|  | UR C | UR-goedkeuring voor Noord-Amerika volgens UL 514B |
|  | DNV-GL | Certificaat voor gebruik in een maritieme omgeving |
|  | EAC | Certificaat voor de export van onderdelen naar Rusland |
|  | ECOLAB | Gecertificeerde bestendigheid tegen ECOLAB-reinigingsmiddel |
|  | EHEDG | European Hygienic Engineering and Design Group: gecertificeerd voor toepassingen in de levensmiddelenindustrie |
|  | IECEx | Certificering voor onderdelen in potentieel explosieve omgevingen |
|  | INMETRO | Certificering voor onderdelen in potentieel explosieve omgevingen in Brazilië |
|  | ktl | Certificaat voor de export van onderdelen naar Korea |
|  | UL f1 | Certificering voor outdoor-bestendigheid volgens UL 746 C |
|  | UL | UL-goedkeuring voor de VS volgens UL 514 B |
|  | UR | UR-goedkeuring voor de VS volgens UL 514 B |
|  | VDE | Veiligheid van het product wat betreft elektrische, mechanische, thermische, toxische, radiologische en andere gevaren |
|  | ABS | Vergunning voor scheepsbouw en offshore-toepassingen |

Er zijn ook loodvrije HSK-M-kabelwartels

De kabelwartels van de premium reeks HSK-M zijn ook verkrijgbaar als loodvrije variant. Daarmee hebben gebruikers nu al een alternatief voor de gebruikelijke metalen kabels. De loodvrije kabelwartels zijn toekomstbestendig en een investering in duurzaamheid. Ze voldoen nu al aan de RoHS- en REACH-vereisten van morgen.

Beschikbaar zijn de metrische varianten M12 tot M63 van de kabelwartelreeks HSK-M. Op verzoek van de klant worden er meer varianten aangeboden volgens de specificaties van de klant.

De klanten hoeven zich niet druk te maken om de werking ervan. Alle technische eigenschappen zoals temperatuurbereik, dichtheid, botsbestendigheid of trekcontasting blijven hetzelfde. Ook de bestaande vergunningen blijven in dezelfde mate geldig voor de loodvrije kabelwartels.

Het gebruik is eenvoudig. De loodvrije kabelwartels houden de oude artikelnummers en krijgen gewoon de toevoeging "LF" (Lead Free). Het product zelf is eveneens aangeduid met de toevoeging "LF" op de wartelmoer. Daardoor kunnen de producten niet worden verwisseld.



KABELWARTELS VAN KUNSTSTOF

De HUMMEL kabelwartels uit de HSK-K-serie behoren tot het topsegment en voldoen aan de hoogste eisen aan kwaliteit en veiligheid. Tal van certificeringen bewijzen hun hoge niveau op het gebied van brandveiligheid, dichtheid en slagvastheid. Daar kunnen de klanten van HUMMEL op vertrouwen.

- // HSK-K: kabelwartels van polyamide
- // HSK-K-PVDF: kabelwartels voor gebruik bij hoge temperaturen
- // HSK-K-Multi: de wartel met inzetstukken voor meerdere kabels
- // HSK-K-Flaka: de wartel voor platte kabels
- // HSK-K-Flex: met bescherming tegen knikken voor dynamische toepassingen
- // HSK-W: varianten met snapknie voor montage bij 90° kabeluitgang

HUMMEL biedt altijd verschillende klembereiken, schroefdraadlengtes, schroefdraadtypen en diverse afdichtingsmaterialen voor verschillende temperatuurbereiken. De kabelwartels beschikken over alle relevante toelatingen voor de internationale markten en voor tal van branches.



HSK-K: Voor elke toepassing de juiste oplossing

HUMMEL biedt een enorm portfolio kabelwartels voor industriële toepassingen. De kunststof kabelwartels van de HSK-K-serie voldoen aan alle eisen voor ruwe industriële omgevingen indoor en outdoor. Ze hebben alle relevante certificaten en zijn daarom wereldwijd te gebruiken. Daarom kunnen klanten kiezen tussen metrische schroefdraadsoorten, PG- of NPT-schroefdraden. Daarnaast zijn er kabelwartels voor platte kabels, met inzetstukken voor meerdere aansluitingen en wartels met een flexibele kabeluitgang.

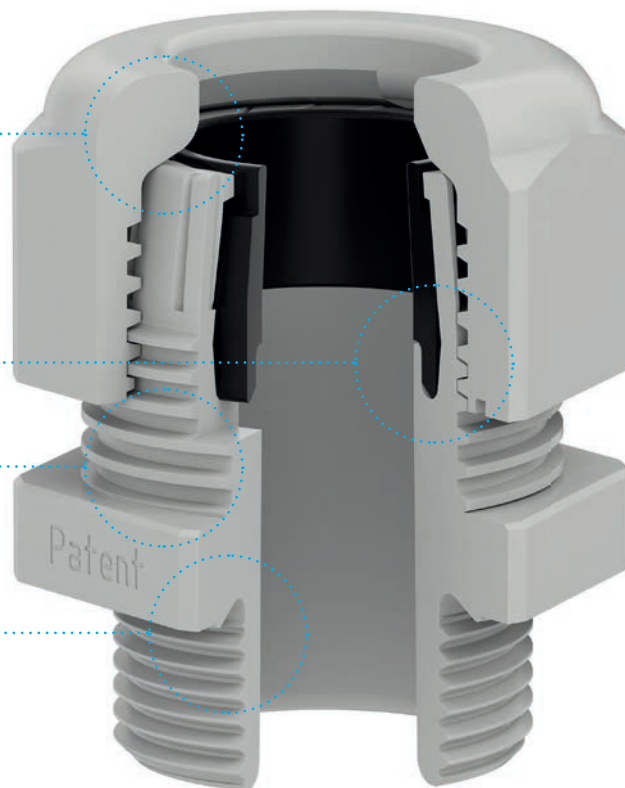
- // Beschermingsklasse IP 66, IP 68 tot 10 bar en IP 69K
- // RoHS- en REACH/SVHC-conform
- // Vrij van conflictmateriaal
- // Halogeen- en fosforvrij
- // Brandveiligheidsklasse VO conform UL94
- // Outdoor bestendig polyamide volgens UL 746C f1 (HSK-K zwart)

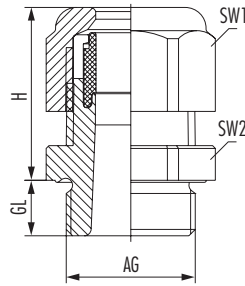
Overlappende klemlamellen voorkomen het uitscheuren van de vormafdichting en verhogen zo de veiligheid van het systeem

De in het binnenhuis geplaatste vormafdichting maakt beschermingsklasse IP 68 tot 10 bar mogelijk

Het trapezium schroefdraad garandeert een stabiele krachtoverbrenging

De in de kamer geplaatste O-ring sluit de wartel op de behuizing optimaal af en garandeert een vaste bevestiging bij de montage





| | |
|----------------------------|---|
| Materiaal | Polyamide V0 volgens UL94 |
| Materiaal dichtring | NBR |
| Beschermingsklasse | IP 68 – 10 bar / IP 69 K met extra O-ring |
| NEMA type rating | 4 / 4X / 6 |
| Temperatuurbereik | -40°C tot +100°C |
| Kleur | grijs / zwart / blauw |
| RAL | 7035 / 9005 / 5012 |

RoHS

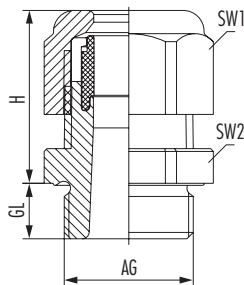
- // Met extra voorgemonteerde O-ring op aanvraag
- // Andere afdichtingsmaterialen, bijv. silicone op aanvraag

| AG | ∅k mm | GL mm | H mm | SW1/SW2 mm | ⊕ Nm | Item nr. grijs | Item nr. zwart | Item nr. blauw |
|-----------|----------|----------|---------|---------------|---------|-------------------|-------------------|-------------------|
| M12 x 1,5 | 2 – 5 | 8 | 21 | 15/15 | 1,5 | 1.209.1200.51 | 1.209.1201.51 | 1.209.1202.51 |
| M12 x 1,5 | 3 – 6,5 | 8 | 21 | 15/15 | 1,5 | 1.209.1200.50 | 1.209.1201.50 | 1.209.1202.50 |
| M16 x 1,5 | 2 – 6 | 8 | 22 | 19/19 | 2 | 1.209.1600.51 | 1.209.1601.51 | 1.209.1602.51 |
| M16 x 1,5 | 4 – 8 | 8 | 22 | 19/19 | 2 | 1.209.1600.50 | 1.209.1601.50 | 1.209.1602.50 |
| M16 x 1,5 | 5 – 10 | 8 | 25 | 22/22 | 3 | 1.219.1600.50 | 1.219.1601.50 | 1.219.1602.50 |
| M20 x 1,5 | 5 – 9 | 9 | 27 | 24/24 | 3 | 1.209.2000.51 | 1.209.2001.51 | 1.209.2002.51 |
| M20 x 1,5 | 6 – 12 | 9 | 27 | 24/24 | 4,5 | 1.209.2000.50 | 1.209.2001.50 | 1.209.2002.50 |
| M20 x 1,5 | 10 – 14 | 9 | 28 | 27/27 | 4,5 | 1.219.2000.50 | 1.219.2001.50 | 1.219.2002.50 |
| M25 x 1,5 | 9 – 16 | 11 | 31 | 33/33 | 4 | 1.209.2500.51 | 1.209.2501.51 | 1.209.2502.51 |
| M25 x 1,5 | 13 – 18 | 11 | 31 | 30/30 | 5 | 1.219.2500.50 | 1.219.2501.50 | 1.219.2502.50 |
| M25 x 1,5 | 13 – 18 | 11 | 31 | 33/33 | 5 | 1.209.2500.50 | 1.209.2501.50 | 1.209.2502.50 |
| M32 x 1,5 | 13 – 20 | 11 | 39 | 42/42 | 6 | 1.209.3200.51 | 1.209.3201.51 | 1.209.3202.51 |
| M32 x 1,5 | 14 – 21 | 11 | 39 | 36/36 | 6 | 1.219.3200.50 | 1.219.3201.50 | 1.219.3202.50 |
| M32 x 1,5 | 18 – 25 | 11 | 39 | 42/42 | 6,5 | 1.209.3200.50 | 1.209.3201.50 | 1.209.3202.50 |
| M40 x 1,5 | 19 – 27 | 13 | 47 | 46/46 | 9 | 1.219.4000.50 | 1.219.4001.50 | 1.219.4002.50 |
| M40 x 1,5 | 20 – 26 | 13 | 48 | 53/53 | 9 | 1.209.4000.51 | 1.209.4001.51 | 1.209.4002.51 |
| M40 x 1,5 | 22 – 32 | 13 | 48 | 53/53 | 10 | 1.209.4000.50 | 1.209.4001.50 | 1.209.4002.50 |
| M50 x 1,5 | 25 – 31 | 13 | 49 | 60/60 | 11 | 1.209.5000.51 | 1.209.5001.51 | 1.209.5002.51 |
| M50 x 1,5 | 32 – 38 | 13 | 49 | 60/60 | 15 | 1.209.5000.50 | 1.209.5001.50 | 1.209.5002.50 |
| M63 x 1,5 | 29 – 35 | 14 | 49 | 65/68 | 12 | 1.209.6300.51 | 1.209.6301.51 | 1.209.6302.51 |
| M63 x 1,5 | 37 – 44 | 14 | 49 | 65/68 | 18 | 1.209.6300.50 | 1.209.6301.50 | 1.209.6302.50 |



Kabelwartels van kunststof

HSK-K (metrisch-lang)



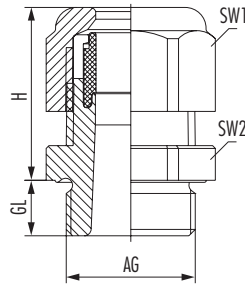
| | |
|----------------------------|---|
| Materiaal | Polyamide VO volgens UL94 |
| Materiaal dichtring | NBR |
| Beschermingsklasse | IP 68 – 10 bar / IP 69 K met extra O-ring |
| NEMA type rating | 4 / 4X / 6 |
| Temperatuurbereik | -40°C tot +100°C |
| Kleur | zwart / blauw / grijs |
| RAL | 9005 / 5012 / 7035 |

RoHS

- // Met extra voorgemonteerde O-ring op aanvraag
- // Andere afdichtingsmaterialen, bijv. silicone op aanvraag

| AG | ∅k mm | GL mm | H mm | SW1/SW2 mm | ⌀ Nm | Item nr. grijs | Item nr. zwart | Item nr. blauw |
|-----------|----------|----------|---------|---------------|---------|-------------------|-------------------|-------------------|
| M12 x 1,5 | 2 – 5 | 15 | 21 | 15/15 | 1,5 | 1.209.1200.31 | 1.209.1201.31 | 1.209.1202.31 |
| M12 x 1,5 | 3 – 6,5 | 15 | 21 | 15/15 | 1,5 | 1.209.1200.30 | 1.209.1201.30 | 1.209.1202.30 |
| M16 x 1,5 | 2 – 6 | 15 | 22 | 19/19 | 2 | 1.209.1600.31 | 1.209.1601.31 | 1.209.1602.31 |
| M16 x 1,5 | 4 – 8 | 15 | 22 | 19/19 | 2 | 1.209.1600.30 | 1.209.1601.30 | 1.209.1602.30 |
| M16 x 1,5 | 5 – 10 | 15 | 25 | 22/22 | 3 | 1.219.1600.30 | 1.219.1601.30 | 1.219.1602.30 |
| M20 x 1,5 | 5 – 9 | 15 | 27 | 24/24 | 3 | 1.209.2000.31 | 1.209.2001.31 | 1.209.2002.31 |
| M20 x 1,5 | 6 – 12 | 15 | 27 | 24/24 | 4,5 | 1.209.2000.30 | 1.209.2001.30 | 1.209.2002.30 |
| M20 x 1,5 | 10 – 14 | 15 | 28 | 27/27 | 4,5 | 1.219.2000.30 | 1.219.2001.30 | 1.219.2002.30 |
| M25 x 1,5 | 9 – 16 | 15 | 31 | 33/33 | 4 | 1.209.2500.31 | 1.209.2501.31 | 1.209.2502.31 |
| M25 x 1,5 | 13 – 18 | 15 | 31 | 33/33 | 5 | 1.209.2500.30 | 1.209.2501.30 | 1.209.2502.30 |
| M32 x 1,5 | 13 – 20 | 15 | 39 | 42/42 | 6 | 1.209.3200.31 | 1.209.3201.31 | 1.209.3202.31 |
| M32 x 1,5 | 18 – 25 | 15 | 39 | 42/42 | 6,5 | 1.209.3200.30 | 1.209.3201.30 | 1.209.3202.30 |
| M40 x 1,5 | 20 – 26 | 18 | 48 | 53/53 | 9 | 1.209.4000.31 | 1.209.4001.31 | 1.209.4002.31 |
| M40 x 1,5 | 22 – 32 | 18 | 48 | 53/53 | 10 | 1.209.4000.30 | 1.209.4001.30 | 1.209.4002.30 |
| M50 x 1,5 | 25 – 31 | 18 | 49 | 60/60 | 11 | 1.209.5000.31 | 1.209.5001.31 | 1.209.5002.31 |
| M50 x 1,5 | 32 – 38 | 18 | 49 | 60/60 | 15 | 1.209.5000.30 | 1.209.5001.30 | 1.209.5002.30 |
| M63 x 1,5 | 29 – 35 | 18 | 49 | 65/68 | 12 | 1.209.6300.31 | 1.209.6301.31 | 1.209.6302.31 |
| M63 x 1,5 | 37 – 44 | 18 | 49 | 65/68 | 18 | 1.209.6300.30 | 1.209.6301.30 | 1.209.6302.30 |





| | |
|----------------------------|---|
| Materiaal | Polyamide V0 volgens UL94 |
| Materiaal dichtring | NBR |
| Beschermingsklasse | IP 68 – 10 bar / IP 69 K met extra O-ring |
| NEMA type rating | 4 / 4X / 6 |
| Temperatuurbereik | -40°C tot +100°C |
| Kleur | grijs / zwart / blauw |
| RAL | 7035 / 9005 / 5012 |

RoHS

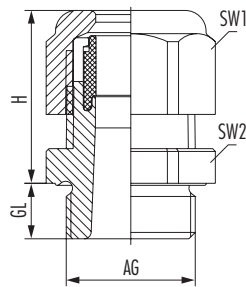
- // Met extra voorgemonteerde O-ring op aanvraag
- // Andere afdichtingsmaterialen, bijv. silicone op aanvraag

| AG | ∅k mm | GL mm | H mm | SW1/SW2 mm | ⌀ Nm | Item nr. grijs | Item nr. zwart | Item nr. blauw |
|---------|----------|----------|---------|---------------|---------|-------------------|-------------------|-------------------|
| PG 7 | 2 – 5 | 8 | 21 | 15/15 | 1,5 | 1.209.0700.15 | 1.209.0701.15 | 1.209.0702.15 |
| PG 7 | 3 – 6,5 | 8 | 21 | 15/15 | 1,5 | 1.209.0700.14 | 1.209.0701.14 | 1.209.0702.14 |
| PG 9 | 2 – 6 | 8 | 22 | 19/19 | 2 | 1.209.0900.15 | 1.209.0901.15 | 1.209.0902.15 |
| PG 9 | 4 – 8 | 8 | 22 | 19/19 | 2 | 1.209.0900.14 | 1.209.0901.14 | 1.209.0902.14 |
| PG 11 | 3 – 7 | 8 | 25 | 22/22 | 2,5 | 1.209.1100.15 | 1.209.1101.15 | 1.209.1102.15 |
| PG 11 | 5 – 10 | 8 | 25 | 22/22 | 3 | 1.209.1100.14 | 1.209.1101.14 | 1.209.1102.14 |
| PG 13,5 | 5 – 9 | 9 | 27 | 24/24 | 3 | 1.209.1300.15 | 1.209.1301.15 | 1.209.1302.15 |
| PG 13,5 | 6 – 12 | 9 | 27 | 24/24 | 4,5 | 1.209.1300.14 | 1.209.1301.14 | 1.209.1302.14 |
| PG 16 | 7 – 12 | 10 | 28 | 27/27 | 3,5 | 1.209.1600.15 | 1.209.1601.15 | 1.209.1602.15 |
| PG 16 | 10 – 14 | 10 | 28 | 27/27 | 4,5 | 1.209.1600.14 | 1.209.1601.14 | 1.209.1602.14 |
| PG 21 | 9 – 16 | 11 | 31 | 33/33 | 4 | 1.209.2100.15 | 1.209.2101.15 | 1.209.2102.15 |
| PG 21 | 13 – 18 | 11 | 31 | 33/33 | 5 | 1.209.2100.14 | 1.209.2101.14 | 1.209.2102.14 |
| PG 29 | 13 – 20 | 11 | 39 | 42/42 | 6 | 1.209.2900.15 | 1.209.2901.15 | 1.209.2902.15 |
| PG 29 | 18 – 25 | 11 | 39 | 42/42 | 6,5 | 1.209.2900.14 | 1.209.2901.14 | 1.209.2902.14 |
| PG 36 | 20 – 26 | 13 | 48 | 53/53 | 9 | 1.209.3600.15 | 1.209.3601.15 | 1.209.3602.15 |
| PG 36 | 22 – 32 | 13 | 48 | 53/53 | 10 | 1.209.3600.14 | 1.209.3601.14 | 1.209.3602.14 |
| PG 42 | 25 – 31 | 13 | 49 | 60/60 | 11 | 1.209.4200.15 | 1.209.4201.15 | 1.209.4202.15 |
| PG 42 | 32 – 38 | 13 | 49 | 60/60 | 15 | 1.209.4200.14 | 1.209.4201.14 | 1.209.4202.14 |
| PG 48 | 29 – 35 | 14 | 49 | 65/65 | 12 | 1.209.4800.15 | 1.209.4801.15 | 1.209.4802.15 |
| PG 48 | 37 – 44 | 14 | 49 | 65/65 | 18 | 1.209.4800.14 | 1.209.4801.14 | 1.209.4802.14 |



Kabelwartels van kunststof

HSK-K (PG-lang)



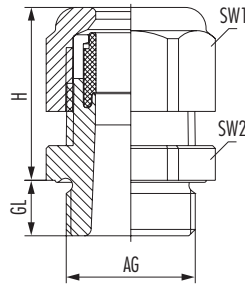
| | |
|----------------------------|---|
| Materiaal | Polyamide VO volgens UL94 |
| Materiaal dichtring | NBR |
| Beschermingsklasse | IP 68 – 10 bar / IP 69 K met extra O-ring |
| NEMA type rating | 4 / 4X / 6 |
| Temperatuurbereik | -40°C tot +100°C |
| Kleur | grijs / zwart / blauw |
| RAL | 7035 / 9005 / 5012 |

RoHS

- // Met extra voorgemonteerde O-ring op aanvraag
- // Andere afdichtingsmaterialen, bijv. silicone op aanvraag

| AG | ∅k mm | GL mm | H mm | SW1/SW2 mm | ⌀ Nm | Item nr. grijs | Item nr. zwart | Item nr. blauw |
|---------|----------|----------|---------|---------------|---------|-------------------|-------------------|-------------------|
| PG 7 | 2 – 5 | 15 | 21 | 15/15 | 1,5 | 1.209.0700.61 | 1.209.0701.61 | 1.209.0702.61 |
| PG 7 | 3 – 6,5 | 15 | 21 | 15/15 | 1,5 | 1.209.0700.60 | 1.209.0701.60 | 1.209.0702.60 |
| PG 9 | 2 – 6 | 15 | 22 | 19/19 | 2 | 1.209.0900.61 | 1.209.0901.61 | 1.209.0902.61 |
| PG 9 | 4 – 8 | 15 | 22 | 19/19 | 2 | 1.209.0900.60 | 1.209.0901.60 | 1.209.0902.60 |
| PG 11 | 3 – 7 | 15 | 25 | 22/22 | 2,5 | 1.209.1100.61 | 1.209.1101.61 | 1.209.1102.61 |
| PG 11 | 5 – 10 | 15 | 25 | 22/22 | 3 | 1.209.1100.60 | 1.209.1101.60 | 1.209.1102.60 |
| PG 13,5 | 5 – 9 | 15 | 27 | 24/24 | 3 | 1.209.1300.61 | 1.209.1301.61 | 1.209.1302.61 |
| PG 13,5 | 6 – 12 | 15 | 27 | 24/24 | 4,5 | 1.209.1300.60 | 1.209.1301.60 | 1.209.1302.60 |
| PG 16 | 7 – 12 | 15 | 28 | 27/27 | 3,5 | 1.209.1600.61 | 1.209.1601.61 | 1.209.1602.61 |
| PG 16 | 10 – 14 | 15 | 28 | 27/27 | 4,5 | 1.209.1600.60 | 1.209.1601.60 | 1.209.1602.60 |
| PG 21 | 9 – 16 | 15 | 31 | 33/33 | 4 | 1.209.2100.61 | 1.209.2101.61 | 1.209.2102.61 |
| PG 21 | 13 – 18 | 15 | 31 | 33/33 | 5 | 1.209.2100.60 | 1.209.2101.60 | 1.209.2102.60 |
| PG 29 | 13 – 20 | 15 | 39 | 42/42 | 6 | 1.209.2900.61 | 1.209.2901.61 | 1.209.2902.61 |
| PG 29 | 18 – 25 | 15 | 39 | 42/42 | 6,5 | 1.209.2900.60 | 1.209.2901.60 | 1.209.2902.60 |
| PG 36 | 20 – 26 | 18 | 48 | 53/53 | 9 | 1.209.3600.61 | 1.209.3601.61 | 1.209.3602.61 |
| PG 36 | 22 – 32 | 18 | 48 | 53/53 | 10 | 1.209.3600.60 | 1.209.3601.60 | 1.209.3602.60 |
| PG 42 | 25 – 31 | 18 | 49 | 60/60 | 11 | 1.209.4200.61 | 1.209.4201.61 | 1.209.4202.61 |
| PG 42 | 32 – 38 | 18 | 49 | 60/60 | 15 | 1.209.4200.60 | 1.209.4201.60 | 1.209.4202.60 |
| PG 48 | 29 – 35 | 18 | 49 | 65/65 | 12 | 1.209.4800.61 | 1.209.4801.61 | 1.209.4802.61 |
| PG 48 | 37 – 44 | 18 | 49 | 65/65 | 18 | 1.209.4800.60 | 1.209.4801.60 | 1.209.4802.60 |





| | |
|----------------------------|---|
| Materiaal | Polyamide V0 volgens UL94 |
| Materiaal dichtring | NBR |
| Beschermingsklasse | IP 68 – 10 bar / IP 69 K met extra O-ring |
| NEMA type rating | 4 / 4X / 6 |
| Temperatuurbereik | -40°C tot +100°C |
| Kleur | grijs / zwart / blauw |
| RAL | 7035 / 9005 / 5012 |

RoHS

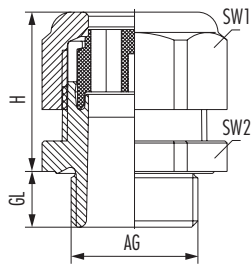
- // Met extra voorgemonteerde O-ring op aanvraag
- // Andere afdichtingsmaterialen, bijv. silicone op aanvraag

| AG | ∅k mm | GL mm | H mm | SW1/SW2 mm | ⊕ Nm | Item nr. grijs | Item nr. zwart | Item nr. blauw |
|------------|----------|----------|---------|---------------|---------|-------------------|-------------------|-------------------|
| NPT 3/8" | 2 – 6 | 15 | 22 | 19/22 | 2 | 1.209.3800.71 | 1.209.3801.71 | 1.209.3802.71 |
| NPT 3/8" | 4 – 8 | 15 | 22 | 19/22 | 2 | 1.209.3800.70 | 1.209.3801.70 | 1.209.3802.70 |
| NPT 1/2" | 5 – 9 | 13 | 27 | 24/24 | 3 | 1.209.1200.71 | 1.209.1201.71 | 1.209.1202.71 |
| NPT 1/2" | 6 – 12 | 13 | 27 | 24/24 | 4,5 | 1.209.1200.70 | 1.209.1201.70 | 1.209.1202.70 |
| NPT 1/2" | 7 – 12 | 13 | 28 | 27/27 | 3,5 | 1.209.1216.71 | 1.209.1217.71 | 1.209.1218.71 |
| NPT 1/2" | 10 – 14 | 13 | 28 | 27/27 | 4,5 | 1.209.1216.70 | 1.209.1217.70 | 1.209.1218.70 |
| NPT 3/4" | 9 – 16 | 14 | 31 | 33/33 | 4 | 1.209.3400.71 | 1.209.3401.71 | 1.209.3402.71 |
| NPT 3/4" | 13 – 18 | 14 | 31 | 33/33 | 5 | 1.209.3400.70 | 1.209.3401.70 | 1.209.3402.70 |
| NPT 1" | 13 – 20 | 19 | 39 | 42/42 | 6 | 1.209.1000.71 | 1.209.1001.71 | 1.209.1002.71 |
| NPT 1" | 18 – 25 | 19 | 39 | 42/42 | 6,5 | 1.209.1000.70 | 1.209.1001.70 | 1.209.1002.70 |
| NPT 1 1/4" | 13 – 20 | 16 | 39 | 42/46 | 6 | 1.209.5400.71 | 1.209.5401.71 | 1.209.5402.71 |
| NPT 1 1/4" | 18 – 25 | 16 | 39 | 42/46 | 6,5 | 1.209.5400.70 | 1.209.5401.70 | 1.209.5402.70 |
| NPT 1 1/2" | 20 – 26 | 20 | 48 | 53/53 | 9 | 1.209.6400.71 | 1.209.6401.71 | 1.209.6402.71 |
| NPT 1 1/2" | 22 – 32 | 20 | 48 | 53/53 | 10 | 1.209.6400.70 | 1.209.6401.70 | 1.209.6402.70 |



Kabelwartels van kunststof

HSK-K-Multi (metrisch, PG, NPT)



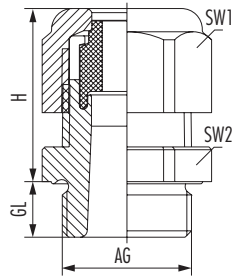
| | |
|----------------------------|---|
| Materiaal | Polyamide VO volgens UL94 |
| Materiaal dichtring | Elastomeer |
| Beschermingsklasse | IP 65 / IP 68 – 10 bar met optimale toewijzing van alle gaten en extra O-ring |
| Temperatuurbereik | -40°C tot +100°C |
| Kleur | grijs / zwart |
| RAL | 7035 / 9005 |

RoHS

- // met extra voorgemonteerde O-ring op de aansluitschroefdraad op aanvraag
- // Lang aansluitschroefdraad op aanvraag
- // De getoonde inzetstukken zijn voorbeelden, andere inzetstukken
- // Variant "Aantal boringen x d = -": zonder boring

| AG | GL mm | H mm | SW1/SW2 mm | ⊕ Nm | Aantal boringen x d | Item nr. grijs | Item nr. zwart | Aantal boringen x d | Item nr. grijs | Item nr. zwart |
|------------|----------|---------|---------------|---------|------------------------|-------------------|-------------------|------------------------|-------------------|-------------------|
| M16 x 1,5 | 8 | 22 | 19/19 | 2 | 4 x 1,4 | 1.597.1600.50 | 1.597.1600.51 | | | |
| M16 x 1,5 | 8 | 22 | 19/19 | 3 | 2 x 3 | 1.597.1601.50 | 1.597.1601.51 | | | |
| M20 x 1,5 | 9 | 27 | 24/24 | 4,5 | 2 x 5 | 1.597.2003.50 | 1.597.2003.51 | 6 x 3 | 1.597.2001.50 | 1.597.2001.51 |
| M25 x 1,5 | 11 | 31 | 33/33 | 5 | 3 x 7 | 1.597.2501.50 | 1.597.2501.51 | 4 x 6 | 1.597.2500.50 | 1.597.2500.51 |
| M32 x 1,5 | 11 | 39 | 42/42 | 6,5 | 4 x 9 | 1.597.3201.50 | 1.597.3201.51 | 6 x 6,5 | 1.597.3200.50 | 1.597.3200.51 |
| M40 x 1,5 | 13 | 48 | 53/53 | 10 | 2 x 15 | 1.597.4003.50 | 1.597.4003.51 | 7 x 9 | 1.597.4001.50 | 1.597.4001.51 |
| M50 x 1,5 | 13 | 49 | 60/60 | 15 | - | 1.597.5099.50 | 1.597.5099.51 | | | |
| M63 x 1,5 | 14 | 49 | 65/68 | 22 | 3 x 18 | 1.597.6302.50 | 1.597.6302.51 | 6 x 12 | 1.597.6301.50 | 1.597.6301.51 |
| PG 7 | 8 | 21 | 15/15 | 1,5 | - | 1.597.0799.00 | | | | |
| PG 9 | 8 | 22 | 19/19 | 2 | 4 x 1,4 | 1.597.0900.00 | 1.597.0900.01 | | | |
| PG 9 | 8 | 22 | 19/19 | 3 | 2 x 3 | 1.597.0901.00 | 1.597.0901.01 | | | |
| PG 11 | 8 | 25 | 22/22 | 3 | 2 x 4 | 1.597.1102.00 | 1.597.1102.01 | 3 x 3 | 1.597.1101.00 | 1.597.1101.01 |
| PG 13,5 | 9 | 27 | 24/24 | 4,5 | 2 x 5 | 1.597.1303.00 | 1.597.1303.01 | 3 x 4 | 1.597.1302.00 | 1.597.1302.01 |
| PG 16 | 10 | 28 | 27/27 | 4,5 | 2 x 6 | 1.597.1605.00 | 1.597.1605.01 | 3 x 5,6 | 1.597.1606.00 | 1.597.1606.01 |
| PG 16 | 10 | 28 | 27/27 | 4,5 | 4 x 4 | 1.597.1602.00 | 1.597.1602.01 | 6 x 4 | 1.597.1604.00 | 1.597.1604.01 |
| PG 21 | 11 | 31 | 33/33 | 5 | 3 x 7 | 1.597.2101.00 | 1.597.2101.01 | 4 x 6 | 1.597.2100.00 | 1.597.2100.01 |
| PG 29 | 11 | 39 | 42/42 | 6,5 | 4 x 9 | 1.597.2901.00 | 1.597.2901.01 | 6 x 6,5 | 1.597.2900.00 | 1.597.2900.01 |
| PG 36 | 13 | 48 | 53/53 | 10 | 2 x 15 | 1.597.3603.00 | 1.597.3603.01 | 7 x 9 | 1.597.3601.00 | 1.597.3601.01 |
| PG 42 | 13 | 49 | 60/60 | 10 | - | 1.597.4299.00 | | | | |
| PG 48 | 14 | 49 | 65/65 | 22 | 3 x 18 | 1.597.4802.00 | 1.597.4802.01 | 6 x 12 | 1.597.4801.00 | 1.597.4801.01 |
| NPT 3/8" | 15 | 22 | 19/22 | 2 | 4 x 1,4 | 1.597.3800.70 | 1.597.3800.71 | | | |
| NPT 3/8" | 15 | 22 | 19/22 | 3 | 2 x 3 | 1.597.3801.70 | 1.597.3801.71 | | | |
| NPT 1/2" | 13 | 27 | 24/24 | 4,5 | 2 x 5 | 1.597.1203.70 | 1.597.1203.71 | 3 x 4 | 1.597.1202.70 | 1.597.1202.71 |
| NPT 1/2" | 13 | 28 | 27/27 | 4,5 | 2 x 6 | 1.597.1221.70 | 1.597.1221.71 | 6 x 4 | 1.597.1220.70 | 1.597.1220.71 |
| NPT 3/4" | 14 | 31 | 33/33 | 5 | 3 x 7 | 1.597.3401.70 | 1.597.3401.71 | 4 x 6 | 1.597.3400.70 | 1.597.3400.71 |
| NPT 1" | 19 | 39 | 42/42 | 6,5 | 4 x 9 | 1.597.1001.70 | 1.597.1001.71 | 6 x 6,5 | 1.597.1000.70 | 1.597.1000.71 |
| NPT 1 1/4" | 16 | 39 | 42/46 | 6,5 | - | 1.597.5499.70 | 1.597.5499.71 | | | |
| NPT 1 1/2" | 20 | 48 | 53/53 | 10 | 5 x 9 | 1.597.6400.70 | 1.597.6400.71 | 7 x 9 | 1.597.6401.70 | 1.597.6401.71 |





| | |
|----------------------------|--------------------------------|
| Materiaal | Polyamide V0 volgens UL94 |
| Materiaal dichtring | Elastomeer |
| Beschermingsklasse | IP 65 / IP 68 met extra O-ring |
| Temperatuurbereik | -40°C tot +100°C |
| Kleur | grijs / zwart |
| RAL | 7035 / 9005 |

RoHS

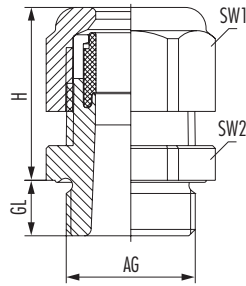
- // met extra voorgemonteerde O-ring op de aansluitschroefdraad op aanvraag
- // Lang aansluitschroefdraad op aanvraag
- // De getoonde inzetstukken zijn voorbeelden, andere inzetstukken

| AG | GL mm | H mm | SW1/SW2 mm | ⊕ Nm | B x H mm | Item nr. grijs | Item nr. zwart | B x H mm | Item nr. grijs | Item nr. zwart |
|------------|----------|---------|---------------|---------|-------------|-------------------|-------------------|-------------|-------------------|-------------------|
| M20 x 1,5 | 9 | 28 | 27/27 | 4,5 | 11,5 x 5 | 1.587.2016.50 | 1.587.2016.51 | 12 x 7 | 1.587.2017.50 | 1.587.2017.51 |
| M20 x 1,5 | 9 | 28 | 27/27 | 4,5 | 14 x 6 | 1.587.2018.50 | 1.587.2018.51 | | | |
| M25 x 1,5 | 11 | 31 | 33/33 | 5 | 14 x 6 | 1.587.2500.50 | 1.587.2500.51 | 14 x 7 | 1.587.2501.50 | 1.587.2501.51 |
| M32 x 1,5 | 11 | 39 | 42/42 | 6,5 | 22 x 8 | 1.587.3200.50 | 1.587.3200.51 | | | |
| M40 x 1,5 | 13 | 48 | 53/53 | 10 | 28,5 x 10 | 1.587.4000.50 | 1.587.4000.51 | 29 x 5,5 | 1.587.4001.50 | 1.587.4001.51 |
| M40 x 1,5 | 13 | 48 | 53/53 | 10 | 30,5 x 12 | 1.587.4002.50 | 1.587.4002.51 | 31 x 7,5 | 1.587.4003.50 | 1.587.4003.51 |
| M50 x 1,5 | 13 | 49 | 60/60 | 15 | 33,5 x 11,5 | 1.587.5000.50 | 1.587.5000.51 | | | |
| M63 x 1,5 | 14 | 49 | 65/68 | 18 | 38 x 12 | 1.587.6300.50 | 1.587.6301.51 | | | |
| PG 16 | 10 | 28 | 27/27 | 4,5 | 11,5 x 5 | 1.587.1600.00 | 1.587.1600.01 | 12 x 7 | 1.587.1601.00 | 1.587.1601.01 |
| PG 16 | 10 | 28 | 27/27 | 4,5 | 14 x 6 | 1.587.1602.00 | 1.587.1602.01 | | | |
| PG 21 | 11 | 31 | 33/33 | 5 | 14 x 6 | 1.587.2100.00 | 1.587.2100.01 | 14 x 7 | 1.587.2101.00 | 1.587.2101.01 |
| PG 29 | 11 | 39 | 42/42 | 6,5 | 22 x 8 | 1.587.2900.00 | 1.587.2900.01 | | | |
| PG 36 | 13 | 48 | 53/53 | 10 | 28,5 x 10 | 1.587.3600.00 | 1.587.3600.01 | 29 x 5,5 | 1.587.3601.00 | 1.587.3601.01 |
| PG 36 | 13 | 48 | 53/53 | 10 | 30,5 x 12 | 1.587.3602.00 | 1.587.3602.01 | 31 x 7,5 | 1.587.3603.00 | 1.587.3603.01 |
| PG 42 | 13 | 49 | 60/60 | 15 | 33,5 x 11,5 | 1.587.4200.00 | 1.587.4200.01 | | | |
| PG 48 | 14 | 49 | 65/65 | 18 | 38 x 12 | 1.587.4800.00 | 1.587.4800.01 | | | |
| NPT 1/2" | 13 | 28 | 27/27 | 4,5 | 11,5 x 5,5 | 1.587.1216.70 | 1.587.1216.71 | 12 x 7 | 1.587.1217.70 | 1.587.1217.71 |
| NPT 1/2" | 13 | 28 | 27/27 | 4,5 | 14 x 6 | 1.587.1218.70 | 1.587.1218.71 | | | |
| NPT 3/4" | 14 | 31 | 33/33 | 5 | 14 x 6 | 1.587.3400.70 | 1.587.3400.71 | | | |
| NPT 1" | 19 | 39 | 42/42 | 6,5 | 22 x 8 | 1.587.1000.70 | 1.587.1000.71 | | | |
| NPT 1 1/4" | 16 | 39 | 42/46 | 6,5 | 22 x 8 | 1.587.5400.70 | 1.587.5400.71 | | | |
| NPT 1 1/2" | 20 | 48 | 53/53 | 10 | 28,5 x 10 | 1.587.6400.70 | 1.587.6400.71 | 29 x 5,5 | 1.587.6401.70 | 1.587.6401.71 |
| NPT 1 1/2" | 20 | 48 | 53/53 | 10 | 30,5 x 12 | 1.587.6402.70 | 1.587.6402.71 | 31 x 7,5 | 1.587.6403.70 | 1.587.6403.71 |



Kabelwartels van kunststof


HSK-K-PVDF (metrisch, NPT)



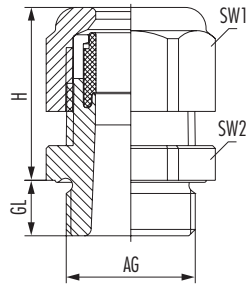
| | |
|----------------------------|---|
| Materiaal | PVDF V0 volgens UL94 |
| Materiaal dichtring | FKM |
| Beschermingsklasse | IP 68 – 10 bar / IP 69 K met extra O-ring |
| NEMA type rating | 4 / 4X / 6 |
| Temperatuurbereik | -35°C tot +150°C |
| Kleur | natuur |

RoHS

- // Met extra voorgemonteerde O-ring op aanvraag
- // Andere afdichtingsmaterialen op aanvraag

| AG | ∅k mm | GL mm | H mm | SW1/SW2 mm |  Nm | Item nr. |
|-----------|----------|----------|---------|---------------|---|---------------|
| M12 x 1,5 | 2 – 5 | 8 | 21 | 15/15 | 1,5 | 1.299.1200.51 |
| M12 x 1,5 | 3 – 6,5 | 8 | 21 | 15/15 | 1,5 | 1.299.1200.50 |
| M16 x 1,5 | 2 – 6 | 8 | 22 | 19/19 | 2 | 1.299.1600.51 |
| M16 x 1,5 | 4 – 8 | 8 | 22 | 19/19 | 2 | 1.299.1600.50 |
| M20 x 1,5 | 5 – 9 | 9 | 27 | 24/24 | 3 | 1.299.2000.51 |
| M20 x 1,5 | 6 – 12 | 9 | 27 | 24/24 | 3 | 1.299.2000.50 |
| M25 x 1,5 | 9 – 16 | 11 | 31 | 33/33 | 4 | 1.299.2500.51 |
| M25 x 1,5 | 13 – 18 | 11 | 31 | 33/33 | 4 | 1.299.2500.50 |
| M32 x 1,5 | 13 – 20 | 11 | 39 | 42/42 | 6 | 1.299.3200.51 |
| M32 x 1,5 | 18 – 25 | 11 | 39 | 42/42 | 6 | 1.299.3200.50 |
| | | | | | | |
| NPT 3/8" | 2 – 6 | 15 | 22 | 19/22 | 2 | 1.299.3800.71 |
| NPT 3/8" | 4 – 8 | 15 | 22 | 19/22 | 2 | 1.299.3800.70 |
| NPT 1/2" | 5 – 9 | 13 | 27 | 24/24 | 3 | 1.299.1200.71 |
| NPT 1/2" | 6 – 12 | 13 | 27 | 24/24 | 4,5 | 1.299.1200.70 |
| NPT 1/2" | 7 – 12 | 13 | 28 | 27/27 | 3,5 | 1.299.1216.71 |
| NPT 1/2" | 10 – 14 | 13 | 28 | 27/27 | 4,5 | 1.299.1216.70 |
| NPT 3/4" | 9 – 16 | 14 | 31 | 33/33 | 4 | 1.299.3400.71 |
| NPT 3/4" | 13 – 18 | 14 | 31 | 33/33 | 5 | 1.299.3400.70 |






| | |
|----------------------------|---|
| Materiaal | PVDF V0 volgens UL94 |
| Materiaal dichtring | FKM |
| Beschermingsklasse | IP 68 – 10 bar / IP 69 K met extra O-ring |
| NEMA type rating | 4 / 4X / 6 |
| Temperatuurbereik | -35°C tot +150°C |
| Kleur | natuur |

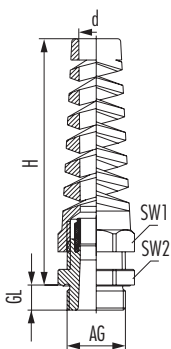
RoHS

- // Met extra voorgemonteerde O-ring op aanvraag
- // Andere afdichtingsmaterialen op aanvraag

| AG | ∅k mm | GL mm | H mm | SW1/SW2 mm |  Nm | Item nr. |
|---------|----------|----------|---------|---------------|---|---------------|
| PG 7 | 2 – 5 | 8 | 21 | 15/15 | 1,5 | 1.299.0700.15 |
| PG 7 | 3 – 6,5 | 8 | 21 | 15/15 | 1,5 | 1.299.0700.14 |
| PG 9 | 2 – 6 | 8 | 22 | 19/19 | 2 | 1.299.0900.15 |
| PG 9 | 4 – 8 | 8 | 22 | 19/19 | 2 | 1.299.0900.14 |
| PG 11 | 3 – 7 | 8 | 25 | 22/22 | 3 | 1.299.1100.15 |
| PG 11 | 5 – 10 | 8 | 25 | 22/22 | 3 | 1.299.1100.14 |
| PG 13,5 | 5 – 9 | 9 | 27 | 24/24 | 3 | 1.299.1300.15 |
| PG 13,5 | 6 – 12 | 9 | 27 | 24/24 | 3 | 1.299.1300.14 |
| PG 16 | 7 – 12 | 10 | 28 | 27/27 | 3,5 | 1.299.1600.15 |
| PG 16 | 10 – 14 | 10 | 28 | 27/27 | 4,5 | 1.299.1600.14 |
| PG 21 | 9 – 16 | 11 | 31 | 33/33 | 4 | 1.299.2100.15 |
| PG 21 | 13 – 18 | 11 | 31 | 33/33 | 4 | 1.299.2100.14 |
| PG 29 | 13 – 20 | 11 | 39 | 42/42 | 6 | 1.299.2900.15 |
| PG 29 | 18 – 25 | 11 | 39 | 42/42 | 6 | 1.299.2900.14 |
| PG 36 | 20 – 26 | 13 | 48 | 53/53 | 9 | 1.299.3600.15 |
| PG 36 | 22 – 32 | 13 | 48 | 53/53 | 10 | 1.299.3600.14 |
| PG 42 | 25 – 31 | 13 | 49 | 60/60 | 11 | 1.299.4200.15 |
| PG 42 | 32 – 38 | 13 | 49 | 60/60 | 15 | 1.299.4200.14 |
| PG 48 | 29 – 35 | 14 | 49 | 65/65 | 10 | 1.299.4800.15 |
| PG 48 | 37 – 44 | 14 | 49 | 65/65 | 18 | 1.299.4800.14 |

Kabelwartels van kunststof

HSK-K-Flex (metrisch/-lang, PG/-lang)



| | |
|----------------------------|---|
| Materiaal | Polyamide |
| Materiaal dichtring | NBR |
| Beschermingsklasse | IP 68 – 10 bar / IP 69 K met extra O-ring |
| Temperatuurbereik | -40°C tot +100°C |
| Kleur | grijs / zwart |
| RAL | 7035 / 9005 |

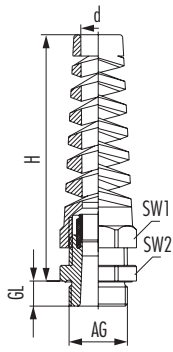
RoHS

// met extra voorgemonteerde O-ring op de aansluitschroefdraad op aanvraag

// Andere afdichtingsmaterialen, bijv. silicone op aanvraag

| AG | ∅k mm | d mm | H mm | SW1/SW2 mm | ⊕ Nm | GL mm | Item nr. grijs kort | Item nr. zwart kort | GL mm | Item nr. grijs lang | Item nr. zwart lang |
|-----------|----------|---------|---------|---------------|---------|----------|---------------------------|---------------------------|----------|---------------------------|---------------------------|
| M12 x 1,5 | 2 – 5 | 7 | 54 | 15/15 | 1,5 | 8 | 1.293.1200.51 | 1.293.1201.51 | 15 | 1.293.1200.31 | 1.293.1201.31 |
| M12 x 1,5 | 3 – 6,5 | 7 | 54 | 15/15 | 1,5 | 8 | 1.293.1200.50 | 1.293.1201.50 | 15 | 1.293.1200.30 | 1.293.1201.30 |
| M16 x 1,5 | 2 – 6 | 8,5 | 63 | 19/19 | 2 | 8 | 1.293.1600.51 | 1.293.1601.51 | 15 | 1.293.1600.31 | 1.293.1601.31 |
| M16 x 1,5 | 3 – 7 | 10,5 | 78 | 22/22 | 2,5 | 8 | 1.294.1600.51 | 1.294.1601.51 | 15 | 1.294.1600.31 | 1.294.1601.31 |
| M16 x 1,5 | 4 – 8 | 8,5 | 63 | 19/19 | 2 | 8 | 1.293.1600.50 | 1.293.1601.50 | 15 | 1.293.1600.30 | 1.293.1601.30 |
| M16 x 1,5 | 5 – 10 | 10,5 | 78 | 22/22 | 3 | 8 | 1.294.1600.50 | 1.294.1601.50 | 15 | 1.294.1600.30 | 1.294.1601.30 |
| M20 x 1,5 | 5 – 9 | 13 | 90 | 24/24 | 3 | 9 | 1.293.2000.51 | 1.293.2001.51 | 15 | 1.293.2000.31 | 1.293.2001.31 |
| M20 x 1,5 | 6 – 12 | 13 | 90 | 24/24 | 4,5 | 9 | 1.293.2000.50 | 1.293.2001.50 | 15 | 1.293.2000.30 | 1.293.2001.30 |
| M20 x 1,5 | 7 – 12 | 15,5 | 100 | 27/27 | 3,5 | 9 | 1.294.2000.51 | 1.294.2001.51 | 15 | 1.294.2000.31 | 1.294.2001.31 |
| M20 x 1,5 | 10 – 14 | 15,5 | 100 | 27/27 | 4,5 | 9 | 1.294.2000.50 | 1.294.2001.50 | 15 | 1.294.2000.30 | 1.294.2001.30 |
| M25 x 1,5 | 9 – 16 | 20 | 114 | 33/33 | 4 | 11 | 1.293.2500.51 | 1.293.2501.51 | 15 | 1.293.2500.31 | 1.293.2501.31 |
| M25 x 1,5 | 13 – 18 | 20 | 114 | 33/33 | 5 | 11 | 1.293.2500.50 | 1.293.2501.50 | 15 | 1.293.2500.30 | 1.293.2501.30 |
| PG 7 | 2 – 5 | 7 | 54 | 15/15 | 1,5 | 8 | 1.293.0700.15 | 1.293.0701.15 | 15 | 1.293.0700.61 | 1.293.0701.61 |
| PG 7 | 3 – 6,5 | 7 | 54 | 15/15 | 1,5 | 8 | 1.293.0700.14 | 1.293.0701.14 | 15 | 1.293.0700.60 | 1.293.0701.60 |
| PG 9 | 2 – 6 | 8,5 | 63 | 19/19 | 2 | 8 | 1.293.0900.15 | 1.293.0901.15 | 15 | 1.293.0900.61 | 1.293.0901.61 |
| PG 9 | 4 – 8 | 8,5 | 63 | 19/19 | 2 | 8 | 1.293.0900.14 | 1.293.0901.14 | 15 | 1.293.0900.60 | 1.293.0901.60 |
| PG 11 | 3 – 7 | 10,5 | 78 | 22/22 | 2,5 | 8 | 1.293.1100.15 | 1.293.1101.15 | 15 | 1.293.1100.61 | 1.293.1101.61 |
| PG 11 | 5 – 10 | 10,5 | 78 | 22/22 | 3 | 8 | 1.293.1100.14 | 1.293.1101.14 | 15 | 1.293.1100.60 | 1.293.1101.60 |
| PG 13,5 | 5 – 9 | 13 | 90 | 24/24 | 3 | 9 | 1.293.1300.15 | 1.293.1301.15 | 15 | 1.293.1300.61 | 1.293.1301.61 |
| PG 13,5 | 6 – 12 | 13 | 90 | 24/24 | 4,5 | 9 | 1.293.1300.14 | 1.293.1301.14 | 15 | 1.293.1300.60 | 1.293.1301.60 |
| PG 16 | 7 – 12 | 15,5 | 100 | 27/27 | 3,5 | 10 | 1.293.1600.15 | 1.293.1601.15 | 15 | 1.293.1600.61 | 1.293.1601.61 |
| PG 16 | 10 – 14 | 15,5 | 100 | 27/27 | 4,5 | 10 | 1.293.1600.14 | 1.293.1601.14 | 15 | 1.293.1600.60 | 1.293.1601.60 |
| PG 21 | 9 – 16 | 20 | 114 | 33/33 | 4 | 11 | 1.293.2100.15 | 1.293.2101.15 | 15 | 1.293.2100.61 | 1.293.2101.61 |
| PG 21 | 13 – 18 | 20 | 114 | 33/33 | 5 | 11 | 1.293.2100.14 | 1.293.2101.14 | 15 | 1.293.2100.60 | 1.293.2101.60 |





| | |
|---------------------|---|
| Materiaal | Polyamide |
| Materiaal dichtring | NBR |
| Beschermingsklasse | IP 68 – 10 bar / IP 69 K met extra O-ring |
| Temperatuurbereik | -40°C tot +100°C |
| Kleur | grijs / zwart |
| RAL | 7035 / 9005 |

RoHS

// met extra voorgemonteerde O-ring op de aansluitschroefdraad op aanvraag

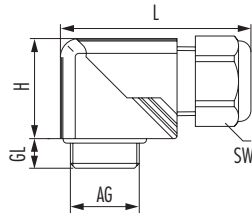
// Andere afdichtingsmaterialen, bijv. silicone op aanvraag

| AG | ∅k mm | d mm | GL mm | H mm | SW1/SW2 mm | ⊕ Nm | Item nr. grijs | Item nr. zwart |
|----------|----------|---------|----------|---------|---------------|---------|-------------------|-------------------|
| NPT 3/8" | 2 – 6 | 8,5 | 15 | 63 | 22/19 | 2 | 1.293.3800.71 | 1.293.3801.71 |
| NPT 3/8" | 4 – 8 | 8,5 | 15 | 63 | 22/19 | 2 | 1.293.3800.70 | 1.293.3801.70 |
| NPT 1/2" | 5 – 9 | 13 | 13 | 90 | 24/24 | 3 | 1.293.1200.71 | 1.293.1201.71 |
| NPT 1/2" | 6 – 12 | 13 | 13 | 90 | 24/24 | 4,5 | 1.293.1200.70 | 1.293.1201.70 |
| NPT 1/2" | 7 – 12 | 15,5 | 13 | 100 | 27/27 | 3,5 | 1.293.1216.71 | 1.293.1217.71 |
| NPT 1/2" | 10 – 14 | 15,5 | 13 | 100 | 27/27 | 4,5 | 1.293.1216.70 | 1.293.1217.70 |
| NPT 3/4" | 9 – 16 | 20 | 14 | 114 | 33/33 | 4 | 1.293.3400.71 | 1.293.3401.71 |
| NPT 3/4" | 13 – 18 | 20 | 14 | 114 | 33/33 | 5 | 1.293.3400.70 | 1.293.3401.70 |



Kabelwartels van kunststof

HSK-W (metrisch, PG, NPT)



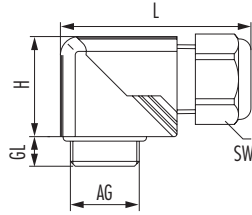
| | |
|---------------------|------------------|
| Materiaal | Polyamide |
| Materiaal dichtring | NBR |
| Materiaal o-ring | NBR |
| Beschermingsklasse | IP 68 |
| Temperatuurbereik | -40°C tot +100°C |
| Kleur | zwart / grijs |
| RAL | 9005 / 7035 |

RoHS

// Andere afdichtingsmaterialen, bijv. silicone op aanvraag

| AG | ∅k mm | GL mm | H mm | L mm | SW mm | ⊕ Nm | Item nr. grijs | Item nr. zwart |
|-----------|----------|----------|---------|---------|----------|---------|-------------------|-------------------|
| M16 x 1,5 | 2-6 | 8 | 23 | 45 | 19 | 2,5 | 1.313.1600.51 | 1.313.1601.51 |
| M16 x 1,5 | 4-8 | 8 | 23 | 45 | 19 | 2,5 | 1.313.1600.50 | 1.313.1601.50 |
| M20 x 1,5 | 5-9 | 9 | 30,5 | 57 | 24 | 4 | 1.313.2000.51 | 1.313.2001.51 |
| M20 x 1,5 | 6-12 | 9 | 30,5 | 57 | 24 | 4 | 1.313.2000.50 | 1.313.2001.50 |
| M25 x 1,5 | 9-16 | 11 | 40 | 73 | 33 | 6 | 1.313.2500.51 | 1.313.2501.51 |
| M25 x 1,5 | 13-18 | 11 | 40 | 73 | 33 | 6 | 1.313.2500.50 | 1.313.2501.50 |
| M32 x 1,5 | 13-20 | 11 | 51,5 | 91 | 42 | 9 | 1.313.3200.51 | 1.313.3201.51 |
| M32 x 1,5 | 18-25 | 11 | 51,5 | 91 | 42 | 9 | 1.313.3200.50 | 1.313.3201.50 |
| PG 9 | 2-6 | 8 | 23 | 45 | 19 | 2,5 | 1.313.0900.15 | 1.313.0901.15 |
| PG 9 | 4-8 | 8 | 23 | 45 | 19 | 2,5 | 1.313.0900.14 | 1.313.0901.14 |
| PG 11 | 3-7 | 8 | 27 | 50 | 22 | 2,5 | 1.313.1100.15 | 1.313.1101.15 |
| PG 11 | 5-10 | 8 | 27 | 50 | 22 | 4 | 1.313.1100.14 | 1.313.1101.14 |
| PG 13,5 | 5-9 | 9 | 30,5 | 57 | 24 | 4 | 1.313.1300.15 | 1.313.1301.15 |
| PG 13,5 | 6-12 | 9 | 30,5 | 57 | 24 | 4 | 1.313.1300.14 | 1.313.1301.14 |
| PG 16 | 7-12 | 10 | 32,5 | 59 | 27 | 4 | 1.313.1600.15 | 1.313.1601.15 |
| PG 16 | 10-14 | 10 | 32,5 | 59 | 27 | 6 | 1.313.1600.14 | 1.313.1601.14 |
| PG 21 | 9-16 | 11 | 40 | 73 | 33 | 6 | 1.313.2100.15 | 1.313.2101.15 |
| PG 21 | 13-18 | 11 | 40 | 73 | 33 | 6 | 1.313.2100.14 | 1.313.2101.14 |
| PG 29 | 13-20 | 11 | 51,5 | 91 | 42 | 9 | 1.313.2900.15 | 1.313.2901.15 |
| PG 29 | 18-25 | 11 | 51,5 | 91 | 42 | 9 | 1.313.2900.14 | 1.313.2901.14 |
| NPT 3/8" | 2-6 | 15 | 23 | 45 | 19 | 2,5 | 1.313.3800.71 | 1.313.3801.71 |
| NPT 3/8" | 4-8 | 15 | 23 | 45 | 19 | 2,5 | 1.313.3800.70 | 1.313.3801.70 |
| NPT 1/2" | 5-9 | 13 | 32,5 | 57 | 24 | 4 | 1.313.1200.71 | 1.313.1201.71 |
| NPT 1/2" | 6-12 | 13 | 32,5 | 57 | 24 | 4 | 1.313.1200.70 | 1.313.1201.70 |
| NPT 1/2" | 7-12 | 13 | 32,5 | 59 | 27 | 4 | 1.313.1216.71 | 1.313.1217.71 |
| NPT 1/2" | 10-14 | 13 | 32,5 | 59 | 27 | 6 | 1.313.1216.70 | 1.313.1217.70 |
| NPT 3/4" | 9-16 | 13 | 40 | 73 | 33 | 6 | 1.313.3400.71 | 1.313.3401.71 |
| NPT 3/4" | 13-18 | 13 | 40 | 73 | 33 | 6 | 1.313.3400.70 | 1.313.3401.70 |
| NPT 1" | 13-20 | 19 | 51,5 | 91 | 42 | 9 | 1.313.1000.71 | 1.313.1001.71 |
| NPT 1" | 18-25 | 19 | 51,5 | 91 | 42 | 9 | 1.313.1000.70 | 1.313.1001.70 |





| | |
|---------------------|------------------|
| Materiaal | Polyamide |
| Materiaal dichtring | NBR |
| Materiaal o-ring | NBR |
| Beschermingsklasse | IP 68 |
| Temperatuurbereik | -40°C tot +100°C |
| Kleur | zwart / grijs |
| RAL | 9005 / 7035 |

RoHS

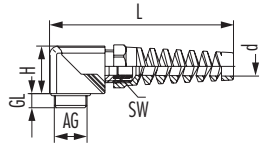
- // Andere afdichtingsmaterialen, bijv. silicone op aanvraag
- // Uitvoering draaibaar

| AG | ∅k mm | GL mm | H mm | L mm | SW mm | ⊕ Nm | Item nr. grijs | Item nr. zwart |
|---------|----------|----------|---------|---------|----------|---------|-------------------|-------------------|
| PG 9 | 2 – 6 | 8 | 28 | 45 | 19 | 2,5 | 1.317.0900.15 | 1.317.0901.15 |
| PG 9 | 4 – 8 | 8 | 28 | 45 | 19 | 2,5 | 1.317.0900.14 | 1.317.0901.14 |
| PG 11 | 3 – 7 | 8 | 32 | 50 | 22 | 2,5 | 1.317.1100.15 | 1.317.1101.15 |
| PG 11 | 5 – 10 | 8 | 32 | 50 | 22 | 4 | 1.317.1100.14 | 1.317.1101.14 |
| PG 13,5 | 5 – 9 | 9 | 35,5 | 57 | 24 | 4 | 1.317.1300.15 | 1.317.1301.15 |
| PG 13,5 | 6 – 12 | 9 | 35,5 | 57 | 24 | 4 | 1.317.1300.14 | 1.317.1301.14 |
| PG 16 | 7 – 12 | 11 | 46 | 73 | 33 | 4 | 1.317.1600.15 | 1.317.1601.15 |
| PG 16 | 10 – 14 | 10 | 38,5 | 59 | 27 | 6 | 1.317.1600.14 | 1.317.1601.14 |
| PG 21 | 9 – 16 | 11 | 46 | 73 | 33 | 6 | 1.317.2100.15 | 1.317.2101.15 |
| PG 21 | 13 – 18 | 11 | 46 | 73 | 33 | 6 | 1.317.2100.14 | 1.317.2101.14 |



Kabelwartels van kunststof

HSK-W-Flex (metrisch, PG, NPT)



| | |
|---------------------|------------------|
| Materiaal | Polyamide |
| Materiaal dichtring | NBR |
| Materiaal o-ring | NBR |
| Beschermingsklasse | IP 68 |
| Temperatuurbereik | -40°C tot +100°C |
| Kleur | grijs / zwart |
| RAL | 7035 / 9005 |

RoHS

// Andere afdichtingsmaterialen, bijv. silicone op aanvraag

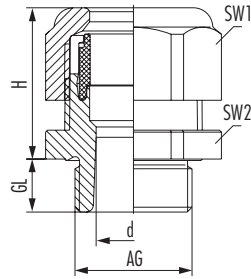
| AG | ∅k mm | d mm | GL mm | H mm | L mm | SW mm | ⊕ Nm | Item nr. grijs | Item nr. zwart |
|-----------|----------|---------|----------|---------|---------|----------|---------|-------------------|-------------------|
| M16 x 1,5 | 2-6 | 8,5 | 8 | 23 | 85 | 19 | 2,5 | 1.314.1600.51 | 1.314.1601.51 |
| M16 x 1,5 | 4-8 | 8,5 | 8 | 23 | 85 | 19 | 2,5 | 1.314.1600.50 | 1.314.1601.50 |
| M20 x 1,5 | 5-9 | 13 | 9 | 30,5 | 119 | 24 | 4 | 1.314.2000.51 | 1.314.2001.51 |
| M20 x 1,5 | 6-12 | 13 | 9 | 30,5 | 119 | 24 | 4 | 1.314.2000.50 | 1.314.2001.50 |
| M25 x 1,5 | 9-16 | 20 | 11 | 40 | 156 | 33 | 6 | 1.314.2500.51 | 1.314.2501.51 |
| M25 x 1,5 | 13-18 | 20 | 11 | 40 | 156 | 33 | 6 | 1.314.2500.50 | 1.314.2501.50 |
| PG 9 | 2-6 | 8,5 | 8 | 23 | 85 | 19 | 2,5 | 1.314.0900.15 | 1.314.0901.15 |
| PG 9 | 4-8 | 8,5 | 8 | 23 | 85 | 19 | 2,5 | 1.314.0900.14 | 1.314.0901.14 |
| PG 11 | 3-7 | 10,5 | 8 | 27 | 103 | 22 | 2,5 | 1.314.1100.15 | 1.314.1101.15 |
| PG 11 | 5-10 | 10,5 | 8 | 27 | 103 | 22 | 4 | 1.314.1100.14 | 1.314.1101.14 |
| PG 13,5 | 5-9 | 13 | 9 | 30,5 | 119 | 24 | 4 | 1.314.1300.15 | 1.314.1301.15 |
| PG 13,5 | 6-12 | 13 | 9 | 30,5 | 119 | 24 | 4 | 1.314.1300.14 | 1.314.1301.14 |
| PG 16 | 7-12 | 15,5 | 10 | 32,5 | 130 | 27 | 4 | 1.314.1600.15 | 1.314.1601.15 |
| PG 16 | 10-14 | 15,5 | 10 | 32,5 | 130 | 27 | 6 | 1.314.1600.14 | 1.314.1601.14 |
| PG 21 | 9-16 | 20 | 11 | 40 | 156 | 33 | 6 | 1.314.2100.15 | 1.314.2101.15 |
| PG 21 | 13-18 | 20 | 11 | 40 | 156 | 33 | 6 | 1.314.2100.14 | 1.314.2101.14 |
| NPT 3/8" | 2-6 | 8,5 | 15 | 23 | 85 | 19 | 2,5 | 1.314.3800.71 | 1.314.3801.71 |
| NPT 3/8" | 4-8 | 8,5 | 15 | 23 | 85 | 19 | 2,5 | 1.314.3800.70 | 1.314.3801.70 |
| NPT 1/2" | 5-9 | 13 | 13 | 30,5 | 119 | 24 | 4 | 1.314.1200.71 | 1.314.1201.71 |
| NPT 1/2" | 6-12 | 13 | 13 | 30,5 | 119 | 24 | 4 | 1.314.1200.70 | 1.314.1201.70 |
| NPT 1/2" | 7-12 | 15,5 | 13 | 31,5 | 130 | 27 | 4 | 1.314.1216.71 | 1.314.1217.71 |
| NPT 1/2" | 10-14 | 15,5 | 13 | 31,5 | 130 | 27 | 6 | 1.314.1216.70 | 1.314.1217.70 |
| NPT 3/4" | 9-16 | 20 | 13 | 40 | 156 | 33 | 6 | 1.314.3400.71 | 1.314.3401.71 |
| NPT 3/4" | 13-18 | 20 | 13 | 40 | 156 | 33 | 6 | 1.314.3400.70 | 1.314.3401.70 |



RoHS

| | |
|----------------------------|---|
| Materiaal | Polyamide V0 volgens UL94 |
| Materiaal dichtring | NBR |
| Beschermingsklasse | IP 68 – 10 bar / IP 69 K met extra O-ring |
| NEMA type rating | 4 / 4X / 6 |
| Temperatuurbereik | -40°C tot +100°C |
| Kleur | grijs / zwart |
| RAL | 7035 / 9005 |

- // Met extra voorgemonteerde O-ring op aanvraag
- // Andere afdichtingsmaterialen op aanvraag



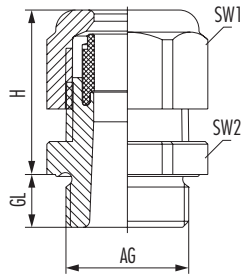
| AG | ∅k mm | d mm | GL mm | H mm | SW1/SW2 mm | ⊕ Nm | Item nr. grijs | Item nr. zwart |
|---------|----------|---------|----------|---------|---------------|---------|-------------------|-------------------|
| PG 7 | 2 – 6 | 7 | 8 | 22 | 19/19 | 2 | 1.590.0700.15 | 1.590.0701.15 |
| PG 7 | 4 – 8 | 7 | 8 | 22 | 19/19 | 2 | 1.590.0700.14 | 1.590.0701.14 |
| PG 9 | 3 – 7 | 9 | 8 | 25 | 22/22 | 2,5 | 1.590.0900.15 | 1.590.0901.15 |
| PG 9 | 5 – 10 | 9 | 8 | 25 | 22/22 | 3 | 1.590.0900.14 | 1.590.0901.14 |
| PG 11 | 5 – 9 | 10,5 | 8 | 24 | 24/24 | 3 | 1.590.1100.15 | 1.590.1101.15 |
| PG 11 | 6 – 12 | 10,5 | 8 | 24 | 24/24 | 4,5 | 1.590.1100.14 | 1.590.1101.14 |
| PG 13,5 | 7 – 12 | 12,5 | 9 | 28 | 27/27 | 3,5 | 1.590.1300.15 | 1.590.1301.15 |
| PG 13,5 | 10 – 14 | 12,5 | 9 | 28 | 27/27 | 4,5 | 1.590.1300.14 | 1.590.1301.14 |
| PG 16 | 9 – 16 | 15 | 10 | 31 | 33/33 | 4 | 1.590.1600.15 | 1.590.1601.15 |
| PG 16 | 13 – 18 | 15 | 10 | 31 | 33/33 | 5 | 1.590.1600.14 | 1.590.1601.14 |



Kabelwartels van kunststof

HSK-KR (PG)

RoHS



| | |
|---------------------|---|
| Materiaal | Polyamide VO volgens UL94 |
| Materiaal dichtring | NBR |
| Beschermingsklasse | IP 68 – 10 bar / IP 69 K met extra O-ring |
| NEMA type rating | 4 / 4X / 6 |
| Temperatuurbereik | -40°C tot +100°C |
| Kleur | grijs / zwart |
| RAL | 7035 / 9005 |

- // Met extra voorgemonteerde O-ring op aanvraag
- // Andere afdichtingsmaterialen op aanvraag



| AG | ∅k mm | GL mm | H mm | SW1/SW2 mm | ⊕ Nm | Item nr. grijs | Item nr. zwart |
|---------|----------|----------|---------|---------------|---------|-------------------|-------------------|
| PG 9 | 2 – 5 | 8 | 21 | 15/19 | 1,5 | 1.591.0900.15 | 1.591.0901.15 |
| PG 9 | 3 – 6,5 | 8 | 21 | 15/19 | 1,5 | 1.591.0900.14 | 1.591.0901.14 |
| PG 11 | 2 – 6 | 8 | 22 | 19/22 | 2 | 1.591.1100.15 | 1.591.1101.15 |
| PG 11 | 4 – 8 | 8 | 22 | 19/22 | 2 | 1.591.1100.14 | 1.591.1101.14 |
| PG 13,5 | 3 – 7 | 9 | 25 | 22/24 | 2,5 | 1.591.1300.15 | 1.591.1301.15 |
| PG 13,5 | 5 – 10 | 9 | 25 | 22/24 | 3 | 1.591.1300.14 | 1.591.1301.14 |
| PG 16 | 5 – 9 | 10 | 27 | 24/27 | 3 | 1.591.1600.15 | 1.591.1601.15 |
| PG 16 | 6 – 12 | 10 | 27 | 24/27 | 4,5 | 1.591.1600.14 | 1.591.1601.14 |
| PG 21 | 7 – 12 | 11 | 28 | 27/33 | 3,5 | 1.591.2100.15 | 1.591.2101.15 |
| PG 21 | 10 – 14 | 11 | 28 | 27/33 | 4,5 | 1.591.2100.14 | 1.591.2101.14 |



KABELWARTELS VAN METAAL

De kabelwartels van messing (vernikkeld) en roestvaststaal zijn sterk en in hoge mate geschikt voor de industrie. De HSK-serie biedt een zeer groot assortiment oplossingen – voor gewone, maar ook voor zeer ongebruikelijke toepassingen. Het compromisloze gebruik van hoogwaardige materialen staat garant voor de uitstekende kwaliteit van de HUMMEL-producten.

- // HSK-M: kabelwartels van vernikkeld messing
- // HSK-INOX: kabelwartels van roestvaststaal in verschillende uitvoeringen
- // HSK-M-Multi: de wartel met inzetstukken voor meerdere kabels
- // HSK-M-Flaka: varianten voor toepassingen met platte kabels
- // HSK-M-Flex: met bescherming tegen knikken
- // HSK-Mini: voor schroefdraadgrootten kleiner dan M12
- // HSK-XL: de wartels met schroefdraadgrootten van M63 t/m M110
- // HSK-MZ: voor extra hoge trekontlasting

HUMMEL biedt altijd verschillende klembereiken, schroefdraadlengtes, schroefdraadtypen en diverse afdichtingsmaterialen voor verschillende temperatuurbereiken. De kabelwartels beschikken over alle relevante toelatingen voor de internationale markten en voor tal van branches.



HSK-M: Betrouwbare, robuuste oplossingen voor de industrie

Kabelwartels uit de premium serie HSK-M zijn verkrijgbaar in messing en roestvrij staal. Ze zijn ontworpen voor industrieel gebruik en worden gekenmerkt door een hoge mate van dichtheid, stootvastheid en trekbelasting van de kabels.

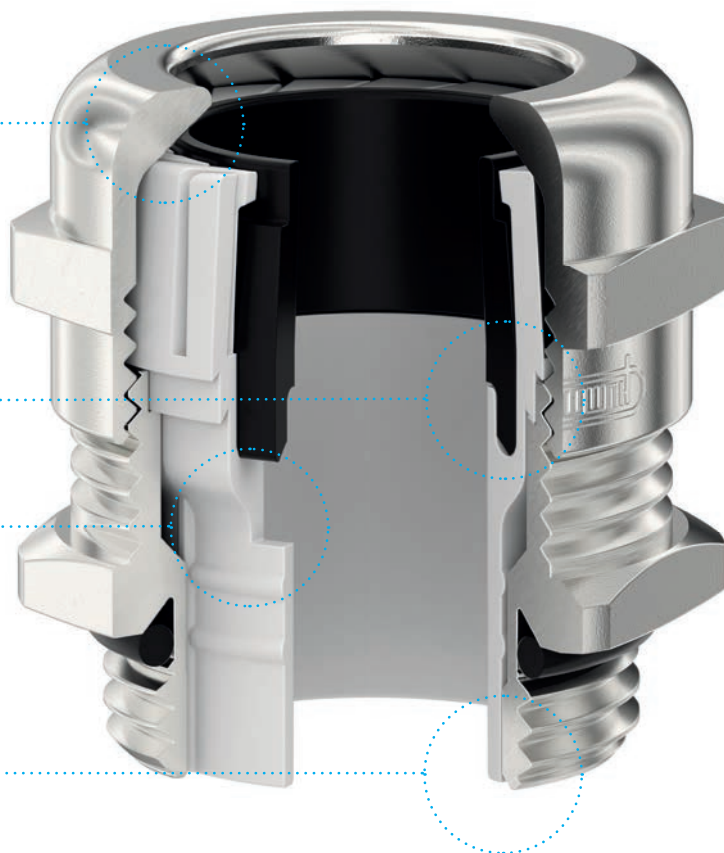
- // Beschermingsklasse IP 66, IP 68 tot 10 bar en IP 69K
- // RoHS- en REACH/SVHC-conform
- // Vrij van conflictmateriaal
- // Halogeen- en fosforvrij
- // Brandveiligheidsklasse VO conform UL94
- // Beveiliging tegen verdraaiing voor kabels in het kleminzetstuk

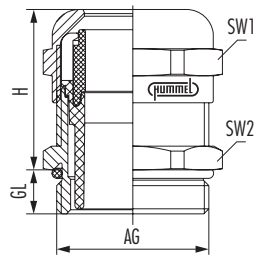
Overlappende klemlamellen voorkomen het uitscheuren van de vormafdichting en verhogen zo de veiligheid van het systeem

De interne afdichtrand zorgt voor een optimale afdichting tussen kleminzetstuk en tussenverloopstuk

De in het binnenhuis geplaatste vormafdichting maakt beschermingsklasse IP 68 tot 10 bar mogelijk

De beveiliging tegen verdraaiing voorkomt het verdraaien van het kleminzetstuk en de kabel bij de montage





| | | |
|-----------------------------|---------------------------|------------------|
| Materiaal | Vernikkeld messing | RoHS |
| Materiaal binnenhuis | Polyamide VO volgens UL94 | |
| Materiaal dichtring | NBR | LEAD FREE |
| Materiaal o-ring | NBR | |
| Beschermingsklasse | IP 68 – 10 bar / IP 69 K | |
| NEMA type rating | 4 / 4X / 6 | |
| Temperatuurbereik | -40°C tot +100°C | |

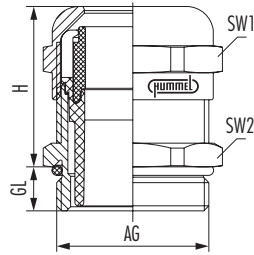
- // Andere afdichtingsmaterialen, bijv. silicone op aanvraag
- // Loodvrije versies verkrijgbaar in de maten M12 tot M63

| AG | ∅k mm | H mm | SW1/SW2 mm | ⊕ Nm | GL mm | Item nr. kort | GL mm | Item nr. lang |
|-----------|----------|---------|---------------|---------|----------|------------------|----------|------------------|
| M12 x 1,5 | 2 – 5 | 19 | 14/14 | 4 | 6,5 | 1.609.1200.51 | 10 | 1.609.1200.31 |
| M12 x 1,5 | 3 – 6,5 | 19 | 14/14 | 4 | 6,5 | 1.609.1200.50 | 10 | 1.609.1200.30 |
| M16 x 1,5 | 2 – 6 | 21 | 17/19 | 6 | 6 | 1.609.1600.51 | 10 | 1.609.1600.31 |
| M16 x 1,5 | 4 – 8 | 21 | 17/19 | 6 | 6 | 1.609.1600.50 | 10 | 1.609.1600.30 |
| M16 x 1,5 | 5 – 10 | 22 | 20/20 | 5 | 6 | 1.609.1611.50 | 10 | 1.609.1611.30 |
| M20 x 1,5 | 5 – 9 | 23 | 22/22 | 8 | 6 | 1.609.2000.51 | 10 | 1.609.2000.31 |
| M20 x 1,5 | 6 – 12 | 23 | 22/22 | 8 | 6 | 1.609.2000.50 | 10 | 1.609.2000.30 |
| M20 x 1,5 | 10 – 14 | 24 | 24/24 | 10 | 6 | 1.609.2016.50 | 10 | 1.609.2016.30 |
| M25 x 1,5 | 9 – 16 | 26 | 30/30 | 12 | 7 | 1.609.2500.51 | 12 | 1.609.2500.31 |
| M25 x 1,5 | 13 – 18 | 26 | 30/30 | 12 | 7 | 1.609.2500.50 | 12 | 1.609.2500.30 |
| M32 x 1,5 | 13 – 20 | 31 | 40/40 | 15 | 8 | 1.609.3200.51 | 12 | 1.609.3200.31 |
| M32 x 1,5 | 15 – 21 | 33 | 36/36 | 13 | 8 | 1.609.3200.52 | 12 | 1.609.3200.32 |
| M32 x 1,5 | 18 – 25 | 31 | 40/40 | 15 | 8 | 1.609.3200.50 | 12 | 1.609.3200.30 |
| M40 x 1,5 | 19 – 27 | 33 | 46/46 | 15 | 8 | 1.609.4000.52 | 15 | 1.609.4000.32 |
| M40 x 1,5 | 20 – 26 | 37 | 50/50 | 15 | 8 | 1.609.4000.51 | 15 | 1.609.4000.31 |
| M40 x 1,5 | 22 – 32 | 37 | 50/50 | 15 | 8 | 1.609.4000.50 | 15 | 1.609.4000.30 |
| M50 x 1,5 | 25 – 31 | 37 | 57/57 | 24 | 9 | 1.609.5000.51 | 15 | 1.609.5000.31 |
| M50 x 1,5 | 32 – 38 | 37 | 57/57 | 24 | 9 | 1.609.5000.50 | 15 | 1.609.5000.30 |
| M63 x 1,5 | 29 – 35 | 38 | 64/68 | 30 | 10 | 1.609.6300.51 | 15 | 1.609.6300.31 |
| M63 x 1,5 | 37 – 44 | 38 | 64/68 | 30 | 10 | 1.609.6300.50 | 15 | 1.609.6300.30 |



Kabelwartels van metaal

HSK-M (PG/-lang)



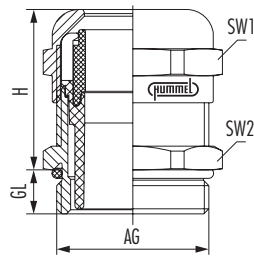
| | |
|----------------------|---------------------------|
| Materiaal | Vernikkeld messing |
| Materiaal binnenhuis | Polyamide VO volgens UL94 |
| Materiaal dichtring | NBR |
| Materiaal o-ring | NBR |
| Beschermingsklasse | IP 68 – 10 bar / IP 69 K |
| NEMA type rating | 4 / 4X / 6 |
| Temperatuurbereik | -40°C tot +100°C |

RoHS

- // Andere afdichtingsmaterialen, bijv. silicone op aanvraag
- // Loodvrije versies verkrijgbaar in de maten M12 tot M63

| AG | ∅k mm | H mm | SW1/SW2 mm | ⊕ Nm | GL mm | Item nr. kort | GL mm | Item nr. lang |
|---------|----------|---------|---------------|---------|----------|------------------|----------|------------------|
| PG 7 | 2 – 5 | 19 | 14/14 | 4 | 5 | 1.609.0700.15 | 10 | 1.609.0700.61 |
| PG 7 | 3 – 6,5 | 19 | 14/14 | 4 | 5 | 1.609.0700.01 | 10 | 1.609.0700.60 |
| PG 9 | 2 – 6 | 21 | 17/17 | 6 | 6 | 1.609.0900.15 | 10 | 1.609.0900.61 |
| PG 9 | 4 – 8 | 21 | 17/17 | 6 | 6 | 1.609.0900.01 | 10 | 1.609.0900.60 |
| PG 11 | 3 – 7 | 22 | 20/20 | 5 | 6 | 1.609.1100.15 | 10 | 1.609.1100.61 |
| PG 11 | 5 – 10 | 22 | 20/20 | 5 | 6 | 1.609.1100.01 | 10 | 1.609.1100.60 |
| PG 13,5 | 5 – 9 | 24 | 22/22 | 8 | 6,5 | 1.609.1300.15 | 10 | 1.609.1300.61 |
| PG 13,5 | 6 – 12 | 24 | 22/22 | 8 | 6,5 | 1.609.1300.01 | 10 | 1.609.1300.60 |
| PG 16 | 7 – 12 | 23 | 24/24 | 10 | 6,5 | 1.609.1600.15 | 10 | 1.609.1600.61 |
| PG 16 | 10 – 14 | 23 | 24/24 | 10 | 6,5 | 1.609.1600.01 | 10 | 1.609.1600.60 |
| PG 21 | 9 – 16 | 24 | 30/30 | 12 | 7 | 1.609.2100.15 | 12 | 1.609.2100.61 |
| PG 21 | 13 – 18 | 24 | 30/30 | 12 | 7 | 1.609.2100.01 | 12 | 1.609.2100.60 |
| PG 29 | 13 – 20 | 29 | 40/40 | 15 | 8 | 1.609.2900.15 | 12 | 1.609.2900.61 |
| PG 29 | 18 – 25 | 29 | 40/40 | 15 | 8 | 1.609.2900.01 | 12 | 1.609.2900.60 |
| PG 36 | 20 – 26 | 35 | 50/50 | 15 | 8 | 1.609.3600.15 | 15 | 1.609.3600.61 |
| PG 36 | 22 – 32 | 35 | 50/50 | 15 | 8 | 1.609.3600.01 | 15 | 1.609.3600.60 |
| PG 42 | 25 – 31 | 37 | 57/57 | 24 | 9 | 1.609.4200.15 | 15 | 1.609.4200.61 |
| PG 42 | 32 – 38 | 37 | 57/57 | 24 | 9 | 1.609.4200.01 | 15 | 1.609.4200.60 |
| PG 48 | 29 – 35 | 38 | 64/64 | 30 | 10 | 1.609.4800.15 | 15 | 1.609.4800.61 |
| PG 48 | 37 – 44 | 38 | 64/64 | 30 | 10 | 1.609.4800.01 | 15 | 1.609.4800.60 |






| | |
|-----------------------------|---------------------------|
| Materiaal | Vernikkeld messing |
| Materiaal binnenhuis | Polyamide VO volgens UL94 |
| Materiaal dichtring | NBR |
| Materiaal o-ring | NBR |
| Beschermingsklasse | IP 68 – 10 bar / IP 69 K |
| NEMA type rating | 4 / 4X / 6 |
| Temperatuurbereik | -40°C tot +100°C |

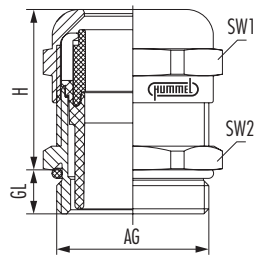
RoHS

- // Andere afdichtingsmaterialen, bijv. silicone op aanvraag
- // Loodvrije versies verkrijgbaar in de maten M12 tot M63

| AG | ∅k mm | GL mm | H mm | SW1/SW2 mm |  Nm | Item nr. |
|----------|----------|----------|---------|---------------|---|---------------|
| NPT 3/8" | 2 – 6 | 15 | 21 | 17/19 | 6 | 1.609.3800.71 |
| NPT 3/8" | 4 – 8 | 15 | 21 | 17/19 | 6 | 1.609.3800.70 |
| NPT 1/2" | 5 – 9 | 13 | 24 | 22/24 | 8 | 1.609.1200.71 |
| NPT 1/2" | 6 – 12 | 13 | 24 | 22/24 | 8 | 1.609.1200.70 |
| NPT 3/4" | 9 – 16 | 13 | 25 | 30/30 | 12 | 1.609.3400.71 |
| NPT 3/4" | 13 – 18 | 13 | 25 | 30/30 | 12 | 1.609.3400.70 |
| NPT 1" | 13 – 20 | 19 | 29 | 40/40 | 15 | 1.609.1000.71 |
| NPT 1" | 18 – 25 | 19 | 29 | 40/40 | 15 | 1.609.1000.70 |

Kabelwartels van metaal

HSK-M-PVDF (metrisch/-lang)



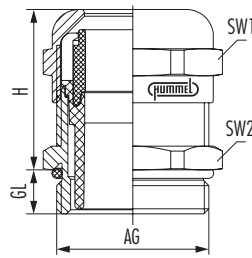
| | |
|-----------------------------|--------------------------|
| Materiaal | Vernikkeld messing |
| Materiaal binnenhuis | PVDF |
| Materiaal dichtring | FKM |
| Materiaal o-ring | FKM |
| Beschermingsklasse | IP 68 – 10 bar / IP 69 K |
| NEMA type rating | 4 / 4X / 6 |
| Temperatuurbereik | -35°C tot +150°C |

RoHS

// Andere afdichtingsmaterialen, bijv. silicone op aanvraag

| AG | ∅k mm | H mm | SW1/SW2 mm | ⊕ Nm | GL mm | Item nr. kort | GL mm | Item nr. lang |
|-----------|----------|---------|---------------|---------|----------|------------------|----------|------------------|
| M12 x 1,5 | 2 – 5 | 19 | 14/14 | 4 | 6,5 | 1.699.1200.51 | 10 | 1.699.1200.31 |
| M12 x 1,5 | 3 – 6,5 | 19 | 14/14 | 4 | 6,5 | 1.699.1200.50 | 10 | 1.699.1200.30 |
| M16 x 1,5 | 2 – 6 | 21 | 17/19 | 6 | 6 | 1.699.1600.51 | 10 | 1.699.1600.31 |
| M16 x 1,5 | 4 – 8 | 21 | 17/19 | 6 | 6 | 1.699.1600.50 | 10 | 1.699.1600.30 |
| M16 x 1,5 | 5 – 10 | 22 | 20/20 | 6 | 6 | 1.699.1611.50 | 10 | 1.699.1611.30 |
| M20 x 1,5 | 5 – 9 | 23 | 22/22 | 8 | 6 | 1.699.2000.51 | 10 | 1.699.2000.31 |
| M20 x 1,5 | 6 – 12 | 23 | 22/22 | 8 | 6 | 1.699.2000.50 | 10 | 1.699.2000.30 |
| M20 x 1,5 | 10 – 14 | 24 | 24/24 | 10 | 6 | 1.699.2016.50 | 10 | 1.699.2016.30 |
| M25 x 1,5 | 9 – 16 | 26 | 30/30 | 10 | 7 | 1.699.2500.51 | 12 | 1.699.2500.31 |
| M25 x 1,5 | 13 – 18 | 26 | 30/30 | 10 | 7 | 1.699.2500.50 | 12 | 1.699.2500.30 |
| M32 x 1,5 | 13 – 20 | 31 | 40/40 | 13 | 8 | 1.699.3200.51 | 12 | 1.699.3200.31 |
| M32 x 1,5 | 18 – 25 | 31 | 40/40 | 13 | 8 | 1.699.3200.50 | 12 | 1.699.3200.30 |
| M40 x 1,5 | 20 – 26 | 37 | 50/50 | 15 | 8 | 1.699.4000.51 | 15 | 1.699.4000.31 |
| M40 x 1,5 | 22 – 32 | 37 | 50/50 | 15 | 8 | 1.699.4000.50 | 15 | 1.699.4000.30 |





| | |
|-----------------------------|--------------------------|
| Materiaal | Vernikkeld messing |
| Materiaal binnenhuis | PVDF |
| Materiaal dichtring | FKM |
| Materiaal o-ring | FKM |
| Beschermingsklasse | IP 68 – 10 bar / IP 69 K |
| NEMA type rating | 4 / 4X / 6 |
| Temperatuurbereik | -35°C tot +150°C |

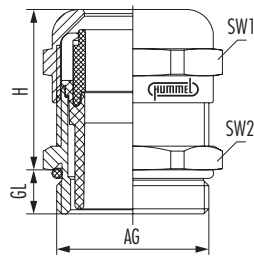
RoHS

// Andere afdichtingsmaterialen, bijv. silicone op aanvraag

| AG | ∅k mm | H mm | SW1/SW2 mm | ⊕ Nm | GL mm | Item nr. kort | GL mm | Item nr. lang |
|---------|----------|---------|---------------|---------|----------|------------------|----------|------------------|
| PG 7 | 2 – 5 | 19 | 14/14 | 4 | 5 | 1.699.0700.15 | 10 | 1.699.0700.61 |
| PG 7 | 3 – 6,5 | 19 | 14/14 | 4 | 5 | 1.699.0700.01 | 10 | 1.699.0700.60 |
| PG 9 | 2 – 6 | 21 | 17/17 | 6 | 6 | 1.699.0900.15 | 10 | 1.699.0900.61 |
| PG 9 | 4 – 8 | 21 | 17/17 | 6 | 6 | 1.699.0900.01 | 10 | 1.699.0900.60 |
| PG 11 | 3 – 7 | 22 | 20/20 | 6 | 6 | 1.699.1100.15 | 10 | 1.699.1100.61 |
| PG 11 | 5 – 10 | 22 | 20/20 | 6 | 6 | 1.699.1100.01 | 10 | 1.699.1100.60 |
| PG 13,5 | 5 – 9 | 24 | 22/22 | 8 | 6,5 | 1.699.1300.15 | 10 | 1.699.1300.61 |
| PG 13,5 | 6 – 12 | 24 | 22/22 | 8 | 6,5 | 1.699.1300.01 | 10 | 1.699.1300.60 |
| PG 16 | 7 – 12 | 23 | 24/24 | 10 | 6,5 | 1.699.1600.15 | 10 | 1.699.1600.61 |
| PG 16 | 10 – 14 | 23 | 24/24 | 10 | 6,5 | 1.699.1600.01 | 10 | 1.699.1600.60 |
| PG 21 | 9 – 16 | 24 | 30/30 | 10 | 7 | 1.699.2100.15 | 12 | 1.699.2100.61 |
| PG 21 | 13 – 18 | 24 | 30/30 | 10 | 7 | 1.699.2100.01 | 12 | 1.699.2100.60 |
| PG 29 | 13 – 20 | 29 | 40/40 | 13 | 8 | 1.699.2900.15 | 12 | 1.699.2900.61 |
| PG 29 | 18 – 25 | 29 | 40/40 | 13 | 8 | 1.699.2900.01 | 12 | 1.699.2900.60 |
| PG 36 | 20 – 26 | 35 | 50/50 | 15 | 8 | 1.699.3600.15 | 15 | 1.699.3600.61 |
| PG 36 | 22 – 32 | 35 | 50/50 | 15 | 8 | 1.699.3600.01 | 15 | 1.699.3600.60 |
| PG 42 | 25 – 31 | 37 | 57/57 | 24 | 9 | 1.699.4200.15 | 15 | 1.699.4200.61 |
| PG 42 | 32 – 38 | 37 | 57/57 | 24 | 9 | 1.699.4200.01 | 15 | 1.699.4200.60 |
| PG 48 | 29 – 35 | 38 | 64/64 | 30 | 10 | 1.699.4800.15 | 15 | 1.699.4800.61 |
| PG 48 | 37 – 44 | 38 | 64/64 | 30 | 10 | 1.699.4800.01 | 15 | 1.699.4800.60 |

Kabelwartels van metaal


HSK-M-PVDF (NPT)



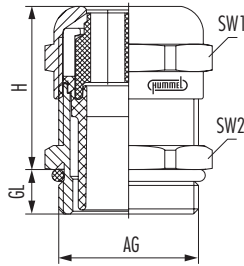
| | |
|-----------------------------|--------------------------|
| Materiaal | Vernikkeld messing |
| Materiaal binnenhuis | PVDF |
| Materiaal dichtring | FKM |
| Materiaal o-ring | FKM |
| Beschermingsklasse | IP 68 – 10 bar / IP 69 K |
| NEMA type rating | 4 / 4X / 6 |
| Temperatuurbereik | -35°C tot +150°C |

RoHS

// Andere afdichtingsmaterialen, bijv. silicone op aanvraag

| AG | ∅k mm | GL mm | H mm | SW1/SW2 mm |  Nm | Item nr. |
|----------|----------|----------|---------|---------------|---|---------------|
| NPT 3/8" | 2 – 6 | 15 | 21 | 17/19 | 6 | 1.699.3800.71 |
| NPT 3/8" | 4 – 8 | 15 | 21 | 17/19 | 6 | 1.699.3800.70 |
| NPT 1/2" | 5 – 9 | 13 | 24 | 22/24 | 8 | 1.699.1200.71 |
| NPT 1/2" | 6 – 12 | 13 | 24 | 22/24 | 8 | 1.699.1200.70 |
| NPT 3/4" | 9 – 16 | 13 | 25 | 30/30 | 10 | 1.699.3400.71 |
| NPT 3/4" | 13 – 18 | 13 | 25 | 30/30 | 10 | 1.699.3400.70 |





| | |
|-----------------------------|---|
| Materiaal | Vernikkeld messing |
| Materiaal binnenhuis | Polyamide VO volgens UL94 |
| Materiaal dichtring | Elastomeer |
| Materiaal o-ring | NBR |
| Beschermingsklasse | IP 65 / IP 68 – 10 bar met optimale toewijzing van alle gaten |
| Temperatuurbereik | -40°C tot +100°C |

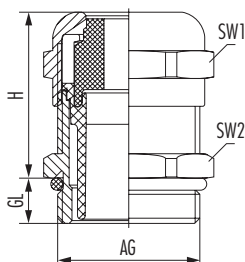
RoHS

- // Roestvaststaal op aanvraag
- // Deze inserts zijn voorbeelden, verdere inserts op aanvraag
- // Lang aansluitschroefdraad op aanvraag
- // Variant "Aantal boringen x d = -": zonder boring

| AG | GL mm | H mm | SW1/SW2 mm | ⊕ Nm | Aantal boringen x d | Item nr. | Aantal boringen x d | Item nr. |
|-----------|----------|---------|---------------|---------|------------------------|---------------|------------------------|---------------|
| M12 x 1,5 | 6,5 | 19 | 14/14 | 4 | - | 1.697.1299.50 | | |
| M16 x 1,5 | 6 | 21 | 17/19 | 5 | 2 x 3 | 1.697.1601.50 | 4 x 1,4 | 1.697.1600.50 |
| M20 x 1,5 | 6 | 23 | 22/22 | 10 | 2 x 5 | 1.697.2003.50 | 6 x 3 | 1.697.2001.50 |
| M25 x 1,5 | 7 | 26 | 30/30 | 12 | 3 x 7 | 1.697.2501.50 | 4 x 6 | 1.697.2500.50 |
| M32 x 1,5 | 8 | 31 | 40/40 | 15 | 4 x 9 | 1.697.3201.50 | 6 x 6,5 | 1.697.3200.50 |
| M40 x 1,5 | 8 | 37 | 50/50 | 15 | 2 x 15 | 1.697.4003.50 | 7 x 9 | 1.697.4001.50 |
| M50 x 1,5 | 9 | 37 | 57/57 | 24 | - | 1.697.5099.50 | | |
| M63 x 1,5 | 10 | 38 | 64/68 | 30 | 3 x 18 | 1.697.6302.50 | 6 x 12 | 1.697.6301.50 |
| PG 7 | 5 | 19 | 14/14 | 4 | - | 1.697.0799.01 | | |
| PG 9 | 6 | 21 | 17/17 | 5 | 2 x 3 | 1.697.0901.01 | 4 x 1,4 | 1.697.0900.01 |
| PG 11 | 6 | 22 | 20/20 | 8 | 2 x 4 | 1.697.1102.01 | 3 x 3 | 1.697.1101.01 |
| PG 13,5 | 6,5 | 24 | 22/22 | 10 | 2 x 5 | 1.697.1303.01 | 3 x 4 | 1.697.1302.01 |
| PG 16 | 6,5 | 23 | 24/24 | 10 | 2 x 6 | 1.697.1605.01 | 3 x 5,6 | 1.697.1606.01 |
| PG 16 | 6,5 | 23 | 24/24 | 10 | 4 x 4 | 1.697.1602.01 | 6 x 4 | 1.697.1604.01 |
| PG 21 | 7 | 24 | 30/30 | 12 | 3 x 7 | 1.697.2101.01 | 4 x 6 | 1.697.2100.01 |
| PG 29 | 8 | 29 | 40/40 | 15 | 4 x 9 | 1.697.2901.01 | 6 x 6,5 | 1.697.2900.01 |
| PG 36 | 8 | 35 | 50/50 | 15 | 2 x 15 | 1.697.3603.01 | 7 x 9 | 1.697.3601.01 |
| PG 42 | 9 | 37 | 57/57 | 24 | - | 1.697.4299.01 | | |
| PG 48 | 10 | 38 | 64/64 | 30 | 3 x 18 | 1.697.4802.01 | 6 x 12 | 1.697.4801.01 |
| NPT 3/8" | 15 | 21 | 17/19 | 5 | 2 x 3 | 1.697.3801.70 | 4 x 1,4 | 1.697.3800.70 |
| NPT 1/2" | 13 | 24 | 24/24 | 10 | 2 x 5 | 1.697.1203.70 | 3 x 4 | 1.697.1202.70 |
| NPT 3/4" | 13 | 25 | 30/30 | 12 | 3 x 7 | 1.697.3401.70 | 4 x 6 | 1.697.3400.70 |
| NPT 1" | 19 | 29 | 40/40 | 15 | 4 x 9 | 1.697.1001.70 | 6 x 6,5 | 1.697.1000.70 |

Kabelwartels van metaal

HSK-M-Flaka (metrisch, PG, NPT)



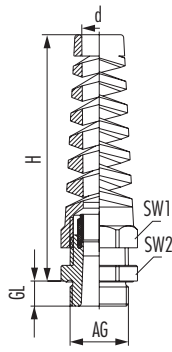
| | |
|-----------------------------|---|
| Materiaal | Vernikkeld messing |
| Materiaal binnenhuis | Polyamide VO volgens UL94 |
| Materiaal dichtring | Elastomeer |
| Materiaal o-ring | NBR |
| Beschermingsklasse | IP 65 / IP 68 – 10 bar met optimale toewijzing van alle gaten |
| Temperatuurbereik | -40°C tot +100°C |

RoHS

- // Roestvaststaal op aanvraag
- // Deze inserts zijn voorbeelden, verdere inserts op aanvraag
- // Lang aansluitschroefdraad op aanvraag

| AG | GL mm | H mm | SW1/SW2 mm | B x H mm | Item nr. | B x H mm | Item nr. |
|-----------|----------|---------|---------------|-------------|---------------|-------------|---------------|
| M20 x 1,5 | 6 | 24 | 24/24 | 11,5 x 5 | 1.688.2016.50 | 12 x 7 | 1.688.2017.50 |
| M20 x 1,5 | 6 | 24 | 24/24 | 14 x 6 | 1.688.2018.50 | | |
| M25 x 1,5 | 7 | 26 | 30/30 | 14 x 7 | 1.688.2501.50 | 14 x 6 | 1.688.2500.50 |
| M32 x 1,5 | 8 | 31 | 40/40 | 22 x 8 | 1.688.3200.50 | | |
| M40 x 1,5 | 8 | 37 | 50/50 | 28,5 x 10 | 1.688.4000.50 | 29 x 5,5 | 1.688.4001.50 |
| M40 x 1,5 | 8 | 37 | 50/50 | 30,5 x 12 | 1.688.4002.50 | 31 x 7,5 | 1.688.4003.50 |
| M50 x 1,5 | 9 | 37 | 57/57 | 33,5 x 11,5 | 1.688.5000.50 | | |
| M63 x 1,5 | 10 | 38 | 64/68 | 38 x 12 | 1.688.6300.50 | | |
| PG 16 | 6,5 | 23 | 24/24 | 11,5 x 5 | 1.688.1600.01 | 12 x 7 | 1.688.1601.01 |
| PG 16 | 6,5 | 23 | 24/24 | 14 x 6 | 1.688.1602.01 | | |
| PG 21 | 7 | 24 | 30/30 | 14 x 7 | 1.688.2101.01 | 14 x 6 | 1.688.2100.01 |
| PG 29 | 8 | 29 | 40/40 | 22 x 8 | 1.688.2900.01 | | |
| PG 36 | 8 | 35 | 50/50 | 28,5 x 10 | 1.688.3600.01 | 29 x 5,5 | 1.688.3601.01 |
| PG 36 | 8 | 35 | 50/50 | 30,5 x 12 | 1.688.3602.01 | 31 x 7,5 | 1.688.3603.01 |
| PG 42 | 9 | 37 | 57/57 | 33,5 x 11,5 | 1.688.4200.01 | | |
| PG 48 | 10 | 38 | 64/64 | 38 x 12 | 1.688.4802.01 | | |
| NPT 3/4" | 13 | 25 | 30/30 | 14 x 6 | 1.688.3400.70 | 14 x 7 | 1.688.3401.70 |
| NPT 1" | 19 | 29 | 40/40 | 22 x 8 | 1.688.1000.70 | | |





| | |
|----------------------|---------------------------|
| Materiaal | Vernikkeld messing |
| Knikbeschermingsveer | INOX 1.4310 |
| Materiaal binnenhuis | Polyamide VO volgens UL94 |
| Materiaal dichtring | NBR |
| Materiaal o-ring | NBR |
| Beschermingsklasse | IP 68 – 10 bar / IP 69 K |
| NEMA type rating | 4 / 4X / 6 |
| Temperatuurbereik | -40°C tot +100°C |

RoHS

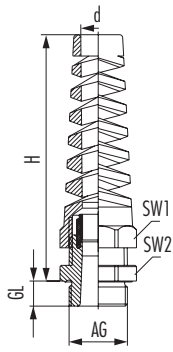
// Andere afdichtingsmaterialen, bijv. silicone op aanvraag

| AG | ∅k mm | d mm | H mm | SW1/SW2 mm | ⊕ Nm | GL mm | Item nr. kort | GL mm | Item nr. lang |
|-----------|----------|---------|---------|---------------|---------|----------|------------------|----------|------------------|
| M12 x 1,5 | 2 – 5 | 6,8 | 55 | 14/14 | 4 | 6,5 | 1.623.1200.51 | 10 | 1.623.1200.31 |
| M12 x 1,5 | 3 – 6,5 | 6,8 | 55 | 14/14 | 4 | 6,5 | 1.623.1200.50 | 10 | 1.623.1200.30 |
| M16 x 1,5 | 2 – 6 | 8,2 | 66 | 19/19 | 6 | 6 | 1.623.1600.51 | | |
| M16 x 1,5 | 3 – 7 | 10,3 | 77 | 20/20 | 5 | 6 | 1.623.1611.51 | 10 | 1.623.1611.31 |
| M16 x 1,5 | 4 – 8 | 8,2 | 66 | 19/19 | 6 | 6 | 1.623.1600.50 | | |
| M16 x 1,5 | 5 – 10 | 10,3 | 77 | 20/20 | 5 | 6 | 1.623.1611.50 | 10 | 1.623.1611.30 |
| M20 x 1,5 | 5 – 9 | 12,3 | 88 | 22/22 | 8 | 6 | 1.623.2000.51 | | |
| M20 x 1,5 | 6 – 12 | 12,3 | 88 | 22/22 | 8 | 6 | 1.623.2000.50 | 10 | 1.623.2000.30 |
| M20 x 1,5 | 7 – 12 | 14,3 | 98 | 24/24 | 10 | 6 | 1.623.2016.51 | 10 | 1.623.2016.31 |
| M20 x 1,5 | 10 – 14 | 14,3 | 98 | 24/24 | 10 | 6 | 1.623.2016.50 | 10 | 1.623.2016.30 |
| M25 x 1,5 | 9 – 16 | 18,4 | 111 | 30/30 | 12 | 7 | 1.623.2500.51 | 12 | 1.623.2500.31 |
| M25 x 1,5 | 13 – 18 | 18,4 | 111 | 30/30 | 12 | 7 | 1.623.2500.50 | 12 | 1.623.2500.30 |
| PG 7 | 2 – 5 | 6,8 | 55 | 14/14 | 4 | 5 | 1.623.0700.15 | 10 | 1.623.0700.61 |
| PG 7 | 3 – 6,5 | 6,8 | 55 | 14/14 | 4 | 5 | 1.623.0700.01 | 10 | 1.623.0700.60 |
| PG 9 | 2 – 6 | 8,2 | 66 | 17/17 | 6 | 6 | 1.623.0900.15 | 10 | 1.623.0900.61 |
| PG 9 | 4 – 8 | 8,2 | 66 | 17/17 | 6 | 6 | 1.623.0900.01 | 10 | 1.623.0900.60 |
| PG 11 | 3 – 7 | 10,3 | 77 | 20/20 | 5 | 6 | 1.623.1100.15 | 10 | 1.623.1100.61 |
| PG 11 | 5 – 10 | 10,3 | 77 | 20/20 | 5 | 6 | 1.623.1100.01 | 10 | 1.623.1100.60 |
| PG 13,5 | 5 – 9 | 12,3 | 88 | 22/22 | 8 | 6,5 | 1.623.1300.15 | 10 | 1.623.1300.61 |
| PG 13,5 | 6 – 12 | 12,3 | 88 | 22/22 | 8 | 6,5 | 1.623.1300.01 | 10 | 1.623.1300.60 |
| PG 16 | 7 – 12 | 14,3 | 98 | 24/24 | 10 | 6,5 | 1.623.1600.15 | 10 | 1.623.1600.61 |
| PG 16 | 10 – 14 | 14,3 | 98 | 24/24 | 10 | 6,5 | 1.623.1600.01 | 10 | 1.623.1600.60 |
| PG 21 | 9 – 16 | 18,4 | 111 | 30/30 | 12 | 7 | 1.623.2100.15 | 12 | 1.623.2100.61 |
| PG 21 | 13 – 18 | 18,4 | 111 | 30/30 | 12 | 7 | 1.623.2100.01 | 12 | 1.623.2100.60 |



Kabelwartels van metaal

HSK-M-Flex (NPT)



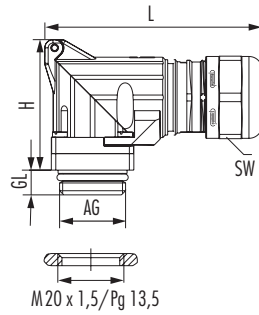
| | |
|----------------------|---------------------------|
| Materiaal | Vernikkeld messing |
| Knikbeschermingsveer | INOX 1.4310 |
| Materiaal binnenhuis | Polyamide VO volgens UL94 |
| Materiaal dichtring | NBR |
| Materiaal o-ring | NBR |
| Beschermingsklasse | IP 68 – 10 bar / IP 69 K |
| NEMA type rating | 4 / 4X / 6 |
| Temperatuurbereik | -40°C tot +100°C |

RoHS

// Andere afdichtingsmaterialen, bijv. silicone op aanvraag

| AG | ∅* mm | d mm | GL mm | H mm | SW1/SW2 mm | ⌀ Nm | Item nr. |
|----------|----------|---------|----------|---------|---------------|---------|---------------|
| NPT 3/8" | 2 – 6 | 8,2 | 15 | 66 | 17/19 | 6 | 1.623.3800.71 |
| NPT 3/8" | 4 – 8 | 8,2 | 15 | 66 | 17/19 | 6 | 1.623.3800.70 |
| NPT 1/2" | 5 – 9 | 12,3 | 13 | 88 | 22/24 | 8 | 1.623.1200.71 |
| NPT 1/2" | 6 – 12 | 12,3 | 13 | 88 | 22/24 | 8 | 1.623.1200.70 |
| NPT 3/4" | 9 – 16 | 18,4 | 13 | 111 | 33/33 | 12 | 1.623.3400.71 |
| NPT 3/4" | 13 – 18 | 18,4 | 13 | 111 | 33/33 | 12 | 1.623.3400.70 |





| | |
|-----------------------------|---------------------------|
| Materiaal | Vernikkeld messing |
| Materiaal binnenhuis | Polyamide VO volgens UL94 |
| Materiaal dichtring | NBR |
| Materiaal o-ring | NBR |
| Beschermingsklasse | IP 68 |
| Temperatuurbereik | -40°C tot +100°C |

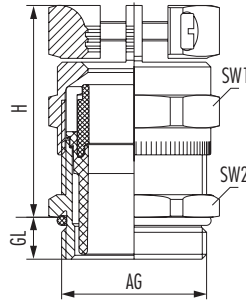
RoHS

// Andere afdichtingsmaterialen, bijv. silicone op aanvraag

| AG | ∅k mm | GL mm | H mm | L mm | SW mm | Nm | Versie | Item nr. |
|-----------|----------|----------|---------|---------|----------|----|-------------------|---------------|
| M20 x 1,5 | 7 – 12 | 6 | 37 | 66 | 25 | 6 | met aansluitdraad | 1.309.2020.51 |
| M20 x 1,5 | 10 – 14 | 6 | 37 | 66 | 25 | 6 | met aansluitdraad | 1.309.2020.50 |
| PG 13,5 | 7 – 12 | 6 | 37 | 66 | 25 | 6 | met aansluitdraad | 1.309.2013.51 |
| PG 13,5 | 10 – 14 | 6 | 37 | 66 | 25 | 6 | met aansluitdraad | 1.309.2013.50 |
| | 7 – 12 | | 29 | 66 | 25 | 6 | met montageflens | 1.309.2000.51 |
| | 10 – 14 | | 29 | 66 | 25 | 6 | met montageflens | 1.309.2000.50 |

Kabelwartels van metaal

HSK-MZ (metrisch/lang, PG/lang)



| | |
|-----------------------------|---------------------------|
| Materiaal | Vernikkeld messing |
| Materiaal binnenhuis | Polyamide VO volgens UL94 |
| Materiaal dichtring | NBR |
| Materiaal o-ring | NBR |
| Beschermingsklasse | IP 68 – 10 bar / IP 69 K |
| NEMA type rating | 4 / 4X / 6 |
| Temperatuurbereik | -40°C tot +100°C |

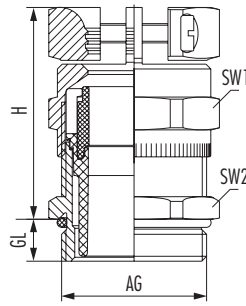
RoHS

// Andere afdichtingsmaterialen, bijv. silicone op aanvraag

| AG | ∅k mm | H mm | SW1/SW2 mm | ⊕ Nm | GL mm | Item nr. kort | GL mm | Item nr. lang |
|-----------|----------|---------|---------------|---------|----------|------------------|----------|------------------|
| M12 x 1,5 | 3 – 6,5 | 26 | 14/14 | 4 | 6,5 | 1.690.1200.50 | 10 | 1.690.1200.30 |
| M16 x 1,5 | 4 – 8 | 28 | 19/19 | 6 | 6 | 1.690.1600.50 | 10 | 1.690.1600.30 |
| M16 x 1,5 | 5 – 10 | 30 | 20/20 | 5 | 6 | 1.690.1611.50 | 10 | 1.690.1611.30 |
| M20 x 1,5 | 6 – 12 | 33 | 22/22 | 8 | 6 | 1.690.2000.50 | 10 | 1.690.2000.30 |
| M20 x 1,5 | 10 – 14 | 33 | 24/24 | 10 | 6 | 1.690.2016.50 | 10 | 1.690.2016.30 |
| M25 x 1,5 | 13 – 18 | 37 | 30/30 | 12 | 7 | 1.690.2500.50 | 12 | 1.690.2500.30 |
| M32 x 1,5 | 18 – 25 | 43 | 40/40 | 15 | 8 | 1.690.3200.50 | 12 | 1.690.3200.30 |
| M40 x 1,5 | 22 – 32 | 50 | 50/50 | 15 | 8 | 1.690.4000.50 | 15 | 1.690.4000.30 |
| M50 x 1,5 | 25 – 31 | 51 | 57/57 | 24 | 9 | 1.690.5000.51 | 15 | 1.690.5000.31 |
| M50 x 1,5 | 32 – 38 | 51 | 57/57 | 24 | 9 | 1.690.5000.50 | 15 | 1.690.5000.30 |
| M63 x 1,5 | 29 – 35 | 52 | 64/68 | 30 | 10 | 1.690.6300.51 | 15 | 1.690.6300.31 |
| M63 x 1,5 | 37 – 44 | 52 | 64/68 | 30 | 10 | 1.690.6300.50 | 15 | 1.690.6300.30 |
| PG 7 | 3 – 6,5 | 26 | 14/14 | 4 | 5 | 1.690.0700.01 | 10 | 1.690.0700.60 |
| PG 9 | 4 – 8 | 28 | 17/17 | 6 | 6 | 1.690.0900.01 | 10 | 1.690.0900.60 |
| PG 11 | 5 – 10 | 30 | 20/20 | 5 | 6 | 1.690.1100.01 | 10 | 1.690.1100.60 |
| PG 13,5 | 6 – 12 | 33 | 22/22 | 8 | 6,5 | 1.690.1300.01 | 10 | 1.690.1300.60 |
| PG 16 | 10 – 14 | 33 | 24/24 | 10 | 6,5 | 1.690.1600.01 | 10 | 1.690.1600.60 |
| PG 21 | 13 – 18 | 37 | 30/30 | 12 | 7 | 1.690.2100.01 | 12 | 1.690.2100.60 |
| PG 29 | 18 – 25 | 43 | 40/40 | 15 | 8 | 1.690.2900.60 | 15 | 1.690.2900.01 |
| PG 36 | 22 – 32 | 50 | 50/50 | 15 | 8 | 1.690.3600.60 | 15 | 1.690.3600.01 |
| PG 42 | 25 – 31 | 51 | 57/57 | 24 | 9 | 1.690.4200.61 | 15 | 1.690.4200.15 |
| PG 42 | 32 – 38 | 51 | 57/57 | 24 | 9 | 1.690.4200.60 | 15 | 1.690.4200.01 |
| PG 48 | 29 – 35 | 51 | 64/64 | 30 | 10 | 1.690.4800.61 | 15 | 1.690.4800.15 |
| PG 48 | 37 – 44 | 52 | 64/64 | 30 | 10 | 1.690.4800.60 | 15 | 1.690.4800.01 |




RoHS



| | |
|----------------------|---------------------------|
| Materiaal | Vernikkeld messing |
| Materiaal binnenhuis | Polyamide VO volgens UL94 |
| Materiaal dichtring | NBR |
| Materiaal o-ring | NBR |
| Beschermingsklasse | IP 68 – 10 bar / IP 69 K |
| NEMA type rating | 4 / 4X / 6 |
| Temperatuurbereik | -40°C tot +100°C |

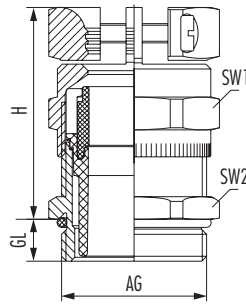
// Andere afdichtingsmaterialen, bijv. silicone op aanvraag

| AG | ∅k mm | GL mm | H mm | SW1/SW2 mm |  Nm | Item nr. |
|----------|----------|----------|---------|---------------|---|---------------|
| NPT 3/8" | 4 – 8 | 15 | 28 | 17/19 | 6 | 1.690.3800.70 |
| NPT 1/2" | 7 – 12 | 13 | 33 | 22/24 | 8 | 1.690.1200.70 |
| NPT 3/4" | 13 – 18 | 13 | 37 | 30/30 | 12 | 1.690.3400.70 |
| NPT 1" | 18 – 25 | 19 | 43 | 40/40 | 15 | 1.690.1000.70 |



Kabelwartels van metaal


HSK-MZ-PVDF (metrisch, PG, NPT)



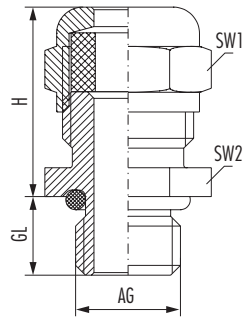
| | |
|----------------------|--------------------------|
| Materiaal | Vernikkeld messing |
| Materiaal binnenhuis | PVDF |
| Materiaal dichtring | FKM |
| Materiaal o-ring | FKM |
| Beschermingsklasse | IP 68 – 10 bar / IP 69 K |
| Temperatuurbereik | -35°C tot +150°C |

RoHS

// Andere afdichtingsmaterialen, bijv. silicone op aanvraag

| AG | ∅k mm | GL mm | H mm | SW1/SW2 mm |  Nm | Item nr. |
|-----------|----------|----------|---------|---------------|---|---------------|
| M12 x 1,5 | 3 – 6,5 | 6,5 | 26 | 14/14 | 4 | 1.669.1200.50 |
| M16 x 1,5 | 4 – 8 | 6 | 28 | 19/19 | 6 | 1.669.1600.50 |
| M16 x 1,5 | 5 – 10 | 6 | 30 | 20/20 | 5 | 1.669.1611.50 |
| M20 x 1,5 | 6 – 12 | 6 | 33 | 22/22 | 8 | 1.669.2000.50 |
| M20 x 1,5 | 10 – 14 | 6 | 33 | 24/24 | 10 | 1.669.2016.50 |
| M25 x 1,5 | 13 – 18 | 7 | 37 | 30/30 | 12 | 1.669.2500.50 |
| M32 x 1,5 | 18 – 25 | 8 | 43 | 40/40 | 15 | 1.669.3200.50 |
| M40 x 1,5 | 22 – 32 | 8 | 50 | 50/50 | 15 | 1.669.4000.50 |
| PG 7 | 3 – 6,5 | 5 | 26 | 14/14 | 4 | 1.669.0700.01 |
| PG 9 | 4 – 8 | 6 | 28 | 17/17 | 6 | 1.669.0900.01 |
| PG 11 | 5 – 10 | 6 | 30 | 20/20 | 5 | 1.669.1100.01 |
| PG 13,5 | 6 – 12 | 6,5 | 33 | 22/22 | 8 | 1.669.1300.01 |
| PG 16 | 10 – 14 | 6,5 | 33 | 24/24 | 10 | 1.669.1600.01 |
| PG 21 | 13 – 18 | 7 | 37 | 30/30 | 12 | 1.669.2100.01 |
| PG 29 | 18 – 25 | 8 | 43 | 40/40 | 15 | 1.669.2900.01 |
| PG 36 | 22 – 32 | 8 | 50 | 50/50 | 15 | 1.669.3600.01 |
| PG 42 | 25 – 31 | 9 | 51 | 57/57 | 24 | 1.669.4200.15 |
| PG 42 | 32 – 38 | 9 | 51 | 57/57 | 24 | 1.669.4200.01 |
| PG 48 | 29 – 35 | 10 | 51 | 64/64 | 30 | 1.669.4800.15 |
| PG 48 | 37 – 44 | 10 | 52 | 64/64 | 30 | 1.669.4800.01 |
| NPT 3/8" | 4 – 8 | 15 | 28 | 17/19 | 6 | 1.669.3800.70 |
| NPT 1/2" | 7 – 12 | 13 | 33 | 22/24 | 8 | 1.669.1200.70 |
| NPT 3/4" | 13 – 18 | 13 | 37 | 30/30 | 12 | 1.669.3400.70 |






| | |
|----------------------------|--------------------|
| Materiaal | Vernikkeld messing |
| Materiaal dichtring | TPE |
| Materiaal o-ring | NBR |
| Beschermingsklasse | IP 68 |
| Temperatuurbereik | -20°C tot +100°C |

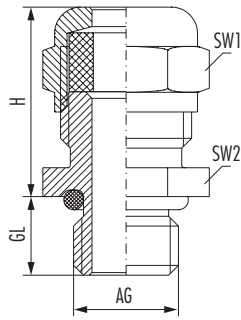
RoHS

- // Andere schroefgangen op aanvraag
- // Roestvaststaal op aanvraag

| AG | ∅k mm | GL mm | H mm | SW1/SW2 mm |  Nm | Item nr. |
|-----------|----------|----------|---------|---------------|---|---------------|
| M6 x 1 | 2 – 3,2 | 6 | 10 | 8/8 | 1 | 1.106.0601.50 |
| M8 x 0,75 | 2 – 4,5 | 3,5 | 14,3 | 11/11 | 2 | 1.112.0801.01 |
| M8 x 1,25 | 3 – 5 | 6 | 13 | 11/11 | 2 | 1.106.0801.50 |
| M8 x 1,25 | 3 – 5 | 10 | 13 | 11/11 | 2 | 1.106.0801.30 |
| M10 x 1,5 | 4 – 6 | 6 | 14 | 12/12 | 1 | 1.106.1001.50 |
| M10 x 1,5 | 4 – 6 | 10 | 14 | 12/12 | 1 | 1.106.1001.30 |
| PG 7 | 2 – 4,5 | 3,5 | 14,3 | 11/15 | 2 | 1.112.0708.01 |

Kabelwartels van metaal

HSK-Mini (metrisch/-lang)



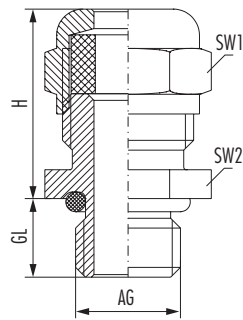
| | |
|----------------------------|--------------------|
| Materiaal | Vernikkeld messing |
| Materiaal dichtring | FKM |
| Materiaal o-ring | FKM |
| Beschermingsklasse | IP 68 |
| Temperatuurbereik | -25°C tot +200°C |

RoHS

- // Andere schroefgangen op aanvraag
- // Roestvaststaal op aanvraag

| AG | ∅k mm | H mm | SW1/SW2 mm | ⊕ Nm | GL mm | Item nr. kort | GL mm | Item nr. lang |
|-----------|----------|---------|---------------|---------|----------|------------------|----------|------------------|
| M6 x 1 | 2 – 3,2 | 10 | 8/8 | 1 | 6 | 1.106.0600.55 | | |
| M8 x 1,25 | 3 – 5 | 13 | 11/11 | 2 | 6 | 1.106.0800.55 | 10 | 1.106.0800.35 |
| M10 x 1,5 | 4 – 6 | 14 | 12/12 | 1 | 6 | 1.106.1000.55 | 10 | 1.106.1000.35 |





| | |
|----------------------------|-------------------------------------|
| Materiaal | INOX 1.4305 |
| Materiaal dichtring | TPE / FKM |
| Materiaal o-ring | NBR / FKM |
| Beschermingsklasse | IP 68 |
| Temperatuurbereik | -20°C tot +100°C / -25°C tot +200°C |

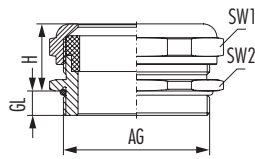
RoHS

// Andere schroefgangen op aanvraag

| AG | ∅ mm | GL mm | H mm | SW1/SW2 mm | ⊕ Nm | Item nr. -20°C tot +100°C | Item nr. -25°C tot +200°C |
|-----------|---------|----------|---------|---------------|---------|------------------------------|------------------------------|
| M8 x 1,25 | 3 – 5 | 6 | 13 | 11/11 | 2 | 1.129.0800.50 | |
| M8 x 1,5 | 3 – 5 | 6 | 13 | 11/11 | 2 | | 1.129.0800.55 |
| M10 x 1,5 | 4 – 6 | 6 | 14 | 12/12 | 1 | 1.129.1000.50 | 1.129.1000.55 |

Kabelwartels van metaal

HSK-XL (metrisch, G)



| | |
|---------------------|--------------------|
| Materiaal | Vernikkeld messing |
| Materiaal dichtring | NBR |
| Materiaal o-ring | NBR |
| Beschermingsklasse | IP 68 |
| Temperatuurbereik | -20°C tot +100°C |

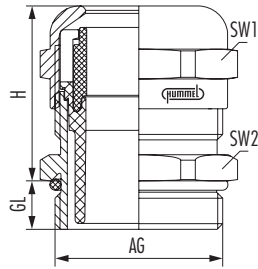
RoHS

// Roestvaststaal op aanvraag

| AG | ∅k mm | GL mm | H mm | SW1/SW2 mm | Nm | Item nr. |
|-----------|----------|----------|---------|---------------|-----|---------------|
| M63 x 1,5 | 48 – 55 | 10 | 42 | 75/75 | 40 | 1.106.6375.50 |
| M75 x 1,5 | 48 – 55 | 15 | 42 | 80/80 | 40 | 1.106.7500.50 |
| M75 x 1,5 | 53 – 60 | 15 | 42 | 85/85 | 60 | 1.106.7500.51 |
| M80 x 2 | 58 – 65 | 15 | 42 | 90/90 | 70 | 1.106.8000.50 |
| M90 x 2 | 63 – 70 | 15 | 42 | 100/100 | 140 | 1.106.9000.50 |
| M90 x 2 | 68 – 75 | 15 | 52 | 100/100 | 140 | 1.106.9000.51 |
| M100 x 2 | 73 – 80 | 20 | 52 | 110/110 | 140 | 1.106.1000.51 |
| M100 x 2 | 78 – 85 | 20 | 52 | 110/110 | 140 | 1.106.1000.50 |
| M110 x 2 | 83 – 90 | 20 | 52 | 120/120 | 160 | 1.106.1100.51 |
| | | | | | | |
| G 2 1/2" | 48 – 55 | 18 | 42 | 80/80 | 40 | 1.106.5200.01 |
| G 2 1/2" | 53 – 60 | 18 | 42 | 85/85 | 60 | 1.106.5201.01 |
| G 3" | 58 – 65 | 18 | 42 | 90/90 | 70 | 1.106.3000.01 |
| G 3" | 63 – 70 | 18 | 42 | 100/100 | 140 | 1.106.3001.01 |
| G 4" | 68 – 75 | 22 | 52 | 100/120 | 140 | 1.106.4000.01 |
| G 4" | 73 – 80 | 22 | 52 | 110/120 | 140 | 1.106.4001.01 |
| G 4" | 78 – 85 | 22 | 52 | 110/120 | 140 | 1.106.4002.01 |
| G 4" | 83 – 90 | 22 | 52 | 120/120 | 160 | 1.106.4003.01 |



RoHS



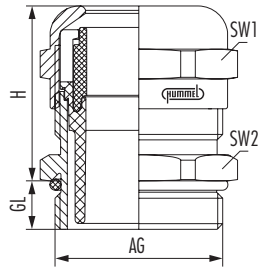
| | |
|----------------------|---------------------------|
| Materiaal | INOX 1.4404 / INOX 1.4305 |
| Materiaal binnenhuis | Polyamide VO volgens UL94 |
| Materiaal dichtring | NBR |
| Materiaal o-ring | NBR |
| Beschermingsklasse | IP 68 – 10 bar / IP 69 K |
| NEMA type rating | 4 / 4X / 6 |
| Temperatuurbereik | -40°C tot +100°C |

| AG | ∅k mm | GL mm | H mm | SW1/SW2 mm | Ⓢ Nm | Item nr. INOX 1.4305 | Item nr. INOX 1.4404 |
|-----------|----------|----------|---------|---------------|---------|-------------------------|-------------------------|
| M12 x 1,5 | 2 – 5 | 6,5 | 19 | 14/14 | 4 | 1.695.1200.51 | 1.675.1200.51 |
| M12 x 1,5 | 3 – 6,5 | 6,5 | 19 | 14/14 | 4 | 1.695.1200.50 | 1.675.1200.50 |
| M16 x 1,5 | 3 – 7 | 6 | 22 | 22/22 | 5 | 1.695.1600.51 | 1.675.1600.51 |
| M16 x 1,5 | 5 – 10 | 6 | 22 | 22/22 | 5 | 1.695.1600.50 | 1.675.1600.50 |
| M20 x 1,5 | 7 – 12 | 6 | 23 | 24/24 | 10 | 1.695.2000.51 | 1.675.2000.51 |
| M20 x 1,5 | 10 – 14 | 6 | 23 | 24/24 | 10 | 1.695.2000.50 | 1.675.2000.50 |
| M25 x 1,5 | 9 – 16 | 7 | 24 | 30/30 | 12 | 1.695.2500.51 | 1.675.2500.51 |
| M25 x 1,5 | 13 – 18 | 7 | 24 | 30/30 | 12 | 1.695.2500.50 | 1.675.2500.50 |
| M32 x 1,5 | 13 – 20 | 8 | 31 | 41/41 | 15 | 1.695.3200.51 | 1.675.3200.51 |
| M32 x 1,5 | 18 – 25 | 8 | 31 | 41/41 | 15 | 1.695.3200.50 | 1.675.3200.50 |
| M40 x 1,5 | 20 – 26 | 8 | 37 | 50/50 | 15 | 1.695.4000.51 | 1.675.4000.51 |
| M40 x 1,5 | 22 – 32 | 8 | 37 | 50/50 | 15 | 1.695.4000.50 | 1.675.4000.50 |
| M50 x 1,5 | 25 – 31 | 9 | 37 | 60/60 | 24 | 1.695.5000.51 | 1.675.5000.51 |
| M50 x 1,5 | 32 – 38 | 9 | 37 | 60/60 | 24 | 1.695.5000.50 | 1.675.5000.50 |
| M63 x 1,5 | 29 – 35 | 10 | 38 | 64/68 | 30 | 1.695.6300.51 | 1.675.6300.51 |
| M63 x 1,5 | 37 – 44 | 10 | 38 | 64/68 | 30 | 1.695.6300.50 | 1.675.6300.50 |



Kabelwartels van metaal

HSK-INOX (PG, NPT)

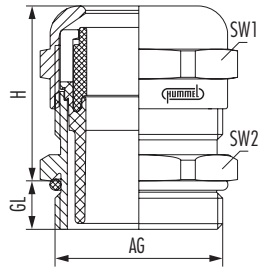


| | |
|-----------------------------|---------------------------|
| Materiaal | INOX 1.4404 / INOX 1.4305 |
| Materiaal binnenhuis | Polyamide VO volgens UL94 |
| Materiaal dichtring | NBR |
| Materiaal o-ring | NBR |
| Beschermingsklasse | IP 68 – 10 bar / IP 69 K |
| NEMA type rating | 4 / 4X / 6 |
| Temperatuurbereik | -40°C tot +100°C |

RoHS

| AG | ∅k mm | GL mm | H mm | SW1/SW2 mm | ⊕ Nm | Item nr. INOX 1.4404 | Item nr. INOX 1.4305 |
|----------|----------|----------|---------|---------------|---------|-------------------------|-------------------------|
| PG 7 | 2 – 5 | 5 | 19 | 14/14 | 4 | 1.675.0700.15 | 1.695.0700.15 |
| PG 7 | 3 – 6,5 | 5 | 19 | 14/14 | 4 | 1.675.0700.01 | 1.695.0700.01 |
| PG 9 | 2 – 6 | 6 | 21 | 17/17 | 6 | 1.675.0900.15 | 1.695.0900.15 |
| PG 9 | 4 – 8 | 6 | 21 | 17/17 | 6 | 1.675.0900.01 | 1.695.0900.01 |
| PG 11 | 3 – 7 | 6 | 22 | 22/22 | 5 | 1.675.1100.15 | 1.695.1100.15 |
| PG 11 | 5 – 10 | 6 | 22 | 22/22 | 5 | 1.675.1100.01 | 1.695.1100.01 |
| PG 13,5 | 5 – 9 | 6,5 | 24 | 22/22 | 8 | 1.675.1300.15 | 1.695.1300.15 |
| PG 13,5 | 6 – 12 | 6,5 | 24 | 22/22 | 8 | 1.675.1300.01 | 1.695.1300.01 |
| PG 16 | 7 – 12 | 6,5 | 23 | 24/24 | 10 | 1.675.1600.15 | 1.695.1600.15 |
| PG 16 | 10 – 14 | 6,5 | 23 | 24/24 | 10 | 1.675.1600.01 | 1.695.1600.01 |
| PG 21 | 9 – 16 | 7 | 24 | 30/30 | 12 | 1.675.2100.15 | 1.695.2100.15 |
| PG 21 | 13 – 18 | 7 | 24 | 30/30 | 12 | 1.675.2100.01 | 1.695.2100.01 |
| PG 29 | 13 – 20 | 8 | 29 | 41/41 | 15 | 1.675.2900.15 | 1.695.2900.15 |
| PG 29 | 18 – 25 | 8 | 29 | 41/41 | 15 | 1.675.2900.01 | 1.695.2900.01 |
| PG 36 | 20 – 26 | 8 | 35 | 50/50 | 15 | 1.675.3600.15 | 1.695.3600.15 |
| PG 36 | 22 – 32 | 8 | 35 | 50/50 | 15 | 1.675.3600.01 | 1.695.3600.01 |
| PG 42 | 25 – 31 | 9 | 37 | 57/57 | 24 | 1.675.4200.15 | 1.695.4200.15 |
| PG 42 | 32 – 38 | 9 | 37 | 57/57 | 24 | 1.675.4200.01 | 1.695.4200.01 |
| PG 48 | 29 – 35 | 10 | 38 | 64/64 | 30 | 1.675.4800.15 | 1.695.4800.15 |
| PG 48 | 37 – 44 | 10 | 38 | 64/64 | 30 | 1.675.4800.01 | 1.695.4800.01 |
| NPT 3/8" | 2 – 6 | 15 | 21 | 17/19 | 6 | 1.675.3800.71 | 1.695.3800.71 |
| NPT 3/8" | 4 – 8 | 15 | 21 | 17/19 | 6 | 1.675.3800.70 | 1.695.3800.70 |
| NPT 1/2" | 5 – 9 | 13 | 24 | 22/24 | 8 | 1.675.1200.71 | 1.695.1200.71 |
| NPT 1/2" | 6 – 12 | 13 | 24 | 22/24 | 8 | 1.675.1200.70 | 1.695.1200.70 |
| NPT 3/4" | 9 – 16 | 13 | 25 | 30/30 | 12 | 1.675.3400.71 | 1.695.3400.71 |
| NPT 3/4" | 13 – 18 | 13 | 25 | 30/30 | 12 | 1.675.3400.70 | 1.695.3400.70 |
| NPT 1" | 13 – 20 | 19 | 29 | 41/41 | 15 | 1.675.1000.71 | 1.695.1000.71 |
| NPT 1" | 18 – 25 | 19 | 29 | 41/41 | 15 | 1.675.1000.70 | 1.695.1000.70 |





| | |
|----------------------|---------------------------|
| Materiaal | INOX 1.4404 / INOX 1.4305 |
| Materiaal binnenhuis | PVDF |
| Materiaal dichtring | FKM |
| Materiaal o-ring | FKM |
| Beschermingsklasse | IP 68 – 10 bar / IP 69 K |
| NEMA type rating | 4 / 4X / 6 |
| Temperatuurbereik | -35°C tot +150°C |

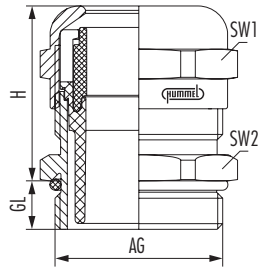
RoHS

| AG | ∅k mm | GL mm | H mm | SW1/SW2 mm | ⊕ Nm | Item nr. INOX 1.4404 | Item nr. INOX 1.4305 |
|-----------|----------|----------|---------|---------------|---------|-------------------------|-------------------------|
| M12 x 1,5 | 2 – 5 | 6,5 | 19 | 14/14 | 4 | 1.676.1200.51 | 1.696.1200.51 |
| M12 x 1,5 | 3 – 6,5 | 6,5 | 19 | 14/14 | 4 | 1.676.1200.50 | 1.696.1200.50 |
| M16 x 1,5 | 3 – 7 | 6 | 22 | 22/22 | 5 | 1.676.1600.51 | 1.696.1600.51 |
| M16 x 1,5 | 5 – 10 | 6 | 22 | 22/22 | 5 | 1.676.1600.50 | 1.696.1600.50 |
| M20 x 1,5 | 7 – 12 | 6 | 23 | 24/24 | 10 | 1.676.2000.51 | 1.696.2000.51 |
| M20 x 1,5 | 10 – 14 | 6 | 23 | 24/24 | 10 | 1.676.2000.50 | 1.696.2000.50 |
| M25 x 1,5 | 9 – 16 | 7 | 24 | 30/30 | 12 | 1.676.2500.51 | 1.696.2500.51 |
| M25 x 1,5 | 13 – 18 | 7 | 24 | 30/30 | 12 | 1.676.2500.50 | 1.696.2500.50 |
| M32 x 1,5 | 13 – 20 | 8 | 31 | 41/41 | 15 | 1.676.3200.51 | 1.696.3200.51 |
| M32 x 1,5 | 18 – 25 | 8 | 31 | 41/41 | 15 | 1.676.3200.50 | 1.696.3200.50 |
| M40 x 1,5 | 20 – 26 | 8 | 37 | 50/50 | 15 | 1.676.4000.51 | 1.696.4000.51 |
| M40 x 1,5 | 22 – 32 | 8 | 37 | 50/50 | 15 | 1.676.4000.50 | 1.696.4000.50 |



Kabelwartels van metaal

HSK-INOX-PVDF (PG)

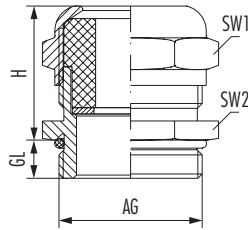


| | |
|----------------------|---------------------------|
| Materiaal | INOX 1.4404 / INOX 1.4305 |
| Materiaal binnenhuis | PVDF |
| Materiaal dichtring | FKM |
| Materiaal o-ring | FKM |
| Beschermingsklasse | IP 68 – 10 bar / IP 69 K |
| NEMA type rating | 4 / 4X / 6 |
| Temperatuurbereik | -35°C tot +150°C |

RoHS


| AG | ∅k mm | GL mm | H mm | SW1/SW2 mm | ⊕ Nm | Item nr. INOX 1.4404 | Item nr. INOX 1.4305 |
|---------|----------|----------|---------|---------------|---------|-------------------------|-------------------------|
| PG 7 | 2 – 5 | 5 | 19 | 14/14 | 4 | 1.676.0700.15 | 1.696.0700.15 |
| PG 7 | 3 – 6,5 | 5 | 19 | 14/14 | 4 | 1.676.0700.01 | 1.696.0700.01 |
| PG 9 | 2 – 6 | 6 | 21 | 17/17 | 6 | 1.676.0900.15 | 1.696.0900.15 |
| PG 9 | 4 – 8 | 6 | 21 | 17/17 | 6 | 1.676.0900.01 | 1.696.0900.01 |
| PG 11 | 3 – 7 | 6 | 22 | 22/22 | 5 | 1.676.1100.15 | 1.696.1100.15 |
| PG 11 | 5 – 10 | 6 | 22 | 22/22 | 5 | 1.676.1100.01 | 1.696.1100.01 |
| PG 13,5 | 5 – 9 | 6,5 | 24 | 22/22 | 8 | 1.676.1300.15 | 1.696.1300.15 |
| PG 13,5 | 6 – 12 | 6,5 | 24 | 22/22 | 8 | 1.676.1300.01 | 1.696.1300.01 |
| PG 16 | 7 – 12 | 6,5 | 23 | 24/24 | 10 | 1.676.1600.15 | 1.696.1600.15 |
| PG 16 | 10 – 14 | 6,5 | 23 | 24/24 | 10 | 1.676.1600.01 | 1.696.1600.01 |
| PG 21 | 9 – 16 | 7 | 24 | 30/30 | 12 | 1.676.2100.15 | 1.696.2100.15 |
| PG 21 | 13 – 18 | 7 | 24 | 30/30 | 12 | 1.676.2100.01 | 1.696.2100.01 |
| PG 29 | 13 – 20 | 8 | 29 | 41/41 | 15 | 1.676.2900.15 | 1.696.2900.15 |
| PG 29 | 18 – 25 | 8 | 29 | 41/41 | 15 | 1.676.2900.01 | 1.696.2900.01 |
| PG 36 | 20 – 26 | 8 | 35 | 50/50 | 15 | 1.676.3600.15 | 1.696.3600.15 |
| PG 36 | 22 – 32 | 8 | 35 | 50/50 | 15 | 1.676.3600.01 | 1.696.3600.01 |
| PG 42 | 25 – 31 | 9 | 37 | 57/57 | 24 | 1.676.4200.15 | 1.696.4200.15 |
| PG 42 | 32 – 38 | 9 | 37 | 57/57 | 24 | 1.676.4200.01 | 1.696.4200.01 |
| PG 48 | 29 – 35 | 10 | 38 | 64/64 | 30 | 1.676.4800.15 | 1.696.4800.15 |
| PG 48 | 37 – 44 | 10 | 38 | 64/64 | 30 | 1.676.4800.01 | 1.696.4800.01 |





| | |
|---------------------|--------------------|
| Materiaal | Vernikkeld messing |
| Materiaal dichtring | FKM |
| Materiaal o-ring | FKM |
| Beschermingsklasse | IP 68 |
| Temperatuurbereik | -25°C tot +200°C |

RoHS

| AG | ∅k mm | GL mm | H mm | SW1/SW2 mm |  Nm | Item nr. |
|-----------|-----------|----------|---------|---------------|---|---------------|
| M12 x 1,5 | 4 – 6 | 5 | 18 | 14/14 | 4 | 1.106.1200.58 |
| M16 x 1,5 | 7 – 9 | 5 | 19 | 18/18 | 6 | 1.106.1600.58 |
| M20 x 1,5 | 10 – 13 | 6 | 21 | 22/22 | 8 | 1.106.2000.58 |
| M25 x 1,5 | 15 – 18 | 7 | 23 | 28/28 | 12 | 1.106.2500.58 |
| M32 x 1,5 | 20 – 24 | 8 | 26 | 35/35 | 15 | 1.106.3200.58 |
| M40 x 1,5 | 27 – 32 | 8 | 27 | 45/45 | 15 | 1.106.4000.58 |
| M50 x 1,5 | 35 – 40 | 10 | 28 | 55/55 | 24 | 1.106.5000.58 |
| M63 x 1,5 | 45 – 52 | 10 | 36 | 68/68 | 30 | 1.106.6300.58 |
| PG 7 | 5 – 7 | 6 | 16 | 14/14 | 4 | 1.106.0700.80 |
| PG 9 | 6 – 8 | 6 | 17 | 18/18 | 6 | 1.106.0900.80 |
| PG 9 | 7 – 10 | 6 | 17 | 18/18 | 6 | 1.106.0901.80 |
| PG 11 | 6 – 8 | 6 | 20 | 18/18 | 6 | 1.106.1100.80 |
| PG 11 | 8 – 12 | 6 | 20 | 18/18 | 6 | 1.106.1102.80 |
| PG 13,5 | 11 – 15 | 6 | 21 | 24/24 | 8 | 1.106.1300.80 |
| PG 16 | 11 – 15 | 6 | 21 | 24/24 | 10 | 1.106.1600.80 |
| PG 21 | 15 – 20,5 | 7,5 | 22,5 | 32/32 | 12 | 1.106.2100.80 |
| PG 29 | 20 – 27 | 8 | 24 | 40/40 | 15 | 1.106.2900.80 |

Nog meer informatie vindt u online: www.hummel.com

De website van HUMMEL AG (www.hummel.com) is een enorme bron voor nog meer product- en ondernemingsinformatie. In de productwereld kabelwartels vindt u het complete HUMMEL-assortiment met alle technische gegevens, afbeeldingen en downloads. Het techniekcentrum bevat veel belangrijke achtergrondinformatie. Er zijn speciale pagina's gewijd aan belangrijke thema's zoals EMC-bescherming of toepassingen in potentieel explosieve omgevingen. Bovendien vindt u daar altijd actuele informatie over productinnovaties, nieuwtjes uit de onderneming, deelnames aan beurzen en nog veel meer.

Productwereld kabelwartels

- // Compleet assortiment met alle relevante technische gegevens
- // Productafbeeldingen en lijntekeningen op maat
- // 3D-data om te downloaden
- // Filterfuncties als zoekhulp
- // Vergunningen en certificaten

Techniekcentrum

- // Productbeschrijvingen en montagehandleidingen
- // Download van vergunningen en certificaten
- // Achtergrondinformatie over EMC en Ex
- // Instructies over materiaal, opslag, draadtypen etc.

EMC-KABELWARTELS

Het beschermen van elektronische componenten tegen elektromagnetische invloeden wordt steeds belangrijker. Kabelmanagement en verbindingssystemen spelen hierbij een bijzonder belangrijke rol. Alleen een veilige en langdurige 360°-contactering staat garant voor een langdurige bescherming van technische installaties.

- // HSK-M-EMC: de standaard uitvoering met zeer goede demping
- // HSK-M-EMC-D: eenvoudige en snelle montage met maximale EMC-bescherming
- // PVDF-uitvoeringen voor toepassingen bij zeer hoge temperaturen
- // Flex-uitvoering met geïntegreerde bescherming tegen knikken
- // Wartels met extra trekcontlasting (HSK-M-EMC-MZ)
- // Uitvoeringen in roestvaststaal met een voortreffelijke demping

HUMMEL biedt altijd verschillende klembereiken, schroefdraadlengtes, schroefdraadtypen en diverse afdichtingsmaterialen voor verschillende temperatuurbereiken. De kabelwartels beschikken over alle relevante toelatingen voor de internationale markten en voor tal van branches.



Rondom veilig: 360 graden EMC-koppeling

EMC-kabelwartels beschermen elektrische apparatuur tegen elektromagnetische interferentie. Als premiumfabrikant vertrouwt HUMMEL hier op innovatieve techniek en hoogwaardige materialen. Daarom kunnen gebruikers vertrouwen op langdurige bescherming, vooral als het gaat om een betrouwbare EMC-koppeling.

HUMMEL-kabelwartels met EMC-bescherming zijn er in drie verschillende varianten:

HSK-M-EMC-D: Deze premium variant heeft een gemetalliseerd klemlichaam dat zorgt voor een continu onafgebroken contact met de gevlochten afscherming van de kabel, zelfs bij dynamische toepassingen.

Metrica-M-EMC-E: Deze kabelwartel maakt eveneens gebruik van het klemlichaamprincipe. Dit zorgt voor een aanzienlijk kortere montage-tijd dan bij conventionele EMC-kabelwartels

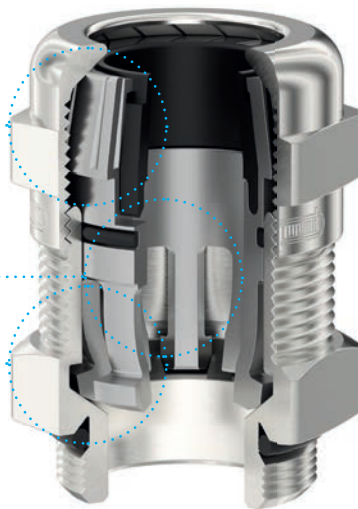
HSK-M-EMC: Ook deze kabelwartel biedt betrouwbare bescherming tegen elektromagnetische invloeden. Het volgt het klassieke montage-principe, waarbij de afscherming wordt gescheiden en op de wartel wordt geplaatst.

HSK-M-EMC-D

Overlappende klemlamellen voorkomen het uitscheuren van de vormafdichting

Gemetalliseerd kleminzetstuk zorgt voor optimale afschermingswaarden

stabele contactlamellen maken betrouwbaar contact, ook bij dynamische toepassingen



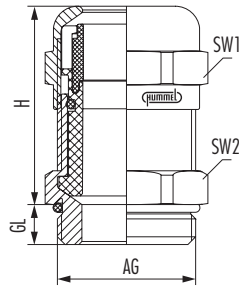
HSK-M-EMC

Overlappende klemlamellen voorkomen het uitscheuren van de vormafdichting

De interne afdichtrand zorgt voor een optimale afdichting tussen het kleminzetstuk en het tussenverloopstuk

Veilige 360°-contactering. Interne O-ring drukt de omvlechting tegen het tussenverloopstuk





| | |
|----------------------|--------------------------|
| Materiaal | Vernikkeld messing |
| Materiaal binnenhuis | Vernikkeld polyamide |
| Materiaal dichtring | NBR |
| Materiaal o-ring | NBR |
| Beschermingsklasse | IP 68 – 10 bar / IP 69 K |
| NEMA type rating | 4 / 4X / 6 |
| Temperatuurbereik | -40°C tot +100°C |

RoHS

EMV
EMC

// Andere afdichtingsmaterialen, bijv. silicone op aanvraag

| AG | ∅k mm | H mm | SW1/SW2 mm | Nm | GL mm | Item nr. kort | GL mm | Item nr. lang |
|-----------|----------|---------|---------------|--------|----------|------------------|----------|------------------|
| M12 x 1,5 | 3 – 6,5 | 25 | 14/14 | 6 | 6,5 | 1.631.1200.50 | 10 | 1.631.1200.30 |
| M16 x 1,5 | 4 – 8 | 29 | 17/19 | 9 | 6 | 1.631.1609.50 | 10 | 1.631.1609.30 |
| M16 x 1,5 | 5 – 10 | 32 | 20/20 | 11 | 6 | 1.631.1600.50 | 10 | 1.631.1600.30 |
| M20 x 1,5 | 6 – 12 | 32,5 | 22/22 | 12 | 6 | 1.631.2013.50 | 10 | 1.631.2013.30 |
| M20 x 1,5 | 10 – 14 | 33 | 24/24 | 13 | 6 | 1.631.2000.50 | 10 | 1.631.2000.30 |
| M25 x 1,5 | 13 – 18 | 39 | 30/30 | 13 | 7 | 1.631.2500.50 | 12 | 1.631.2500.30 |
| M32 x 1,5 | 18 – 25 | 45 | 40/40 | 17,5 | 8 | 1.631.3200.50 | 12 | 1.631.3200.30 |
| M40 x 1,5 | 24 – 32 | 51 | 50/50 | 25 | 8 | 1.631.4000.50 | 15 | 1.631.4000.30 |
| M50 x 1,5 | 32 – 38 | 57,5 | 57/57 | 29 | 9 | 1.631.5000.50 | 15 | 1.631.5000.30 |
| M63 x 1,5 | 37 – 44 | 52 | 64/68 | 34 | 10 | 1.631.6300.50 | 15 | 1.631.6300.30 |

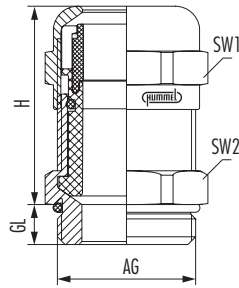


naar de productvideo

naar de montage-in-
structie

EMC-kabelwartels

HSK-M-EMC-D (PG, NPT)



| | |
|-----------------------------|--------------------------|
| Materiaal | Vernikkeld messing |
| Materiaal binnenhuis | Vernikkeld polyamide |
| Materiaal dichtring | NBR |
| Materiaal o-ring | NBR |
| Beschermingsklasse | IP 68 – 10 bar / IP 69 K |
| NEMA type rating | 4 / 4X / 6 |
| Temperatuurbereik | -40°C tot +100°C |

RoHS

EMV
EMC

// Andere afdichtingsmaterialen, bijv. silicone op aanvraag

| AG | ∅k mm | GL mm | H mm | SW1/SW2 mm | Nm | Item nr. |
|----------|----------|----------|---------|---------------|------|---------------|
| PG 7 | 3 – 6,5 | 5 | 24 | 14/14 | 6 | 1.631.0700.01 |
| PG 9 | 4 – 8 | 6 | 28 | 17/17 | 9 | 1.631.0900.01 |
| PG 11 | 5 – 10 | 6 | 29 | 20/20 | 11 | 1.631.1100.01 |
| PG 13,5 | 6 – 12 | 6,5 | 31 | 22/22 | 12 | 1.631.1300.01 |
| PG 16 | 10 – 14 | 6,5 | 32 | 24/24 | 13 | 1.631.1600.01 |
| PG 21 | 13 – 18 | 7 | 38 | 30/30 | 13 | 1.631.2100.01 |
| PG 29 | 18 – 25 | 8 | 43 | 40/40 | 17,5 | 1.631.2900.01 |
| PG 36 | 24 – 32 | 8 | 48 | 50/50 | 25 | 1.631.3600.01 |
| PG 42 | 32 – 38 | 9 | 45 | 57/57 | 29 | 1.631.4200.01 |
| PG 48 | 37 – 44 | 10 | 46 | 64/64 | 34 | 1.631.4800.01 |
| NPT 3/8" | 4 – 8 | 15 | 29 | 17/19 | 9 | 1.631.3800.70 |
| NPT 1/2" | 6 – 12 | 13 | 32,5 | 22/24 | 12 | 1.631.1200.70 |
| NPT 3/4" | 13 – 18 | 13 | 39 | 30/30 | 13 | 1.631.3400.70 |

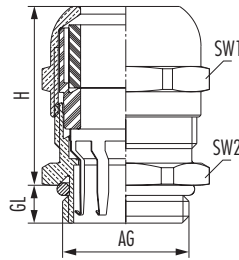


naar de productvideo




naar de montage-instructie





| | | |
|----------------------|--------------------|------------|
| Materiaal | Vernikkeld messing | RoHS |
| Materiaal binnenhuis | Polyamide | |
| Materiaal dichtring | NBR | EMV EMC |
| Materiaal o-ring | NBR | |
| Beschermingsklasse | IP 68 – 5 bar | |
| Temperatuurbereik | -40°C tot +100°C | |

| AG | ∅k mm | GL mm | H mm | SW1/SW2 mm |  Nm | Item nr. |
|-----------|----------|----------|---------|---------------|---|---------------|
| M12 x 1,5 | 3 – 6,5 | 6 | 19,4 | 14/14 | 3 | 1.607.1200.50 |
| M16 x 1,5 | 4,5 – 10 | 6 | 24,4 | 19/19 | 6,5 | 1.607.1600.50 |
| M20 x 1,5 | 6 – 12 | 6 | 25,4 | 22/22 | 6 | 1.607.2013.50 |
| M20 x 1,5 | 7,5 – 14 | 6 | 28,3 | 24/24 | 8 | 1.607.2000.50 |
| M25 x 1,5 | 9 – 17 | 7 | 29,3 | 29/29 | 9,5 | 1.607.2500.50 |
| M32 x 1,5 | 11 – 21 | 8 | 37,7 | 34/34 | 13,5 | 1.607.3200.50 |
| M40 x 1,5 | 19 – 28 | 8 | 40,7 | 44/44 | 32 | 1.607.4000.50 |
| M50 x 1,5 | 27 – 35 | 9 | 50,7 | 55/55 | 40 | 1.607.5000.50 |
| M63 x 1,5 | 34 – 48 | 10 | 55,7 | 68/68 | 46 | 1.607.6300.50 |

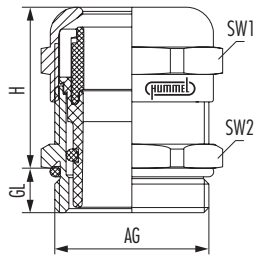


naar de productvideo

naar de montage-in-
structie

EMC-kabelwartels

HSK-M-EMC (metrisch/-lang)



| | |
|----------------------|---------------------------|
| Materiaal | Vernikkeld messing |
| Materiaal binnenhuis | Polyamide VO volgens UL94 |
| Materiaal dichtring | NBR |
| Materiaal o-ring | NBR |
| Beschermingsklasse | IP 68 – 10 bar / IP 69 K |
| NEMA type rating | 4 / 4X / 6 |
| Temperatuurbereik | -40°C tot +100°C |

RoHS

EMV
EMC

// Andere afdichtingsmaterialen, bijv. silicone op aanvraag

| AG | ∅k mm | H mm | SW1/SW2 mm | ⊕ Nm | GL mm | Item nr. kort | GL mm | Item nr. lang |
|-----------|----------|---------|---------------|---------|----------|------------------|----------|------------------|
| M12 x 1,5 | 2 – 5 | 19 | 14/14 | 4 | 6,5 | 1.691.1200.51 | 10 | 1.691.1200.31 |
| M12 x 1,5 | 3 – 6,5 | 19 | 14/14 | 4 | 6,5 | 1.691.1200.50 | 10 | 1.691.1200.30 |
| M16 x 1,5 | 3 – 7 | 22 | 20/20 | 5 | 6 | 1.691.1600.51 | 10 | 1.691.1600.31 |
| M16 x 1,5 | 5 – 10 | 22 | 20/20 | 5 | 6 | 1.691.1600.50 | 10 | 1.691.1600.30 |
| M20 x 1,5 | 7 – 12 | 24 | 24/24 | 10 | 6 | 1.691.2000.51 | 10 | 1.691.2000.31 |
| M20 x 1,5 | 10 – 14 | 24 | 24/24 | 10 | 6 | 1.691.2000.50 | 10 | 1.691.2000.30 |
| M25 x 1,5 | 9 – 16 | 26 | 30/30 | 12 | 7 | 1.691.2500.51 | 12 | 1.691.2500.31 |
| M25 x 1,5 | 13 – 18 | 26 | 30/30 | 12 | 7 | 1.691.2500.50 | 12 | 1.691.2500.30 |
| M32 x 1,5 | 13 – 20 | 31 | 40/40 | 15 | 8 | 1.691.3200.51 | 12 | 1.691.3200.31 |
| M32 x 1,5 | 15 – 21 | 33 | 36/36 | 15 | 8 | 1.691.3200.52 | 12 | 1.691.3200.32 |
| M32 x 1,5 | 18 – 25 | 31 | 40/40 | 15 | 8 | 1.691.3200.50 | 12 | 1.691.3200.30 |
| M40 x 1,5 | 19 – 27 | 33 | 46/46 | 15 | 8 | 1.691.4000.52 | 15 | 1.691.4000.32 |
| M40 x 1,5 | 20 – 26 | 37 | 50/50 | 15 | 8 | 1.691.4000.51 | 15 | 1.691.4000.31 |
| M40 x 1,5 | 22 – 32 | 37 | 50/50 | 15 | 8 | 1.691.4000.50 | 15 | 1.691.4000.30 |
| M50 x 1,5 | 25 – 31 | 37 | 57/57 | 24 | 9 | 1.691.5000.51 | 15 | 1.691.5000.31 |
| M50 x 1,5 | 32 – 38 | 37 | 57/57 | 24 | 9 | 1.691.5000.50 | 15 | 1.691.5000.30 |
| M63 x 1,5 | 29 – 35 | 38 | 64/68 | 30 | 10 | 1.691.6300.51 | 15 | 1.691.6300.31 |
| M63 x 1,5 | 37 – 44 | 38 | 64/68 | 30 | 10 | 1.691.6300.50 | 15 | 1.691.6300.30 |

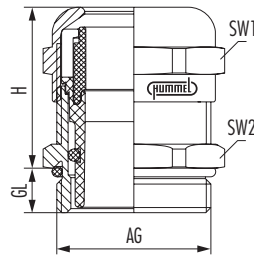


naar de productvideo



naar de montage-instructie





| | | |
|----------------------|---------------------------|------------|
| Materiaal | Vernikkeld messing | RoHS |
| Materiaal binnenhuis | Polyamide VO volgens UL94 | |
| Materiaal dichtring | NBR | EMV EMC |
| Materiaal o-ring | NBR | |
| Beschermingsklasse | IP 68 – 10 bar / IP 69 K | |
| NEMA type rating | 4 / 4X / 6 | |
| Temperatuurbereik | -40°C tot +100°C | |

// Andere afdichtingsmaterialen, bijv. silicone op aanvraag

| AG | ∅k mm | H mm | SW1/SW2 mm | Nm | GL mm | Item nr. kort | GL mm | Item nr. lang |
|---------|----------|---------|---------------|--------|----------|------------------|----------|------------------|
| PG 7 | 2 – 5 | 19 | 14/14 | 4 | 5 | 1.691.0700.15 | 10 | 1.691.0700.61 |
| PG 7 | 3 – 6,5 | 19 | 14/14 | 4 | 5 | 1.691.0700.01 | 10 | 1.691.0700.60 |
| PG 9 | 2 – 6 | 21 | 17/17 | 6 | 6 | 1.691.0900.15 | 10 | 1.691.0900.61 |
| PG 9 | 4 – 8 | 21 | 17/17 | 6 | 6 | 1.691.0900.01 | 10 | 1.691.0900.60 |
| PG 11 | 3 – 7 | 22 | 20/20 | 5 | 6 | 1.691.1100.15 | 10 | 1.691.1100.61 |
| PG 11 | 5 – 10 | 22 | 20/20 | 5 | 6 | 1.691.1100.01 | 10 | 1.691.1100.60 |
| PG 13,5 | 5 – 9 | 24 | 22/22 | 5 | 6,5 | 1.691.1300.15 | 10 | 1.691.1300.61 |
| PG 13,5 | 6 – 12 | 24 | 22/22 | 8 | 6,5 | 1.691.1300.01 | 10 | 1.691.1300.60 |
| PG 16 | 7 – 12 | 23 | 24/24 | 10 | 6,5 | 1.691.1600.15 | 10 | 1.691.1600.61 |
| PG 16 | 10 – 14 | 23 | 24/24 | 10 | 6,5 | 1.691.1600.01 | 10 | 1.691.1600.60 |
| PG 21 | 9 – 16 | 24 | 30/30 | 12 | 7 | 1.691.2100.15 | 12 | 1.691.2100.61 |
| PG 21 | 13 – 18 | 24 | 30/30 | 12 | 7 | 1.691.2100.01 | 12 | 1.691.2100.60 |
| PG 29 | 13 – 20 | 29 | 40/40 | 15 | 8 | 1.691.2900.15 | 12 | 1.691.2900.61 |
| PG 29 | 18 – 25 | 29 | 40/40 | 15 | 8 | 1.691.2900.01 | 12 | 1.691.2900.60 |
| PG 36 | 20 – 26 | 35 | 50/50 | 15 | 8 | 1.691.3600.15 | 15 | 1.691.3600.61 |
| PG 36 | 22 – 32 | 35 | 50/50 | 15 | 8 | 1.691.3600.01 | 15 | 1.691.3600.60 |
| PG 42 | 25 – 31 | 37 | 57/57 | 24 | 9 | 1.691.4200.15 | 15 | 1.691.4200.61 |
| PG 42 | 32 – 38 | 37 | 57/57 | 24 | 9 | 1.691.4200.01 | 15 | 1.691.4200.60 |
| PG 48 | 29 – 35 | 38 | 64/64 | 30 | 10 | 1.691.4800.15 | 15 | 1.691.4800.61 |
| PG 48 | 37 – 44 | 38 | 64/64 | 30 | 10 | 1.691.4800.01 | 15 | 1.691.4800.60 |



naar de productvideo

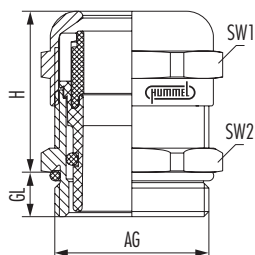


naar de montage-instructie



EMC-kabelwartels

HSK-M-EMC (NPT)




| | |
|----------------------|---------------------------|
| Materiaal | Vernikkeld messing |
| Materiaal binnenhuis | Polyamide VO volgens UL94 |
| Materiaal dichtring | NBR |
| Materiaal o-ring | NBR |
| Beschermingsklasse | IP 68 – 10 bar / IP 69 K |
| NEMA type rating | 4 / 4X / 6 |
| Temperatuurbereik | -40°C tot +100°C |

RoHS

EMV
EMC

// Andere afdichtingsmaterialen, bijv. silicone op aanvraag

| AG | ∅k mm | GL mm | H mm | SW1/SW2 mm |  Nm | Item nr. |
|----------|----------|----------|---------|---------------|---|---------------|
| NPT 3/8" | 2 – 6 | 15 | 21 | 17/19 | 6 | 1.691.3800.71 |
| NPT 3/8" | 4 – 8 | 15 | 21 | 17/19 | 6 | 1.691.3800.70 |
| NPT 1/2" | 5 – 9 | 13 | 24 | 22/24 | 5 | 1.691.1200.71 |
| NPT 1/2" | 6 – 12 | 13 | 24 | 22/24 | 8 | 1.691.1200.70 |
| NPT 3/4" | 9 – 16 | 13 | 25 | 30/30 | 12 | 1.691.3400.71 |
| NPT 3/4" | 13 – 18 | 13 | 25 | 30/30 | 12 | 1.691.3400.70 |

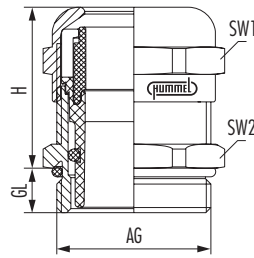


naar de productvideo




naar de montage-instructie





| | | |
|----------------------|--------------------------|------------|
| Materiaal | Vernikkeld messing | RoHS |
| Materiaal binnenhuis | PVDF | |
| Materiaal dichtring | FKM | EMV EMC |
| Materiaal o-ring | FKM | |
| Beschermingsklasse | IP 68 – 10 bar / IP 69 K | |
| NEMA type rating | 4 / 4X / 6 | |
| Temperatuurbereik | -35°C tot +150°C | |

// Andere afdichtingsmaterialen, bijv. silicone op aanvraag

| AG | ∅k mm | GL mm | H mm | SW1/SW2 mm |  Nm | Item nr. |
|-----------|----------|----------|---------|---------------|---|---------------|
| M12 x 1,5 | 2 – 5 | 6,5 | 19 | 14/14 | 4 | 1.698.1200.51 |
| M12 x 1,5 | 3 – 6,5 | 6,5 | 19 | 14/14 | 4 | 1.698.1200.50 |
| M16 x 1,5 | 3 – 7 | 6 | 22 | 20/20 | 5 | 1.698.1611.51 |
| M16 x 1,5 | 5 – 10 | 6 | 22 | 20/20 | 5 | 1.698.1611.50 |
| M20 x 1,5 | 7 – 12 | 6 | 24 | 24/24 | 10 | 1.698.2000.51 |
| M20 x 1,5 | 10 – 14 | 6 | 24 | 24/24 | 10 | 1.698.2000.50 |
| M25 x 1,5 | 9 – 16 | 7 | 26 | 30/30 | 12 | 1.698.2500.51 |
| M25 x 1,5 | 13 – 18 | 7 | 26 | 30/30 | 12 | 1.698.2500.50 |
| PG 7 | 2 – 5 | 5 | 19 | 14/14 | 4 | 1.698.0700.15 |
| PG 7 | 3 – 6,5 | 5 | 19 | 14/14 | 4 | 1.698.0700.01 |
| PG 9 | 2 – 6 | 6 | 21 | 17/17 | 6 | 1.698.0900.15 |
| PG 9 | 4 – 8 | 6 | 21 | 17/17 | 6 | 1.698.0900.01 |
| PG 11 | 3 – 7 | 6 | 22 | 20/20 | 5 | 1.698.1100.15 |
| PG 11 | 5 – 10 | 6 | 22 | 20/20 | 5 | 1.698.1100.01 |
| PG 13,5 | 5 – 9 | 6,5 | 24 | 22/22 | 5 | 1.698.1300.15 |
| PG 13,5 | 6 – 12 | 6,5 | 24 | 22/22 | 8 | 1.698.1300.01 |
| PG 16 | 7 – 12 | 6,5 | 23 | 24/24 | 10 | 1.698.1600.15 |
| PG 16 | 10 – 14 | 6,5 | 23 | 24/24 | 10 | 1.698.1600.01 |
| PG 21 | 9 – 16 | 7 | 24 | 30/30 | 12 | 1.698.2100.15 |
| PG 21 | 13 – 18 | 7 | 24 | 30/30 | 12 | 1.698.2100.01 |
| PG 29 | 13 – 20 | 8 | 29 | 40/40 | 15 | 1.698.2900.15 |
| PG 29 | 18 – 25 | 8 | 29 | 40/40 | 15 | 1.698.2900.01 |
| PG 36 | 20 – 26 | 8 | 35 | 50/50 | 15 | 1.698.3600.15 |
| PG 36 | 22 – 32 | 8 | 35 | 50/50 | 15 | 1.698.3600.01 |



naar de productvideo

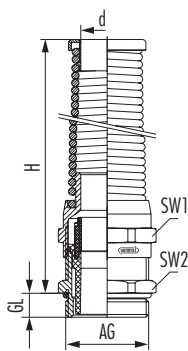


naar de montage-instructie



EMC-kabelwartels

HSK-M-Flex-EMC (metrisch/-lang, PG/-lang)



| | |
|----------------------|---------------------------|
| Materiaal | Vernikkeld messing |
| Knikbeschermingsveer | INOX 1.4310 |
| Materiaal binnenhuis | Polyamide VO volgens UL94 |
| Materiaal dichtring | NBR |
| Materiaal o-ring | NBR |
| Beschermingsklasse | IP 68 – 10 bar / IP 69 K |
| NEMA type rating | 4 / 4X / 6 |
| Temperatuurbereik | -40°C tot +100°C |



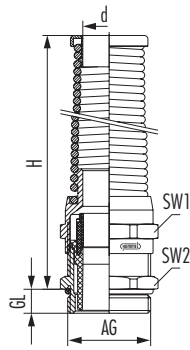
- // Ook in PVDF-uitvoering verkrijgbaar (-35°C tot +150°C)
- // Andere afdichtingsmaterialen, bijv. silicone op aanvraag

| AG | ∅k mm | d mm | H mm | SW1/SW2 mm | ⊕ Nm | GL mm | Item nr. kort | GL mm | Item nr. lang |
|-----------|----------|---------|---------|---------------|---------|----------|------------------|----------|------------------|
| M12 x 1,5 | 2 – 5 | 6,8 | 55 | 14/14 | 4 | 6,5 | 1.624.1200.51 | 10 | 1.624.1200.31 |
| M12 x 1,5 | 3 – 6,5 | 6,8 | 55 | 14/14 | 4 | 6,5 | 1.624.1200.50 | 10 | 1.624.1200.30 |
| M16 x 1,5 | 3 – 7 | 10,3 | 77 | 20/20 | 5 | 6 | 1.624.1600.51 | 10 | 1.624.1600.31 |
| M16 x 1,5 | 5 – 10 | 10,3 | 77 | 20/20 | 5 | 6 | 1.624.1600.50 | 10 | 1.624.1600.30 |
| M20 x 1,5 | 7 – 12 | 14,3 | 98 | 24/24 | 10 | 6 | 1.624.2000.51 | 10 | 1.624.2000.31 |
| M20 x 1,5 | 10 – 14 | 14,3 | 98 | 24/24 | 10 | 6 | 1.624.2000.50 | 10 | 1.624.2000.30 |
| M25 x 1,5 | 9 – 16 | 18,4 | 111 | 30/30 | 12 | 7 | 1.624.2500.51 | 12 | 1.624.2500.31 |
| M25 x 1,5 | 13 – 18 | 18,4 | 111 | 30/30 | 12 | 7 | 1.624.2500.50 | 12 | 1.624.2500.30 |
| PG 7 | 2 – 5 | 6,8 | 55 | 14/14 | 4 | 5 | 1.624.0700.15 | 10 | 1.624.0700.61 |
| PG 7 | 3 – 6,5 | 6,8 | 55 | 14/14 | 4 | 5 | 1.624.0700.01 | 10 | 1.624.0700.60 |
| PG 9 | 2 – 6 | 8,2 | 66 | 17/17 | 6 | 6 | 1.624.0900.15 | 10 | 1.624.0900.61 |
| PG 9 | 4 – 8 | 8,2 | 66 | 17/17 | 6 | 6 | 1.624.0900.01 | 10 | 1.624.0900.60 |
| PG 11 | 3 – 7 | 10,3 | 77 | 20/20 | 5 | 6 | 1.624.1100.15 | 10 | 1.624.1100.61 |
| PG 11 | 5 – 10 | 10,3 | 77 | 20/20 | 5 | 6 | 1.624.1100.01 | 10 | 1.624.1100.60 |
| PG 13,5 | 5 – 9 | 12,3 | 88 | 22/22 | 8 | 6,5 | 1.624.1300.15 | 10 | 1.624.1300.61 |
| PG 13,5 | 6 – 12 | 12,3 | 88 | 22/22 | 8 | 6,5 | 1.624.1300.01 | 10 | 1.624.1300.60 |
| PG 16 | 7 – 12 | 14,3 | 98 | 24/24 | 10 | 6,5 | 1.624.1600.15 | 10 | 1.624.1600.61 |
| PG 16 | 10 – 14 | 14,3 | 98 | 24/24 | 10 | 6,5 | 1.624.1600.01 | 10 | 1.624.1600.60 |
| PG 21 | 9 – 16 | 18,4 | 111 | 30/30 | 12 | 7 | 1.624.2100.15 | 12 | 1.624.2100.61 |
| PG 21 | 13 – 18 | 18,4 | 111 | 30/30 | 12 | 7 | 1.624.2100.01 | 12 | 1.624.2100.60 |



naar de productvideo





| | |
|----------------------|---------------------------|
| Materiaal | Vernikkeld messing |
| Knikbeschermingsveer | INOX 1.4310 |
| Materiaal binnenhuis | Polyamide VO volgens UL94 |
| Materiaal dichtring | NBR |
| Materiaal o-ring | NBR |
| Beschermingsklasse | IP 68 – 10 bar / IP 69 K |
| NEMA type rating | 4 / 4X / 6 |
| Temperatuurbereik | -40°C tot +100°C |

RoHS

EMV
EMC

// Ook in PVDF-uitvoering verkrijgbaar (-35°C tot +150°C)

// Andere afdichtingsmaterialen, bijv. silicone op aanvraag

| AG | ∅* mm | d mm | GL mm | H mm | SW1/SW2 mm | ⌀ Nm | Item nr. |
|----------|----------|---------|----------|---------|---------------|---------|---------------|
| NPT 3/8" | 2 – 6 | 8,2 | 15 | 66 | 17/19 | 6 | 1.624.3800.71 |
| NPT 3/8" | 4 – 8 | 8,2 | 15 | 66 | 17/19 | 6 | 1.624.3800.70 |
| NPT 1/2" | 5 – 9 | 12,3 | 13 | 88 | 22/24 | 8 | 1.624.1200.71 |
| NPT 1/2" | 6 – 12 | 12,3 | 13 | 88 | 22/24 | 8 | 1.624.1200.70 |
| NPT 3/4" | 9 – 16 | 18,4 | 13 | 111 | 30/30 | 12 | 1.624.3400.71 |
| NPT 3/4" | 13 – 18 | 18,4 | 13 | 111 | 30/30 | 12 | 1.624.3400.70 |

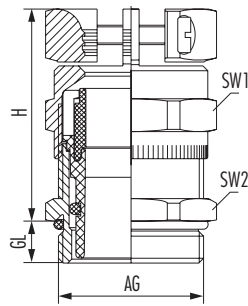


naar de productvideo



EMC-kabelwartels

HSK-MZ-EMC (metrisch/-lang, PG/-lang)



| | |
|----------------------|---------------------------|
| Materiaal | Vernikkeld messing |
| Materiaal binnenhuis | Polyamide VO volgens UL94 |
| Materiaal dichtring | NBR |
| Materiaal o-ring | NBR |
| Beschermingsklasse | IP 68 – 10 bar / IP 69 K |
| NEMA type rating | 4 / 4X / 6 |
| Temperatuurbereik | -40°C tot +100°C |

RoHS

EMV
EMC

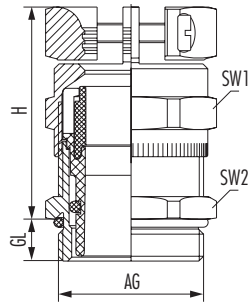
// *Ook in PVDF-uitvoering verkrijgbaar (-35°C tot +150°C)
 // Andere afdichtingsmaterialen, bijv. silicone op aanvraag

| AG | ∅k mm | H mm | SW1/SW2 mm | ⊕ Nm | GL mm | Item nr. kort | GL mm | Item nr. lang |
|-----------|----------|---------|---------------|---------|----------|------------------|----------|------------------|
| M12 x 1,5 | 3 – 6,5 | 26 | 14/14 | 4 | 6,5 | 1.692.1200.50 | 10 | 1.692.1200.30 |
| M16 x 1,5 | 5 – 10 | 29 | 20/20 | 5 | 6 | 1.692.1600.50 | 10 | 1.692.1600.30 |
| M20 x 1,5 | 10 – 14 | 32 | 24/24 | 10 | 6 | 1.692.2000.50 | 10 | 1.692.2000.30 |
| M25 x 1,5 | 13 – 18 | 35 | 30/30 | 12 | 7 | 1.692.2500.50 | 12 | 1.692.2500.30 |
| M32 x 1,5 | 18 – 25 | 41 | 40/40 | 15 | 8 | 1.692.3200.50 | 12 | 1.692.3200.30 |
| M40 x 1,5 | 22 – 32 | 48 | 50/50 | 15 | 8 | 1.692.4000.50 | 15 | 1.692.4000.30 |
| M50 x 1,5 | 25 – 31 | 51 | 57/57 | 24 | 9 | 1.692.5000.51 | 15 | 1.692.5000.31 |
| M50 x 1,5 | 32 – 38 | 51 | 57/57 | 24 | 9 | 1.692.5000.50 | 15 | 1.692.5000.30 |
| M63 x 1,5 | 29 – 35 | 52 | 64/68 | 30 | 10 | 1.692.6300.51 | 15 | 1.692.6300.31 |
| M63 x 1,5 | 37 – 44 | 52 | 64/68 | 30 | 10 | 1.692.6300.50 | 15 | 1.692.6300.30 |
| PG 7* | 3 – 6,5 | 26 | 14/14 | 4 | 5 | 1.692.0700.01 | 10 | 1.692.0700.60 |
| PG 9* | 4 – 8 | 28 | 17/17 | 5 | 6 | 1.692.0900.01 | 10 | 1.692.0900.60 |
| PG 11* | 5 – 10 | 29 | 20/20 | 5 | 6 | 1.692.1100.01 | 10 | 1.692.1100.60 |
| PG 13,5* | 6 – 12 | 33 | 22/22 | 10 | 6,5 | 1.692.1300.01 | 10 | 1.692.1300.60 |
| PG 16* | 10 – 14 | 32 | 24/24 | 10 | 6,5 | 1.692.1600.01 | 10 | 1.692.1600.60 |
| PG 21* | 13 – 18 | 35 | 30/30 | 12 | 7 | 1.692.2100.01 | 12 | 1.692.2100.60 |
| PG 29* | 18 – 25 | 41 | 40/40 | 15 | 8 | 1.692.2900.01 | 12 | 1.692.2900.60 |
| PG 36* | 22 – 32 | 48 | 50/50 | 15 | 8 | 1.692.3600.01 | 15 | 1.692.3600.60 |
| PG 42* | 25 – 31 | 51 | 57/57 | 24 | 9 | 1.692.4200.15 | 15 | 1.692.4200.61 |
| PG 42* | 32 – 38 | 51 | 57/57 | 24 | 9 | 1.692.4200.01 | 15 | 1.692.4200.60 |
| PG 48* | 29 – 35 | 51 | 64/64 | 30 | 10 | 1.692.4800.15 | 15 | 1.692.4800.61 |
| PG 48* | 37 – 44 | 51 | 64/64 | 30 | 10 | 1.692.4800.01 | 15 | 1.692.4800.60 |



naar de productvideo






| | |
|----------------------|---------------------------|
| Materiaal | Vernikkeld messing |
| Materiaal binnenhuis | Polyamide VO volgens UL94 |
| Materiaal dichtring | NBR |
| Materiaal o-ring | NBR |
| Beschermingsklasse | IP 68 – 10 bar / IP 69 K |
| NEMA type rating | 4 / 4X / 6 |
| Temperatuurbereik | -40°C tot +100°C |

RoHS

EMV
EMC

// Andere afdichtingsmaterialen, bijv. silicone op aanvraag

| AG | ∅k mm | GL mm | H mm | SW1/SW2 mm |  Nm | Item nr. |
|----------|----------|----------|---------|---------------|---|---------------|
| NPT 3/8" | 4 – 8 | 15 | 28 | 17/19 | 5 | 1.692.3800.70 |
| NPT 1/2" | 6 – 12 | 13 | 29 | 22/24 | 10 | 1.692.1200.70 |
| NPT 3/4" | 13 – 18 | 13 | 35 | 30/30 | 12 | 1.692.3400.70 |

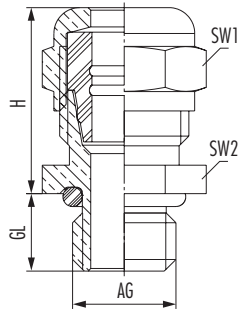


naar de productvideo



EMC-kabelwartels


HSK-Mini EMC (metrisch)



| | |
|---------------------|--------------------|
| Materiaal | Vernikkeld messing |
| Materiaal dichtring | TPE |
| Materiaal o-ring | NBR |
| Beschermingsklasse | IP 68 |
| Temperatuurbereik | -20°C tot +100°C |

RoHS

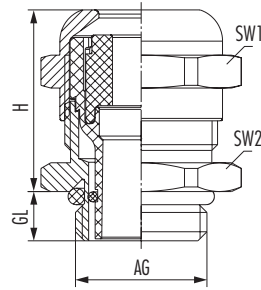
- // Andere schroefgangen op aanvraag
- // Roestvaststaal op aanvraag

| AG | ∅k mm | GL mm | H mm | SW1/SW2 mm |  Nm | Item nr. |
|-----------|----------|----------|---------|---------------|---|---------------|
| M8 x 1,25 | 3 – 5 | 6 | 13 | 11/11 | 2 | 1.119.0800.50 |
| M10 x 1,5 | 4 – 6 | 6 | 14 | 12/12 | 1 | 1.119.1000.50 |



naar de productvideo






| | |
|----------------------|---------------------------|
| Materiaal | INOX 1.4305 |
| Materiaal binnenhuis | Polyamide VO volgens UL94 |
| Materiaal dichtring | NBR |
| Materiaal o-ring | NBR |
| Beschermingsklasse | IP 68 – 10 bar / IP 69 K |
| NEMA type rating | 4 / 4X / 6 |
| Temperatuurbereik | -40°C tot +100°C |

RoHS

EMV
EMC

// Andere soorten roestvrij staal op aanvraag

| AG | ∅k mm | GL mm | H mm | SW1/SW2 mm |  Nm | Item nr. |
|-----------|----------|----------|---------|---------------|---|---------------|
| M12 x 1,5 | 2 – 5 | 6,5 | 19 | 14/14 | 4 | 1.693.1200.51 |
| M12 x 1,5 | 3 – 6,5 | 6,5 | 19 | 14/14 | 4 | 1.693.1200.50 |
| M16 x 1,5 | 3 – 7 | 6 | 21 | 22/22 | 5 | 1.693.1600.51 |
| M16 x 1,5 | 5 – 10 | 6 | 21 | 22/22 | 5 | 1.693.1600.50 |
| M20 x 1,5 | 7 – 12 | 6 | 23 | 24/24 | 10 | 1.693.2000.51 |
| M20 x 1,5 | 10 – 14 | 6 | 23 | 24/24 | 10 | 1.693.2000.50 |
| M25 x 1,5 | 9 – 16 | 7 | 26 | 30/30 | 12 | 1.693.2500.51 |
| M25 x 1,5 | 13 – 18 | 7 | 26 | 30/30 | 12 | 1.693.2500.50 |
| M32 x 1,5 | 13 – 20 | 8 | 31 | 41/41 | 15 | 1.693.3200.51 |
| M32 x 1,5 | 18 – 25 | 8 | 31 | 41/41 | 15 | 1.693.3200.50 |
| M40 x 1,5 | 20 – 26 | 8 | 37 | 50/50 | 15 | 1.693.4000.51 |
| M40 x 1,5 | 22 – 32 | 8 | 37 | 50/50 | 15 | 1.693.4000.50 |
| PG 7 | 2 – 5 | 5 | 19 | 14/14 | 4 | 1.693.0700.15 |
| PG 7 | 3 – 6,5 | 5 | 19 | 14/14 | 4 | 1.693.0700.01 |
| PG 9 | 2 – 6 | 6 | 21 | 17/17 | 6 | 1.693.0900.15 |
| PG 9 | 4 – 8 | 6 | 21 | 17/17 | 6 | 1.693.0900.01 |
| PG 11 | 3 – 7 | 6 | 22 | 22/22 | 5 | 1.693.1100.15 |
| PG 11 | 5 – 10 | 6 | 22 | 22/22 | 5 | 1.693.1100.01 |
| PG 13,5 | 5 – 9 | 6,5 | 24 | 22/22 | 8 | 1.693.1300.15 |
| PG 13,5 | 6 – 12 | 6,5 | 24 | 22/22 | 8 | 1.693.1300.01 |
| PG 16 | 7 – 12 | 6,5 | 23 | 24/24 | 10 | 1.693.1600.15 |
| PG 16 | 10 – 14 | 6,5 | 23 | 24/24 | 10 | 1.693.1600.01 |
| PG 21 | 9 – 16 | 7 | 24 | 30/30 | 12 | 1.693.2100.15 |
| PG 21 | 13 – 18 | 7 | 24 | 30/30 | 12 | 1.693.2100.01 |
| PG 29 | 13 – 20 | 8 | 29 | 41/41 | 15 | 1.693.2900.15 |
| PG 29 | 18 – 25 | 8 | 29 | 41/41 | 15 | 1.693.2900.01 |
| PG 36 | 20 – 26 | 8 | 35 | 50/50 | 15 | 1.693.3600.15 |
| PG 36 | 22 – 32 | 8 | 35 | 50/50 | 15 | 1.693.3600.01 |



naar de productvideo



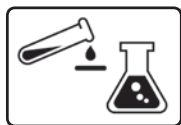
VariaPro: Van M12 tot M63

De kabelwartels van de reeks VariaPro zijn verkrijgbaar in de maten van M12 tot M63. Daarmee dekken deze kabelwartels voor veeleisende markten een klemgebied van 2 tot 54 millimeter kabeldiameter. De reductie-inzetstukken in de vormdichting zijn hiervoor verantwoordelijk. Daarmee profiteren gebruikers van de hoogste flexibiliteit, vereenvoudigde aanschafprocedures en minder opslag.

VariaPro is verkrijgbaar in verschillende vormen. De variant VariaPro Temp is speciaal ontworpen voor extreme temperaturen. Deze dekt een temperatuurbereik van -60 tot +200 graden Celsius. Voor toepassingen in de procesindustrie is de zuurbestendige VariaPro FKM uitermate geschikt. De variant Rail op zijn beurt voldoet aan de strengste brandveiligheidsnormen en kan derhalve worden gebruikt in alle treinen van het Europese routenetwerk.

Alle varianten beschikken over een geïntegreerde EMC-koppeling en voldoen aan de beschermingsklasse IP 68 tot 10 bar.

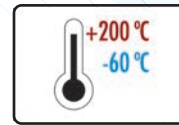
VariaPro
FKM



VariaPro
Rail



VariaPro
Temp



KABELWARTELS VOOR SPECIALE TOEPASSINGEN

Met de VariaPro-serie richt HUMMEL zich op zeer speciale toepassingen en de bijzondere eisen in de branche „Railway“. De speciale HUMMEL wartels zijn ontwikkeld met het oog op zeer speciale branche-eisen. Hun specifieke sterke punten op het gebied van temperatuur, brandveiligheid of hygiëne zijn gecertificeerd. Daardoor kunnen zij onbeperkt in deze extreme toepassingen worden gebruikt.

- // VariaPro Rail: de wartel met toelating voor de spoorwegen EN 45545-3
- // VariaPro Temp: geschikt voor zeer lage en extreem hoge temperaturen
- // VariaPro FKM: de zuurbestendige wartel voor de procesindustrie
- // HSK-INOX-HD: ontwikkeld voor omgevingen met zeer hoge eisen aan de hygiëne
- // HSK-INOX-HD-Pro: de HD-wartel met EHEDG-certificering



VariaPro: Uitstekende technische eigenschappen

Veeleisende markten met bijzondere uitdagingen - dit zijn ideale randvoorwaarden voor VariaPro. Deze kabelwartels overtuigen met talrijke technische kenmerken. De grote klembereiken van alle varianten zijn uitstekend. Voor gebruikers betekent dit grote flexibiliteit, eenvoudige aanschaf en een beperkte opslag.

Gebruiksvriendelijk is ook de eenvoudige montage. Twee verschillende sleutelwijdtes op één wartel maken het aandraaien gemakkelijker. De geoptimaliseerde ergonomie zorgt ook voor een betere grip van het gereedschap.

Technische kenmerken

- // Beschikbare maten M12 tot M63
- // Geïntegreerde EMC-koppeling
- // Beschermingsklasse IP 68 tot 10 bar
- // Robuust ontworpen en slanke structuur
- // Groot klembereik door verloop-inzetstuk

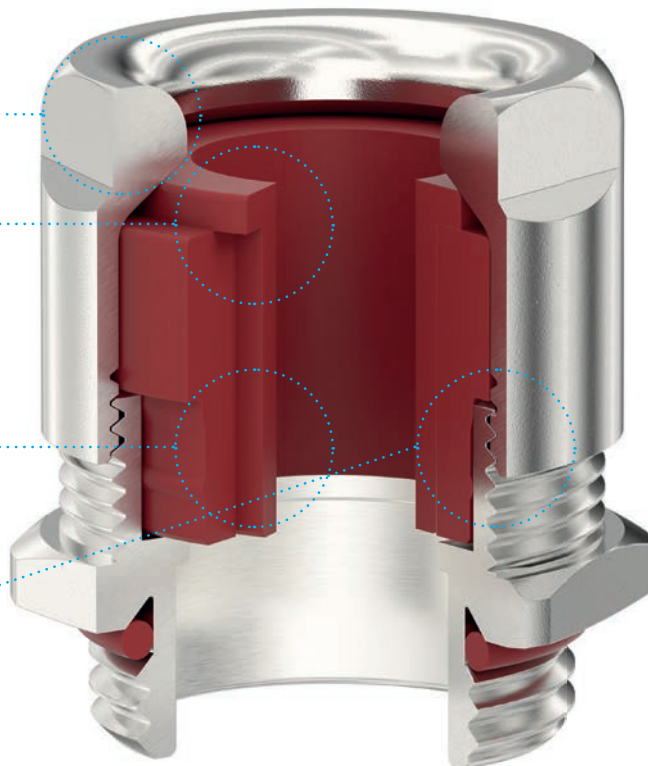
VariaPro

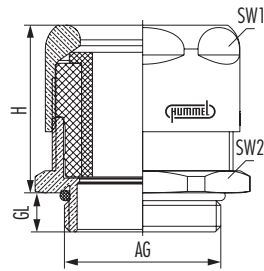
Compacte wartelmoer voor eenvoudige montage, ook in kleine inbouwsituaties

Uitneembaar verloopstuk voor afdichtelement

Geïntegreerde EMC-koppeling op het afdichtelement

Beveiliging tegen verdraaiing voor afdichtelement en kabel op het tussenverloopstuk





| | |
|---------------------|--------------------|
| Materiaal | Vernikkeld messing |
| Materiaal dichtring | EPDM |
| Materiaal o-ring | EPDM |
| Beschermingsklasse | IP 68 – 10 bar |
| Waterdicht maken | E30 / E20 |
| Temperatuurbereik | -40°C tot +100°C |

RoHS

EMV
EMC

- // DIN EN 45545-2 en DIN EN 45545-3
- // Groot klembereik door reductie-inzetstuk
- // Geïntegreerde anti-verdraaiingsbescherming tijdens de kabelinstallatie

| AG | ∅k mm | GL mm | H mm | SW1/SW2 mm | Nm | Item nr. |
|-----------|-----------|----------|---------|---------------|--------|---------------|
| M12 x 1,5 | 2 – 8 | 6,5 | 20 | 16/17 | 3 | 1.750.1200.50 |
| M12 x 1,5 | 5 – 8 | 6,5 | 20 | 16/17 | 5 | 1.750.1200.51 |
| M16 x 1,5 | 4 – 11 | 7 | 24,5 | 19/20 | 5 | 1.750.1600.50 |
| M16 x 1,5 | 7 – 11 | 7 | 24,5 | 19/20 | 8 | 1.750.1600.51 |
| M20 x 1,5 | 7 – 14 | 6 | 27 | 22/24 | 6 | 1.750.2000.50 |
| M20 x 1,5 | 10 – 14 | 6 | 27 | 22/24 | 6 | 1.750.2000.51 |
| M25 x 1,5 | 11 – 18 | 7 | 29 | 27/30 | 10 | 1.750.2500.50 |
| M25 x 1,5 | 14,5 – 18 | 7 | 29 | 27/30 | 10 | 1.750.2500.51 |
| M32 x 1,5 | 16 – 25 | 8 | 34 | 36/40 | 12 | 1.750.3200.50 |
| M32 x 1,5 | 20,5 – 25 | 8 | 34 | 36/40 | 12 | 1.750.3200.51 |
| M40 x 1,5 | 21 – 32 | 8 | 40 | 46/50 | 15 | 1.750.4000.50 |
| M40 x 1,5 | 26,5 – 32 | 8 | 40 | 46/50 | 15 | 1.750.4000.51 |
| M50 x 1,5 | 31 – 42 | 9 | 48 | 57/57 | 20 | 1.750.5000.50 |
| M50 x 1,5 | 35 – 42 | 9 | 48 | 57/57 | 20 | 1.750.5000.51 |
| M63 x 1,5 | 41 – 54 | 10 | 47,5 | 65/68 | 32 | 1.750.6300.50 |
| M63 x 1,5 | 46,5 – 54 | 10 | 47,5 | 65/68 | 37 | 1.750.6300.51 |

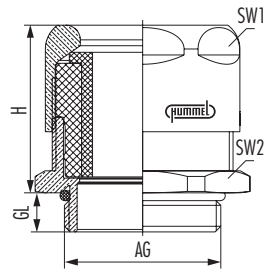
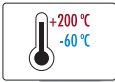


naar de productvideo



Kabelwartels voor speciale toepassingen

VariaPro Temp (metrisch)




| | |
|----------------------------|--------------------|
| Materiaal | Vernikkeld messing |
| Materiaal dichtring | VMQ (Silicone) |
| Materiaal o-ring | VMQ (Silicone) |
| Beschermingsklasse | IP 68 – 10 bar |
| Temperatuurbereik | -60°C tot +200°C |

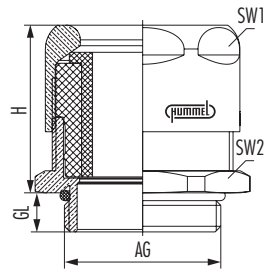
RoHS

EMV
EMC

- // Geschikt voor absolute lage en hoge temperatuur toepassingen
- // Geïntegreerde mogelijkheid voor EMC-aansluiting
- // Groot klembereik door reductie-inzetstuk
- // Geïntegreerde anti-verdraaiingsbescherming tijdens de kabelinstallatie

| AG | ∅k mm | GL mm | H mm | SW1/SW2 mm |  Nm | Item nr. |
|-----------|-----------|----------|---------|---------------|---|---------------|
| M12 x 1,5 | 2 – 8 | 6,5 | 20 | 16/17 | 3 | 1.751.1200.50 |
| M12 x 1,5 | 5 – 8 | 6,5 | 20 | 16/17 | 5 | 1.751.1200.51 |
| M16 x 1,5 | 4 – 11 | 7 | 24,5 | 19/20 | 5 | 1.751.1600.50 |
| M16 x 1,5 | 7 – 11 | 7 | 24,5 | 19/20 | 8 | 1.751.1600.51 |
| M20 x 1,5 | 7 – 14 | 6 | 27 | 22/24 | 6 | 1.751.2000.50 |
| M20 x 1,5 | 10 – 14 | 6 | 27 | 22/24 | 6 | 1.751.2000.51 |
| M25 x 1,5 | 11 – 18 | 7 | 29 | 27/30 | 18 | 1.751.2500.50 |
| M25 x 1,5 | 14,5 – 18 | 7 | 29 | 27/30 | 10 | 1.751.2500.51 |
| M32 x 1,5 | 16 – 25 | 8 | 34 | 36/40 | 24 | 1.751.3200.50 |
| M32 x 1,5 | 20,5 – 25 | 8 | 34 | 36/40 | 20 | 1.751.3200.51 |
| M40 x 1,5 | 21 – 32 | 8 | 40 | 46/50 | 20 | 1.751.4000.50 |
| M40 x 1,5 | 26,5 – 32 | 8 | 40 | 46/50 | 20 | 1.751.4000.51 |
| M50 x 1,5 | 31 – 42 | 9 | 48 | 57/57 | 20 | 1.751.5000.50 |
| M50 x 1,5 | 35 – 42 | 9 | 48 | 57/57 | 20 | 1.751.5000.51 |
| M63 x 1,5 | 41 – 54 | 10 | 47,5 | 65/68 | 32 | 1.751.6300.50 |
| M63 x 1,5 | 46,5 – 54 | 10 | 47,5 | 65/68 | 37 | 1.751.6300.51 |





| | |
|----------------------------|--------------------|
| Materiaal | Vernikkeld messing |
| Materiaal dichtring | FKM |
| Materiaal o-ring | FKM |
| Beschermingsklasse | IP 68 – 10 bar |
| Temperatuurbereik | -20°C tot +180°C |

RoHS

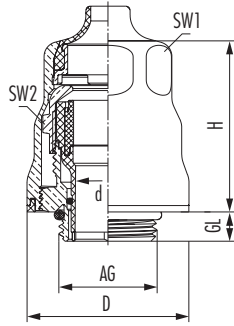
EMV
EMC

- // Hoge weerstand tegen zuren en chemicaliën
- // Geïntegreerde mogelijkheid voor EMC-aansluiting
- // Groot klembereik door reductie-inzetstuk
- // Geïntegreerde anti-verdraaiingsbescherming tijdens de kabelinstallatie

| AG | ∅k mm | GL mm | H mm | SW1/SW2 mm | Nm | Item nr. |
|-----------|-----------|----------|---------|---------------|--------|---------------|
| M12 x 1,5 | 2 – 8 | 6,5 | 20 | 16/17 | 3 | 1.752.1200.50 |
| M12 x 1,5 | 5 – 8 | 6,5 | 20 | 16/17 | 5 | 1.752.1200.51 |
| M16 x 1,5 | 4 – 11 | 7 | 24,5 | 19/20 | 5 | 1.752.1600.50 |
| M16 x 1,5 | 7 – 11 | 7 | 24,5 | 19/20 | 8 | 1.752.1600.51 |
| M20 x 1,5 | 7 – 14 | 6 | 27 | 22/24 | 6 | 1.752.2000.50 |
| M20 x 1,5 | 10 – 14 | 6 | 27 | 22/24 | 6 | 1.752.2000.51 |
| M25 x 1,5 | 11 – 18 | 7 | 29 | 27/30 | 10 | 1.752.2500.50 |
| M25 x 1,5 | 14,5 – 18 | 7 | 29 | 27/30 | 10 | 1.752.2500.51 |
| M32 x 1,5 | 16 – 25 | 8 | 34 | 36/40 | 12 | 1.752.3200.50 |
| M32 x 1,5 | 20,5 – 25 | 8 | 34 | 36/40 | 12 | 1.752.3200.51 |
| M40 x 1,5 | 21 – 32 | 8 | 40 | 46/50 | 15 | 1.752.4000.50 |
| M40 x 1,5 | 26,5 – 32 | 8 | 40 | 46/50 | 15 | 1.752.4000.51 |
| M50 x 1,5 | 31 – 42 | 9 | 48 | 57/57 | 20 | 1.752.5000.50 |
| M50 x 1,5 | 35 – 42 | 9 | 48 | 57/57 | 20 | 1.752.5000.51 |
| M63 x 1,5 | 41 – 54 | 10 | 47,5 | 65/68 | 32 | 1.752.6300.50 |
| M63 x 1,5 | 46,5 – 54 | 10 | 47,5 | 65/68 | 37 | 1.752.6300.51 |

Kabelwartels voor speciale toepassingen

HSK-INOX-HD (metrisch)



| | |
|----------------------------|------------------|
| Materiaal | INOX 1.4404 |
| Materiaal dichtring | VMQ (Silicone) |
| Beschermingsklasse | IP 68 |
| Temperatuurbereik | -40°C tot +120°C |

**EMV
EMC**

- // EMC geïntegreerd
- // VDMA Riboflavintest uitgevoerd en doorstaan
- // Reinigbaarheid met reinigingsmiddelen van ECOLAB getest en doorstaan

| AG | ∅k mm | D mm | d mm | GL mm | H mm | SW1/SW2 mm | ⌀ Nm | Item nr. |
|-----------|-----------|---------|---------|----------|---------|---------------|---------|---------------|
| M12 x 1,5 | 3,5 – 6,5 | 21 | 5,8 | 6 | 30 | 14/14 | 4 | 1.740.1202.50 |
| M16 x 1,5 | 5 – 10 | 27 | 9,3 | 6 | 34 | 18/20 | 5 | 1.740.1602.50 |
| M20 x 1,5 | 10 – 14 | 33 | 13,2 | 6 | 34,5 | 24/24 | 10 | 1.740.2002.50 |
| M25 x 1,5 | 13 – 18 | 40 | 17,3 | 7 | 41,5 | 27/30 | 12 | 1.740.2502.50 |

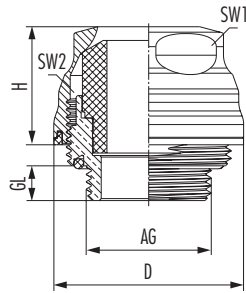


naar de productvideo



naar de montage-instructie


ECOLAB



| | |
|----------------------------|----------------------------------|
| Materiaal | INOX 1.4404 |
| Materiaal dichtring | VMQ (Silicone) |
| Beschermingsklasse | IP 69 K / IP 68 – 10 bar / IP 66 |
| Temperatuurbereik | -40°C tot +120°C |

**EMV
EMC**

- // EMC-aansluitmogelijkheid geïntegreerd
- // VDMA Riboflavintest doorstaan
- // EHEDG 01 reinigbaarheidstest doorstaan
- // EHEDG Certificate EL class I AUX toegelaten

| AG | ∅∅ mm | D mm | GL mm | H mm | SW1/SW2 mm |  Nm | Item nr. |
|-----------|-----------|---------|----------|---------|---------------|---|---------------|
| M12 x 1,5 | 5 – 6,5 | 21 | 6 | 19 | 14/14 | 8 | 1.740.1203.50 |
| M16 x 1,5 | 6 – 7,5 | 27 | 6 | 20 | 19/21 | 15 | 1.740.1603.51 |
| M16 x 1,5 | 7,5 – 10 | 27 | 6 | 20 | 19/21 | 15 | 1.740.1603.50 |
| M20 x 1,5 | 9 – 12 | 33 | 6 | 22,5 | 24/27 | 30 | 1.740.2003.51 |
| M20 x 1,5 | 11 – 13,5 | 33 | 6 | 22,5 | 24/27 | 30 | 1.740.2003.50 |
| M25 x 1,5 | 14 – 16 | 38 | 7 | 23,5 | 30/30 | 35 | 1.740.2503.52 |
| M25 x 1,5 | 15 – 18 | 38 | 7 | 23,5 | 30/30 | 35 | 1.740.2503.50 |
| M32 x 1,5 | 18 – 21 | 45 | 8 | 26,5 | 36/36 | 40 | 1.740.3203.51 |
| M32 x 1,5 | 21 – 25 | 45 | 8 | 26,5 | 36/36 | 40 | 1.740.3203.50 |



naar de montage-instructie



HUMMEL AG op social media

Niet alleen de website van HUMMEL (www.hummel.com) is informatief. U vindt ook informatie, nieuws, video's en posts op verschillende socialmedia-kanalen. Afgestemd op de doelgroepen draait het daar om de training bij HUMMEL, productinnovaties, informatie over en terugblikken naar evenementen. Maar ook gewoon de luchtige, leuke kant van het dagelijkse werk in HUMMEL AG.

YouTube

Youtube: Op het Youtube-kanaal van HUMMEL staan veel videoclips over

- // Productpresentaties
- // Montagevideo's
- // 3D-animaties
- // Trainingsvideo's



<https://www.youtube.com/user/HummelAGET>



Facebook: Hier gaat het vooral om thema's rond de training bij HUMMEL en de dagelijkse werkzaamheden in de onderneming.



<https://www.facebook.com/Hummel.AG>

LinkedIn

LinkedIn: Het is zeker de moeite waard om ons te volgen! Op LinkedIn publiceren we alle actuele productinnovaties en nieuws.



<https://www.linkedin.com/company/10651915>

XING

XING: Informatie over de onderneming en contact met veel HUMMEL-medewerkers vindt u ook via XING.



<https://www.xing.com/pages/hummelag>

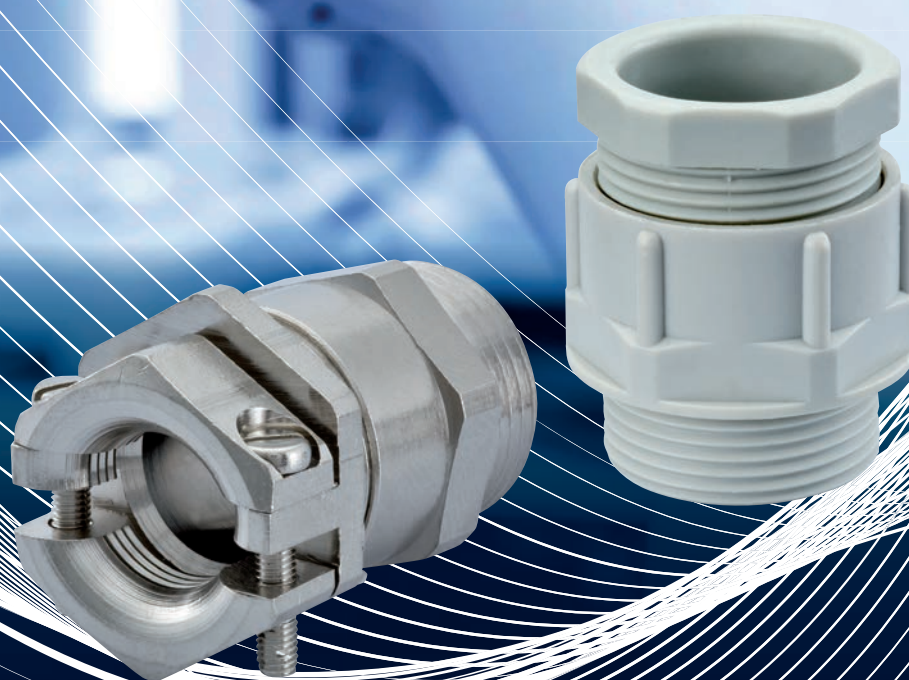


DIN-KABELWARTELS

Deze kabelwartels zijn ontwikkeld om te voldoen aan de eisen van speciale normen en standards. Zij hebben een andere opbouw en functie dan de premiumwartels uit de HSK-serie. DIN-wartels bieden speciale klembereiken en hebben een zeer lage opbouwhoogte.

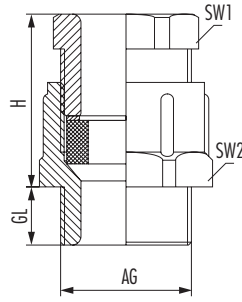
- // DIN 46320: kabelwartels van kunststof en messing
- // Z (DIN 46320): kabelwartels met extra hoge treklast
- // SE (DIN 46320): kabelwartels met EMC-demping
- // ZSE (DIN 46320): kabelwartels met extra hoge treklast en EMC-demping

HUMMEL biedt altijd verschillende klembereiken, schroefdraadtypen en diverse afdichtingsmaterialen voor verschillende temperatuurbereiken. De kabelwartels beschikken over de benodigde toelatingen en certificaten.



DIN-kabelwartels

DIN 46320 Kunststoffen (PG)



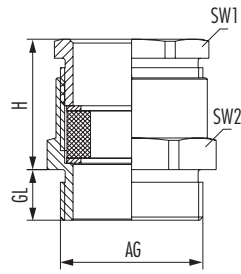
| | |
|----------------------------|--|
| Materiaal | Polyamide |
| Materiaal dichtring | NBR |
| Beschermingsklasse | IP 54 / IP 65 met extra vlakke dichting op de aansluitschroefdraad |
| Temperatuurbereik | -20°C tot +80°C |
| Kleur | grijs |
| RAL | 7035 |

RoHS

// Metrische aansluitschroefdraad op aanvraag

| AG | ∅k mm | GL mm | H mm | SW1/SW2 mm | Item nr. |
|---------|------------|----------|---------|---------------|---------------|
| PG 7 | 3,5 – 6 | 8 | 20 | 13/15 | 1.202.0700.11 |
| PG 9 | 4 – 10 | 8 | 21 | 16/19 | 1.202.0901.11 |
| PG 9 | 4,5 – 7 | 8 | 21 | 16/19 | 1.202.0900.11 |
| PG 11 | 6 – 9 | 8 | 22 | 19/22 | 1.202.1100.11 |
| PG 11 | 6,5 – 12 | 8 | 22 | 19/22 | 1.202.1101.11 |
| PG 13,5 | 6,5 – 13,5 | 9 | 26 | 21/24 | 1.202.1301.11 |
| PG 13,5 | 9 – 12 | 9 | 26 | 21/24 | 1.202.1300.11 |
| PG 16 | 6,5 – 16 | 10 | 28 | 23/27 | 1.202.1601.11 |
| PG 16 | 11 – 14 | 10 | 28 | 23/27 | 1.202.1600.11 |
| PG 21 | 9 – 20 | 11 | 32 | 30/33 | 1.202.2101.11 |
| PG 21 | 14 – 18 | 11 | 32 | 30/33 | 1.202.2100.11 |
| PG 29 | 17 – 28 | 11 | 35 | 40/42 | 1.202.2901.11 |
| PG 29 | 18 – 25 | 11 | 35 | 40/42 | 1.202.2900.11 |
| PG 36 | 23 – 34 | 13 | 39 | 50/53 | 1.202.3601.11 |
| PG 36 | 25 – 32 | 13 | 39 | 50/53 | 1.202.3600.11 |
| PG 42 | 29 – 40 | 13 | 44 | 55/60 | 1.202.4201.11 |
| PG 42 | 30 – 38 | 13 | 44 | 55/60 | 1.202.4200.11 |
| PG 48 | 34 – 42 | 14 | 44 | 60/65 | 1.202.4800.11 |
| PG 48 | 35 – 46 | 14 | 44 | 60/65 | 1.202.4801.11 |





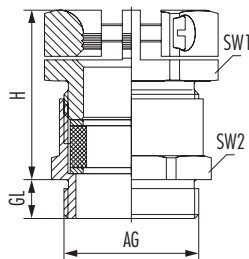
| | |
|----------------------------|--|
| Materiaal | Vernikkeld messing |
| Materiaal dichtring | NBR |
| Beschermingsklasse | IP 54 / IP 65 met extra vlakke dichting op de aansluitschroefdraad |
| Temperatuurbereik | -20°C tot +80°C |

RoHS

| AG | ∅k mm | GL mm | H mm | SW1/SW2 mm | Item nr. |
|---------|------------|----------|---------|---------------|---------------|
| PG 7 | 6 – 8 | 5 | 15 | 13/14 | 1.101.0703.01 |
| PG 9 | 4 – 10 | 6 | 15 | 15/17 | 1.101.0901.01 |
| PG 9 | 8 – 10 | 6 | 15 | 15/17 | 1.101.0903.01 |
| PG 11 | 6,5 – 12 | 6 | 17 | 18/20 | 1.101.1101.01 |
| PG 11 | 10 – 12 | 6 | 17 | 20/18 | 1.101.1103.01 |
| PG 13,5 | 6,5 – 13,5 | 6,5 | 20 | 20/22 | 1.101.1301.01 |
| PG 13,5 | 12 – 14 | 6,5 | 20 | 20/22 | 1.101.1303.01 |
| PG 16 | 6,5 – 16 | 6,5 | 22 | 22/24 | 1.101.1601.01 |
| PG 16 | 14 – 16 | 6,5 | 22 | 22/24 | 1.101.1603.01 |
| PG 21 | 9 – 20 | 7 | 24 | 28/30 | 1.101.2101.01 |
| PG 21 | 17 – 19 | 7 | 24 | 28/30 | 1.101.2103.01 |
| PG 29 | 17 – 28 | 8 | 26 | 37/40 | 1.101.2901.01 |
| PG 29 | 26 – 28 | 8 | 26 | 37/40 | 1.101.2903.01 |
| PG 36 | 23 – 34 | 9 | 30 | 47/50 | 1.101.3601.01 |
| PG 36 | 33 – 35 | 9 | 30 | 47/50 | 1.101.3603.01 |
| PG 42 | 29 – 40 | 10 | 34 | 54/57 | 1.101.4201.01 |
| PG 42 | 39 – 41 | 10 | 34 | 54/57 | 1.101.4203.01 |
| PG 48 | 35 – 46 | 10 | 37 | 60/64 | 1.101.4801.01 |
| PG 48 | 45 – 47 | 10 | 37 | 60/64 | 1.101.4803.01 |

DIN-kabelwartels

DIN 46320 Z (metrisch, PG)

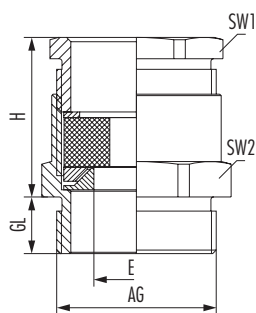


| | |
|----------------------------|--|
| Materiaal | Vernikkeld messing |
| Materiaal dichtring | NBR |
| Beschermingsklasse | IP 54 / IP 65 met extra vlakke dichting op de aansluitschroefdraad |
| Temperatuurbereik | -20°C tot +80°C |

RoHS

| AG | ∅k mm | GL mm | H mm | SW1/SW2 mm | Versie | Item nr. |
|-----------|------------|----------|---------|---------------|-----------------------------|---------------|
| M12 x 1,5 | 6 – 8 | 5 | 22 | 16/14 | met afdichtring | 1.105.1200.51 |
| M16 x 1,5 | 6,5 – 10 | 5 | 25 | 19/18 | met uitgesneden afdichtring | 1.105.1600.52 |
| M16 x 1,5 | 8 – 10 | 5 | 25 | 19/18 | met afdichtring | 1.105.1600.51 |
| M20 x 1,5 | 7,5 – 12 | 6 | 26 | 22/22 | met uitgesneden afdichtring | 1.105.2000.52 |
| M20 x 1,5 | 8,5 – 13,5 | 6 | 27,5 | 24/22 | met uitgesneden afdichtring | 1.105.2013.52 |
| M20 x 1,5 | 10 – 12 | 6 | 26 | 22/22 | met afdichtring | 1.105.2000.51 |
| M20 x 1,5 | 10,5 – 15 | 6 | 28,5 | 26/24 | met uitgesneden afdichtring | 1.105.2016.52 |
| M20 x 1,5 | 12 – 14 | 6 | 27,5 | 24/22 | met afdichtring | 1.105.2013.51 |
| M20 x 1,5 | 13 – 15 | 6 | 28,5 | 26/24 | met afdichtring | 1.105.2016.51 |
| M25 x 1,5 | 13 – 20 | 6 | 33 | 33/30 | met uitgesneden afdichtring | 1.105.2500.52 |
| M25 x 1,5 | 17 – 19 | 6 | 33 | 33/30 | met afdichtring | 1.105.2500.51 |
| M32 x 1,5 | 19 – 28 | 6 | 36 | 42/39 | met uitgesneden afdichtring | 1.105.3200.52 |
| M32 x 1,5 | 26 – 27 | 6 | 36 | 42/39 | met afdichtring | 1.105.3200.51 |
| M40 x 1,5 | 24 – 34 | 7 | 41 | 52/50 | met uitgesneden afdichtring | 1.105.4000.52 |
| M40 x 1,5 | 33 – 35 | 7 | 41 | 52/50 | met afdichtring | 1.105.4000.51 |
| M50 x 1,5 | 34 – 40 | 8 | 45 | 59/57 | met uitgesneden afdichtring | 1.105.5000.52 |
| M50 x 1,5 | 39 – 41 | 8 | 45 | 59/57 | met afdichtring | 1.105.5000.51 |
| M63 x 1,5 | 39 – 46 | 9 | 48 | 64/66 | met uitgesneden afdichtring | 1.105.6300.52 |
| M63 x 1,5 | 43 – 45 | 9 | 48 | 64/66 | met afdichtring | 1.105.6300.51 |
| PG 7 | 6 – 8 | 5 | 22 | 16/14 | met afdichtring | 1.105.0703.01 |
| PG 9 | 6,5 – 10 | 6 | 25 | 19/17 | met uitgesneden afdichtring | 1.105.0901.01 |
| PG 9 | 8 – 10 | 6 | 25 | 19/17 | met afdichtring | 1.105.0903.01 |
| PG 11 | 7,5 – 12 | 6 | 26 | 22/20 | met uitgesneden afdichtring | 1.105.1101.01 |
| PG 11 | 10 – 12 | 6 | 26 | 22/20 | met afdichtring | 1.105.1103.01 |
| PG 13,5 | 8,5 – 13,5 | 6,5 | 27,5 | 24/22 | met uitgesneden afdichtring | 1.105.1301.01 |
| PG 13,5 | 12 – 14 | 6,5 | 27,5 | 24/22 | met afdichtring | 1.105.1303.01 |
| PG 16 | 10,5 – 16 | 6,5 | 28,5 | 26/24 | met uitgesneden afdichtring | 1.105.1601.01 |
| PG 16 | 14 – 16 | 6,5 | 28,5 | 26/24 | met afdichtring | 1.105.1603.01 |
| PG 21 | 13 – 20 | 7 | 33 | 33/30 | met uitgesneden afdichtring | 1.105.2101.01 |
| PG 21 | 17 – 19 | 7 | 33 | 33/30 | met afdichtring | 1.105.2103.01 |
| PG 29 | 19 – 28 | 8 | 36 | 42/40 | met uitgesneden afdichtring | 1.105.2901.01 |
| PG 29 | 26 – 28 | 8 | 36 | 42/40 | met afdichtring | 1.105.2903.01 |
| PG 36 | 24 – 34 | 9 | 41 | 52/50 | met uitgesneden afdichtring | 1.105.3601.01 |
| PG 36 | 33 – 35 | 9 | 41 | 52/50 | met afdichtring | 1.105.3603.01 |
| PG 42 | 34 – 40 | 10 | 45 | 59/57 | met uitgesneden afdichtring | 1.105.4201.01 |
| PG 42 | 39 – 41 | 10 | 45 | 59/57 | met afdichtring | 1.105.4203.01 |
| PG 48 | 39 – 46 | 10 | 48 | 64/64 | met uitgesneden afdichtring | 1.105.4801.01 |
| PG 48 | 43 – 45 | 10 | 48 | 64/64 | met afdichtring | 1.105.4803.01 |





| | |
|----------------------------|--|
| Materiaal | Vernikkeld messing |
| Materiaal dichtring | NBR |
| Beschermingsklasse | IP 54 / IP 65 met extra vlakke dichting op de aansluitschroefdraad |
| Temperatuurbereik | -20°C tot +80°C |

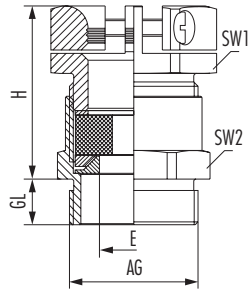
RoHS

EMV
EMC

| AG | ∅k mm | E mm | GL mm | H mm | SW1/SW2 mm | Item nr. |
|---------|------------|---------|----------|---------|---------------|---------------|
| PG 9 | 4 – 10 | 6 | 7 | 17 | 15/17 | 1.680.0906.01 |
| PG 11 | 6,5 – 12 | 8 | 7 | 20 | 18/20 | 1.680.1108.01 |
| PG 13,5 | 6,5 – 13,5 | 10 | 8 | 21 | 20/22 | 1.680.1310.01 |
| PG 13,5 | 6,5 – 13,5 | 12 | 8 | 21 | 20/22 | 1.680.1312.01 |
| PG 16 | 6,5 – 16 | 12 | 8 | 24 | 22/24 | 1.680.1612.01 |
| PG 16 | 6,5 – 16 | 14 | 8 | 24 | 22/24 | 1.680.1614.01 |
| PG 21 | 9 – 20 | 15 | 10 | 27 | 28/30 | 1.680.2115.01 |
| PG 21 | 9 – 20 | 18 | 10 | 27 | 28/30 | 1.680.2118.01 |
| PG 29 | 17 – 28 | 20 | 10 | 30 | 37/40 | 1.680.2920.01 |
| PG 29 | 17 – 28 | 24 | 10 | 30 | 37/40 | 1.680.2924.01 |

DIN-kabelwartels

DIN 46320 ZSE (PG)



| | |
|----------------------------|--|
| Materiaal | Vernikkeld messing |
| Materiaal dichtring | NBR |
| Beschermingsklasse | IP 54 / IP 65 met extra vlakke dichting op de aansluitschroefdraad |
| Temperatuurbereik | -20°C tot +80°C |

RoHS

EMV
EMC

| AG | ∅k mm | E mm | GL mm | H mm | SW1/SW2 mm | Item nr. |
|---------|------------|---------|----------|---------|---------------|---------------|
| PG 9 | 6,5 – 10 | 6 | 7 | 27 | 19/17 | 1.681.0906.01 |
| PG 11 | 7,5 – 12 | 7 | 7 | 29 | 22/20 | 1.681.1107.01 |
| PG 11 | 7,5 – 12 | 8 | 7 | 29 | 22/20 | 1.681.1108.01 |
| PG 13,5 | 8,5 – 13,5 | 10 | 8 | 30 | 24/22 | 1.681.1310.01 |
| PG 13,5 | 8,5 – 13,5 | 12 | 8 | 30 | 24/22 | 1.681.1312.01 |
| PG 16 | 10,5 – 16 | 12 | 8 | 31 | 26/24 | 1.681.1612.01 |
| PG 16 | 10,5 – 16 | 14 | 8 | 31 | 26/24 | 1.681.1614.01 |
| PG 21 | 13 – 20 | 15 | 10 | 36 | 33/30 | 1.681.2115.01 |
| PG 21 | 13 – 20 | 18 | 10 | 36 | 33/30 | 1.681.2118.01 |
| PG 29 | 19 – 28 | 20 | 10 | 40 | 42/40 | 1.681.2920.01 |
| PG 29 | 19 – 28 | 24 | 10 | 40 | 42/40 | 1.681.2924.01 |

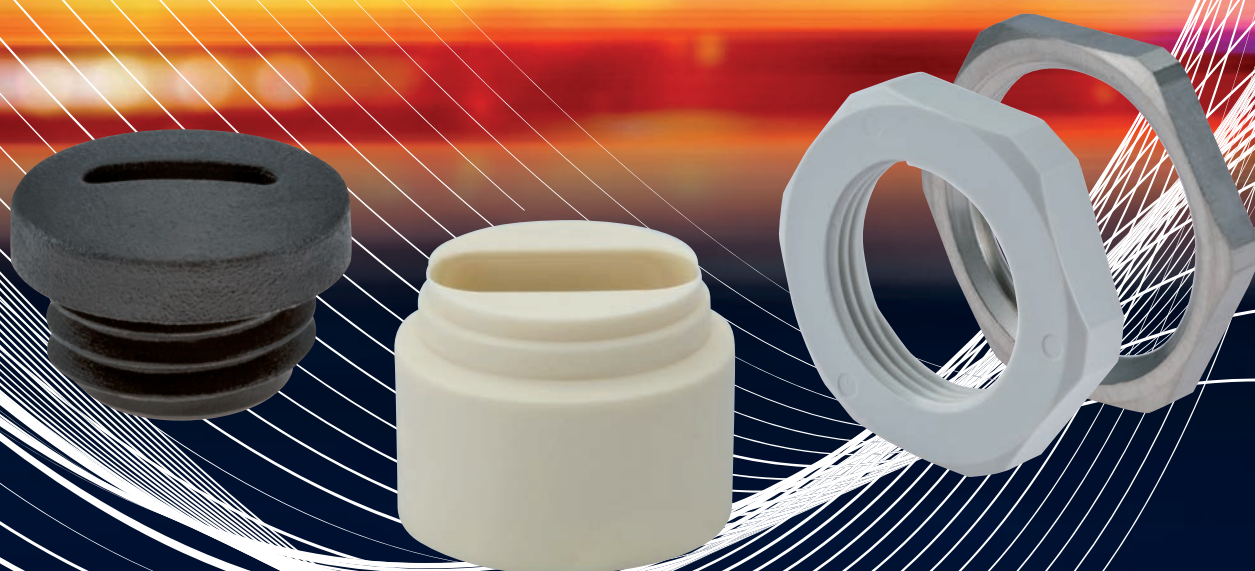
CE

TOEBEHOREN

Voor veel toepassingen de finishing touch; de toebehoren. Ogenscheinlijk onbeduidend, maar altijd uiterst belangrijk. De gewenste functionaliteit wordt vaak alleen bereikt met de juiste toebehoren. Daarom biedt HUMMEL een enorm assortiment toebehoren die perfect op de kabelwartels zijn afgestemd en jarenlang in de praktijk zijn getest.

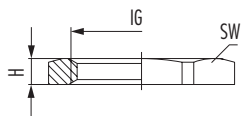
- // Toebehoren van kunststof, messing en roestvaststaal
- // Sluitingen en contramoeren
- // O-ringen en dichtringen
- // Diverse inzetstukjes (Multi, Flaka)
- // Reduceren en vergroten

De toebehoren zijn verkrijgbaar in diverse materialen, grootten en met verschillende schroefdraadtypen. Ook de toebehoren van HUMMEL beschikken over alle relevante toelatingen voor de internationale markten.



Toebehoren

Contraoer GM-FS (metrisch, PG, NPT)

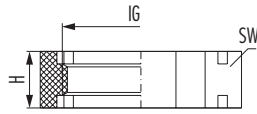


| | |
|--------------------------|-------------------------------|
| Materiaal | Polyamide, glasvezelversterkt |
| Temperatuurbereik | -40°C tot +100°C |
| Kleur | grijs / zwart |
| RAL | 7035 / 9005 |

RoHS

| IG | H mm | SW mm | Item nr. grijs | Item nr. zwart |
|-----------|---------|----------|-------------------|-------------------|
| M12 x 1,5 | 5 | 17 | 1.262.1200.50 | 1.262.1201.50 |
| M16 x 1,5 | 5 | 22 | 1.262.1600.50 | 1.262.1601.50 |
| M20 x 1,5 | 6 | 27 | 1.262.2000.50 | 1.262.2001.50 |
| M25 x 1,5 | 6,5 | 32 | 1.262.2500.50 | 1.262.2501.50 |
| M32 x 1,5 | 7 | 41 | 1.262.3200.50 | 1.262.3201.50 |
| M40 x 1,5 | 7 | 50 | 1.262.4000.50 | 1.262.4001.50 |
| M50 x 1,5 | 8 | 60 | 1.262.5000.50 | 1.262.5001.50 |
| M63 x 1,5 | 8 | 75 | 1.262.6300.50 | 1.262.6301.50 |
| PG 7 | 5 | 19 | 1.262.0700.11 | 1.262.0701.11 |
| PG 9 | 5 | 22 | 1.262.0900.11 | 1.262.0901.11 |
| PG 11 | 5 | 24 | 1.262.1100.11 | 1.262.1101.11 |
| PG 13,5 | 6 | 27 | 1.262.1300.11 | 1.262.1301.11 |
| PG 16 | 6 | 30 | 1.262.1600.11 | 1.262.1601.11 |
| PG 21 | 7 | 36 | 1.262.2100.11 | 1.262.2101.11 |
| PG 29 | 7 | 46 | 1.262.2900.11 | 1.262.2901.11 |
| PG 36 | 8 | 60 | 1.262.3600.11 | 1.262.3601.11 |
| PG 42 | 8 | 65 | 1.262.4200.11 | 1.262.4201.11 |
| PG 48 | 8 | 70 | 1.262.4800.11 | 1.262.4801.11 |
| NPT 3/8" | 7 | 24 | 1.262.3800.70 | 1.262.3801.70 |
| NPT 1/2" | 7 | 27 | 1.262.1200.70 | 1.262.1201.70 |
| NPT 3/4" | 7 | 32 | 1.262.3400.70 | 1.262.3401.70 |
| NPT 1" | 8 | 40 | 1.262.1000.70 | 1.262.1001.70 |

Contraoer voor ontluuchtingsplug GM-KS (metrisch)



| | |
|--------------------------|------------------|
| Materiaal | Polyamide |
| Temperatuurbereik | -40°C tot +100°C |
| Kleur | zwart/grijs |
| RAL | 9005/7035 |

| IG | H mm | SW mm | Item nr. grijs | Item nr. zwart |
|-----------|---------|----------|-------------------|-------------------|
| M25 x 1,5 | 9 | 30 | 1.263.2500.50 | 1.263.2501.50 |

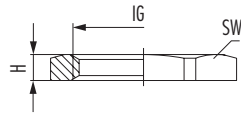
Toebehoren

Contraoer GM-Ms (metrisch, PG, G)

Materiaal

Vernikkeld messing

RoHS



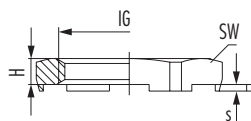
| IG | H mm | SW mm | Item nr. |
|-----------|---------|----------|---------------|
| M12 x 1,5 | 2,8 | 15 | 1.161.1200.50 |
| M16 x 1,5 | 2,8 | 19 | 1.161.1600.50 |
| M20 x 1,5 | 3 | 23 | 1.161.2000.50 |
| M25 x 1,5 | 3,5 | 29 | 1.161.2500.50 |
| M32 x 1,5 | 4 | 36 | 1.161.3200.50 |
| M40 x 1,5 | 4,5 | 41 | 1.161.4000.50 |
| M50 x 1,5 | 5,5 | 55 | 1.161.5000.50 |
| M63 x 1,5 | 6 | 70 | 1.161.6300.50 |
| M75 x 1,5 | 8 | 85 | 1.161.7500.50 |
| M80 x 2 | 8 | 90 | 1.161.8000.50 |
| M90 x 2 | 8 | 100 | 1.161.9000.50 |
| M100 x 2 | 11 | 115 | 1.161.1000.50 |
| M110 x 2 | 11 | 125 | 1.161.1100.50 |
| PG 7 | 2,8 | 15 | 1.161.0700.01 |
| PG 9 | 2,8 | 18 | 1.161.0900.01 |
| PG 11 | 3 | 21 | 1.161.1100.01 |
| PG 13,5 | 3 | 23 | 1.161.1300.01 |
| PG 16 | 3 | 26 | 1.161.1600.01 |
| PG 21 | 3,5 | 32 | 1.161.2100.01 |
| PG 29 | 4 | 41 | 1.161.2900.01 |
| PG 36 | 5 | 51 | 1.161.3600.01 |
| PG 42 | 5 | 60 | 1.161.4200.01 |
| PG 48 | 5,5 | 64 | 1.161.4800.01 |
| G 1/2" | 7 | 80 | 1.106.5200.99 |
| G 3" | 8 | 95 | 1.106.3000.99 |
| G 4" | 11 | 125 | 1.106.4000.99 |



Materiaal

Vernikkeld messing

RoHS



| IG | H mm | s mm | SW mm | Item nr. |
|-----------|---------|---------|----------|---------------|
| M12 x 1,5 | 2,8 | 0,7 | 15 | 1.167.1200.50 |
| M16 x 1,5 | 2,8 | 0,7 | 19 | 1.167.1600.50 |
| M20 x 1,5 | 3 | 0,7 | 24 | 1.167.2000.50 |
| M25 x 1,5 | 3,5 | 0,7 | 30 | 1.167.2500.50 |
| M32 x 1,5 | 4,5 | 0,7 | 36 | 1.167.3200.50 |
| M40 x 1,5 | 5 | 0,7 | 46 | 1.167.4000.50 |
| M50 x 1,5 | 5 | 0,7 | 60 | 1.167.5000.50 |
| M63 x 1,5 | 6 | 0,7 | 70 | 1.167.6300.50 |
| PG 7 | 2,8 | 0,7 | 15 | 1.167.0700.01 |
| PG 9 | 2,8 | 0,7 | 18 | 1.167.0900.01 |
| PG 11 | 3 | 0,7 | 21 | 1.167.1100.01 |
| PG 13,5 | 3 | 0,7 | 23 | 1.167.1300.01 |
| PG 16 | 3 | 0,7 | 26 | 1.167.1600.01 |
| PG 21 | 3,5 | 0,7 | 32 | 1.167.2100.01 |
| PG 29 | 4 | 0,7 | 41 | 1.167.2900.01 |
| PG 36 | 5 | 0,7 | 51 | 1.167.3600.01 |
| PG 42 | 5 | 0,7 | 60 | 1.167.4200.01 |
| PG 48 | 5,5 | 0,7 | 64 | 1.167.4800.01 |



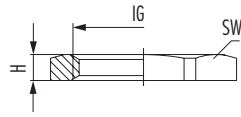
Toebehoren

Contraoer GM-INOX (metrisch, PG)

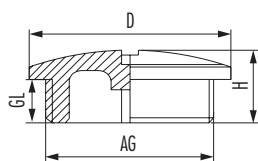
Materiaal

INOX 1.4305

RoHS



| IG | H mm | SW mm | Item nr. |
|-----------|---------|----------|---------------|
| M12 x 1,5 | 2,8 | 15 | 1.161.1200.08 |
| M16 x 1,5 | 2,8 | 19 | 1.161.1600.08 |
| M20 x 1,5 | 2,8 | 24 | 1.161.2000.08 |
| M25 x 1,5 | 3,5 | 30 | 1.161.2500.08 |
| M32 x 1,5 | 3,5 | 36 | 1.161.3200.08 |
| M40 x 1,5 | 5 | 46 | 1.161.4000.08 |
| M50 x 1,5 | 5 | 55 | 1.161.5000.08 |
| M63 x 1,5 | 6 | 70 | 1.161.6300.08 |
| PG 7 | 2,8 | 17 | 1.161.0700.08 |
| PG 9 | 2,8 | 22 | 1.161.0900.08 |
| PG 11 | 3 | 22 | 1.161.1100.08 |
| PG 13,5 | 3 | 24 | 1.161.1300.08 |
| PG 16 | 3 | 27 | 1.161.1600.08 |
| PG 21 | 3,5 | 32 | 1.161.2100.08 |
| PG 29 | 4 | 41 | 1.161.2900.08 |
| PG 36 | 5 | 50 | 1.161.3600.08 |



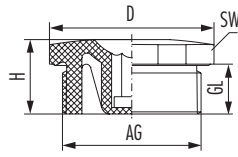
| | |
|--------------------|------------------|
| Materiaal | Polyamide |
| Beschermingsklasse | IP 54 |
| Temperatuurbereik | -40°C tot +100°C |
| Kleur | grijs / zwart |
| RAL | 7035 / 9005 |

RoHS

| AG | D mm | GL mm | H mm | Item nr. grijs | Item nr. zwart |
|-----------|---------|----------|---------|-------------------|-------------------|
| M12 x 1,5 | 15 | 6 | 10 | 1.251.1200.50 | 1.251.1201.50 |
| M16 x 1,5 | 20 | 7 | 11 | 1.251.1600.50 | |
| M16 x 1,5 | 20 | 7 | 11,5 | | 1.251.1601.50 |
| M20 x 1,5 | 25 | 6 | 9,5 | 1.251.2000.50 | 1.251.2001.50 |
| M25 x 1,5 | 30 | 11 | 15,5 | 1.251.2500.50 | 1.251.2501.50 |
| M32 x 1,5 | 38 | 11 | 16 | 1.251.3200.50 | 1.251.3201.50 |
| M40 x 1,5 | 46 | 13 | 18 | 1.251.4000.50 | 1.251.4001.50 |
| M50 x 1,5 | 56 | 13 | 18,5 | 1.251.5000.50 | 1.251.5001.50 |
| M63 x 1,5 | 69 | 15 | 19 | 1.251.6300.50 | 1.251.6301.50 |
| PG 7 | 15 | 6 | 8 | 1.251.0700.11 | 1.251.0701.11 |
| PG 9 | 19 | 6 | 9 | 1.251.0900.11 | 1.251.0901.11 |
| PG 11 | 22 | 6 | 9 | 1.251.1100.11 | 1.251.1101.11 |
| PG 13,5 | 25 | 6 | 9,5 | 1.251.1300.11 | 1.251.1301.11 |
| PG 16 | 27 | 6 | 9,5 | 1.251.1600.11 | 1.251.1601.11 |
| PG 21 | 33 | 8 | 11 | 1.251.2100.11 | 1.251.2101.11 |
| PG 29 | 44 | 8 | 12 | 1.251.2900.11 | 1.251.2901.11 |
| PG 36 | 55 | 10 | 15 | 1.251.3600.11 | 1.251.3601.11 |
| PG 42 | 62 | 10 | 16 | 1.251.4200.11 | 1.251.4201.11 |
| PG 48 | 69 | 12 | 16 | 1.251.4800.11 | 1.251.4801.11 |

Toebehoren

Sluiting V-NE (metrisch, PG)

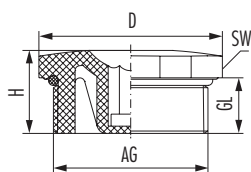


| | |
|---------------------------|-------------------------------|
| Materiaal | Polyamide, glasvezelversterkt |
| Beschermingsklasse | IP 54 |
| Temperatuurbereik | -20°C tot +80°C |
| Kleur | zwart |
| RAL | 9005 |

RoHS

| AG | D mm | GL mm | H mm | D | SW mm | ⊙ | Item nr. |
|-----------|---------|----------|---------|---|----------|---|---------------|
| M12 x 1,5 | 16,5 | 8,5 | 13 | | 15 | 6 | 1.255.1201.50 |
| M16 x 1,5 | 20,5 | 8,5 | 13 | | 19 | 8 | 1.255.1601.50 |
| M20 x 1,5 | 25,5 | 9 | 14,5 | | 24 | 8 | 1.255.2001.50 |
| M25 x 1,5 | 30,5 | 10,5 | 16 | | 28 | 8 | 1.255.2501.50 |
| M32 x 1,5 | 38 | 11,5 | 17,5 | | 36 | 8 | 1.255.3201.50 |
| M40 x 1,5 | 48 | 11,5 | 18 | | 46 | 8 | 1.255.4001.50 |
| M50 x 1,5 | 60 | 13,5 | 20 | | 55 | 8 | 1.255.5001.50 |
| M63 x 1,5 | 75 | 14,5 | 21 | | 70 | 8 | 1.255.6301.50 |
| PG 7 | 16,5 | 8,5 | 13 | | 15 | 6 | 1.255.0701.11 |
| PG 9 | 20,5 | 8,5 | 13 | | 19 | 8 | 1.255.0901.11 |
| PG 11 | 25,5 | 9 | 14,5 | | 24 | 8 | 1.255.1101.11 |
| PG 13,5 | 25,5 | 9 | 14,5 | | 24 | 8 | 1.255.1301.11 |
| PG 16 | 30,5 | 10,5 | 16 | | 28 | 8 | 1.255.1601.11 |
| PG 21 | 38 | 11,5 | 17,5 | | 36 | 8 | 1.255.2101.11 |
| PG 29 | 48 | 11,5 | 18 | | 46 | 8 | 1.255.2901.11 |
| PG 36 | 60 | 13,5 | 20 | | 55 | 8 | 1.255.3601.11 |
| PG 42 | 65 | 13,5 | 20 | | 60 | 8 | 1.255.4201.11 |
| PG 48 | 75 | 14,5 | 21 | | 70 | 8 | 1.255.4801.11 |



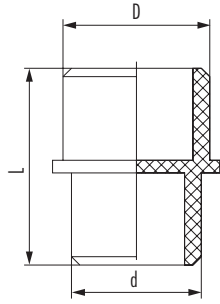


| | |
|---------------------------|-------------------------------|
| Materiaal | Polyamide, glasvezelversterkt |
| Materiaal o-ring | NBR |
| Beschermingsklasse | IP 68 – 10 bar / IP 69 K |
| Temperatuurbereik | -20°C tot +80°C |
| Kleur | zwart |
| RAL | 9005 |

RoHS

| AG | D mm | GL mm | H mm | SW mm | ⊙ | Item nr. |
|-----------|---------|----------|---------|----------|---|---------------|
| M12 x 1,5 | 16,5 | 8,5 | 13 | 15 | 6 | 1.256.1201.50 |
| M16 x 1,5 | 20,5 | 8,5 | 13 | 19 | 8 | 1.256.1601.50 |
| M20 x 1,5 | 25,5 | 9 | 14,5 | 24 | 8 | 1.256.2001.50 |
| M25 x 1,5 | 30,5 | 10,5 | 16 | 28 | 8 | 1.256.2501.50 |
| M32 x 1,5 | 38 | 11,5 | 17,5 | 36 | 8 | 1.256.3201.50 |
| M40 x 1,5 | 48 | 11,5 | 18 | 46 | 8 | 1.256.4001.50 |
| M50 x 1,5 | 60 | 13,5 | 20 | 55 | 8 | 1.256.5001.50 |
| M63 x 1,5 | 75 | 14,5 | 21 | 70 | 8 | 1.256.6301.50 |
| PG 7 | 16,5 | 8,5 | 13 | 15 | 6 | 1.256.0701.11 |
| PG 9 | 20,5 | 8,5 | 13 | 19 | 8 | 1.256.0901.11 |
| PG 11 | 25,5 | 9 | 14,5 | 24 | 8 | 1.256.1101.11 |
| PG 13,5 | 25,5 | 9 | 14,5 | 24 | 8 | 1.256.1301.11 |
| PG 16 | 30,5 | 10,5 | 16 | 28 | 8 | 1.256.1601.11 |
| PG 21 | 38 | 11,5 | 17,5 | 36 | 8 | 1.256.2101.11 |
| PG 29 | 48 | 11,5 | 18 | 46 | 8 | 1.256.2901.11 |
| PG 36 | 60 | 13,5 | 20 | 55 | 8 | 1.256.3601.11 |
| PG 42 | 65 | 13,5 | 20 | 60 | 8 | 1.256.4201.11 |
| PG 48 | 75 | 14,5 | 21 | 70 | 8 | 1.256.4801.11 |





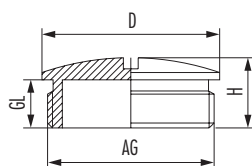
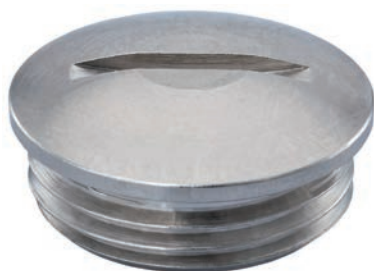
| | |
|--------------------------|------------------|
| Materiaal | Polyamide |
| Temperatuurbereik | -40°C tot +100°C |
| Kleur | zwart |
| RAL | 9005 |

RoHS

// Afsluitingen voor wartels

| Geschikt voor AG | Geschikt voor AG2 | Geschikt voor AG3 | d mm | D mm | L mm | Item nr. |
|------------------|-------------------|---------------------|---------|---------|---------|---------------|
| PG 7 | M12 x 1,5 | | 4,5 | 6 | 15 | 1.280.0007.00 |
| PG 9 | M16 x 1,5 | NPT 3/8" | 5,5 | 7,5 | 17 | 1.280.0009.00 |
| PG 11 | M16 x 1,5 / 11 | | 6,5 | 8,5 | 19 | 1.280.0011.00 |
| PG 13,5 | M20 x 1,5 | NPT 1/2" | 8,5 | 11,5 | 19 | 1.280.0013.00 |
| PG 16 | M20 x 1,5 / 16 | NPT 1/2" / 16 | 11,5 | 13,5 | 19,5 | 1.280.0016.00 |
| PG 21 | M25 x 1,5 | NPT 3/4" | 15,5 | 17,5 | 23,5 | 1.280.0021.00 |
| PG 29 | M32 x 1,5 | NPT 1" / NPT 1 1/4" | 19 | 24 | 26 | 1.280.0029.00 |
| PG 36 | M40 x 1,5 | NPT 1 1/2" | 25 | 31 | 28 | 1.280.0036.00 |
| PG 42 | M50 x 1,5 | | 30 | 37 | 28 | 1.280.0042.00 |
| PG 48 | M63 x 1,5 | | 34 | 43 | 28 | 1.280.0048.00 |





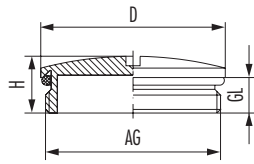
| | |
|--------------------|--------------------|
| Materiaal | Vernikkeld messing |
| Beschermingsklasse | IP 54 |

RoHS

| AG | D mm | GL mm | H mm | Item nr. |
|-----------|---------|----------|---------|---------------|
| M12 x 1,5 | 14 | 5 | 7,5 | 1.052.1200.50 |
| M16 x 1,5 | 18 | 5 | 8 | 1.052.1600.50 |
| M20 x 1,5 | 22 | 6,5 | 9,5 | 1.052.2000.50 |
| M25 x 1,5 | 28 | 7 | 11 | 1.052.2500.50 |
| M32 x 1,5 | 35 | 8 | 12 | 1.052.3200.50 |
| M40 x 1,5 | 45 | 8,1 | 13 | 1.052.4000.50 |
| M50 x 1,5 | 54 | 9 | 15 | 1.052.5000.50 |
| M63 x 1,5 | 67 | 10 | 16 | 1.052.6300.50 |
| PG 7 | 14 | 5 | 8 | 1.052.0700.01 |
| PG 9 | 17 | 6 | 9 | 1.052.0900.01 |
| PG 11 | 20 | 6 | 9 | 1.052.1100.01 |
| PG 13,5 | 22 | 6,5 | 9,5 | 1.052.1300.01 |
| PG 16 | 24 | 6,5 | 9,5 | 1.052.1600.01 |
| PG 21 | 30 | 7 | 11 | 1.052.2100.01 |
| PG 29 | 39 | 8 | 12 | 1.052.2900.01 |
| PG 36 | 50 | 9 | 15 | 1.052.3600.01 |
| PG 42 | 57 | 10 | 16 | 1.052.4200.01 |
| PG 48 | 64 | 10 | 16 | 1.052.4800.01 |

Toebehoren

Sluiting V-N-Ms-SD (metrisch, PG)

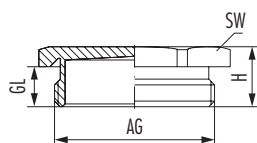
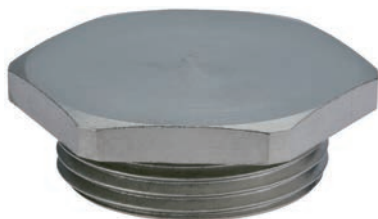


| | |
|---------------------------|--------------------------|
| Materiaal | Vernikkeld messing |
| Materiaal o-ring | NBR |
| Beschermingsklasse | IP 68 – 10 bar / IP 69 K |
| Temperatuurbereik | -40°C tot +80°C |

RoHS

// Andere materialen voor O-ringen op aanvraag

| AG | D mm | GL mm | H mm | Item nr. |
|-----------|---------|----------|---------|---------------|
| M12 x 1,5 | 14 | 6,5 | 9,5 | 1.052.1201.50 |
| M16 x 1,5 | 20 | 6 | 9 | 1.052.1601.50 |
| M20 x 1,5 | 24 | 6,5 | 9,5 | 1.052.2001.50 |
| M25 x 1,5 | 28 | 7 | 11 | 1.052.2501.50 |
| M32 x 1,5 | 35 | 8 | 12,5 | 1.052.3201.50 |
| M40 x 1,5 | 45 | 8 | 12 | 1.052.4001.50 |
| M50 x 1,5 | 55 | 9 | 15 | 1.052.5001.50 |
| M63 x 1,5 | 68 | 10 | 16 | 1.052.6301.50 |
| PG 7 | 14 | 4,8 | 8 | 1.052.0701.01 |
| PG 9 | 17 | 5,5 | 9 | 1.052.0901.01 |
| PG 11 | 20 | 5,5 | 9 | 1.052.1101.01 |
| PG 13,5 | 22 | 6 | 9,5 | 1.052.1301.01 |
| PG 16 | 24 | 6 | 9,5 | 1.052.1601.01 |
| PG 21 | 30 | 6,5 | 11 | 1.052.2101.01 |
| PG 29 | 39 | 7,5 | 12 | 1.052.2901.01 |
| PG 36 | 50 | 9 | 15 | 1.052.3601.01 |
| PG 42 | 57 | 10 | 16 | 1.052.4201.01 |
| PG 48 | 64 | 10 | 16 | 1.052.4801.01 |



Materiaal Vernikkeld messing

RoHS

Beschermingsklasse IP 54

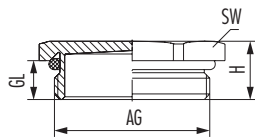
- // Zonder O-ring
- // NTP-draad op aanvraag
- // Lang aansluitschroefdraad op aanvraag

| AG | GL mm | H mm | SW mm | Item nr. |
|-----------|----------|---------|----------|---------------|
| M12 x 1,5 | 6,5 | 9,5 | 14 | 1.155.1200.50 |
| M16 x 1,5 | 6 | 9 | 19 | 1.155.1600.50 |
| M20 x 1,5 | 6 | 9,5 | 22 | 1.155.2000.50 |
| M25 x 1,5 | 7 | 10,5 | 30 | 1.155.2500.50 |
| M32 x 1,5 | 8 | 12,5 | 41 | 1.155.3200.50 |
| M40 x 1,5 | 8 | 13 | 46 | 1.155.4000.50 |
| M50 x 1,5 | 9 | 15 | 55 | 1.155.5000.50 |
| M63 x 1,5 | 10 | 16,5 | 70 | 1.155.6300.50 |
| PG 7 | 5 | 8 | 14 | 1.155.0700.01 |
| PG 9 | 6 | 9 | 17 | 1.155.0900.01 |
| PG 11 | 6 | 9,5 | 20 | 1.155.1100.01 |
| PG 13,5 | 6,5 | 10 | 22 | 1.155.1300.01 |
| PG 16 | 6,5 | 10 | 24 | 1.155.1600.01 |
| PG 21 | 7 | 10,5 | 30 | 1.155.2100.01 |
| PG 29 | 8 | 12,5 | 41 | 1.155.2900.01 |
| PG 36 | 8 | 13 | 50 | 1.155.3600.01 |
| PG 42 | 9 | 15 | 58 | 1.155.4200.01 |
| PG 48 | 10 | 16,5 | 65 | 1.155.4800.01 |



Toebehoren

Sluiting V-NE-Ms (metrisch, PG)



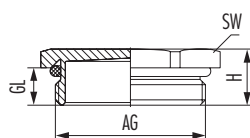
| | |
|---------------------------|------------------------------------|
| Materiaal | Vernikkeld messing |
| Materiaal o-ring | NBR / FKM |
| Beschermingsklasse | IP 68 – 10 bar / IP 69 K |
| Temperatuurbereik | -20°C tot +95°C / -20°C tot +180°C |

RoHS

- // NTP-draad op aanvraag
- // Lang aansluit Schroefdraad op aanvraag
- // Andere materialen voor O-ringen op aanvraag

| AG | GL mm | H mm | SW mm | Item nr. NBR | Item nr. FKM |
|-----------|----------|---------|----------|-----------------|-----------------|
| M12 x 1,5 | 6,5 | 9,5 | 14 | 1.156.1200.50 | 1.157.1200.50 |
| M16 x 1,5 | 6 | 9 | 19 | 1.156.1600.50 | 1.157.1600.50 |
| M20 x 1,5 | 6 | 9,5 | 22 | 1.156.2000.50 | 1.157.2000.50 |
| M25 x 1,5 | 7 | 10,5 | 30 | 1.156.2500.50 | 1.157.2500.50 |
| M32 x 1,5 | 8 | 12,5 | 41 | 1.156.3200.50 | 1.157.3200.50 |
| M40 x 1,5 | 8 | 13 | 46 | 1.156.4000.50 | 1.157.4000.50 |
| M50 x 1,5 | 9 | 15 | 55 | 1.156.5000.50 | 1.157.5000.50 |
| M63 x 1,5 | 10 | 16,5 | 70 | 1.156.6300.50 | 1.157.6300.50 |
| PG 7 | 5 | 8 | 14 | 1.156.0700.01 | 1.157.0700.01 |
| PG 9 | 6 | 9 | 17 | 1.156.0900.01 | 1.157.0900.01 |
| PG 11 | 6 | 9,5 | 20 | 1.156.1100.01 | 1.157.1100.01 |
| PG 13,5 | 6,5 | 10 | 22 | 1.156.1300.01 | 1.157.1300.01 |
| PG 16 | 6,5 | 10 | 24 | 1.156.1600.01 | 1.157.1600.01 |
| PG 21 | 7 | 10,5 | 30 | 1.156.2100.01 | 1.157.2100.01 |
| PG 29 | 8 | 12,5 | 41 | 1.156.2900.01 | 1.157.2900.01 |
| PG 36 | 8 | 13 | 50 | 1.156.3600.01 | 1.157.3600.01 |
| PG 42 | 9 | 15 | 58 | 1.156.4200.01 | 1.157.4200.01 |
| PG 48 | 10 | 16,5 | 65 | 1.156.4800.01 | 1.157.4800.01 |





| | |
|---------------------------|--|
| Materiaal | INOX 1.4305 |
| Materiaal o-ring | NBR / FKM / VMQ (Silicone) |
| Beschermingsklasse | IP 68 – 10 bar / IP 69 K |
| Temperatuurbereik | -20°C tot +95°C / -20°C tot +180°C / -60°C tot +180°C |

RoHS

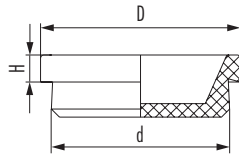
- // Lang aansluitschroefdraad op aanvraag
- // Andere grootten op aanvraag

| AG | GL mm | H mm | SW mm | Item nr. NBR -20°C tot +95°C | Item nr. FKM -20°C tot +180°C | Item nr. VMQ (Silicone) -60°C tot +180°C |
|-----------|----------|---------|----------|------------------------------------|-------------------------------------|--|
| M12 x 1,5 | 6,5 | 9,5 | 14 | 1.152.1200.50 | 1.153.1200.50 | 1.154.1200.50 |
| M16 x 1,5 | 6 | 9 | 19 | 1.152.1600.50 | 1.153.1600.50 | 1.154.1600.50 |
| M20 x 1,5 | 6 | 9,5 | 22 | 1.152.2000.50 | 1.153.2000.50 | 1.154.2000.50 |
| M25 x 1,5 | 7 | 10,5 | 30 | 1.152.2500.50 | 1.153.2500.50 | 1.154.2500.50 |
| M32 x 1,5 | 8 | 12,5 | 41 | 1.152.3200.50 | 1.153.3200.50 | 1.154.3200.50 |
| M40 x 1,5 | 8 | 13 | 46 | 1.152.4000.50 | 1.153.4000.50 | 1.154.4000.50 |
| PG 7 | 5 | 8 | 14 | 1.152.0700.01 | 1.153.0700.01 | 1.154.0700.01 |
| PG 9 | 6 | 9 | 17 | 1.152.0900.01 | 1.153.0900.01 | 1.154.0900.01 |
| PG 11 | 6 | 9,5 | 20 | 1.152.1100.01 | 1.153.1100.01 | 1.154.1100.01 |
| PG 13,5 | 6,5 | 10 | 22 | 1.152.1300.01 | 1.153.1300.01 | 1.154.1300.01 |
| PG 16 | 6,5 | 10 | 24 | 1.152.1600.01 | 1.153.1600.01 | 1.154.1600.01 |
| PG 21 | 7 | 10,5 | 30 | 1.152.2100.01 | 1.153.2100.01 | 1.154.2100.01 |
| PG 29 | 8 | 12,5 | 41 | 1.152.2900.01 | 1.153.2900.01 | 1.154.2900.01 |
| PG 36 | 8 | 13 | 50 | 1.152.3600.01 | 1.153.3600.01 | 1.154.3600.01 |



Toebehoren

Blinddop zonder schroefdraad DS



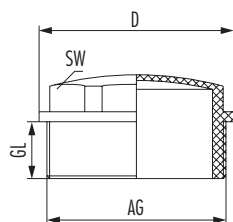
| | |
|--------------------|-----------------|
| Materiaal | Elastomeer |
| Beschermingsklasse | IP 54 |
| Temperatuurbereik | -20°C tot +80°C |
| Kleur | zwart |
| RAL | 9005 |

RoHS

// Voor doorgaande gaten of schroefdraadboringen

| d mm | D mm | H mm | Item nr. |
|---------|---------|---------|---------------|
| 12 | 17 | 5 | 1.250.1201.50 |
| 16 | 20 | 5 | 1.250.1601.50 |
| 20 | 25 | 5 | 1.250.2001.50 |
| 25 | 30 | 5 | 1.250.2501.50 |
| 32 | 37 | 5 | 1.250.3201.50 |
| 40 | 45 | 5 | 1.250.4001.50 |
| 50 | 56 | 5 | 1.250.5001.50 |
| 63 | 70 | 5 | 1.250.6301.50 |

Afdichtdop met schroefdraad WN (metrisch)



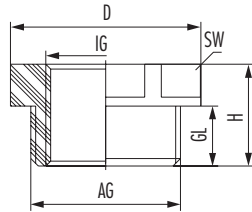
| | |
|--------------------|-----------------|
| Materiaal | Polyethyleen |
| Beschermingsklasse | IP 54 |
| Temperatuurbereik | -20°C tot +80°C |
| Kleur | grijs |
| RAL | 7035 |

RoHS

| AG | D mm | GL mm | SW mm | Item nr. |
|-----------|---------|----------|----------|---------------|
| M16 x 1,5 | 19,8 | 9 | 15 | 1.282.1600.50 |
| M20 x 1,5 | 24 | 12 | 19 | 1.282.2000.50 |
| M25 x 1,5 | 29,5 | 12 | 24 | 1.282.2500.50 |
| M32 x 1,5 | 37,5 | 14 | 30 | 1.282.3200.50 |
| M40 x 1,5 | 45,8 | 14 | 37 | 1.282.4000.50 |
| M50 x 1,5 | 55,8 | 18 | 46 | 1.282.5000.50 |
| M63 x 1,5 | 68,8 | 20 | 56 | 1.282.6300.50 |

Toebehoren

Reduceren R-FS type A (metrisch)



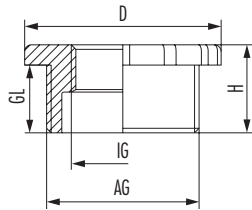
| | |
|--------------------------|-----------------|
| Materiaal | Polyamide |
| Temperatuurbereik | -40°C tot +80°C |
| Kleur | grijs |
| RAL | 7035 |

RoHS

// Voor verdere maten zie type B of C

| AG | IG | Type | D mm | GL mm | H mm | SW mm | Item nr. |
|-----------|-----------|------|---------|----------|---------|----------|---------------|
| M16 x 1,5 | M12 x 1,5 | A | 24 | 9 | 16 | 22 | 1.272.1612.50 |
| M20 x 1,5 | M16 x 1,5 | A | 27 | 9 | 16 | 24 | 1.272.2016.50 |
| M25 x 1,5 | M20 x 1,5 | A | 32 | 10 | 17 | 29 | 1.272.2520.50 |
| M32 x 1,5 | M25 x 1,5 | A | 40 | 12 | 19 | 36 | 1.272.3225.50 |
| M40 x 1,5 | M32 x 1,5 | A | 51 | 12 | 19 | 46 | 1.272.4032.50 |
| M50 x 1,5 | M40 x 1,5 | A | 61 | 14 | 21 | 55 | 1.272.5040.50 |
| M63 x 1,5 | M50 x 1,5 | A | 75 | 15 | 22 | 65 | 1.272.6350.50 |

Reduceren R-FS type B (PG)



| | |
|-------------------|-----------------|
| Materiaal | Polyamide |
| Temperatuurbereik | -40°C tot +80°C |
| Kleur | grijs |
| RAL | 7035 |

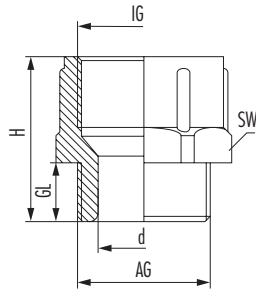
RoHS

// Voor verdere maten zie type A of C

| AG | IG | Type | D mm | GL mm | H mm | Item nr. |
|---------|---------|------|---------|----------|---------|---------------|
| PG 13,5 | PG 9 | B | 27 | 8 | 12 | 1.272.1309.11 |
| PG 16 | PG 9 | B | 29 | 10 | 13 | 1.272.1609.11 |
| PG 16 | PG 11 | B | 29 | 10 | 13 | 1.272.1611.11 |
| PG 21 | PG 13,5 | B | 36 | 11 | 13,5 | 1.272.2113.11 |
| PG 21 | PG 16 | B | 36 | 11 | 13,5 | 1.272.2116.11 |
| PG 29 | PG 21 | B | 46 | 11 | 13,5 | 1.272.2921.11 |
| PG 36 | PG 29 | B | 58 | 11 | 15 | 1.272.3629.11 |

Toebehoren

Reduceren R-FS type C (PG)



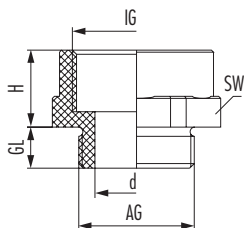
| | |
|--------------------------|-----------------|
| Materiaal | Polyamide |
| Temperatuurbereik | -40°C tot +80°C |
| Kleur | grijs |
| RAL | 7035 |

RoHS

// Voor verdere maten zie type A of B

| AG | IG | Type | d mm | GL mm | H mm | SW mm | Item nr. |
|---------|---------|------|---------|----------|---------|----------|---------------|
| PG 9 | PG 7 | C | 8 | 8 | 14 | 15 | 1.236.0907.11 |
| PG 11 | PG 9 | C | 10,2 | 8 | 23 | 22 | 1.236.1109.11 |
| PG 13,5 | PG 11 | C | 11,5 | 9 | 21,5 | 22 | 1.236.1311.11 |
| PG 16 | PG 13,5 | C | 13,5 | 10 | 27 | 27 | 1.236.1613.11 |

Reduceren R-M-PA type A (metrisch, PG)



| | |
|-------------------|-----------------|
| Materiaal | Polyamide |
| Temperatuurbereik | -20°C tot +80°C |
| Kleur | zwart |
| RAL | 9005 |

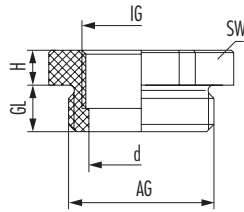
RoHS

// Voor verdere maten zie type B of C

| AG | IG | Type | d mm | GL mm | H mm | SW mm | Item nr. |
|-----------|-----------|------|---------|----------|---------|----------|---------------|
| M25 x 1,5 | PG 16 | A | 18 | 8 | 14 | 29 | 1.273.2516.50 |
| M32 x 1,5 | PG 21 | A | 25 | 10 | 15 | 36 | 1.273.3221.50 |
| M40 x 1,5 | PG 29 | A | 33 | 10 | 15 | 45 | 1.273.4029.50 |
| M50 x 1,5 | PG 36 | A | 43 | 12 | 17 | 55 | 1.273.5036.50 |
| PG 16 | M20 x 1,5 | A | 16 | 8 | 13 | 27 | 1.273.1620.11 |

Toebehoren

Reduceren R-M-PA type B (metrisch, PG)



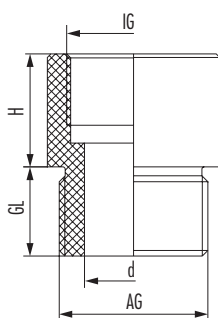
| | |
|--------------------------|-----------------|
| Materiaal | Polyamide |
| Temperatuurbereik | -20°C tot +80°C |
| Kleur | zwart |
| RAL | 9005 |

RoHS

// Voor verdere maten zie type A of C

| AG | IG | Type | d mm | GL mm | H mm | SW mm | Item nr. |
|-----------|-----------|------|---------|----------|---------|----------|---------------|
| M16 x 1,5 | M12 x 1,5 | B | 10 | 8 | 6 | 20 | 1.273.1612.50 |
| M20 x 1,5 | M16 x 1,5 | B | 13,5 | 8 | 6 | 25 | 1.273.2016.50 |
| M25 x 1,5 | PG 13,5 | B | 18 | 8 | 6 | 29 | 1.273.2513.50 |
| M25 x 1,5 | M20 x 1,5 | B | 18 | 8 | 6 | 29 | 1.273.2520.50 |
| M32 x 1,5 | M25 x 1,5 | B | 23 | 10 | 6 | 36 | 1.273.3225.50 |
| PG 13,5 | M16 x 1,5 | B | 14 | 8 | 6 | 25 | 1.273.1316.11 |

Reduceren R-M-PA type C (metrisch, PG)



| | |
|--------------------------|-----------------|
| Materiaal | Polypropyleen |
| Temperatuurbereik | -20°C tot +80°C |
| Kleur | zwart |
| RAL | 9005 |

RoHS

// Voor verdere maten zie type A of B

| AG | IG | Type | d mm | GL mm | H mm | Item nr. |
|-----------|-----------|------|---------|----------|---------|---------------|
| M40 x 1,5 | M32 x 1,5 | C | 30 | 15 | 5 | 1.273.4032.50 |
| M50 x 1,5 | M40 x 1,5 | C | 38 | 15 | 5 | 1.273.5040.50 |
| M63 x 1,5 | PG 42 | C | 52 | 15 | 5 | 1.273.6342.50 |
| M63 x 1,5 | M50 x 1,5 | C | 48 | 15 | 5 | 1.273.6350.50 |
| PG 9 | M12 x 1,5 | C | 8,5 | 15 | 19 | 1.273.0912.11 |
| PG 11 | M16 x 1,5 | C | 11,5 | 15 | 19 | 1.273.1116.11 |
| PG 21 | M25 x 1,5 | C | 20,5 | 15 | 19 | 1.273.2125.11 |
| PG 29 | M32 x 1,5 | C | 28 | 15 | 19 | 1.273.2932.11 |
| PG 36 | M40 x 1,5 | C | 38 | 15 | 5 | 1.273.3640.11 |
| PG 42 | M40 x 1,5 | C | 38 | 15 | 5 | 1.273.4240.11 |
| PG 48 | M50 x 1,5 | C | 38 | 15 | 5 | 1.273.4850.11 |

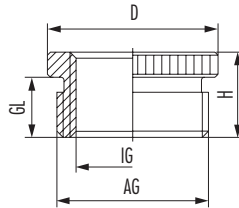
Toebehoren

Reduceren R-H (metrisch, PG)

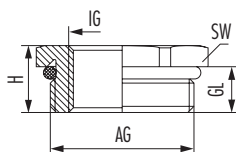
Materiaal

Vernikkeld messing

RoHS



| AG | IG | D mm | GL mm | H mm | Item nr. |
|-----------|-----------|---------|----------|---------|---------------|
| M16 x 1,5 | M12 x 1,5 | 18 | 6 | 8,5 | 1.076.1612.50 |
| M20 x 1,5 | M12 x 1,5 | 24 | 6,5 | 9 | 1.076.2012.50 |
| M20 x 1,5 | M16 x 1,5 | 24 | 6,5 | 9 | 1.076.2016.50 |
| M25 x 1,5 | M16 x 1,5 | 30 | 7 | 10 | 1.076.2516.50 |
| M25 x 1,5 | M20 x 1,5 | 30 | 7 | 10 | 1.076.2520.50 |
| M32 x 1,5 | M20 x 1,5 | 39 | 8 | 11,5 | 1.076.3220.50 |
| M32 x 1,5 | M25 x 1,5 | 39 | 8 | 11,5 | 1.076.3225.50 |
| M40 x 1,5 | M25 x 1,5 | 43 | 8 | 11,5 | 1.076.4025.50 |
| M40 x 1,5 | M32 x 1,5 | 43 | 9 | 12,5 | 1.076.4032.50 |
| M50 x 1,5 | M32 x 1,5 | 57 | 10 | 14 | 1.076.5032.50 |
| M50 x 1,5 | M40 x 1,5 | 57 | 10 | 14 | 1.076.5040.50 |
| M63 x 1,5 | M40 x 1,5 | 64 | 10 | 14 | 1.076.6340.50 |
| M63 x 1,5 | M50 x 1,5 | 64 | 10 | 14 | 1.076.6350.50 |
| PG 9 | PG 7 | 17 | 6 | 8,5 | 1.071.0907.01 |
| PG 11 | PG 7 | 20 | 6 | 8,5 | 1.071.1107.01 |
| PG 11 | PG 9 | 20 | 6 | 8,5 | 1.071.1109.01 |
| PG 13,5 | PG 9 | 22 | 6,5 | 9 | 1.071.1309.01 |
| PG 13,5 | PG 11 | 22 | 6,5 | 9 | 1.071.1311.01 |
| PG 16 | PG 9 | 24 | 6,5 | 9,5 | 1.071.1609.01 |
| PG 16 | PG 11 | 24 | 6,5 | 9,5 | 1.071.1611.01 |
| PG 16 | PG 13,5 | 24 | 6,5 | 9,5 | 1.071.1613.01 |
| PG 21 | PG 11 | 30 | 7 | 10 | 1.071.2111.01 |
| PG 21 | PG 13,5 | 30 | 7 | 10 | 1.071.2113.01 |
| PG 21 | PG 16 | 30 | 7 | 10 | 1.071.2116.01 |
| PG 29 | PG 16 | 39 | 8 | 11,5 | 1.071.2916.01 |
| PG 29 | PG 21 | 39 | 8 | 11,5 | 1.071.2921.01 |
| PG 36 | PG 21 | 50 | 9 | 12,5 | 1.071.3621.01 |
| PG 36 | PG 29 | 50 | 9 | 12,5 | 1.071.3629.01 |
| PG 42 | PG 29 | 57 | 10 | 14 | 1.071.4229.01 |
| PG 42 | PG 36 | 57 | 10 | 14 | 1.071.4236.01 |
| PG 48 | PG 36 | 64 | 10 | 14 | 1.071.4836.01 |
| PG 48 | PG 42 | 64 | 10 | 14 | 1.071.4842.01 |



| | |
|--------------------------|--------------------|
| Materiaal | Vernikkeld messing |
| Materiaal o-ring | NBR |
| Temperatuurbereik | -40°C tot +100°C |

RoHS

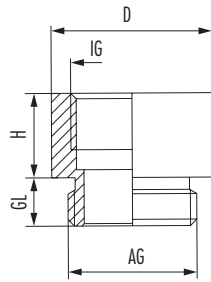
// O-ring FKM en VMQ op aanvraag

| AG | IG | GL mm | H mm | SW mm | Item nr. |
|-----------|-----------|----------|---------|----------|---------------|
| M16 x 1,5 | M12 x 1,5 | 5 | 8 | 17 | 1.077.1612.50 |
| M20 x 1,5 | M12 x 1,5 | 6 | 9 | 22 | 1.077.2012.50 |
| M20 x 1,5 | M16 x 1,5 | 6 | 9 | 22 | 1.077.2016.50 |
| M25 x 1,5 | M16 x 1,5 | 7 | 10 | 27 | 1.077.2516.50 |
| M25 x 1,5 | M20 x 1,5 | 7 | 10 | 27 | 1.077.2520.50 |
| M32 x 1,5 | M16 x 1,5 | 8 | 11 | 34 | 1.077.3216.50 |
| M32 x 1,5 | M20 x 1,5 | 8 | 11 | 35 | 1.077.3220.50 |
| M32 x 1,5 | M25 x 1,5 | 8 | 11 | 34 | 1.077.3225.50 |
| M40 x 1,5 | M20 x 1,5 | 8 | 12 | 43 | 1.077.4020.50 |
| M40 x 1,5 | M25 x 1,5 | 8 | 12 | 43 | 1.077.4025.50 |
| M40 x 1,5 | M32 x 1,5 | 8 | 12 | 43 | 1.077.4032.50 |
| M50 x 1,5 | M25 x 1,5 | 9 | 13 | 55 | 1.077.5025.50 |
| M50 x 1,5 | M32 x 1,5 | 9 | 13 | 55 | 1.077.5032.50 |
| M50 x 1,5 | M40 x 1,5 | 9 | 13 | 55 | 1.077.5040.50 |
| M63 x 1,5 | M32 x 1,5 | 10 | 14 | 65 | 1.077.6332.50 |
| M63 x 1,5 | M40 x 1,5 | 10 | 14 | 65 | 1.077.6340.50 |
| M63 x 1,5 | M50 x 1,5 | 10 | 14 | 65 | 1.077.6350.50 |
| PG 9 | PG 7 | 6 | 8,8 | 17 | 1.077.0907.01 |
| PG 11 | PG 7 | 6 | 9 | 20 | 1.077.1107.01 |
| PG 11 | PG 9 | 6 | 9 | 20 | 1.077.1109.01 |
| PG 13,5 | PG 9 | 6,5 | 9,5 | 22 | 1.077.1309.01 |
| PG 13,5 | PG 11 | 6,5 | 9,5 | 22 | 1.077.1311.01 |
| PG 16 | PG 9 | 6,5 | 9,5 | 24 | 1.077.1609.01 |
| PG 16 | PG 11 | 6,5 | 9,5 | 24 | 1.077.1611.01 |
| PG 16 | PG 13,5 | 6,5 | 9,5 | 24 | 1.077.1613.01 |
| PG 21 | PG 11 | 7 | 10,3 | 30 | 1.077.2111.01 |
| PG 21 | PG 13,5 | 7 | 10,3 | 30 | 1.077.2113.01 |
| PG 21 | PG 16 | 7 | 10,3 | 30 | 1.077.2116.01 |
| PG 29 | PG 16 | 8 | 11,5 | 40 | 1.077.2916.01 |
| PG 29 | PG 21 | 8 | 11,5 | 40 | 1.077.2921.01 |
| PG 36 | PG 21 | 9 | 12,5 | 50 | 1.077.3621.01 |
| PG 36 | PG 29 | 9 | 12,5 | 50 | 1.077.3629.01 |
| PG 42 | PG 29 | 10 | 13,5 | 57 | 1.077.4229.01 |
| PG 42 | PG 36 | 10 | 13,5 | 57 | 1.077.4236.01 |
| PG 48 | PG 36 | 10 | 13,5 | 64 | 1.077.4836.01 |
| PG 48 | PG 42 | 10 | 13,5 | 64 | 1.077.4842.01 |



Toebehoren

Reduceren RE-Ms (metrisch, PG)

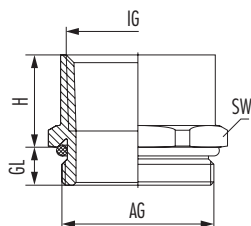


Materiaal

Vernikkeld messing

RoHS

| AG | IG | D mm | GL mm | H mm | Item nr. |
|-----------|-----------|---------|----------|---------|---------------|
| M16 x 1,5 | PG 9 | 20 | 6 | 10,5 | 1.039.1609.01 |
| M20 x 1,5 | PG 11 | 22 | 6,5 | 12,5 | 1.039.2011.01 |
| M20 x 1,5 | PG 13,5 | 22 | 6,5 | 12,5 | 1.039.2013.01 |
| M20 x 1,5 | PG 16 | 24 | 6,5 | 12,5 | 1.039.2016.01 |
| M25 x 1,5 | PG 16 | 28 | 6,5 | 12,5 | 1.039.2516.01 |
| M25 x 1,5 | PG 21 | 30 | 6,5 | 14,5 | 1.039.2521.01 |
| M32 x 1,5 | PG 29 | 39 | 7 | 16 | 1.039.3229.01 |
| PG 9 | M16 x 1,5 | 20 | 6 | 10,5 | 1.039.0916.01 |
| PG 11 | M20 x 1,5 | 22 | 6,5 | 12,5 | 1.039.1120.01 |
| PG 13,5 | M20 x 1,5 | 22 | 6,5 | 12,5 | 1.039.1320.01 |
| PG 16 | M25 x 1,5 | 27 | 6,5 | 14,5 | 1.039.1625.01 |



| | |
|-------------------|--------------------|
| Materiaal | Vernikkeld messing |
| Materiaal o-ring | NBR |
| Temperatuurbereik | -40°C tot +100°C |

RoHS

| AG | IG | GL mm | H mm | SW mm | Item nr. |
|-----------|------------|----------|---------|----------|---------------|
| M16 x 1,5 | NPT 1/2" | 6 | 17 | 24 | 1.171.1612.50 |
| M20 x 1,5 | NPT 1/2" | 6 | 17 | 24 | 1.171.2012.50 |
| M25 x 1,5 | NPT 1/2" | 7 | 8 | 30 | 1.171.2512.50 |
| M25 x 1,5 | NPT 3/4" | 7 | 19 | 30 | 1.171.2534.50 |
| M32 x 1,5 | NPT 1" | 8 | 25 | 40 | 1.171.3210.50 |
| M32 x 1,5 | NPT 1 1/4" | 8 | 25 | 46 | 1.171.3254.50 |
| PG 11 | NPT 1/2" | 6 | 16,7 | 24 | 1.171.1112.01 |
| PG 13,5 | NPT 1/2" | 6,5 | 17 | 24 | 1.171.1312.01 |
| PG 16 | NPT 1/2" | 6,5 | 16,5 | 24 | 1.171.1612.01 |
| PG 21 | NPT 1/2" | 7 | 8 | 30 | 1.171.2112.01 |
| PG 21 | NPT 3/4" | 7 | 17 | 30 | 1.171.2134.01 |
| PG 29 | NPT 1" | 8 | 12 | 40 | 1.171.2910.01 |

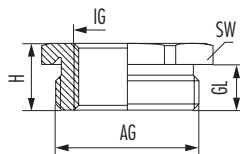
Materiaal

INOX 1.4305

RoHS

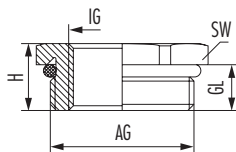
Temperatuurbereik

-20°C tot +95°C



| AG | IG | GL mm | H mm | SW mm | Item nr. |
|-----------|-----------|----------|---------|----------|---------------|
| M16 x 1,5 | M12 x 1,5 | 6 | 9 | 19 | 1.094.1612.50 |
| M20 x 1,5 | M12 x 1,5 | 6 | 9,5 | 22 | 1.094.2012.50 |
| M20 x 1,5 | M16 x 1,5 | 6 | 9,5 | 22 | 1.094.2016.50 |
| M25 x 1,5 | M16 x 1,5 | 7 | 10,5 | 30 | 1.094.2516.50 |
| M25 x 1,5 | M20 x 1,5 | 7 | 10,5 | 30 | 1.094.2520.50 |
| M32 x 1,5 | M16 x 1,5 | 8 | 12,5 | 41 | 1.094.3216.50 |
| M32 x 1,5 | M20 x 1,5 | 8 | 12,5 | 41 | 1.094.3220.50 |
| M32 x 1,5 | M25 x 1,5 | 8 | 12,5 | 41 | 1.094.3225.50 |
| M40 x 1,5 | M20 x 1,5 | 8 | 13 | 46 | 1.094.4020.50 |
| M40 x 1,5 | M25 x 1,5 | 8 | 13 | 46 | 1.094.4025.50 |
| M40 x 1,5 | M32 x 1,5 | 8 | 13 | 46 | 1.094.4032.50 |
| M50 x 1,5 | M25 x 1,5 | 9 | 15 | 55 | 1.094.5025.50 |
| M50 x 1,5 | M32 x 1,5 | 9 | 15 | 55 | 1.094.5032.50 |
| M50 x 1,5 | M40 x 1,5 | 9 | 15 | 55 | 1.094.5040.50 |
| M63 x 1,5 | M32 x 1,5 | 10 | 16,5 | 65 | 1.094.6332.50 |
| M63 x 1,5 | M40 x 1,5 | 10 | 16,5 | 65 | 1.094.6340.50 |
| M63 x 1,5 | M50 x 1,5 | 10 | 16,5 | 65 | 1.094.6350.50 |
| PG 9 | PG 7 | 6 | 8,8 | 17 | 1.094.0907.01 |
| PG 11 | PG 7 | 6 | 9 | 22 | 1.094.1107.01 |
| PG 11 | PG 9 | 6 | 9 | 22 | 1.094.1109.01 |
| PG 13,5 | PG 9 | 6,5 | 9,5 | 22 | 1.094.1309.01 |
| PG 13,5 | PG 11 | 6,5 | 9,5 | 22 | 1.094.1311.01 |
| PG 16 | PG 9 | 6,5 | 9,5 | 24 | 1.094.1609.01 |
| PG 16 | PG 11 | 6,5 | 9,5 | 24 | 1.094.1611.01 |
| PG 16 | PG 13,5 | 6,5 | 9,5 | 24 | 1.094.1613.01 |
| PG 21 | PG 11 | 7 | 10,3 | 30 | 1.094.2111.01 |
| PG 21 | PG 13,5 | 7 | 10,3 | 30 | 1.094.2113.01 |
| PG 21 | PG 16 | 7 | 10,3 | 30 | 1.094.2116.01 |
| PG 29 | PG 16 | 8 | 11,5 | 41 | 1.094.2916.01 |
| PG 29 | PG 21 | 8 | 11,5 | 41 | 1.094.2921.01 |
| PG 36 | PG 21 | 9 | 12,5 | 50 | 1.094.3621.01 |
| PG 36 | PG 29 | 9 | 12,5 | 50 | 1.094.3629.01 |
| PG 42 | PG 29 | 10 | 13,5 | 60 | 1.094.4229.01 |
| PG 42 | PG 36 | 10 | 13,5 | 60 | 1.094.4236.01 |
| PG 48 | PG 36 | 10 | 13,5 | 65 | 1.094.4836.01 |
| PG 48 | PG 42 | 10 | 13,5 | 65 | 1.094.4842.01 |





| | |
|---------------------------|--------------------------|
| Materiaal | INOX 1.4305 |
| Materiaal o-ring | NBR |
| Beschermingsklasse | IP 68 – 10 bar / IP 69 K |
| Temperatuurbereik | -20°C tot +95°C |

RoHS

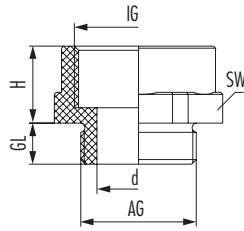
// Andere materialen voor O-ringen op aanvraag

| AG | IG | GL mm | H mm | SW mm | Item nr. |
|-----------|-----------|----------|---------|----------|---------------|
| M16 x 1,5 | M12 x 1,5 | 6 | 9 | 19 | 1.097.1612.50 |
| M20 x 1,5 | M12 x 1,5 | 6 | 9,5 | 22 | 1.097.2012.50 |
| M20 x 1,5 | M16 x 1,5 | 6 | 9,5 | 22 | 1.097.2016.50 |
| M25 x 1,5 | M16 x 1,5 | 7 | 10,5 | 30 | 1.097.2516.50 |
| M25 x 1,5 | M20 x 1,5 | 7 | 10,5 | 30 | 1.097.2520.50 |
| M32 x 1,5 | M16 x 1,5 | 8 | 12,5 | 41 | 1.097.3216.50 |
| M32 x 1,5 | M20 x 1,5 | 8 | 12,5 | 41 | 1.097.3220.50 |
| M32 x 1,5 | M25 x 1,5 | 8 | 12,5 | 41 | 1.097.3225.50 |
| M40 x 1,5 | M20 x 1,5 | 8 | 13 | 46 | 1.097.4020.50 |
| M40 x 1,5 | M25 x 1,5 | 8 | 13 | 46 | 1.097.4025.50 |
| M40 x 1,5 | M32 x 1,5 | 8 | 13 | 46 | 1.097.4032.50 |
| M50 x 1,5 | M25 x 1,5 | 9 | 15 | 55 | 1.097.5025.50 |
| M50 x 1,5 | M32 x 1,5 | 9 | 15 | 55 | 1.097.5032.50 |
| M50 x 1,5 | M40 x 1,5 | 9 | 15 | 55 | 1.097.5040.50 |
| M63 x 1,5 | M32 x 1,5 | 10 | 16,5 | 65 | 1.097.6332.50 |
| M63 x 1,5 | M40 x 1,5 | 10 | 16,5 | 65 | 1.097.6340.50 |
| M63 x 1,5 | M50 x 1,5 | 10 | 16,5 | 65 | 1.097.6350.50 |
| PG 9 | PG 7 | 6 | 8,8 | 17 | 1.097.0907.01 |
| PG 11 | PG 7 | 6 | 9 | 22 | 1.097.1107.01 |
| PG 11 | PG 9 | 6 | 9 | 22 | 1.097.1109.01 |
| PG 13,5 | PG 9 | 6,5 | 9,5 | 22 | 1.097.1309.01 |
| PG 13,5 | PG 11 | 6,5 | 9,5 | 22 | 1.097.1311.01 |
| PG 16 | PG 9 | 6,5 | 9,5 | 24 | 1.097.1609.01 |
| PG 16 | PG 11 | 6,5 | 9,5 | 24 | 1.097.1611.01 |
| PG 16 | PG 13,5 | 6,5 | 9,5 | 24 | 1.097.1613.01 |
| PG 21 | PG 11 | 7 | 10,3 | 30 | 1.097.2111.01 |
| PG 21 | PG 13,5 | 7 | 10,3 | 30 | 1.097.2113.01 |
| PG 21 | PG 16 | 7 | 10,3 | 30 | 1.097.2116.01 |
| PG 29 | PG 16 | 8 | 11,5 | 41 | 1.097.2916.01 |
| PG 29 | PG 21 | 8 | 11,5 | 41 | 1.097.2921.01 |
| PG 36 | PG 21 | 9 | 12,5 | 50 | 1.097.3621.01 |
| PG 36 | PG 29 | 9 | 12,5 | 50 | 1.097.3629.01 |
| PG 42 | PG 29 | 10 | 13,5 | 60 | 1.097.4229.01 |
| PG 42 | PG 36 | 10 | 13,5 | 60 | 1.097.4236.01 |
| PG 48 | PG 36 | 10 | 13,5 | 65 | 1.097.4836.01 |
| PG 48 | PG 42 | 10 | 13,5 | 65 | 1.097.4842.01 |



Toebehoren

Verloop (vergroten) E-M-PA type A (metrisch, PG)



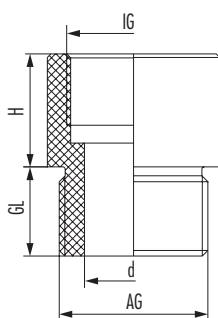
| | |
|--------------------------|-----------------|
| Materiaal | Polyamide |
| Temperatuurbereik | -20°C tot +80°C |
| Kleur | zwart |
| RAL | 9005 |

RoHS

// Voor verdere maten zie type C

| AG | IG | Type | d mm | GL mm | H mm | SW mm | Item nr. |
|-----------|-----------|------|---------|----------|---------|----------|---------------|
| M12 x 1,5 | PG 7 | A | 6,5 | 8 | 12 | 17 | 1.239.1207.50 |
| M12 x 1,5 | M16 x 1,5 | A | 6,5 | 8 | 12 | 21 | 1.239.1216.50 |
| M16 x 1,5 | M20 x 1,5 | A | 9 | 8 | 13 | 25 | 1.239.1620.50 |
| M20 x 1,5 | PG 13,5 | A | 14 | 8 | 13 | 25 | 1.239.2013.50 |
| M20 x 1,5 | M25 x 1,5 | A | 14 | 8 | 15 | 30 | 1.239.2025.50 |
| PG 9 | M16 x 1,5 | A | 9 | 8 | 12 | 21 | 1.239.0916.11 |
| PG 13,5 | M20 x 1,5 | A | 14 | 8 | 13 | 25 | 1.239.1320.11 |
| PG 16 | M25 x 1,5 | A | 16 | 8 | 15 | 30 | 1.239.1625.11 |
| PG 21 | M32 x 1,5 | A | 21 | 8 | 15 | 37 | 1.239.2132.11 |
| PG 29 | M40 x 1,5 | A | 30 | 10 | 17 | 45 | 1.239.2940.11 |

Verloop (vergroten) E-M-PA type C (metrisch, PG)



| | |
|--------------------------|-----------------|
| Materiaal | Polypropyleen |
| Temperatuurbereik | -20°C tot +80°C |
| Kleur | zwart |
| RAL | 9005 |

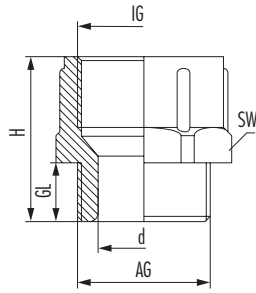
RoHS

// Voor verdere maten zie type A

| AG | IG | Type | d mm | GL mm | H mm | Item nr. |
|-----------|-----------|------|---------|----------|---------|---------------|
| M16 x 1,5 | PG 9 | C | 8,5 | 1 | 19 | 1.239.1609.50 |
| M25 x 1,5 | M32 x 1,5 | C | 16,5 | 15 | 15 | 1.239.2532.50 |
| M32 x 1,5 | M40 x 1,5 | C | 23 | 15 | 19,5 | 1.239.3240.50 |
| M40 x 1,5 | M50 x 1,5 | C | 30 | 15 | 19,5 | 1.239.4050.50 |
| M50 x 1,5 | M63 x 1,5 | C | 39 | 15 | 20 | 1.239.5063.50 |
| M63 x 1,5 | PG 48 | C | 51 | 15 | 20 | 1.239.6348.50 |
| PG 7 | M12 x 1,5 | C | 6 | 15 | 19 | 1.239.0712.11 |
| PG 11 | M20 x 1,5 | C | 11,5 | 15 | 19 | 1.239.1120.11 |
| PG 36 | M50 x 1,5 | C | 37 | 15 | 19,5 | 1.239.3650.11 |
| PG 42 | M50 x 1,5 | C | 43 | 15 | 19,5 | 1.239.4250.11 |
| PG 48 | M63 x 1,5 | C | 48 | 15 | 20 | 1.239.4863.11 |

Toebehoren

Verloop (vergroten) K-FS (PG)



| | |
|--------------------------|-----------------|
| Materiaal | Polyamide |
| Temperatuurbereik | -20°C tot +80°C |
| Kleur | grijs |
| RAL | 7035 |

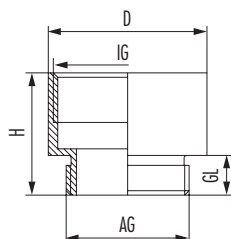
RoHS

| AG | IG | Type | d mm | GL mm | H mm | SW mm | Item nr. |
|---------|---------|------|---------|----------|---------|----------|---------------|
| PG 11 | PG 13,5 | B | 12,5 | 8 | 15 | 24 | 1.233.1113.11 |
| PG 13,5 | PG 16 | B | 15 | 9 | 16 | 27 | 1.233.1316.11 |
| PG 16 | PG 21 | B | 16 | 10 | 19 | 32 | 1.233.1621.11 |
| PG 21 | PG 29 | B | 22,5 | 11 | 21 | 42 | 1.233.2129.11 |

Materiaal

Vernikkeld messing

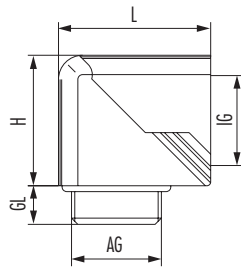
RoHS



| AG | IG | D mm | GL mm | H mm | Item nr. |
|-----------|-----------|---------|----------|---------|---------------|
| M12 x 1,5 | M16 x 1,5 | 18 | 5 | 15 | 1.033.1216.50 |
| M16 x 1,5 | M20 x 1,5 | 22 | 6 | 17,5 | 1.033.1620.50 |
| M20 x 1,5 | M25 x 1,5 | 27 | 6,5 | 19 | 1.033.2025.50 |
| M25 x 1,5 | M32 x 1,5 | 34 | 6,5 | 21 | 1.033.2532.50 |
| M32 x 1,5 | M40 x 1,5 | 42 | 7 | 23 | 1.033.3240.50 |
| M40 x 1,5 | M50 x 1,5 | 53 | 9 | 31 | 1.033.4050.50 |
| M50 x 1,5 | M63 x 1,5 | 66 | 9 | 31 | 1.033.5063.50 |
| PG 7 | PG 9 | 17 | 5 | 15 | 1.033.0709.01 |
| PG 9 | PG 11 | 20 | 6 | 16,5 | 1.033.0911.01 |
| PG 9 | PG 13,5 | 22 | 6 | 17,5 | 1.033.0913.01 |
| PG 11 | PG 13,5 | 22 | 6 | 17,5 | 1.033.1113.01 |
| PG 11 | PG 16 | 24 | 6 | 18,5 | 1.033.1116.01 |
| PG 11 | PG 21 | 30 | 6 | 20,5 | 1.033.1121.01 |
| PG 13,5 | PG 16 | 24 | 6,5 | 19 | 1.033.1316.01 |
| PG 13,5 | PG 21 | 30 | 6,5 | 21 | 1.033.1321.01 |
| PG 16 | PG 21 | 30 | 6,5 | 21 | 1.033.1621.01 |
| PG 16 | PG 29 | 39 | 6,5 | 22,5 | 1.033.1629.01 |
| PG 21 | PG 29 | 39 | 7 | 23 | 1.033.2129.01 |
| PG 29 | PG 36 | 50 | 8 | 27,5 | 1.033.2936.01 |
| PG 36 | PG 42 | 57 | 9 | 31 | 1.033.3642.01 |
| PG 42 | PG 48 | 64 | 10 | 33 | 1.033.4248.01 |

Toebehoren

Snapknie (metrisch, PG, NPT)

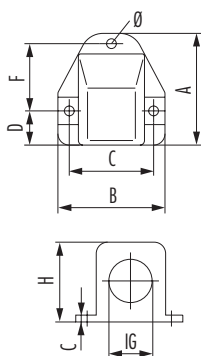


| | |
|--------------------|-----------------|
| Materiaal | Polyamide |
| Materiaal o-ring | NBR |
| Beschermingsklasse | IP 68 |
| Temperatuurbereik | -20°C tot +80°C |
| Kleur | grijs / zwart |
| RAL | 7035 / 9005 |

RoHS

| AG | IG | GL mm | H mm | L mm | Item nr. grijs | Item nr. zwart |
|-----------|-----------|----------|---------|---------|-------------------|-------------------|
| M16 x 1,5 | PG 9 | 8 | 23 | 28,5 | 1.315.1600.50 | 1.315.1601.50 |
| M16 x 1,5 | M16 x 1,5 | 8 | 23 | 28,5 | 1.316.1600.50 | 1.316.1601.50 |
| M20 x 1,5 | PG 13,5 | 9 | 30,5 | 35 | 1.315.2000.50 | 1.315.2001.50 |
| M20 x 1,5 | M20 x 1,5 | 9 | 30,5 | 35 | 1.316.2000.50 | 1.316.2001.50 |
| M25 x 1,5 | PG 21 | 11 | 40 | 49 | 1.315.2500.50 | 1.315.2501.50 |
| M25 x 1,5 | M25 x 1,5 | 11 | 40 | 49 | 1.316.2500.50 | 1.316.2501.50 |
| M32 x 1,5 | PG 29 | 11 | 51,5 | 60 | 1.315.3200.50 | 1.315.3201.50 |
| PG 9 | PG 9 | 8 | 23 | 28,5 | 1.315.0900.11 | 1.315.0901.11 |
| PG 9 | M16 x 1,5 | 8 | 23 | 28,5 | 1.316.0900.11 | 1.316.0901.11 |
| PG 11 | PG 11 | 8 | 27 | 31,5 | 1.315.1100.11 | 1.315.1101.11 |
| PG 13,5 | PG 13,5 | 9 | 30,5 | 35 | 1.315.1300.11 | 1.315.1301.11 |
| PG 13,5 | M20 x 1,5 | 9 | 30,5 | 35 | 1.316.1300.11 | 1.316.1301.11 |
| PG 16 | PG 16 | 10 | 32,5 | 37,5 | 1.315.1600.11 | 1.315.1601.11 |
| PG 21 | PG 21 | 11 | 40 | 49 | 1.315.2100.11 | 1.315.2101.11 |
| PG 21 | M25 x 1,5 | 11 | 40 | 49 | 1.316.2100.11 | 1.316.2101.11 |
| PG 29 | PG 29 | 11 | 51,5 | 60 | 1.315.2900.11 | 1.315.2901.11 |
| NPT 3/8" | PG 9 | 15 | 23 | 28,5 | 1.315.3800.70 | 1.315.3801.70 |
| NPT 1/2" | PG 13,5 | 13 | 30,5 | 35 | 1.315.1200.70 | 1.315.1201.70 |
| NPT 3/4" | PG 21 | 13 | 40 | 49 | 1.315.3400.70 | 1.315.3401.70 |
| NPT 1" | PG 29 | 19 | 51,5 | 60 | 1.315.1000.70 | 1.315.1001.70 |

Opklapbare snapknie KF-G type A (metrisch, PG)



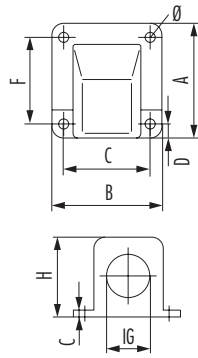
| | |
|---------------------|------------------|
| Materiaal | Polyamide |
| Materiaal dichtring | NBR |
| Beschermingsklasse | IP 65 |
| Temperatuurbereik | -40°C tot +110°C |
| Kleur | grijs / zwart |
| RAL | 7011 / 9005 |

RoHS

// Voor verdere maten zie type B

| IG | Type | Ø mm | A mm | B mm | C mm | D mm | F mm | H mm | Item nr. grijs | Item nr. zwart |
|-----------|------|---------|---------|---------|---------|---------|---------|---------|-------------------|-------------------|
| M16 x 1,5 | A | 4,3 | 49 | 47 | 37 | 15,5 | 29,5 | 29,5 | 1.312.1600.50 | 1.312.1601.50 |
| M20 x 1,5 | A | 4,5 | 49 | 47 | 37 | 15,5 | 29,5 | 35 | 1.312.2000.50 | 1.312.2001.50 |
| M25 x 1,5 | A | 6 | 69 | 65 | 51,5 | 21,5 | 42 | 44 | 1.312.2500.50 | 1.312.2501.50 |
| PG 11 | A | 4,3 | 49 | 47 | 37 | 15,5 | 29,5 | 35 | 1.312.1100.11 | 1.312.1101.11 |
| PG 16 | A | 4,3 | 49 | 47 | 37 | 15,5 | 29,5 | 35 | 1.312.1600.11 | 1.312.1601.11 |
| PG 21 | A | 6 | 69 | 65 | 51,5 | 21,5 | 42 | 44 | 1.312.2100.11 | 1.312.2101.11 |

Opklapbare snapknie KF-G type B (metrisch, PG)

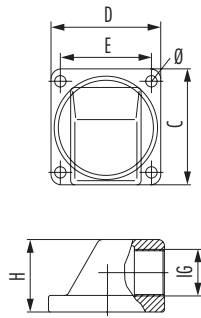


| | |
|----------------------------|------------------|
| Materiaal | Polyamide |
| Materiaal dichtring | NBR |
| Beschermingsklasse | IP 65 |
| Temperatuurbereik | -40°C tot +110°C |
| Kleur | zwart/grijs |
| RAL | 9005/7011 |

RoHS

// Voor verdere maten zie type A

| IG | Type | Ø mm | A mm | B mm | C mm | D mm | F mm | H mm | Item nr. grijs | Item nr. zwart |
|-----------|------|---------|---------|---------|---------|---------|---------|---------|-------------------|-------------------|
| M32 x 1,5 | B | 6,5 | 90 | 78 | 64,5 | 9,5 | 64,5 | 55 | 1.312.3200.50 | 1.312.3201.50 |
| M40 x 1,5 | B | 6,5 | 99 | 94 | 79,5 | 10,5 | 79,5 | 66 | 1.312.4000.50 | 1.312.4001.50 |
| M50 x 1,5 | B | 6,5 | 116 | 101 | 87,5 | 12,5 | 87,5 | 76 | 1.312.5000.50 | 1.312.5001.50 |
| PG 29 | B | 6,5 | 90 | 78 | 64,5 | 9,5 | 64,5 | 55 | 1.312.2900.11 | 1.312.2901.11 |
| PG 36 | B | 6,5 | 99 | 94 | 79,5 | 10,5 | 79,5 | 66 | 1.312.3600.11 | 1.312.3601.11 |
| PG 48 | B | 6,5 | 116 | 101 | 87,5 | 12,5 | 87,5 | 76 | 1.312.4800.11 | 1.312.4801.11 |



| | |
|--------------------|-----------------|
| Materiaal | Polycarbonaat |
| Materiaal o-ring | NBR |
| Beschermingsklasse | IP 65 |
| Temperatuurbereik | -20°C tot +80°C |
| Kleur | grijs |
| RAL | 7035 |

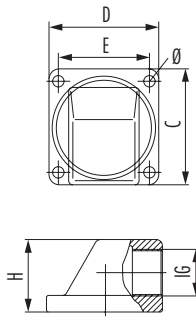
RoHS

// Metrische uitvoering op aanvraag

| IG | Ø mm | C mm | D mm | E mm | H mm | Item nr. |
|---------|---------|---------|---------|---------|---------|---------------|
| PG 9 | 4,3 | 50 | 45 | 37 | 29 | 1.306.0900.14 |
| PG 11 | 4,3 | 50 | 45 | 37 | 29 | 1.306.1100.14 |
| PG 13,5 | 5,5 | 56 | 53 | 44 | 35 | 1.306.1300.14 |
| PG 16 | 5,5 | 56 | 53 | 44 | 35 | 1.306.1600.14 |
| PG 21 | 5,5 | 68 | 68 | 55,5 | 43 | 1.306.2100.14 |
| PG 29 | 5,5 | 74 | 70 | 60 | 52 | 1.306.2900.14 |
| PG 36 | 6,5 | 93 | 88 | 72 | 68 | 1.306.3600.14 |

Toebehoren

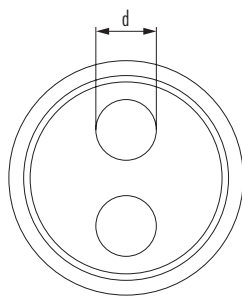
Voetstuk FW-ZN (metrisch, PG)



| | |
|--------------------|------------------|
| Materiaal | Zink drukgegoten |
| Materiaal o-ring | NBR |
| Beschermingsklasse | IP 65 |
| Temperatuurbereik | -20°C tot +95°C |

RoHS

| IG | Ø mm | H mm | C mm | D mm | E mm | Item nr. |
|-----------|---------|---------|---------|---------|---------|---------------|
| M20 x 1,5 | 5,5 | 35 | 56 | 53 | 44 | 1.306.2000.50 |
| M25 x 1,5 | 5,5 | 42 | 65 | 63 | 54 | 1.306.2500.50 |
| M32 x 1,5 | 5,5 | 52 | 75 | 71 | 60 | 1.306.3200.50 |
| M50 x 1,5 | 6,5 | 69 | 93 | 89 | 72 | 1.306.5000.50 |
| M63 x 1,5 | 6,5 | 74 | 114 | 96 | 84 | 1.306.6300.50 |
| PG 9 | 4,3 | 30 | 50 | 45 | 37 | 1.306.0900.05 |
| PG 11 | 4,3 | 30 | 50 | 45 | 37 | 1.306.1100.05 |
| PG 13,5 | 5,5 | 35 | 56 | 53 | 44 | 1.306.1300.05 |
| PG 16 | 5,5 | 35 | 56 | 53 | 44 | 1.306.1600.05 |
| PG 21 | 5,5 | 42 | 65 | 63 | 54 | 1.306.2100.05 |
| PG 29 | 5,5 | 52 | 74 | 70 | 60 | 1.306.2900.05 |
| PG 36 | 6,5 | 69 | 94 | 89 | 72 | 1.306.3600.05 |
| PG 42 | 6,5 | 74 | 114 | 96 | 84 | 1.306.4200.05 |
| PG 48 | 6,5 | 74 | 114 | 96 | 84 | 1.306.4800.05 |

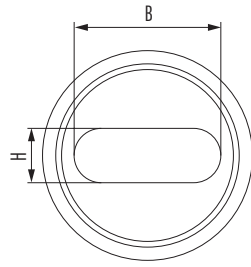


| | |
|--------------------------|------------------|
| Materiaal | Elastomeer |
| Temperatuurbereik | -40°C tot +100°C |

RoHS

- // Deze inserts zijn voorbeelden, verdere inserts op aanvraag
- // De inzetstukken zijn uitsluitend geschikt voor montage in kabelwartels van de HSK-serie
- // *Gespleten variant voor het invoeren van vooraf geconfectioneerde kabels en leidingen

| Geschikt voor AG | Geschikt voor AG2 | Geschikt voor AG3 | Aantal boringen x d | Item nr. | Aantal boringen x d | Item nr. | Aantal boringen x d | Item nr. |
|-------------------------------|-------------------|-------------------|---------------------|---------------|---------------------|---------------|---------------------|---------------|
| PG 7 / KR PG 10 | M12 x 1,5 | | - | 1.089.0799.19 | | | | |
| PG 7 / KR PG 9 | M12 x 1,5 | | 7 x 1,5* | 1.089.0712.19 | | | | |
| PG 9 / KE PG 7 / KR PG 11 | M16 x 1,5 | NPT 3/8" | 2 x 2* | 1.089.0916.19 | 4 x 2,3 | 1.089.0908.19 | 10 x 1,4 | 1.089.0904.19 |
| PG 9 / KE PG 7 / KR PG 11 | M16 x 1,5 | NPT 3/8" | - | 1.089.0999.19 | 2 x 3 | 1.089.0901.19 | 4 x 1,4 | 1.089.0900.19 |
| PG 9 / KE PG 7 / KR PG 11 | M16 x 1,5 | NPT 3/8" | 5 x 1,6 | 1.089.0902.19 | | | | |
| PG 11 / KE PG 9 / KR PG 13,5 | M16 x 1,5 / 11 | | 2 x 3 | 1.089.1100.19 | - | 1.089.1199.19 | 2 x 4 | 1.089.1102.19 |
| PG 11 / KE PG 9 / KR PG 13,5 | M16 x 1,5 / 11 | | 3 x 3 | 1.089.1101.19 | 3 x 1,5 | 1.089.1103.19 | | |
| PG 13,5 / KE PG 11 / KR PG 16 | M20 x 1,5 | NPT 1/2" | 1 x 5* | 1.089.1312.19 | - | 1.089.1399.19 | 2 x 5 | 1.089.1303.19 |
| PG 13,5 / KE PG 11 / KR PG 16 | M20 x 1,5 | NPT 1/2" | 3 x 3 | 1.089.1304.19 | 3 x 4 | 1.089.1302.19 | 3 x 2 | 1.089.1300.19 |
| PG 13,5 / KE PG 11 / KR PG 16 | M20 x 1,5 | NPT 1/2" | 6 x 3 | 1.089.1301.19 | | | | |
| PG 16 / KE PG 13,5 / KR PG 21 | M20 x 1,5 / 16 | NPT 1/2" / 16 | 2 x 4,5 | 1.089.1614.19 | 3 x 4 | 1.089.1601.19 | - | 1.089.1699.19 |
| PG 16 / KE PG 13,5 / KR PG 21 | M20 x 1,5 / 16 | NPT 1/2" / 16 | 2 x 6 | 1.089.1605.19 | 4 x 5 | 1.089.1611.19 | 4 x 4 | 1.089.1602.19 |
| PG 16 / KE PG 13,5 / KR PG 21 | M20 x 1,5 / 16 | NPT 1/2" / 16 | 5 x 4 | 1.089.1603.19 | 6 x 4 | 1.089.1604.19 | 6 x 3 | 1.089.1607.19 |
| PG 21 / KE PG 16 | M25 x 1,5 | NPT 3/4" | 1 x 5,8* | 1.089.2113.19 | 2 x 8 | 1.089.2102.19 | 3 x 5,2 | 1.089.2106.19 |
| PG 21 / KE PG 16 | M25 x 1,5 | NPT 3/4" | 3 x 7 | 1.089.2101.19 | - | 1.089.2199.19 | 4 x 5 | 1.089.2103.19 |
| PG 21 / KE PG 16 | M25 x 1,5 | NPT 3/4" | 4 x 6 | 1.089.2100.19 | | | | |
| PG 29 | M32 x 1,5 | NPT 1 1/4" | 2 x 6 | 1.089.2905.19 | - | 1.089.2999.19 | 4 x 9 | 1.089.2901.19 |
| PG 29 | M32 x 1,5 | NPT 1 1/4" | 6 x 6,5 | 1.089.2900.19 | | | | |
| PG 36 | M40 x 1,5 | NPT 1 1/2" | 2 x 15 | 1.089.3603.19 | 5 x 9 | 1.089.3600.19 | 6 x 8 | 1.089.3602.19 |
| PG 36 | M40 x 1,5 | NPT 1 1/2" | 7 x 9 | 1.089.3601.19 | - | 1.089.3699.19 | | |
| PG 42 | M50 x 1,5 | | - | 1.089.4299.19 | 2 x 17 | 1.089.4205.19 | 3 x 14* | 1.089.4203.19 |
| PG 48 | M63 x 1,5 | | 8 x 10 | 1.089.4800.19 | | | | |
| PG 49 | M63 x 1,5 | | 6 x 12 | 1.089.4801.19 | | | | |
| PG 50 | M63 x 1,5 | | - | 1.089.4899.19 | | | | |



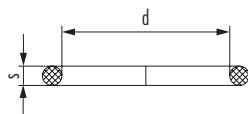
Materiaal Elastomeer

Temperatuurbereik -40°C tot +100°C

RoHS

- // Deze inserts zijn voorbeelden, verdere inserts op aanvraag
- // De inzetstukken zijn uitsluitend geschikt voor montage in kabelwartels van de HSK-serie

| Geschikt voor AG | Geschikt voor AG2 | Geschikt voor AG3 | B x H mm | Item nr. | B x H mm | Item nr. | B x H mm | Item nr. |
|-------------------------------|-------------------|-------------------|-------------|---------------|-------------|---------------|-------------|---------------|
| PG 13,5 | M20 x 1,5 | NPT 1/2" | 10,4 x 4,2 | 1.091.1300.19 | | | | |
| PG 16 / KE PG 13,5 / KR PG 21 | M20 x 1,5 / 16 | NPT 1/2" / 16 | 11,5 x 5 | 1.091.1601.19 | 12 x 7 | 1.091.1602.19 | 14 x 6 | 1.091.1600.19 |
| PG 21 / KE PG 16 | M25 x 1,5 | NPT 3/4" | 14 x 6 | 1.091.2100.19 | 14 x 7 | 1.091.2101.19 | | |
| PG 29 | M32 x 1,5 | NPT 1 1/4" | 22 x 8 | 1.091.2900.19 | | | | |
| PG 36 | M40 x 1,5 | NPT 1 1/2" | 28,5 x 10 | 1.091.3600.19 | 29 x 5,5 | 1.091.3601.19 | | |
| PG 42 | M50 x 1,5 | | 33,5 x 11,5 | 1.091.4200.19 | | | | |
| PG 48 | M63 x 1,5 | | 38 x 12 | 1.091.4800.19 | | | | |

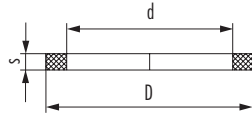
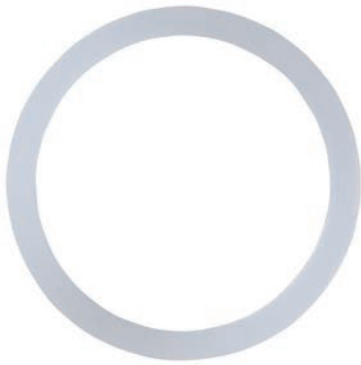


| | |
|--------------------------|---|
| Materiaal | NBR /FKM /VMQ (Silicone) |
| Temperatuurbereik | -30°C tot +100°C / -20°C tot +200°C / -60°C tot +200°C |

RoHS

| Geschikt voor AG | d mm | s mm | Item nr. NBR | Item nr. FKM | Item nr. VMQ (Silicone) |
|------------------|---------|---------|-----------------|-----------------|----------------------------|
| M12 x 1,5 | 10 | 1,5 | 1.321.1200.57 | 1.321.1200.58 | 1.321.1200.59 |
| M16 x 1,5 | 12 | 1,5 | 1.321.1600.57 | 1.321.1600.58 | 1.321.1600.59 |
| M20 x 1,5 | 17 | 1,8 | 1.321.2000.57 | 1.321.2000.58 | 1.321.2000.59 |
| M25 x 1,5 | 22 | 2 | 1.321.2500.57 | 1.321.2500.58 | 1.321.2500.59 |
| M32 x 1,5 | 29 | 2 | 1.321.3200.57 | 1.321.3200.58 | 1.321.3200.59 |
| M40 x 1,5 | 35 | 2 | 1.321.4000.57 | 1.321.4000.58 | 1.321.4000.59 |
| M50 x 1,5 | 43 | 2 | 1.321.5000.57 | 1.321.5000.58 | 1.321.5000.59 |
| M63 x 1,5 | 55 | 2 | 1.321.6300.57 | 1.321.6300.58 | 1.321.6300.59 |
| PG 7 | 10 | 1,5 | 1.321.0700.17 | 1.321.0700.21 | 1.321.0700.22 |
| PG 9 | 12 | 1,5 | 1.321.0900.17 | 1.321.0900.21 | 1.321.0900.22 |
| PG 11 | 16 | 1,5 | 1.321.1100.17 | 1.321.1100.21 | 1.321.1100.22 |
| PG 13,5 | 17 | 1,8 | 1.321.1300.17 | 1.321.1300.21 | 1.321.1300.22 |
| PG 16 | 18 | 1,5 | 1.321.1600.17 | 1.321.1600.21 | 1.321.1600.22 |
| PG 21 | 26 | 2 | 1.321.2100.17 | 1.321.2100.21 | 1.321.2100.22 |
| PG 29 | 33 | 2 | 1.321.2900.17 | 1.321.2900.21 | 1.321.2900.22 |
| PG 36 | 43 | 2 | 1.321.3600.17 | 1.321.3600.21 | 1.321.3600.22 |
| PG 42 | 50 | 2 | 1.321.4200.17 | 1.321.4200.21 | 1.321.4200.22 |
| PG 48 | 55 | 2 | 1.321.4800.17 | 1.321.4800.21 | 1.321.4800.22 |
| NPT 3/8" | 13 | 2 | 1.321.3800.77 | 1.321.3800.78 | 1.321.3800.79 |
| NPT 1/2" | 19 | 1,8 | 1.321.1200.77 | 1.321.1200.78 | 1.321.1200.79 |
| NPT 3/4" | 25 | 2 | | | 1.321.3400.79 |
| NPT 3/4" | 25 | 2,5 | 1.321.3400.77 | 1.321.3400.78 | |
| NPT 1" | 29 | 2 | | | 1.321.1000.79 |
| NPT 1" | 30 | 2,5 | 1.321.1000.77 | 1.321.1000.78 | |
| NPT 1 1/4" | 38 | 2,5 | 1.321.5400.77 | 1.321.5400.78 | 1.321.5400.79 |
| NPT 1 1/2" | 45 | 2,5 | 1.321.6400.77 | 1.321.6400.78 | 1.321.6400.79 |

Dichtringen gemaakt van polyethyleen



| | |
|-------------------|-----------------|
| Materiaal | Polyethyleen |
| Temperatuurbereik | -30°C tot +70°C |

RoHS

| Geschikt voor AG | d mm | D mm | s mm | Item nr. |
|------------------|---------|---------|---------|---------------|
| M12 x 1,5 | 12 | 16 | 2 | 1.325.1200.59 |
| M16 x 1,5 | 16 | 20 | 2 | 1.325.1600.59 |
| M20 x 1,5 | 20 | 25 | 2 | 1.325.2000.59 |
| M25 x 1,5 | 25 | 31 | 2 | 1.325.2500.59 |
| M32 x 1,5 | 32 | 38 | 2 | 1.325.3200.59 |
| M40 x 1,5 | 40 | 52,7 | 2 | 1.325.4000.59 |
| M50 x 1,5 | 50 | 58 | 2 | 1.325.5000.59 |
| M63 x 1,5 | 63 | 72 | 2 | 1.325.6300.59 |
| PG 7 | 12,5 | 16,5 | 2 | 1.325.0700.19 |
| PG 9 | 15,2 | 19 | 2 | 1.325.0900.19 |
| PG 11 | 18,6 | 22,5 | 2 | 1.325.1100.19 |
| PG 13,5 | 20,4 | 25 | 2 | 1.325.1300.19 |
| PG 16 | 22,5 | 27 | 2 | 1.325.1600.19 |
| PG 21 | 28,3 | 33,5 | 2 | 1.325.2100.19 |
| PG 29 | 37 | 43,5 | 2 | 1.325.2900.19 |
| PG 36 | 47 | 55 | 2 | 1.325.3600.19 |
| PG 42 | 54 | 63 | 2 | 1.325.4200.19 |
| PG 48 | 59,3 | 69 | 2 | 1.325.4800.19 |

Dichtringen gemaakt van vezelcomposietmateriaal



| | |
|-------------------|------------------|
| Materiaal | Vezelcomposiet |
| Temperatuurbereik | -50°C tot +250°C |

RoHS

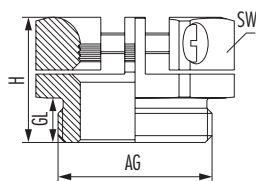
| Geschikt voor AG | d mm | D mm | s mm | Item nr. |
|------------------|---------|---------|---------|---------------|
| M12 x 1,5 | 12 | 16 | 2 | 1.325.1200.50 |
| M16 x 1,5 | 16 | 20 | 2 | 1.325.1600.50 |
| M20 x 1,5 | 20 | 25 | 2 | 1.325.2000.50 |
| M25 x 1,5 | 25 | 31 | 2 | 1.325.2500.50 |
| M32 x 1,5 | 32 | 38 | 2 | 1.325.3200.50 |
| M40 x 1,5 | 40 | 48 | 2 | 1.325.4000.50 |
| M50 x 1,5 | 50 | 58 | 2 | 1.325.5000.50 |
| M63 x 1,5 | 63 | 72 | 2 | 1.325.6300.50 |
| PG 7 | 12,5 | 16,5 | 1,5 | 1.325.0700.20 |
| PG 9 | 15,2 | 19 | 1,5 | 1.325.0900.20 |
| PG 11 | 18,6 | 22,5 | 1,5 | 1.325.1100.20 |
| PG 13,5 | 20,4 | 25 | 1,5 | 1.325.1300.20 |
| PG 16 | 22,5 | 27 | 1,5 | 1.325.1600.20 |
| PG 21 | 28,3 | 33,5 | 2 | 1.325.2100.20 |
| PG 29 | 37 | 43,5 | 2 | 1.325.2900.20 |
| PG 36 | 47 | 55 | 2 | 1.325.3600.20 |
| PG 42 | 54 | 63 | 2 | 1.325.4200.20 |
| PG 48 | 59,3 | 69 | 2 | 1.325.4800.20 |

Trektesting KLE metrisch (metrisch, PG)

Materiaal

Vernikkeld messing

RoHS

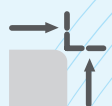


| AG | ∅k mm | GL mm | H mm | SW mm | Item nr. |
|-----------|-----------|----------|---------|----------|---------------|
| M12 x 1,5 | 5 – 7,5 | 5,5 | 15 | 16 | 1.143.1200.50 |
| M16 x 1,5 | 7 – 10 | 6 | 16 | 19 | 1.143.1600.50 |
| M20 x 1,5 | 10 – 14 | 6,5 | 18 | 24 | 1.143.2000.50 |
| M25 x 1,5 | 12 – 21,5 | 8 | 21 | 34 | 1.143.2500.50 |
| M32 x 1,5 | 16 – 27 | 8 | 22 | 42 | 1.143.3200.50 |
| M40 x 1,5 | 22 – 33 | 9,5 | 25,5 | 52 | 1.143.4000.50 |
| PG 7 | 5,5 – 8 | 5,5 | 14,8 | 16 | 1.143.0700.01 |
| PG 9 | 6,5 – 10 | 6 | 16,6 | 19 | 1.143.0900.01 |
| PG 11 | 7,5 – 12 | 6 | 17,3 | 22 | 1.143.1100.01 |
| PG 13,5 | 8,5 – 14 | 6,5 | 17,8 | 24 | 1.143.1300.01 |
| PG 16 | 8,5 – 16 | 6,5 | 18,3 | 26 | 1.143.1600.01 |
| PG 21 | 12 – 21 | 7,5 | 20,8 | 33 | 1.143.2100.01 |
| PG 29 | 19 – 30 | 8 | 21,8 | 42 | 1.143.2900.01 |
| PG 36 | 25 – 37 | 9,5 | 25,3 | 52 | 1.143.3600.01 |
| PG 42 | 31 – 43 | 10 | 26,3 | 59 | 1.143.4200.01 |
| PG 48 | 35 – 48 | 11 | 27,3 | 64 | 1.143.4800.01 |

PRODUCTIE

Competentie, kennis en decennialange ervaring zijn de ingrediënten voor het succes. HUMMEL houdt zich al meer dan 70 jaren bezig met de bewerking en verwerking van metaal. Tot het machinepark horen draai-, frees-, en gegotenzink-machines van de nieuwste generatie. Tijdens de galvanische processen krijgen de producten een professionele oppervlaktebehandeling. De eigen gereedschaps- en matrijzenbouw levert het gereedschap voor de interne spuitgieterij en de gietstukken.

Producten van HUMMEL worden intern in automatische en halfautomatische montage gereedgemaakt.



EIGEN ONTWIKKELING EN CAD-AFDELING



OPPERVLAKTEBEHANDELING, VEREDELING



BOUW VAN PROTOTYPEN



MODERN MACHINEPARK



ERVAREN PROJECT- EN PROCESMANAGEMENT



MONTAGE



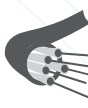
KWALITEITSMANAGEMENT MET CERTIFICERINGEN



EIGEN TESTLABORATORIUM



METAALBEWERKING



EIGEN KABELCONFECTIE



KUNSTSTOFBEWERKING



OPSLAGMANAGEMENT EN LOGISTIEK
MANAGEMENT



EX-KABELWARTELS

HUMMEL biedt een breed assortiment kabelwartels voor explosiegevaarlijke omgevingen, zoals kabelwartels voor de beschermingswijzen Ex d en Ex e. Voor omgevingen waarin „Extra veiligheid“ (Ex e) is voorgeschreven, biedt HUMMEL kabelwartels van kunststof en metaal, ook met inzetstukken voor multikabels of platte kabels. Kabelwartels voor de beschermingswijze Ex d voldoen aan de eisen die aan een „drukvraste behuizing“ worden gesteld. Dit voorkomt dat een explosie in de behuizing naar buiten wordt overgedragen.

- // HSK-K-Ex-Active, de kabelwartels van kunststof voor de Ex-omgeving
- // Ex e-kabelwartels van metaal met verschillende inzetstukken
- // Ex d-kabelwartels van metaal voor drukvraste behuizing

HUMMEL heeft een jarenlange ervaring in componenten voor explosiegevaarlijke omgevingen. Daarom bieden wij een geperfectioneerd assortiment Ex-producten in diverse materialen en uitvoeringen.



De polyamide kabelwartel voor de Ex-omgeving

De kabelwartel van speciaal geformuleerd, glasvezelversterkt polyamide is ontworpen voor gebruik bij elektrische apparatuur met beschermingswijzen Ex e en Ex t. De wartel is ontwikkeld volgens de normenreeks DIN EN IEC 60079-0, 60079-7 en 60079-31 en voldoet aan de actuele toelatingen volgens ATEX en IECEx.

- // Halogeenvrij
- // Beschermingsklasse IP 68 tot 10 bar
- // Lostrilbeveiliging van de wartelmoer
- // Temperatuurbereik van -20°C tot +85°C
- // Slijtvast opschrift
- // Voor zones 1-2 en zones 20-22

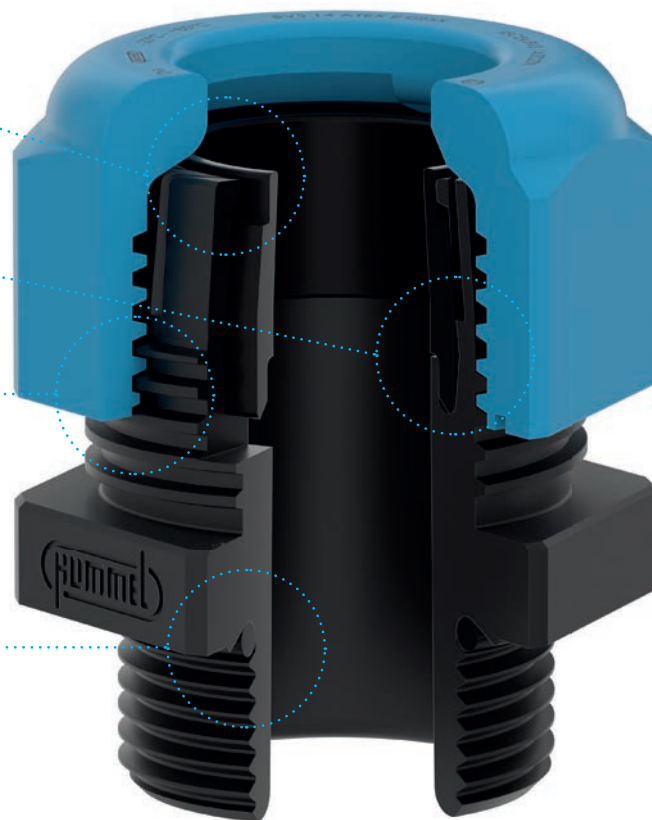
HSK-K-Ex-Active

Overlappende klemlamellen garanderen een hoge trekantasting van de kabel

In het binnenhuis geplaatste vormafdichting dicht de kabel betrouwbaar af

HUMMEL-trapezium schroefdraad waarborgt een stabiele krachtoverbrenging

In de kamer geplaatste O-Ring dicht wartel betrouwbaar met de behuizing af



Veilige explosiebeveiliging

Niet elke explosiebeveiliging is hetzelfde. Er zijn verschillende scenario's en toepassingsgebieden die verschillende explosiebeveiliging vereisen. Ex-kabelwartels van HUMMEL bieden bescherming in de meest uiteenlopende omgevingen.

Ex e verhoogde veiligheid: De kabelwartel voorkomt het ontstaan van vonken en vlambogen in of op externe onderdelen van elektrische apparatuur die niet optreden tijdens normaal gebruik.

Ex d drukvaste inkapseling: Onderdelen die een explosieve atmosfeer kunnen ontsteken zijn stevig ingesloten in een behuizing. De behuizing is bestand tegen de druk van een explosie en voorkomt overdracht naar buiten.

Ex ta bescherming tegen stof: De kabelwartel beschermt de behuizing tegen het binnendringen van stof volgens EN IEC 60529

HSK-M-Ex d

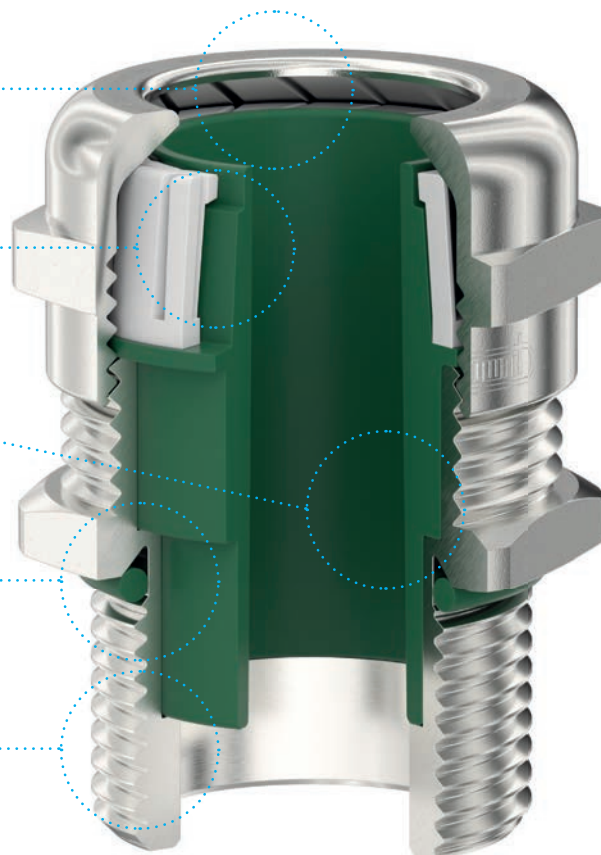
Overlappende klemlamellen beschermen de vormafdichting

In de kamer geplaatste O-Ring voor optimale afdichting

Extra lang, Ex d-conform aansluitschroefdraad

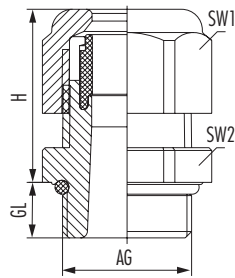
Slijtvast opschrift

Gegoten afdichting: randloze binnencontour garandeert een drukvaste inkapseling



Ex-Kabelwartels

HSK-K-Ex-Active (metrisch/lang)



| | |
|----------------------|---|
| Materiaal | Polyamide, glasvezelversterkt |
| Materiaal dichtring | NBR |
| Materiaal o-ring | NBR |
| Beschermingsklasse | IP 68 – 10 bar |
| Ex-beschermingsgraad | II 2G Ex eb IIC Gb / II 1D Ex ta IIIC Da / Class I Div 2 Groups A,B,C,D / Class II Div 1 Groups E,F,G |
| Temperatuurbereik | -20°C tot +85°C |
| Kleur | zwart / blauw-zwart |
| RAL | 9005 / 5012 |

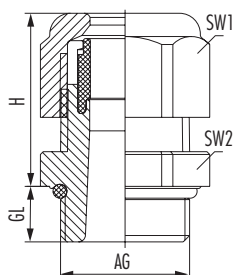
RoHS

| AG | ∅k mm | H mm | SW1/SW2 mm | ⊕ Nm | GL mm | Item nr. zwart kort | Item nr. blauw-zwart kort | GL mm | Item nr. zwart lang | Item nr. blauw-zwart lang |
|-----------|----------|---------|---------------|---------|----------|---------------------------|---------------------------------|----------|---------------------------|---------------------------------|
| M12 x 1,5 | 2-5 | 21 | 15/15 | 2 | 8 | 1.292.1201.51 | 1.292.1202.51 | 15 | 1.292.1201.31 | 1.292.1202.31 |
| M12 x 1,5 | 3-6,5 | 21 | 15/15 | 1,5 | 8 | 1.292.1201.50 | 1.292.1202.50 | 15 | 1.292.1201.30 | 1.292.1202.30 |
| M16 x 1,5 | 3-6 | 22 | 19/19 | 2 | 8 | 1.292.1601.51 | 1.292.1602.51 | 15 | 1.292.1601.31 | 1.292.1602.31 |
| M16 x 1,5 | 3-7 | 25 | 22/22 | 3 | 8 | 1.292.1611.51 | 1.292.1612.51 | 15 | 1.292.1611.31 | 1.292.1612.31 |
| M16 x 1,5 | 4-8 | 22 | 19/19 | 2 | 8 | 1.292.1601.50 | 1.292.1602.50 | 15 | 1.292.1601.30 | 1.292.1602.30 |
| M16 x 1,5 | 5-10 | 25 | 22/22 | 3 | 8 | 1.292.1611.50 | 1.292.1612.50 | 15 | 1.292.1611.30 | 1.292.1612.30 |
| M20 x 1,5 | 5-9 | 27 | 24/24 | 4,5 | 9 | 1.292.2001.51 | 1.292.2002.51 | 15 | 1.292.2001.31 | 1.292.2002.31 |
| M20 x 1,5 | 6-12 | 27 | 24/24 | 4,5 | 9 | 1.292.2001.50 | 1.292.2002.50 | 15 | 1.292.2001.30 | 1.292.2002.30 |
| M20 x 1,5 | 7-12 | 28 | 27/27 | 4,5 | 9 | 1.292.2016.51 | 1.292.2017.51 | 15 | 1.292.2016.31 | 1.292.2017.31 |
| M20 x 1,5 | 10-14 | 28 | 27/27 | 4,5 | 9 | 1.292.2016.50 | 1.292.2017.50 | 15 | 1.292.2016.30 | 1.292.2017.30 |
| M25 x 1,5 | 9-16 | 31 | 33/33 | 5 | 11 | 1.292.2501.51 | 1.292.2502.51 | 15 | 1.292.2501.31 | 1.292.2502.31 |
| M25 x 1,5 | 13-18 | 31 | 33/33 | 5 | 11 | 1.292.2501.50 | 1.292.2502.50 | 15 | 1.292.2501.30 | 1.292.2502.30 |
| M32 x 1,5 | 13-20 | 39 | 42/42 | 6,5 | 11 | 1.292.3201.51 | 1.292.3202.51 | 15 | 1.292.3201.31 | 1.292.3202.31 |
| M32 x 1,5 | 18-25 | 39 | 42/42 | 6,5 | 11 | 1.292.3201.50 | 1.292.3202.50 | 15 | 1.292.3201.30 | 1.292.3202.30 |
| M40 x 1,5 | 20-26 | 48 | 53/53 | 10 | 13 | 1.292.4001.51 | 1.292.4002.51 | 18 | 1.292.4001.31 | 1.292.4002.31 |
| M40 x 1,5 | 22-32 | 48 | 53/53 | 10 | 13 | 1.292.4001.50 | 1.292.4002.50 | 18 | 1.292.4001.30 | 1.292.4002.30 |
| M50 x 1,5 | 25-31 | 49 | 60/60 | 15 | 13 | 1.292.5001.51 | 1.292.5002.51 | 18 | 1.292.5001.31 | 1.292.5002.31 |
| M50 x 1,5 | 32-38 | 49 | 60/60 | 15 | 13 | 1.292.5001.50 | 1.292.5002.50 | 18 | 1.292.5001.30 | 1.292.5002.30 |
| M63 x 1,5 | 29-35 | 49 | 65/68 | 22 | 14 | 1.292.6301.51 | 1.292.6302.51 | 18 | 1.292.6301.31 | 1.292.6302.31 |
| M63 x 1,5 | 37-44 | 49 | 65/68 | 22 | 14 | 1.292.6301.50 | 1.292.6302.50 | 18 | 1.292.6301.30 | 1.292.6302.30 |



naar de montage-instructie





| | | |
|----------------------|---|------|
| Materiaal | Polyamide, glasvezelversterkt | RoHS |
| Materiaal dichtring | NBR | |
| Materiaal o-ring | NBR | |
| Beschermingsklasse | IP 68 – 10 bar | |
| Ex-beschermingsgraad | II 2G Ex eb IIC Gb / II 1D Ex ta IIIC Da / Class I Div 2 Groups A,B,C,D / Class II Div 1 Groups E,F,G | |
| Temperatuurbereik | -20°C tot +85°C | |
| Kleur | zwart / blauw-zwart | |
| RAL | 9005 / 5012 | |

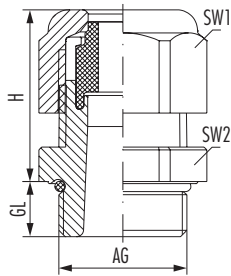
| AG | ∅k mm | GL mm | H mm | SW1/SW2 mm | ⊕ Nm | Item nr. zwart | Item nr. blauw-zwart |
|------------|----------|----------|---------|---------------|---------|-------------------|-------------------------|
| NPT 3/8" | 3 – 6 | 15 | 22 | 19/22 | 2 | 1.292.3801.71 | 1.292.3802.71 |
| NPT 3/8" | 4 – 8 | 15 | 22 | 19/22 | 2 | 1.292.3801.70 | 1.292.3802.70 |
| NPT 1/2" | 5 – 9 | 13 | 27 | 24/24 | 4,5 | 1.292.1201.71 | 1.292.1202.71 |
| NPT 1/2" | 6 – 12 | 13 | 27 | 24/24 | 4,5 | 1.292.1201.70 | 1.292.1202.70 |
| NPT 1/2" | 7 – 12 | 13 | 28 | 27/27 | 4,5 | 1.292.1216.71 | 1.292.1217.71 |
| NPT 1/2" | 10 – 14 | 13 | 28 | 27/27 | 4,5 | 1.292.1216.70 | 1.292.1217.70 |
| NPT 3/4" | 9 – 16 | 14 | 31 | 33/33 | 5 | 1.292.3401.71 | 1.292.3402.71 |
| NPT 3/4" | 13 – 18 | 14 | 31 | 33/33 | 5 | 1.292.3401.70 | 1.292.3402.70 |
| NPT 1" | 13 – 20 | 19 | 39 | 42/42 | 6,5 | 1.292.1001.71 | 1.292.1002.71 |
| NPT 1" | 18 – 25 | 19 | 39 | 42/42 | 6,5 | 1.292.1001.70 | 1.292.1002.70 |
| NPT 1 1/4" | 13 – 20 | 16 | 39 | 42/46 | 6,5 | 1.292.5401.71 | 1.292.5402.71 |
| NPT 1 1/4" | 18 – 25 | 16 | 39 | 42/46 | 6,5 | 1.292.5401.70 | 1.292.5402.70 |
| NPT 1 1/2" | 20 – 26 | 20 | 48 | 53/53 | 10 | 1.292.6401.71 | 1.292.6402.71 |
| NPT 1 1/2" | 22 – 32 | 20 | 48 | 53/53 | 10 | 1.292.6401.70 | 1.292.6402.70 |



naar de montage-in-
structie

Ex-Kabelwartels

HSK-K-Multi-Ex-Active (metrisch, NPT)



| | |
|-----------------------------|---|
| Materiaal | Polyamide, glasvezelversterkt |
| Materiaal dichtring | Elastomeer |
| Materiaal o-ring | NBR |
| Beschermingsklasse | IP 68 – 10 bar |
| Ex-beschermingsgraad | II 2G Ex eb IIC Gb / II 1D Ex ta IIIC Da / Class I Div 2 Groups A,B,C,D / Class II Div 1 Groups E,F,G |
| Temperatuurbereik | -20°C tot +85°C |
| Kleur | zwart / blauw-zwart |
| RAL | 9005 / 5012 |

RoHS

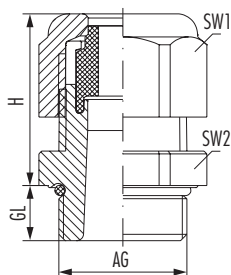
- // Deze inserts zijn voorbeelden, verdere inserts op aanvraag
- // Installatievoorschriften: De kabeldoorsnede mag 20% maar niet meer dan 1 mm van de diameter van de boring afwijken

| AG | GL mm | H mm | SW1/SW2 mm | ⊕ Nm | Aantal boringen x d | Item nr. zwart | Item nr. blauw-zwart | Aantal boringen x d | Item nr. zwart | Item nr. blauw-zwart |
|------------|----------|---------|---------------|---------|------------------------|-------------------|-------------------------|------------------------|-------------------|-------------------------|
| M12 x 1,5 | 8 | 21 | 15/15 | 1,5 | - | 1.581.1299.51 | | | | |
| M16 x 1,5 | 8 | 22 | 19/19 | 2 | 2 x 3 | 1.581.1601.51 | 1.581.1601.52 | 4 x 1,4 | 1.581.1600.51 | 1.581.1600.52 |
| M20 x 1,5 | 9 | 27 | 24/24 | 4,5 | 2 x 5 | 1.581.2003.51 | 1.581.2003.52 | 6 x 3 | 1.581.2001.51 | 1.581.2001.52 |
| M25 x 1,5 | 11 | 31 | 33/33 | 5 | 3 x 7 | 1.581.2501.51 | 1.581.2501.52 | 4 x 6 | 1.581.2500.51 | 1.581.2500.52 |
| M32 x 1,5 | 11 | 39 | 42/42 | 6,5 | 4 x 9 | 1.581.3201.51 | 1.581.3201.52 | 6 x 6,5 | 1.581.3200.51 | 1.581.3200.52 |
| M40 x 1,5 | 13 | 48 | 53/53 | 10 | 2 x 15 | 1.581.4003.51 | 1.581.4003.52 | 7 x 9 | 1.581.4001.51 | 1.581.4001.52 |
| M50 x 1,5 | 13 | 49 | 60/60 | 15 | - | 1.581.5099.51 | 1.581.5099.52 | | | |
| M63 x 1,5 | 14 | 49 | 65/68 | 22 | 3 x 18 | 1.581.6302.51 | 1.581.6302.52 | 6 x 12 | 1.581.6301.51 | 1.581.6301.52 |
| NPT 3/8" | 15 | 22 | 19/22 | 2 | 2 x 3 | 1.581.3801.71 | 1.581.3801.72 | 4 x 1,4 | 1.581.3800.71 | 1.581.3800.72 |
| NPT 1/2" | 13 | 27 | 24/24 | 4,5 | 2 x 5 | 1.581.1203.71 | 1.581.1203.72 | 3 x 4 | 1.581.1202.71 | 1.581.1202.72 |
| NPT 1/2" | 13 | 28 | 27/27 | 4,5 | 2 x 6 | 1.581.1221.71 | 1.581.1221.72 | 6 x 4 | 1.581.1220.71 | 1.581.1220.72 |
| NPT 3/4" | 14 | 31 | 33/33 | 5 | 3 x 7 | 1.581.3401.71 | 1.581.3401.72 | 4 x 6 | 1.581.3400.71 | 1.581.3400.72 |
| NPT 1" | 19 | 39 | 42/42 | 6,5 | 4 x 9 | 1.581.1001.71 | 1.581.1001.72 | 6 x 6,5 | 1.581.1000.71 | 1.581.1000.72 |
| NPT 1 1/4" | 16 | 39 | 42/46 | 6,5 | - | 1.581.5499.71 | 1.581.5499.72 | | | |
| NPT 1 1/2" | 20 | 48 | 53/53 | 10 | 5 x 9 | 1.581.6400.71 | 1.581.6400.72 | 7 x 9 | 1.581.6401.71 | 1.581.6401.72 |



naar de montage-instructie





| | |
|-----------------------------|---|
| Materiaal | Polyamide, glasvezelversterkt |
| Materiaal dichtring | Elastomeer |
| Materiaal o-ring | NBR |
| Beschermingsklasse | IP 68 – 10 bar |
| Ex-beschermingsgraad | II 2G Ex eb IIC Gb / II 1D Ex ta IIIC Da / Class I Div 2 Groups A,B,C,D / Class II Div 1 Groups E,F,G |
| Temperatuurbereik | -20°C tot +85°C |
| Kleur | zwart / blauw-zwart |
| RAL | 9005 / 5012 |

RoHS

- // Deze inserts zijn voorbeelden, verdere inserts op aanvraag
- // De kabel mag het aangegeven klembereik met niet meer dan 1 mm in breedte en lengte overschrijden. Geometrie van kabel en gatenpatroon moeten overeenkomen (half rond of recht)

| AG | GL mm | H mm | SW1/SW2 mm | Ⓢ Nm | B x H mm | Item nr. zwart | Item nr. blauw-zwart | B x H mm | Item nr. zwart | Item nr. blauw-zwart |
|------------|----------|---------|---------------|---------|-------------|-------------------|-------------------------|-------------|-------------------|-------------------------|
| M20 x 1,5 | 9 | 28 | 27/27 | 4,5 | 12 x 7 | 1.582.2017.51 | 1.582.2017.52 | 14 x 6 | 1.582.2018.51 | 1.582.2018.52 |
| M25 x 1,5 | 11 | 31 | 33/33 | 5 | 14 x 6 | 1.582.2500.51 | 1.582.2500.52 | 14 x 7 | 1.582.2501.51 | 1.582.2501.52 |
| M32 x 1,5 | 11 | 39 | 42/42 | 6,5 | 22 x 8 | 1.582.3200.51 | 1.582.3200.52 | | | |
| M40 x 1,5 | 13 | 48 | 53/53 | 10 | 28,5 x 10 | 1.582.4000.51 | 1.582.4000.52 | 29 x 5,5 | 1.582.4001.51 | 1.582.4001.52 |
| M40 x 1,5 | 13 | 48 | 53/53 | 10 | 30,5 x 12 | 1.582.4002.51 | 1.582.4002.52 | 31 x 7,5 | 1.582.4003.51 | 1.582.4003.52 |
| M50 x 1,5 | 13 | 49 | 60/60 | 15 | 33,5 x 11,5 | 1.582.5000.51 | 1.582.5000.52 | | | |
| NPT 1/2" | 13 | 28 | 27/27 | 4,5 | 12 x 7 | 1.582.1217.71 | 1.582.1217.72 | 14 x 6 | 1.582.1218.71 | 1.582.1218.72 |
| NPT 3/4" | 14 | 31 | 33/33 | 5 | 14 x 6 | 1.582.3400.71 | 1.582.3400.72 | | | |
| NPT 1" | 19 | 39 | 42/42 | 6,5 | 22 x 8 | 1.582.1000.71 | 1.582.1000.72 | | | |
| NPT 1 1/4" | 16 | 39 | 42/46 | 6,5 | 22 x 8 | 1.582.5400.71 | 1.582.5400.72 | | | |
| NPT 1 1/2" | 20 | 48 | 53/53 | 10 | 28,5 x 10 | 1.582.6400.71 | 1.582.6400.72 | 29 x 5,5 | 1.582.6401.71 | 1.582.6401.72 |
| NPT 1 1/2" | 20 | 48 | 53/53 | 10 | 30,5 x 12 | 1.582.6402.71 | 1.582.6402.72 | 31 x 7,5 | 1.582.6403.71 | 1.582.6403.72 |

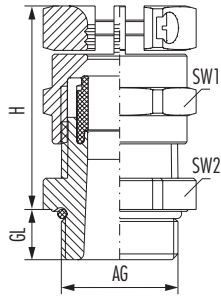


naar de montage-instructie




Ex-Kabelwartels

HSK-K-MZ-Ex (metrisch, PG)



| | |
|----------------------|--|
| Materiaal | Polyamide |
| Materiaal dichtring | NBR |
| Materiaal o-ring | NBR |
| Beschermingsklasse | IP 68 – 10 bar / IP 69 K |
| Ex-beschermingsgraad | II 2G Ex eb IIC Gb / II 1D Ex ta IIIC Da |
| Temperatuurbereik | -20°C tot +70°C |
| Kleur | zwart |
| RAL | 9005 |

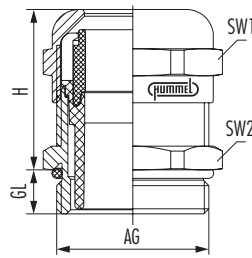
RoHS

| AG | ∅k mm | GL mm | H mm | SW1/SW2 mm |  Nm | Item nr. |
|-----------|----------|----------|---------|---------------|---|---------------|
| M16 x 1,5 | 4 – 8 | 15 | 29 | 19/19 | 3 | 1.215.1601.50 |
| M20 x 1,5 | 7 – 12 | 15 | 35,5 | 24/24 | 3,5 | 1.215.2001.50 |
| M25 x 1,5 | 13 – 18 | 11 | 41 | 33/33 | 5 | 1.215.2501.50 |
| M32 x 1,5 | 18 – 25 | 11 | 49 | 42/42 | 6,5 | 1.215.3201.50 |
| M40 x 1,5 | 22 – 32 | 13 | 58 | 53/53 | 10 | 1.215.4001.50 |
| M50 x 1,5 | 32 – 38 | 13 | 61,5 | 60/60 | 15 | 1.215.5001.50 |
| M63 x 1,5 | 37 – 44 | 14 | 62 | 65/68 | 18 | 1.215.6301.50 |
| PG 9 | 4 – 8 | 15 | 29 | 19/19 | 3 | 1.215.0901.14 |
| PG 11 | 5 – 10 | 15 | 32,5 | 22/22 | 3,5 | 1.215.1101.14 |
| PG 13,5 | 7 – 12 | 15 | 35,5 | 24/24 | 3,5 | 1.215.1301.14 |
| PG 16 | 10 – 14 | 10 | 37,5 | 27/27 | 5 | 1.215.1601.14 |
| PG 21 | 13 – 18 | 11 | 41 | 33/33 | 5 | 1.215.2101.14 |
| PG 29 | 18 – 25 | 11 | 49 | 42/42 | 6,5 | 1.215.2901.14 |
| PG 36 | 22 – 32 | 13 | 58 | 53/53 | 10 | 1.215.3601.14 |
| PG 42 | 32 – 38 | 13 | 61,5 | 60/60 | 15 | 1.215.4201.14 |
| PG 48 | 37 – 44 | 14 | 62 | 65/65 | 18 | 1.215.4801.14 |



naar de montage-instructie





| | |
|----------------------|--|
| Materiaal | Vernikkeld messing |
| Materiaal binnenhuis | Polyamide VO volgens UL94 |
| Materiaal dichtring | NBR |
| Materiaal o-ring | NBR |
| Beschermingsklasse | IP 68 – 10 bar / IP 69 K |
| Ex-beschermingsgraad | II 2G Ex eb IIC Gb / II 1D Ex ta IIIC Da |
| NEMA type rating | 4 / 4X / 6 |
| Temperatuurbereik | -20°C tot +95°C / -60°C tot +95°C |

RoHS

| AG | ∅k mm | GL mm | H mm | SW1/SW2 mm | ⊕ Nm | Item nr. -20°C tot +95°C | Item nr. -60°C tot +95°C |
|-----------|----------|----------|---------|---------------|---------|-----------------------------|-----------------------------|
| M12 x 1,5 | 2 – 5 | 6,5 | 19 | 14/14 | 4 | 1.610.1200.51 | 1.640.1200.51 |
| M12 x 1,5 | 3 – 6,5 | 6,5 | 19 | 14/14 | 4 | 1.610.1200.50 | 1.640.1200.50 |
| M16 x 1,5 | 2 – 6 | 6 | 21 | 17/19 | 6 | 1.610.1600.51 | 1.640.1600.51 |
| M16 x 1,5 | 3 – 7 | 6 | 22 | 20/20 | 5 | 1.610.1611.51 | 1.640.1611.51 |
| M16 x 1,5 | 4 – 8 | 6 | 21 | 17/19 | 6 | 1.610.1600.50 | 1.640.1600.50 |
| M16 x 1,5 | 5 – 10 | 6 | 22 | 20/20 | 5 | 1.610.1611.50 | 1.640.1611.50 |
| M20 x 1,5 | 5 – 9 | 6 | 23 | 22/22 | 8 | 1.610.2000.51 | 1.640.2000.51 |
| M20 x 1,5 | 6 – 12 | 6 | 23 | 22/22 | 8 | 1.610.2000.50 | 1.640.2000.50 |
| M20 x 1,5 | 7 – 12 | 6 | 24 | 24/24 | 10 | 1.610.2016.51 | 1.640.2016.51 |
| M20 x 1,5 | 10 – 14 | 6 | 24 | 24/24 | 10 | 1.610.2016.50 | 1.640.2016.50 |
| M25 x 1,5 | 10 – 16 | 7 | 26 | 30/30 | 12 | 1.610.2500.51 | 1.640.2500.51 |
| M25 x 1,5 | 14 – 18 | 7 | 26 | 30/30 | 12 | 1.610.2500.50 | 1.640.2500.50 |
| M32 x 1,5 | 13 – 20 | 8 | 31 | 40/40 | 15 | 1.610.3200.51 | 1.640.3200.51 |
| M32 x 1,5 | 20 – 25 | 8 | 31 | 40/40 | 15 | 1.610.3200.50 | 1.640.3200.50 |
| M40 x 1,5 | 20 – 26 | 8 | 37 | 50/50 | 15 | 1.610.4000.51 | 1.640.4000.51 |
| M40 x 1,5 | 22 – 32 | 8 | 37 | 50/50 | 15 | 1.610.4000.50 | 1.640.4000.50 |
| M50 x 1,5 | 25 – 31 | 9 | 37 | 57/57 | 24 | 1.610.5000.51 | 1.640.5000.51 |
| M50 x 1,5 | 32 – 38 | 9 | 37 | 57/57 | 24 | 1.610.5000.50 | 1.640.5000.50 |
| M63 x 1,5 | 29 – 35 | 10 | 38 | 64/68 | 30 | 1.610.6300.51 | 1.640.6300.51 |
| M63 x 1,5 | 37 – 44 | 10 | 38 | 64/68 | 30 | 1.610.6300.50 | 1.640.6300.50 |



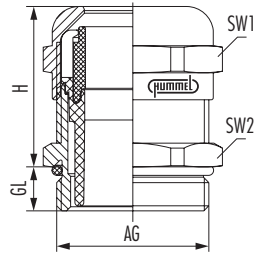
naar de montage-instructie



ATEX Ex

Ex-Kabelwartels

HSK-M Ex (metrisch lang)



| | |
|----------------------|--|
| Materiaal | Vernikkeld messing |
| Materiaal binnenhuis | Polyamide VO volgens UL94 |
| Materiaal dichtring | NBR |
| Materiaal o-ring | NBR |
| Beschermingsklasse | IP 68 – 10 bar / IP 69 K |
| Ex-beschermingsgraad | II 2G Ex eb IIC Gb / II 1D Ex ta IIIC Da |
| NEMA type rating | 4 / 4X / 6 |
| Temperatuurbereik | -20°C tot +95°C / -60°C tot +95°C |

RoHS

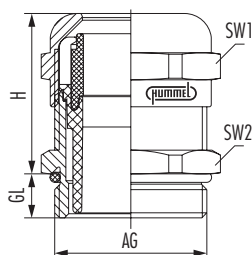
| AG | ∅k mm | GL mm | H mm | SW1/SW2 mm | ⊕ Nm | Item nr. -20°C tot +95°C | Item nr. -60°C tot +95°C |
|-----------|----------|----------|---------|---------------|---------|-----------------------------|-----------------------------|
| M12 x 1,5 | 2 – 5 | 10 | 19 | 14/14 | 4 | 1.610.1200.31 | 1.640.1200.31 |
| M12 x 1,5 | 3 – 6,5 | 10 | 19 | 14/14 | 4 | 1.610.1200.30 | 1.640.1200.30 |
| M16 x 1,5 | 2 – 6 | 10 | 21 | 17/19 | 6 | 1.610.1600.31 | 1.640.1600.31 |
| M16 x 1,5 | 3 – 7 | 10 | 22 | 20/20 | 5 | 1.610.1611.31 | 1.640.1611.31 |
| M16 x 1,5 | 4 – 8 | 10 | 21 | 17/19 | 6 | 1.610.1600.30 | 1.640.1600.30 |
| M16 x 1,5 | 5 – 10 | 10 | 22 | 20/20 | 5 | 1.610.1611.30 | 1.640.1611.30 |
| M20 x 1,5 | 5 – 9 | 10 | 23 | 22/22 | 8 | 1.610.2000.31 | 1.640.2000.31 |
| M20 x 1,5 | 6 – 12 | 10 | 23 | 22/22 | 8 | 1.610.2000.30 | 1.640.2000.30 |
| M20 x 1,5 | 7 – 12 | 10 | 24 | 24/24 | 10 | 1.610.2016.31 | 1.640.2016.31 |
| M20 x 1,5 | 10 – 14 | 10 | 24 | 24/24 | 10 | 1.610.2016.30 | 1.640.2016.30 |
| M25 x 1,5 | 10 – 16 | 12 | 26 | 30/30 | 12 | 1.610.2500.31 | 1.640.2500.31 |
| M25 x 1,5 | 14 – 18 | 12 | 26 | 30/30 | 12 | 1.610.2500.30 | 1.640.2500.30 |
| M32 x 1,5 | 13 – 20 | 12 | 31 | 40/40 | 15 | 1.610.3200.31 | 1.640.3200.31 |
| M32 x 1,5 | 20 – 25 | 12 | 31 | 40/40 | 15 | 1.610.3200.30 | 1.640.3200.30 |
| M40 x 1,5 | 20 – 26 | 15 | 37 | 50/50 | 15 | 1.610.4000.31 | 1.640.4000.31 |
| M40 x 1,5 | 22 – 32 | 15 | 37 | 50/50 | 15 | 1.610.4000.30 | 1.640.4000.30 |
| M50 x 1,5 | 25 – 31 | 15 | 37 | 57/57 | 24 | 1.610.5000.31 | 1.640.5000.31 |
| M50 x 1,5 | 32 – 38 | 15 | 37 | 57/57 | 24 | 1.610.5000.30 | 1.640.5000.30 |
| M63 x 1,5 | 29 – 35 | 15 | 38 | 64/68 | 30 | 1.610.6300.31 | 1.640.6300.31 |
| M63 x 1,5 | 37 – 44 | 15 | 38 | 64/68 | 30 | 1.610.6300.30 | 1.640.6300.30 |



naar de montage-instructie




ATEX Ex



| | |
|----------------------|--|
| Materiaal | Vernikkeld messing |
| Materiaal binnenhuis | Polyamide VO volgens UL94 |
| Materiaal dichtring | NBR |
| Materiaal o-ring | NBR |
| Beschermingsklasse | IP 68 – 10 bar / IP 69 K |
| Ex-beschermingsgraad | II 2G Ex eb IIC Gb / II 1D Ex ta IIIC Da |
| NEMA type rating | 4 / 4X / 6 |
| Temperatuurbereik | -20°C tot +95°C / -60°C tot +95°C |

RoHS

| AG | ∅k mm | GL mm | H mm | SW1/SW2 mm |  Nm | Item nr. -20°C tot +95°C | Item nr. -60°C tot +95°C |
|---------|----------|----------|---------|---------------|---|-----------------------------|-----------------------------|
| PG 7 | 2 – 5 | 5 | 19 | 14/14 | 4 | 1.610.0700.15 | 1.640.0700.15 |
| PG 7 | 3 – 6,5 | 5 | 19 | 14/14 | 4 | 1.610.0700.01 | 1.640.0700.01 |
| PG 9 | 2 – 6 | 6 | 21 | 17/17 | 6 | 1.610.0900.15 | 1.640.0900.15 |
| PG 9 | 4 – 8 | 6 | 21 | 17/17 | 6 | 1.610.0900.01 | 1.640.0900.01 |
| PG 11 | 3 – 7 | 6 | 22 | 20/20 | 5 | 1.610.1100.15 | 1.640.1100.15 |
| PG 11 | 5 – 10 | 6 | 22 | 20/20 | 5 | 1.610.1100.01 | 1.640.1100.01 |
| PG 13,5 | 5 – 9 | 6,5 | 24 | 22/22 | 8 | 1.610.1300.15 | 1.640.1300.15 |
| PG 13,5 | 6 – 12 | 6,5 | 24 | 22/22 | 8 | 1.610.1300.01 | 1.640.1300.01 |
| PG 16 | 7 – 12 | 6,5 | 23 | 24/24 | 10 | 1.610.1600.15 | 1.640.1600.15 |
| PG 16 | 10 – 14 | 6,5 | 23 | 24/24 | 10 | 1.610.1600.01 | 1.640.1600.01 |
| PG 21 | 10 – 16 | 7 | 24 | 30/30 | 12 | 1.610.2100.15 | 1.640.2100.15 |
| PG 21 | 14 – 18 | 7 | 24 | 30/30 | 12 | 1.610.2100.01 | 1.640.2100.01 |
| PG 29 | 13 – 20 | 8 | 29 | 40/40 | 15 | 1.610.2900.15 | 1.640.2900.15 |
| PG 29 | 20 – 25 | 8 | 29 | 40/40 | 15 | 1.610.2900.01 | 1.640.2900.01 |
| PG 36 | 20 – 26 | 8 | 35 | 50/50 | 15 | 1.610.3600.15 | 1.640.3600.15 |
| PG 36 | 22 – 32 | 8 | 35 | 50/50 | 15 | 1.610.3600.01 | 1.640.3600.01 |
| PG 42 | 25 – 31 | 9 | 37 | 57/57 | 24 | 1.610.4200.15 | 1.640.4200.15 |
| PG 42 | 32 – 38 | 9 | 37 | 57/57 | 24 | 1.610.4200.01 | 1.640.4200.01 |
| PG 48 | 29 – 35 | 10 | 38 | 64/64 | 30 | 1.610.4800.15 | 1.640.4800.15 |
| PG 48 | 37 – 44 | 10 | 38 | 64/64 | 30 | 1.610.4800.01 | 1.640.4800.01 |



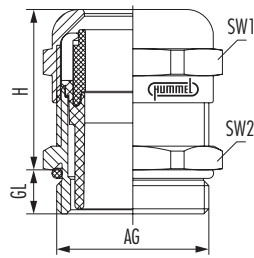
naar de montage-instructie



ATEX 


Ex-Kabelwartels

HSK-M-Ex (PG lang)



| | |
|----------------------|--|
| Materiaal | Vernikkeld messing |
| Materiaal binnenhuis | Polyamide VO volgens UL94 |
| Materiaal dichtring | NBR |
| Materiaal o-ring | NBR |
| Beschermingsklasse | IP 68 – 10 bar / IP 69 K |
| Ex-beschermingsgraad | II 2G Ex eb IIC Gb / II 1D Ex ta IIIC Da |
| NEMA type rating | 4 / 4X / 6 |
| Temperatuurbereik | -20°C tot +95°C / -60°C tot +95°C |

RoHS

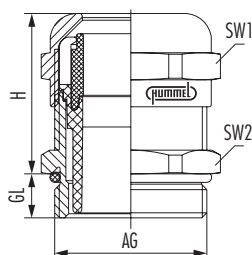
| AG | ∅k mm | GL mm | H mm | SW1/SW2 mm |  Nm | Item nr. -20°C tot +95°C | Item nr. -60°C tot +95°C |
|---------|----------|----------|---------|---------------|--|-----------------------------|-----------------------------|
| PG 7 | 2 – 5 | 10 | 19 | 14/14 | 4 | 1.610.0700.61 | 1.640.0700.61 |
| PG 7 | 3 – 6,5 | 10 | 19 | 14/14 | 4 | 1.610.0700.60 | 1.640.0700.60 |
| PG 9 | 2 – 6 | 10 | 21 | 17/17 | 6 | 1.610.0900.61 | 1.640.0900.61 |
| PG 9 | 4 – 8 | 10 | 21 | 17/17 | 6 | 1.610.0900.60 | 1.640.0900.60 |
| PG 11 | 3 – 7 | 10 | 22 | 20/20 | 5 | 1.610.1100.61 | 1.640.1100.61 |
| PG 11 | 5 – 10 | 10 | 22 | 20/20 | 5 | 1.610.1100.60 | 1.640.1100.60 |
| PG 13,5 | 5 – 9 | 10 | 24 | 22/22 | 8 | 1.610.1300.61 | 1.640.1300.61 |
| PG 13,5 | 6 – 12 | 10 | 24 | 22/22 | 8 | 1.610.1300.60 | 1.640.1300.60 |
| PG 16 | 7 – 12 | 10 | 23 | 24/24 | 10 | 1.610.1600.61 | 1.640.1600.61 |
| PG 16 | 10 – 14 | 10 | 23 | 24/24 | 10 | 1.610.1600.60 | 1.640.1600.60 |
| PG 21 | 10 – 16 | 12 | 24 | 30/30 | 12 | 1.610.2100.61 | 1.640.2100.61 |
| PG 21 | 14 – 18 | 12 | 24 | 30/30 | 12 | 1.610.2100.60 | 1.640.2100.60 |
| PG 29 | 13 – 20 | 12 | 29 | 40/40 | 15 | 1.610.2900.61 | 1.640.2900.61 |
| PG 29 | 20 – 25 | 12 | 29 | 40/40 | 15 | 1.610.2900.60 | 1.640.2900.60 |
| PG 36 | 20 – 26 | 15 | 35 | 50/50 | 15 | 1.610.3600.61 | 1.640.3600.61 |
| PG 36 | 22 – 32 | 15 | 35 | 50/50 | 15 | 1.610.3600.60 | 1.640.3600.60 |
| PG 42 | 25 – 31 | 15 | 37 | 57/57 | 24 | 1.610.4200.61 | 1.640.4200.61 |
| PG 42 | 32 – 38 | 15 | 37 | 57/57 | 24 | 1.610.4200.60 | 1.640.4200.60 |
| PG 48 | 29 – 35 | 15 | 38 | 64/64 | 30 | 1.610.4800.61 | 1.640.4800.61 |
| PG 48 | 37 – 44 | 15 | 38 | 64/64 | 30 | 1.610.4800.60 | 1.640.4800.60 |



naar de montage-instructie



ATEX^{Ex}



| | |
|----------------------|--|
| Materiaal | Vernikkeld messing |
| Materiaal binnenhuis | Polyamide VO volgens UL94 |
| Materiaal dichtring | NBR |
| Materiaal o-ring | NBR |
| Beschermingsklasse | IP 68 – 10 bar / IP 69 K |
| Ex-beschermingsgraad | II 2G Ex eb IIC Gb / II 1D Ex ta IIIC Da |
| NEMA type rating | 4 / 4X / 6 |
| Temperatuurbereik | -20°C tot +95°C / -60°C tot +95°C |

RoHS

| AG | ∅k mm | GL mm | H mm | SW1/SW2 mm | Nm | Item nr. -20°C tot +95°C | Item nr. -60°C tot +95°C |
|----------|----------|----------|---------|---------------|--------|-----------------------------|-----------------------------|
| NPT 3/8" | 2 – 6 | 15 | 21 | 17/19 | 6 | 1.610.3800.71 | 1.640.3800.71 |
| NPT 3/8" | 4 – 8 | 15 | 21 | 17/19 | 6 | 1.610.3800.70 | 1.640.3800.70 |
| NPT 1/2" | 5 – 9 | 13 | 24 | 22/24 | 8 | 1.610.1200.71 | 1.640.1200.71 |
| NPT 1/2" | 6 – 12 | 13 | 24 | 22/24 | 8 | 1.610.1200.70 | 1.640.1200.70 |
| NPT 3/4" | 10 – 16 | 13 | 25 | 30/30 | 12 | 1.610.3400.71 | 1.640.3400.71 |
| NPT 3/4" | 14 – 18 | 13 | 25 | 30/30 | 12 | 1.610.3400.70 | 1.640.3400.70 |
| NPT 1" | 13 – 20 | 19 | 29 | 40/40 | 15 | 1.610.1000.71 | 1.640.1000.71 |
| NPT 1" | 20 – 25 | 19 | 29 | 40/40 | 15 | 1.610.1000.70 | 1.640.1000.70 |



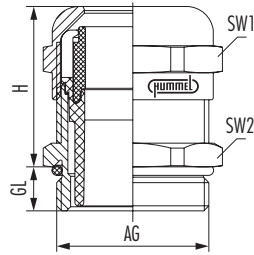
naar de montage-instructie



ATEX

Ex-Kabelwartels

HSK-M-PVDF-Ex (metrisch/lang)



| | |
|----------------------|--|
| Materiaal | Vernikkeld messing |
| Materiaal binnenhuis | PVDF |
| Materiaal dichtring | FKM |
| Materiaal o-ring | FKM |
| Beschermingsklasse | IP 68 – 10 bar / IP 69 K |
| Ex-beschermingsgraad | II 2G Ex eb IIC Gb / II 1D Ex ta IIIC Da |
| NEMA type rating | 4 / 4X / 6 |
| Temperatuurbereik | -20°C tot +130°C |

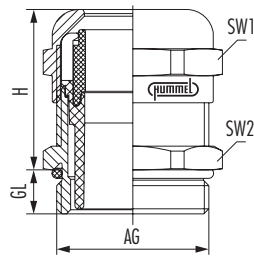
RoHS

| AG | ∅k mm | H mm | SW1/SW2 mm | Nm | GL mm | Item nr. kort | GL mm | Item nr. lang |
|-----------|----------|---------|---------------|--------|----------|------------------|----------|------------------|
| M12 x 1,5 | 2 – 5 | 19 | 14/14 | 4 | 6,5 | 1.660.1200.51 | 10 | 1.660.1200.31 |
| M12 x 1,5 | 3 – 6,5 | 19 | 14/14 | 4 | 6,5 | 1.660.1200.50 | 10 | 1.660.1200.30 |
| M16 x 1,5 | 2 – 6 | 21 | 17/19 | 6 | 6 | 1.660.1600.51 | 10 | 1.660.1600.31 |
| M16 x 1,5 | 3 – 7 | 22 | 20/20 | 5 | 6 | 1.660.1611.51 | 10 | 1.660.1611.31 |
| M16 x 1,5 | 4 – 8 | 21 | 17/19 | 6 | 6 | 1.660.1600.50 | 10 | 1.660.1600.30 |
| M16 x 1,5 | 5 – 10 | 22 | 20/20 | 5 | 6 | 1.660.1611.50 | 10 | 1.660.1611.30 |
| M20 x 1,5 | 5 – 9 | 23 | 22/22 | 8 | 6 | 1.660.2000.51 | 10 | 1.660.2000.31 |
| M20 x 1,5 | 6 – 12 | 23 | 22/22 | 8 | 6 | 1.660.2000.50 | 10 | 1.660.2000.30 |
| M20 x 1,5 | 7 – 12 | 24 | 24/24 | 10 | 6 | 1.660.2016.51 | 10 | 1.660.2016.31 |
| M20 x 1,5 | 10 – 14 | 24 | 24/24 | 10 | 6 | 1.660.2016.50 | 10 | 1.660.2016.30 |
| M25 x 1,5 | 10 – 16 | 26 | 30/30 | 12 | 7 | 1.660.2500.51 | 12 | 1.660.2500.31 |
| M25 x 1,5 | 14 – 18 | 26 | 30/30 | 12 | 7 | 1.660.2500.50 | 12 | 1.660.2500.30 |
| M32 x 1,5 | 13 – 20 | 31 | 40/40 | 15 | 8 | 1.660.3200.51 | 12 | 1.660.3200.31 |
| M32 x 1,5 | 20 – 25 | 31 | 40/40 | 15 | 8 | 1.660.3200.50 | 12 | 1.660.3200.30 |
| M40 x 1,5 | 20 – 26 | 37 | 50/50 | 15 | 8 | 1.660.4000.51 | 15 | 1.660.4000.31 |
| M40 x 1,5 | 22 – 32 | 37 | 50/50 | 15 | 8 | 1.660.4000.50 | 15 | 1.660.4000.30 |



naar de montage-instructie





| | | |
|----------------------|--|------|
| Materiaal | Vernikkeld messing | RoHS |
| Materiaal binnenhuis | PVDF | |
| Materiaal dichtring | FKM | |
| Materiaal o-ring | FKM | |
| Beschermingsklasse | IP 68 – 10 bar / IP 69 K | |
| Ex-beschermingsgraad | II 2G Ex eb IIC Gb / II 1D Ex ta IIIC Da | |
| NEMA type rating | 4 / 4X / 6 | |
| Temperatuurbereik | -20°C tot +130°C | |

| AG | ∅k mm | H mm | SW1/SW2 mm | ⊕ Nm | GL mm | Item nr. kort | GL mm | Item nr. lang |
|---------|----------|---------|---------------|---------|----------|------------------|----------|------------------|
| PG 7 | 2 – 5 | 19 | 14/14 | 4 | 5 | 1.660.0700.15 | 10 | 1.660.0700.61 |
| PG 7 | 3 – 6,5 | 19 | 14/14 | 4 | 5 | 1.660.0700.01 | 10 | 1.660.0700.60 |
| PG 9 | 2 – 6 | 21 | 17/17 | 6 | 6 | 1.660.0900.15 | 10 | 1.660.0900.61 |
| PG 9 | 4 – 8 | 21 | 17/17 | 6 | 6 | 1.660.0900.01 | 10 | 1.660.0900.60 |
| PG 11 | 3 – 7 | 22 | 20/20 | 5 | 6 | 1.660.1100.15 | 10 | 1.660.1100.61 |
| PG 11 | 5 – 10 | 22 | 20/20 | 5 | 6 | 1.660.1100.01 | 10 | 1.660.1100.60 |
| PG 13,5 | 5 – 9 | 24 | 22/22 | 8 | 6,5 | 1.660.1300.15 | 10 | 1.660.1300.61 |
| PG 13,5 | 6 – 12 | 24 | 22/22 | 8 | 6,5 | 1.660.1300.01 | 10 | 1.660.1300.60 |
| PG 16 | 7 – 12 | 23 | 24/24 | 10 | 6,5 | 1.660.1600.15 | 10 | 1.660.1600.61 |
| PG 16 | 10 – 14 | 23 | 24/24 | 10 | 6,5 | 1.660.1600.01 | 10 | 1.660.1600.60 |
| PG 21 | 10 – 16 | 24 | 30/30 | 12 | 7 | 1.660.2100.15 | 12 | 1.660.2100.61 |
| PG 21 | 14 – 18 | 24 | 30/30 | 12 | 7 | 1.660.2100.01 | 12 | 1.660.2100.60 |
| PG 29 | 13 – 20 | 29 | 40/40 | 15 | 8 | 1.660.2900.15 | 12 | 1.660.2900.61 |
| PG 29 | 20 – 25 | 29 | 40/40 | 15 | 8 | 1.660.2900.01 | 12 | 1.660.2900.60 |
| PG 36 | 20 – 26 | 35 | 50/50 | 15 | 8 | 1.660.3600.15 | 15 | 1.660.3600.61 |
| PG 36 | 22 – 32 | 35 | 50/50 | 15 | 8 | 1.660.3600.01 | 15 | 1.660.3600.60 |
| PG 42 | 25 – 31 | 37 | 57/57 | 24 | 9 | 1.660.4200.15 | 15 | 1.660.4200.61 |
| PG 42 | 32 – 38 | 37 | 57/57 | 24 | 9 | 1.660.4200.01 | 15 | 1.660.4200.60 |
| PG 48 | 29 – 35 | 38 | 64/64 | 30 | 10 | 1.660.4800.15 | 15 | 1.660.4800.61 |
| PG 48 | 37 – 44 | 38 | 64/64 | 30 | 10 | 1.660.4800.01 | 15 | 1.660.4800.60 |

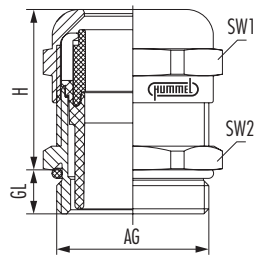


naar de montage-instructie




Ex-Kabelwartels

HSK-M-PVDF-Ex (NPT)



| | |
|----------------------|--|
| Materiaal | Vernikkeld messing |
| Materiaal binnenhuis | PVDF |
| Materiaal dichtring | FKM |
| Materiaal o-ring | FKM |
| Beschermingsklasse | IP 68 – 10 bar / IP 69 K |
| Ex-beschermingsgraad | II 2G Ex eb IIC Gb / II 1D Ex ta IIIC Da |
| NEMA type rating | 4 / 4X / 6 |
| Temperatuurbereik | -20°C tot +130°C |

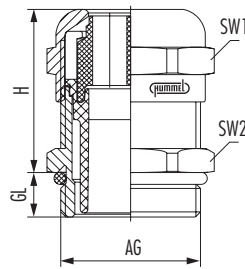
RoHS

| AG | ∅k mm | GL mm | H mm | SW1/SW2 mm |  Nm | Item nr. |
|----------|----------|----------|---------|---------------|---|---------------|
| NPT 3/8" | 2 – 6 | 15 | 21 | 17/19 | 6 | 1.660.3800.71 |
| NPT 3/8" | 4 – 8 | 15 | 21 | 17/19 | 6 | 1.660.3800.70 |
| NPT 1/2" | 5 – 9 | 13 | 24 | 22/24 | 8 | 1.660.1200.71 |
| NPT 1/2" | 6 – 12 | 13 | 24 | 22/24 | 8 | 1.660.1200.70 |
| NPT 3/4" | 10 – 16 | 13 | 25 | 30/30 | 12 | 1.660.3400.71 |
| NPT 3/4" | 14 – 18 | 13 | 25 | 30/30 | 12 | 1.660.3400.70 |



naar de montage-instructie





| | |
|----------------------|--|
| Materiaal | Vernikkeld messing |
| Materiaal binnenhuis | Polyamide VO volgens UL94 |
| Materiaal dichtring | Elastomeer |
| Materiaal o-ring | NBR |
| Beschermingsklasse | IP 68 |
| Ex-beschermingsgraad | II 2G Ex eb IIC Gb / II TD Ex ta IIIC Da |
| Temperatuurbereik | -20°C tot +95°C |

RoHS

// Deze inserts zijn voorbeelden, verdere inserts op aanvraag

| AG | GL mm | H mm | SW1/SW2 mm | ⌀ Nm | Aantal boringen x d | | Aantal boringen x d | |
|-----------|----------|---------|---------------|---------|---------------------|---------------|---------------------|---------------|
| | | | | | Item nr. | Item nr. | Item nr. | Item nr. |
| M16 x 1,5 | 6 | 21 | 17/19 | 5 | 2 x 3 | 1.687.1601.50 | 4 x 1,4 | 1.687.1600.50 |
| M20 x 1,5 | 6 | 23 | 22/22 | 8 | 2 x 5 | 1.687.2003.50 | 6 x 3 | 1.687.2001.50 |
| M25 x 1,5 | 7 | 26 | 30/30 | 12 | 3 x 7 | 1.687.2501.50 | 4 x 6 | 1.687.2500.50 |
| M32 x 1,5 | 8 | 31 | 40/40 | 15 | 4 x 9 | 1.687.3201.50 | 6 x 6,5 | 1.687.3200.50 |
| M40 x 1,5 | 8 | 37 | 50/50 | 15 | 2 x 15 | 1.687.4003.50 | 7 x 9 | 1.687.4001.50 |
| M50 x 1,5 | 9 | 37 | 57/57 | 24 | - | 1.687.5099.50 | | |
| M63 x 1,5 | 10 | 38 | 64/68 | 30 | 3 x 18 | 1.687.6302.50 | 6 x 12 | 1.687.6301.50 |
| PG 9 | 6 | 21 | 17/17 | 5 | 2 x 3 | 1.687.0901.01 | 4 x 1,4 | 1.687.0900.01 |
| PG 11 | 6 | 22 | 20/20 | 6 | 2 x 4 | 1.687.1102.01 | 3 x 3 | 1.687.1101.01 |
| PG 13,5 | 6,5 | 24 | 22/22 | 8 | 2 x 5 | 1.687.1303.01 | 3 x 4 | 1.687.1302.01 |
| PG 16 | 6,5 | 23 | 24/24 | 10 | 2 x 6 | 1.687.1605.01 | 3 x 5,6 | 1.687.1606.01 |
| PG 16 | 6,5 | 23 | 24/24 | 10 | 4 x 4 | 1.687.1602.01 | 6 x 4 | 1.687.1604.01 |
| PG 21 | 7 | 24 | 30/30 | 12 | 3 x 7 | 1.687.2101.01 | 4 x 6 | 1.687.2100.01 |
| PG 29 | 8 | 29 | 40/40 | 15 | 4 x 9 | 1.687.2901.01 | 6 x 6,5 | 1.687.2900.01 |
| PG 36 | 8 | 35 | 50/50 | 15 | 2 x 15 | 1.687.3603.01 | 7 x 9 | 1.687.3601.01 |
| PG 48 | 10 | 38 | 64/64 | 30 | 3 x 18 | 1.687.4802.01 | 6 x 12 | 1.687.4801.01 |
| NPT 3/8" | 15 | 21 | 17/19 | 5 | 2 x 3 | 1.687.3801.70 | 4 x 1,4 | 1.687.3800.70 |
| NPT 1/2" | 13 | 24 | 24/24 | 8 | 2 x 5 | 1.687.1203.70 | 3 x 4 | 1.687.1220.70 |
| NPT 3/4" | 13 | 25 | 30/30 | 12 | 3 x 7 | 1.687.3401.70 | 4 x 6 | 1.687.3400.70 |
| NPT 1" | 19 | 29 | 40/40 | 15 | 4 x 9 | 1.687.1001.70 | 6 x 6,5 | 1.687.1000.70 |

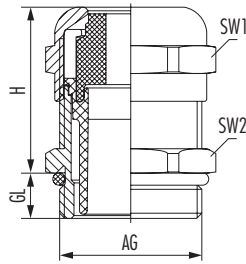


naar de montage-instructie



Ex-Kabelwartels


HSK-M-Flaka-Ex (metrisch, PG, NPT)



| | |
|----------------------|---|
| Materiaal | Vernikkeld messing |
| Materiaal binnenhuis | Polyamide VO volgens UL94 |
| Materiaal dichtring | Elastomeer |
| Materiaal o-ring | NBR |
| Beschermingsklasse | IP 65 / IP 68 – 10 bar met optimale toewijzing van alle gaten |
| Ex-beschermingsgraad | II 2G Ex eb IIC Gb / II 1D Ex ta IIIC Da |
| Temperatuurbereik | -20°C tot +95°C |

RoHS

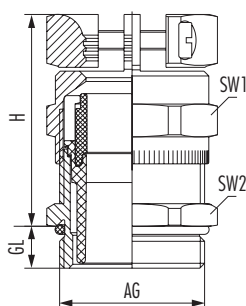
// Deze inserts zijn voorbeelden, verdere inserts op aanvraag

| AG | GL mm | H mm | SW1/SW2 mm |  Nm | B x H mm | Item nr. | B x H mm | Item nr. |
|-----------|----------|---------|---------------|---|-------------|---------------|-------------|---------------|
| M20 x 1,5 | 6 | 24 | 24/24 | 10 | 12 x 7 | 1.689.2017.50 | 14 x 6 | 1.689.2018.50 |
| M25 x 1,5 | 7 | 26 | 30/30 | 12 | 14 x 6 | 1.689.2500.50 | 14 x 7 | 1.689.2501.50 |
| M32 x 1,5 | 8 | 31 | 40/40 | 15 | 22 x 8 | 1.689.3200.50 | | |
| M40 x 1,5 | 8 | 37 | 50/50 | 15 | 28,5 x 10 | 1.689.4000.50 | 29 x 5,5 | 1.689.4001.50 |
| M40 x 1,5 | 8 | 37 | 50/50 | 15 | 30,5 x 12 | 1.689.4002.50 | 31 x 7,5 | 1.689.4003.50 |
| M50 x 1,5 | 9 | 37 | 57/57 | 24 | 33,5 x 11,5 | 1.689.5000.50 | | |
| M63 x 1,5 | 10 | 38 | 64/68 | 30 | 38 x 12 | 1.689.6300.50 | | |
| PG 16 | 6,5 | 23 | 24/24 | 10 | 12 x 7 | 1.689.1601.01 | 14 x 6 | 1.689.1602.01 |
| PG 21 | 7 | 24 | 30/30 | 12 | 14 x 7 | 1.689.2101.01 | 14 x 6 | 1.689.2100.01 |
| PG 29 | 8 | 29 | 40/40 | 15 | 22 x 8 | 1.689.2900.01 | | |
| PG 36 | 8 | 35 | 50/50 | 15 | 28,5 x 10 | 1.689.3600.01 | 29 x 5,5 | 1.689.3601.01 |
| PG 36 | 8 | 35 | 50/50 | 15 | 30,5 x 12 | 1.689.3602.01 | 31 x 7,5 | 1.689.3603.01 |
| PG 42 | 9 | 37 | 57/57 | 24 | 33,5 x 11,5 | 1.689.4200.01 | | |
| PG 48 | 10 | 38 | 64/64 | 30 | 38 x 12 | 1.689.4802.01 | | |
| NPT 3/4" | 13 | 25 | 30/30 | 12 | 14 x 7 | 1.689.3401.70 | 14 x 6 | 1.689.3400.70 |
| NPT 1" | 19 | 29 | 40/40 | 15 | 22 x 8 | 1.689.1000.70 | | |



naar de montage-instructie





| | |
|-----------------------------|---|
| Materiaal | Vernikkeld messing |
| Materiaal binnenhuis | Polyamide VO volgens UL94 / PVDF |
| Materiaal dichtring | NBR / FKM |
| Materiaal o-ring | NBR / FKM |
| Beschermingsklasse | IP 68 – 10 bar / IP 69 K |
| Ex-beschermingsgraad | II 2G Ex eb IIC Gb / II 1D Ex ta IIIC Da |
| NEMA type rating | 4 / 4X / 6 |
| Temperatuurbereik | -20°C tot +95°C / -60°C tot +95°C / -20°C tot +130°C |

RoHS

| AG | ∅k mm | GL mm | H mm | SW1/SW2 mm | ⊕ Nm | Item nr. -20°C tot +95°C | Item nr. -20°C tot +130°C | Item nr. -60°C tot +95°C |
|-----------|----------|----------|---------|---------------|---------|-----------------------------|------------------------------|-----------------------------|
| M12 x 1,5 | 3 – 6,5 | 6,5 | 26 | 14/14 | 4 | 1.611.1200.50 | 1.661.1200.50 | 1.641.1200.50 |
| M16 x 1,5 | 4 – 8 | 6 | 28 | 17/19 | 6 | 1.611.1600.50 | 1.661.1600.50 | 1.641.1600.50 |
| M16 x 1,5 | 5 – 10 | 6 | 30 | 20/20 | 5 | 1.611.1611.50 | 1.661.1611.50 | 1.641.1611.50 |
| M20 x 1,5 | 7 – 12 | 6 | 33 | 22/22 | 10 | 1.611.2000.50 | 1.661.2000.50 | 1.641.2000.50 |
| M20 x 1,5 | 10 – 14 | 6 | 33 | 24/24 | 10 | 1.611.2016.50 | 1.661.2016.50 | 1.641.2016.50 |
| M25 x 1,5 | 14 – 18 | 7 | 37 | 30/30 | 12 | 1.611.2500.50 | 1.661.2500.50 | 1.641.2500.50 |
| M32 x 1,5 | 20 – 25 | 8 | 43 | 40/40 | 15 | 1.611.3200.50 | 1.661.3200.50 | 1.641.3200.50 |
| M40 x 1,5 | 24 – 32 | 8 | 50 | 50/50 | 15 | 1.611.4000.50 | 1.661.4000.50 | 1.641.4000.50 |
| M50 x 1,5 | 32 – 38 | 9 | 51 | 57/57 | 24 | 1.611.5000.50 | | 1.641.5000.50 |
| M63 x 1,5 | 37 – 44 | 10 | 52 | 64/68 | 30 | 1.611.6300.50 | | 1.641.6300.50 |
| PG 7 | 3 – 6,5 | 5 | 26 | 14/14 | 4 | 1.611.0700.01 | 1.661.0700.01 | 1.641.0700.01 |
| PG 9 | 4 – 8 | 6 | 28 | 17/17 | 6 | 1.611.0900.01 | 1.661.0900.01 | 1.641.0900.01 |
| PG 11 | 5 – 10 | 6 | 30 | 20/20 | 5 | 1.611.1100.01 | 1.661.1100.01 | 1.641.1100.01 |
| PG 13,5 | 7 – 12 | 6 | 33 | 22/22 | 8 | 1.611.1300.01 | 1.661.1300.01 | 1.641.1300.01 |
| PG 16 | 10 – 14 | 6 | 33 | 24/24 | 10 | 1.611.1600.01 | 1.661.1600.01 | 1.641.1600.01 |
| PG 21 | 13 – 18 | 7 | 37 | 30/30 | 12 | 1.611.2100.01 | 1.661.2100.01 | 1.641.2100.01 |
| PG 29 | 20 – 25 | 8 | 43 | 40/40 | 15 | 1.611.2900.01 | 1.661.2900.01 | 1.641.2900.01 |
| PG 36 | 24 – 32 | 8 | 50 | 50/50 | 15 | 1.611.3600.01 | 1.661.3600.01 | 1.641.3600.01 |
| PG 42 | 32 – 38 | 9 | 51 | 57/57 | 24 | 1.611.4200.01 | 1.661.4200.01 | 1.641.4200.01 |
| PG 48 | 37 – 44 | 10 | 52 | 64/64 | 30 | 1.611.4800.01 | 1.661.4800.01 | 1.641.4800.01 |
| NPT 3/8" | 4 – 8 | 15 | 28 | 17/19 | 6 | 1.611.3800.70 | 1.661.3800.70 | 1.641.3800.70 |
| NPT 1/2" | 7 – 12 | 13 | 33 | 22/24 | 8 | 1.611.1200.70 | 1.661.1200.70 | 1.641.1200.70 |
| NPT 3/4" | 13 – 18 | 13 | 37 | 30/30 | 12 | 1.611.3400.70 | 1.661.3400.70 | 1.641.3400.70 |
| NPT 1" | 20 – 25 | 19 | 43 | 40/40 | 15 | 1.611.1000.70 | | 1.641.1000.70 |



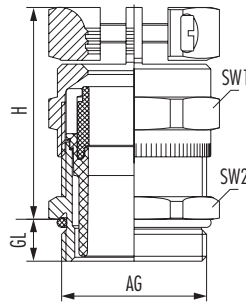
naar de montage-instructie



ATEX^{Ex}


Ex-Kabelwartels

HSK-MZ-PVDF-Ex (metrisch, PG, NPT)



| | |
|----------------------|--|
| Materiaal | Vernikkeld messing |
| Materiaal binnenhuis | PVDF |
| Materiaal dichtring | FKM |
| Materiaal o-ring | FKM |
| Beschermingsklasse | IP 68 – 10 bar / IP 69 K |
| Ex-beschermingsgraad | II 2G Ex eb IIC Gb / II 1D Ex ta IIIC Da |
| NEMA type rating | 4 / 4X / 6 |
| Temperatuurbereik | -20°C tot +130°C |

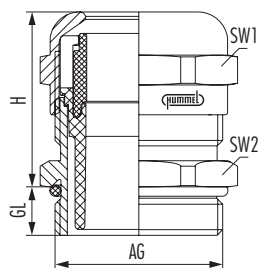
RoHS

| AG | ∅k mm | GL mm | H mm | SW1/SW2 mm |  Nm | Item nr. |
|-----------|----------|----------|---------|---------------|---|---------------|
| M12 x 1,5 | 3 – 6,5 | 6,5 | 26 | 14/14 | 4 | 1.661.1200.50 |
| M16 x 1,5 | 4 – 8 | 6 | 28 | 17/19 | 6 | 1.661.1600.50 |
| M16 x 1,5 | 5 – 10 | 6 | 30 | 20/20 | 5 | 1.661.1611.50 |
| M20 x 1,5 | 7 – 12 | 6 | 33 | 22/22 | 10 | 1.661.2000.50 |
| M20 x 1,5 | 10 – 14 | 6 | 33 | 24/24 | 10 | 1.661.2016.50 |
| M25 x 1,5 | 14 – 18 | 7 | 37 | 30/30 | 12 | 1.661.2500.50 |
| M32 x 1,5 | 20 – 25 | 8 | 43 | 40/40 | 15 | 1.661.3200.50 |
| M40 x 1,5 | 24 – 32 | 8 | 50 | 50/50 | 15 | 1.661.4000.50 |
| PG 7 | 3 – 6,5 | 5 | 26 | 14/14 | 4 | 1.661.0700.01 |
| PG 9 | 4 – 8 | 6 | 28 | 17/17 | 6 | 1.661.0900.01 |
| PG 11 | 5 – 10 | 6 | 30 | 20/20 | 5 | 1.661.1100.01 |
| PG 13,5 | 7 – 12 | 6 | 33 | 22/22 | 8 | 1.661.1300.01 |
| PG 16 | 10 – 14 | 6 | 33 | 24/24 | 10 | 1.661.1600.01 |
| PG 21 | 13 – 18 | 7 | 37 | 30/30 | 12 | 1.661.2100.01 |
| PG 29 | 20 – 25 | 8 | 43 | 40/40 | 15 | 1.661.2900.01 |
| PG 36 | 24 – 32 | 8 | 50 | 50/50 | 15 | 1.661.3600.01 |
| PG 42 | 32 – 38 | 9 | 51 | 57/57 | 24 | 1.661.4200.01 |
| PG 48 | 37 – 44 | 10 | 52 | 64/64 | 30 | 1.661.4800.01 |
| NPT 3/8" | 4 – 8 | 15 | 28 | 17/19 | 6 | 1.661.3800.70 |
| NPT 1/2" | 7 – 12 | 13 | 33 | 22/24 | 8 | 1.661.1200.70 |
| NPT 3/4" | 13 – 18 | 13 | 37 | 30/30 | 12 | 1.661.3400.70 |



naar de montage-instructie





| | |
|----------------------|--|
| Materiaal | INOX 1.4305 |
| Materiaal binnenhuis | Polyamide VO volgens UL94 |
| Materiaal dichtring | NBR |
| Materiaal o-ring | NBR |
| Beschermingsklasse | IP 68 – 10 bar / IP 69 K |
| Ex-beschermingsgraad | II 2G Ex eb IIC Gb / II 1D Ex ta IIIC Da |
| NEMA type rating | 4 / 4X / 6 |
| Temperatuurbereik | -20°C tot +95°C / -60°C tot +95°C |

RoHS

| AG | ∅k mm | GL mm | H mm | SW1/SW2 mm | ⊕ Nm | Item nr. -20°C tot +95°C | Item nr. -60°C tot +95°C |
|-----------|----------|----------|---------|---------------|---------|-----------------------------|-----------------------------|
| M12 x 1,5 | 2 – 5 | 6,5 | 19 | 14/14 | 4 | 1.612.1200.51 | 1.642.1200.51 |
| M12 x 1,5 | 3 – 6,5 | 6,5 | 19 | 14/14 | 4 | 1.612.1200.50 | 1.642.1200.50 |
| M16 x 1,5 | 3 – 7 | 6 | 22 | 22/22 | 5 | 1.612.1600.51 | 1.642.1600.51 |
| M16 x 1,5 | 5 – 10 | 6 | 22 | 22/22 | 5 | 1.612.1600.50 | 1.642.1600.50 |
| M20 x 1,5 | 7 – 12 | 6 | 23 | 24/24 | 10 | 1.612.2000.51 | 1.642.2000.51 |
| M20 x 1,5 | 10 – 14 | 6 | 23 | 24/24 | 10 | 1.612.2000.50 | 1.642.2000.50 |
| M25 x 1,5 | 9 – 16 | 7 | 24 | 30/30 | 12 | 1.612.2500.51 | 1.642.2500.51 |
| M25 x 1,5 | 13 – 18 | 7 | 24 | 30/30 | 12 | 1.612.2500.50 | 1.642.2500.50 |
| M32 x 1,5 | 13 – 20 | 8 | 29 | 41/41 | 15 | 1.612.3200.51 | 1.642.3200.51 |
| M32 x 1,5 | 20 – 25 | 8 | 29 | 41/41 | 15 | 1.612.3200.50 | 1.642.3200.50 |
| M40 x 1,5 | 20 – 26 | 8 | 35 | 50/50 | 15 | 1.612.4000.51 | 1.642.4000.51 |
| M40 x 1,5 | 22 – 32 | 8 | 35 | 50/50 | 15 | 1.612.4000.50 | 1.642.4000.50 |
| PG 7 | 2 – 5 | 5 | 19 | 14/14 | 4 | 1.612.0700.15 | 1.642.0700.15 |
| PG 7 | 3 – 6,5 | 5 | 19 | 14/14 | 4 | 1.612.0700.01 | 1.642.0700.01 |
| PG 9 | 2 – 6 | 6 | 21 | 17/17 | 6 | 1.612.0900.15 | 1.642.0900.15 |
| PG 9 | 4 – 8 | 6 | 21 | 17/17 | 6 | 1.612.0900.01 | 1.642.0900.01 |
| PG 11 | 3 – 7 | 6 | 22 | 22/22 | 5 | 1.612.1100.15 | 1.642.1100.15 |
| PG 11 | 5 – 10 | 6 | 22 | 22/22 | 5 | 1.612.1100.01 | 1.642.1100.01 |
| PG 13,5 | 5 – 9 | 6 | 24 | 22/22 | 8 | 1.612.1300.15 | 1.642.1300.15 |
| PG 13,5 | 7 – 12 | 6 | 24 | 22/22 | 8 | 1.612.1300.01 | 1.642.1300.01 |
| PG 16 | 7 – 12 | 6 | 23 | 24/24 | 10 | 1.612.1600.15 | 1.642.1600.15 |
| PG 16 | 10 – 14 | 6 | 23 | 24/24 | 10 | 1.612.1600.01 | 1.642.1600.01 |
| PG 21 | 9 – 16 | 7 | 24 | 30/30 | 12 | 1.612.2100.15 | 1.642.2100.15 |
| PG 21 | 13 – 18 | 7 | 24 | 30/30 | 12 | 1.612.2100.01 | 1.642.2100.01 |
| PG 29 | 13 – 20 | 8 | 29 | 41/41 | 15 | 1.612.2900.15 | 1.642.2900.15 |
| PG 29 | 20 – 25 | 8 | 29 | 41/41 | 15 | 1.612.2900.01 | 1.642.2900.01 |
| PG 36 | 20 – 26 | 8 | 35 | 50/50 | 15 | 1.612.3600.15 | 1.642.3600.15 |
| PG 36 | 22 – 32 | 8 | 35 | 50/50 | 15 | 1.612.3600.01 | 1.642.3600.01 |

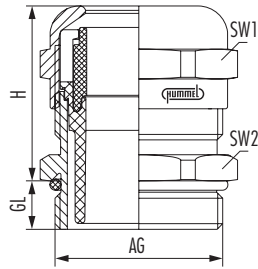


naar de montage-instructie

ATEX^{Ex}


Ex-Kabelwartels

HSK-INOX-PVDF-Ex (metrisch, PG)



| | |
|----------------------|--|
| Materiaal | INOX 1.4305 |
| Materiaal binnenhuis | PVDF |
| Materiaal dichtring | FKM |
| Materiaal o-ring | FKM |
| Beschermingsklasse | IP 68 – 10 bar / IP 69 K |
| Ex-beschermingsgraad | II 2G Ex eb IIC Gb / II 1D Ex ta IIIC Da |
| NEMA type rating | 4 / 4X / 6 |
| Temperatuurbereik | -20°C tot +130°C |

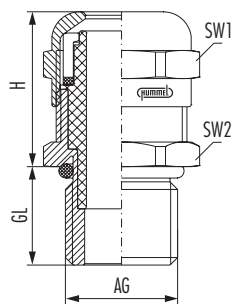
RoHS

| AG | ∅k mm | GL mm | H mm | SW1/SW2 mm |  Nm | Item nr. |
|-----------|----------|----------|---------|---------------|---|---------------|
| M12 x 1,5 | 2 – 5 | 6,5 | 19 | 14/14 | 4 | 1.662.1200.51 |
| M12 x 1,5 | 3 – 6,5 | 6,5 | 19 | 14/14 | 4 | 1.662.1200.50 |
| M16 x 1,5 | 3 – 7 | 6 | 22 | 22/22 | 5 | 1.662.1600.51 |
| M16 x 1,5 | 5 – 10 | 6 | 22 | 22/22 | 5 | 1.662.1600.50 |
| M20 x 1,5 | 7 – 12 | 6 | 23 | 24/24 | 10 | 1.662.2000.51 |
| M20 x 1,5 | 10 – 14 | 6 | 23 | 24/24 | 10 | 1.662.2000.50 |
| M25 x 1,5 | 9 – 16 | 7 | 24 | 30/30 | 12 | 1.662.2500.51 |
| M25 x 1,5 | 13 – 18 | 7 | 24 | 30/30 | 12 | 1.662.2500.50 |
| M32 x 1,5 | 13 – 20 | 8 | 29 | 41/41 | 15 | 1.662.3200.51 |
| M32 x 1,5 | 20 – 25 | 8 | 29 | 41/41 | 15 | 1.662.3200.50 |
| M40 x 1,5 | 20 – 26 | 8 | 35 | 50/50 | 15 | 1.662.4000.51 |
| M40 x 1,5 | 22 – 32 | 8 | 35 | 50/50 | 15 | 1.662.4000.50 |
| PG 7 | 2 – 5 | 5 | 19 | 14/14 | 4 | 1.662.0700.15 |
| PG 7 | 3 – 6,5 | 5 | 19 | 14/14 | 4 | 1.662.0700.01 |
| PG 9 | 2 – 6 | 6 | 21 | 17/17 | 6 | 1.662.0900.15 |
| PG 9 | 4 – 8 | 6 | 21 | 17/17 | 6 | 1.662.0900.01 |
| PG 11 | 3 – 7 | 6 | 22 | 22/22 | 5 | 1.662.1100.15 |
| PG 11 | 5 – 10 | 6 | 22 | 22/22 | 5 | 1.662.1100.01 |
| PG 13,5 | 5 – 9 | 6 | 24 | 22/22 | 8 | 1.662.1300.15 |
| PG 13,5 | 7 – 12 | 6 | 24 | 22/22 | 8 | 1.662.1300.01 |
| PG 16 | 7 – 12 | 6 | 23 | 24/24 | 10 | 1.662.1600.15 |
| PG 16 | 10 – 14 | 6 | 23 | 24/24 | 10 | 1.662.1600.01 |
| PG 21 | 9 – 16 | 7 | 24 | 30/30 | 12 | 1.662.2100.15 |
| PG 21 | 13 – 18 | 7 | 24 | 30/30 | 12 | 1.662.2100.01 |
| PG 29 | 13 – 20 | 8 | 29 | 41/41 | 15 | 1.662.2900.15 |
| PG 29 | 20 – 25 | 8 | 29 | 41/41 | 15 | 1.662.2900.01 |
| PG 36 | 20 – 26 | 8 | 35 | 50/50 | 15 | 1.662.3600.15 |
| PG 36 | 22 – 32 | 8 | 35 | 50/50 | 15 | 1.662.3600.01 |




naar de montage-instructie





| | |
|-----------------------------|--|
| Materiaal | Vernikkeld messing |
| Materiaal binnenhuis | Polyamide VO volgens UL94 |
| Materiaal dichtring | FKM |
| Materiaal o-ring | FKM |
| Beschermingsklasse | IP 68 – 10 bar / IP 69 K |
| Ex-beschermingsgraad | II 1D Ex ta IIIC Da / II 2G Ex db IIC Gb |
| Temperatuurbereik | -60°C tot +105°C |

RoHS

| AG | ∅k mm | GL mm | H mm | SW1/SW2 mm |  Nm | Item nr. |
|-----------|----------|----------|---------|---------------|---|---------------|
| M12 x 1,5 | 2 – 5 | 16 | 18,7 | 14/14 | 7,5 | 1.622.1200.51 |
| M12 x 1,5 | 3 – 6,5 | 16 | 18,7 | 14/14 | 7,5 | 1.622.1200.50 |
| M16 x 1,5 | 3 – 7 | 16 | 22 | 20/20 | 9 | 1.622.1600.51 |
| M16 x 1,5 | 5 – 10 | 16 | 22 | 20/20 | 9 | 1.622.1600.50 |
| M20 x 1,5 | 7 – 12 | 16 | 25 | 24/24 | 10 | 1.622.2000.51 |
| M20 x 1,5 | 10 – 14 | 16 | 25 | 24/24 | 10 | 1.622.2000.50 |
| M25 x 1,5 | 9 – 16 | 16 | 26,5 | 30/30 | 12 | 1.622.2500.51 |
| M25 x 1,5 | 13 – 18 | 16 | 26,5 | 30/30 | 12 | 1.622.2500.50 |
| M32 x 1,5 | 14 – 20 | 16 | 32 | 40/40 | 15 | 1.622.3200.51 |
| M32 x 1,5 | 18 – 25 | 16 | 32 | 40/40 | 15 | 1.622.3200.50 |
| M40 x 1,5 | 20 – 26 | 16 | 38,5 | 50/50 | 24 | 1.622.4000.51 |
| M40 x 1,5 | 22 – 32 | 16 | 38,5 | 50/50 | 24 | 1.622.4000.50 |

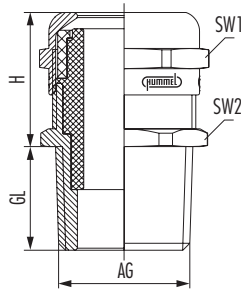


naar de montage-instructie




Ex-Kabelwartels

HSK-M-Ex d (NPT)



| | |
|-----------------------------|--|
| Materiaal | Vernikkeld messing |
| Materiaal binnenhuis | Polyamide VO volgens UL94 |
| Materiaal dichtring | FKM |
| Beschermingsklasse | IP 68 – 10 bar / IP 69 K |
| Ex-beschermingsgraad | II 1D Ex ta IIIC Da / II 2G Ex db IIC Gb |
| Temperatuurbereik | -60°C tot +105°C |

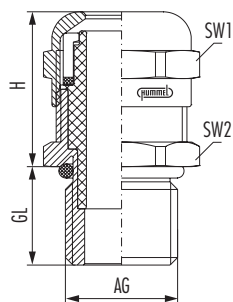
RoHS

| AG | ∅k mm | GL mm | H mm | SW1/SW2 mm |  Nm | Item nr. |
|------------|----------|----------|---------|---------------|---|---------------|
| NPT 3/8" | 3 – 7 | 16 | 22 | 20/20 | 9 | 1.622.3800.71 |
| NPT 3/8" | 5 – 10 | 16 | 22 | 20/20 | 9 | 1.622.3800.70 |
| NPT 1/2" | 7 – 12 | 20 | 25 | 24/24 | 10 | 1.622.1200.71 |
| NPT 1/2" | 10 – 14 | 20 | 25 | 24/24 | 10 | 1.622.1200.70 |
| NPT 3/4" | 9 – 16 | 20,5 | 26,5 | 30/30 | 12 | 1.622.3400.71 |
| NPT 3/4" | 13 – 18 | 20,5 | 26,5 | 30/30 | 12 | 1.622.3400.70 |
| NPT 1" | 14 – 20 | 25 | 32 | 40/40 | 15 | 1.622.1000.71 |
| NPT 1" | 18 – 25 | 25 | 32 | 40/40 | 15 | 1.622.1000.70 |
| NPT 1 1/4" | 20 – 26 | 26 | 38,5 | 50/50 | 24 | 1.622.5400.71 |
| NPT 1 1/4" | 22 – 32 | 26 | 38,5 | 50/50 | 24 | 1.622.5400.70 |
| NPT 1 1/2" | 20 – 26 | 26,5 | 38,5 | 50/50 | 24 | 1.622.6400.71 |
| NPT 1 1/2" | 22 – 32 | 26,5 | 38,5 | 50/50 | 24 | 1.622.6400.70 |




naar de montage-instructie





| | | |
|-----------------------------|--|-------------|
| Materiaal | Vernikkeld messing | RoHS |
| Materiaal binnenhuis | PVDF | |
| Materiaal dichtring | FKM | |
| Materiaal o-ring | FKM | |
| Beschermingsklasse | IP 68 – 10 bar / IP 69 K | |
| Ex-beschermingsgraad | II 1D Ex ta IIIC Da / II 2G Ex db IIC Gb | |
| Temperatuurbereik | -20°C tot +130°C | |

| AG | ∅k mm | GL mm | H mm | SW1/SW2 mm |  Nm | Item nr. |
|-----------|----------|----------|---------|---------------|---|---------------|
| M12 x 1,5 | 2 – 5 | 16 | 18,7 | 14/14 | 7,5 | 1.634.1200.51 |
| M12 x 1,5 | 3 – 6,5 | 16 | 18,7 | 14/14 | 7,5 | 1.634.1200.50 |
| M16 x 1,5 | 3 – 7 | 16 | 22 | 20/20 | 9 | 1.634.1600.51 |
| M16 x 1,5 | 5 – 10 | 16 | 22 | 20/20 | 9 | 1.634.1600.50 |
| M20 x 1,5 | 7 – 12 | 16 | 25 | 24/24 | 10 | 1.634.2000.51 |
| M20 x 1,5 | 10 – 14 | 16 | 25 | 24/24 | 10 | 1.634.2000.50 |
| M25 x 1,5 | 9 – 16 | 16 | 26,5 | 30/30 | 12 | 1.634.2500.51 |
| M25 x 1,5 | 13 – 18 | 16 | 26,5 | 30/30 | 12 | 1.634.2500.50 |
| M32 x 1,5 | 14 – 20 | 16 | 32 | 40/40 | 15 | 1.634.3200.51 |
| M32 x 1,5 | 18 – 25 | 16 | 32 | 40/40 | 15 | 1.634.3200.50 |
| M40 x 1,5 | 20 – 26 | 16 | 38,5 | 50/50 | 24 | 1.634.4000.51 |
| M40 x 1,5 | 22 – 32 | 16 | 38,5 | 50/50 | 24 | 1.634.4000.50 |
| NPT 3/8" | 3 – 7 | 16 | 22 | 20/20 | 9 | 1.634.3800.71 |
| NPT 3/8" | 5 – 10 | 16 | 22 | 20/20 | 9 | 1.634.3800.70 |
| NPT 1/2" | 7 – 12 | 20 | 25 | 24/24 | 10 | 1.634.1200.71 |
| NPT 1/2" | 10 – 14 | 20 | 25 | 24/24 | 10 | 1.634.1200.70 |
| NPT 3/4" | 9 – 16 | 20,5 | 26,5 | 30/30 | 12 | 1.634.3400.71 |
| NPT 3/4" | 13 – 18 | 20,5 | 26,5 | 30/30 | 12 | 1.634.3400.70 |

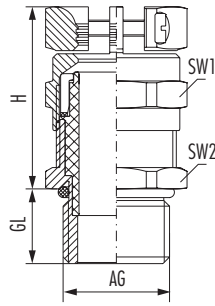


naar de montage-instructie




Ex-Kabelwartels

HSK-MZ-Ex d (metrisch, NPT)



| | |
|----------------------|--|
| Materiaal | Vernikkeld messing |
| Materiaal binnenhuis | Polyamide VO volgens UL94 |
| Materiaal dichtring | FKM |
| Materiaal o-ring | FKM |
| Beschermingsklasse | IP 68 – 10 bar / IP 69 K |
| Ex-beschermingsgraad | II 1D Ex ta IIIC Da / II 2G Ex db IIC Gb |
| Temperatuurbereik | -60°C tot +105°C |

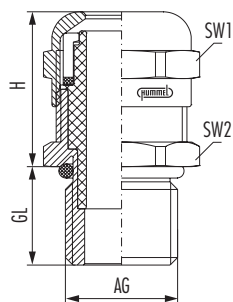
RoHS

| AG | ∅k mm | GL mm | H mm | SW1/SW2 mm |  Nm | Item nr. |
|------------|----------|----------|---------|---------------|---|---------------|
| M12 x 1,5 | 3 – 6,5 | 16 | 26 | 14/14 | 7,5 | 1.628.1200.50 |
| M16 x 1,5 | 5 – 10 | 16 | 30,2 | 20/20 | 9 | 1.628.1600.50 |
| M20 x 1,5 | 10 – 14 | 16 | 34 | 24/24 | 10 | 1.628.2000.50 |
| M25 x 1,5 | 13 – 18 | 16 | 37,8 | 30/30 | 12 | 1.628.2500.50 |
| M32 x 1,5 | 18 – 25 | 16 | 44 | 40/40 | 15 | 1.628.3200.50 |
| M40 x 1,5 | 22 – 32 | 16 | 51,5 | 50/50 | 24 | 1.628.4000.50 |
| NPT 3/8" | 5 – 10 | 16 | 30 | 20/20 | 9 | 1.628.3800.70 |
| NPT 1/2" | 10 – 14 | 20 | 33,6 | 24/24 | 10 | 1.628.1200.70 |
| NPT 3/4" | 13 – 18 | 20,5 | 37,8 | 30/30 | 12 | 1.628.3400.70 |
| NPT 1" | 18 – 25 | 25 | 44 | 40/40 | 15 | 1.628.1000.70 |
| NPT 1 1/4" | 22 – 32 | 25 | 51,5 | 50/50 | 24 | 1.628.5400.70 |
| NPT 1 1/2" | 22 – 32 | 26,5 | 51,5 | 50/50 | 24 | 1.628.6400.70 |




naar de montage-instructie





| | |
|-----------------------------|--|
| Materiaal | INOX 1.4404 |
| Materiaal binnenhuis | Polyamide VO volgens UL94 |
| Materiaal dichtring | FKM |
| Materiaal o-ring | FKM |
| Beschermingsklasse | IP 68 – 10 bar / IP 69 K |
| Ex-beschermingsgraad | II 1D Ex ta IIIC Da / II 2G Ex db IIC Gb |
| Temperatuurbereik | -60°C tot +105°C |

RoHS

| AG | ∅k mm | GL mm | H mm | SW1/SW2 mm |  Nm | Item nr. |
|-----------|----------|----------|---------|---------------|---|---------------|
| M12 x 1,5 | 2 – 5 | 16 | 19 | 14/14 | 7,5 | 1.632.1200.51 |
| M12 x 1,5 | 3 – 6,5 | 16 | 19 | 14/14 | 7,5 | 1.632.1200.50 |
| M16 x 1,5 | 3 – 7 | 16 | 22 | 22/22 | 9 | 1.632.1600.51 |
| M16 x 1,5 | 5 – 10 | 16 | 22 | 22/22 | 9 | 1.632.1600.50 |
| M20 x 1,5 | 7 – 12 | 16 | 25 | 24/24 | 10 | 1.632.2000.51 |
| M20 x 1,5 | 10 – 14 | 16 | 25 | 24/24 | 10 | 1.632.2000.50 |
| M25 x 1,5 | 9 – 16 | 14 | 26,5 | 30/30 | 12 | 1.632.2500.51 |
| M25 x 1,5 | 13 – 18 | 16 | 26,5 | 30/30 | 12 | 1.632.2500.50 |
| M32 x 1,5 | 14 – 20 | 16 | 32 | 40/40 | 15 | 1.632.3200.51 |
| M32 x 1,5 | 18 – 25 | 16 | 32 | 40/40 | 15 | 1.632.3200.50 |
| M40 x 1,5 | 20 – 26 | 16 | 38,5 | 50/50 | 24 | 1.632.4000.51 |
| M40 x 1,5 | 22 – 32 | 16 | 38,5 | 50/50 | 24 | 1.632.4000.50 |
| NPT 3/8" | 3 – 7 | 16 | 22 | 20/20 | 9 | 1.632.3800.71 |
| NPT 3/8" | 5 – 10 | 16 | 22 | 20/20 | 9 | 1.632.3800.70 |
| NPT 1/2" | 7 – 12 | 20 | 25 | 24/24 | 10 | 1.632.1200.71 |
| NPT 1/2" | 10 – 14 | 20 | 25 | 24/24 | 10 | 1.632.1200.70 |
| NPT 3/4" | 9 – 16 | 20,5 | 26,5 | 30/30 | 12 | 1.632.3400.71 |
| NPT 3/4" | 13 – 18 | 20,5 | 26,5 | 30/30 | 12 | 1.632.3400.70 |
| NPT 1" | 18 – 25 | 25 | 29 | 41/41 | 15 | 1.632.1000.70 |

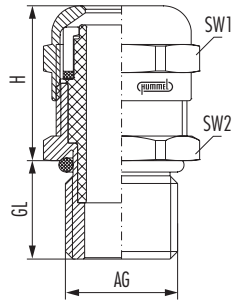


naar de montage-instructie




Ex-Kabelwartels

HSK-INOX-PVDF-Ex d (metrisch, NPT)



| | |
|----------------------|--|
| Materiaal | INOX 1.4404 |
| Materiaal binnenhuis | PVDF |
| Materiaal dichtring | FKM |
| Materiaal o-ring | FKM |
| Beschermingsklasse | IP 68 – 10 bar / IP 69 K |
| Ex-beschermingsgraad | II 1D Ex ta IIIC Da / II 2G Ex db IIC Gb |
| Temperatuurbereik | -20°C tot +130°C |

RoHS

| AG | ∅k mm | GL mm | H mm | SW1/SW2 mm |  Nm | Item nr. |
|-----------|----------|----------|---------|---------------|---|---------------|
| M12 x 1,5 | 2 – 5 | 16 | 19 | 14/14 | 7,5 | 1.633.1200.51 |
| M12 x 1,5 | 3 – 6,5 | 16 | 19 | 14/14 | 7,5 | 1.633.1200.50 |
| M16 x 1,5 | 3 – 7 | 16 | 22 | 20/20 | 9 | 1.633.1600.51 |
| M16 x 1,5 | 5 – 10 | 16 | 22 | 20/20 | 9 | 1.633.1600.50 |
| M20 x 1,5 | 7 – 12 | 16 | 25 | 24/24 | 10 | 1.633.2000.51 |
| M20 x 1,5 | 10 – 14 | 16 | 25 | 24/24 | 10 | 1.633.2000.50 |
| M25 x 1,5 | 9 – 16 | 16 | 26,5 | 30/30 | 12 | 1.633.2500.51 |
| M25 x 1,5 | 13 – 18 | 16 | 26,5 | 30/30 | 12 | 1.633.2500.50 |
| M32 x 1,5 | 14 – 20 | 16 | 32 | 40/40 | 15 | 1.633.3200.51 |
| M32 x 1,5 | 18 – 25 | 16 | 32 | 40/40 | 15 | 1.633.3200.50 |
| M40 x 1,5 | 20 – 26 | 16 | 38,5 | 50/50 | 24 | 1.633.4000.51 |
| M40 x 1,5 | 22 – 32 | 16 | 38,5 | 50/50 | 24 | 1.633.4000.50 |
| NPT 3/8" | 3 – 7 | 16 | 22 | 20/20 | 9 | 1.633.3800.71 |
| NPT 3/8" | 5 – 10 | 16 | 22 | 20/20 | 9 | 1.633.3800.70 |
| NPT 1/2" | 7 – 12 | 20 | 25 | 24/24 | 10 | 1.633.1200.71 |
| NPT 1/2" | 10 – 14 | 20 | 25 | 24/24 | 10 | 1.633.1200.70 |
| NPT 3/4" | 9 – 16 | 20,5 | 26,5 | 30/30 | 12 | 1.633.3400.71 |
| NPT 3/4" | 13 – 18 | 20,5 | 26,5 | 30/30 | 12 | 1.633.3400.70 |



naar de montage-instructie



EMC-Ex E KABELWARTELS

Veilige EMC-bescherming plus Ex-toelating: dit is wat de EMC-Ex e-kabelwartels bieden. Ook hier biedt HUMMEL uitvoeringen voor bijzondere eisen. Zoals kabelwartels voor toepassingen bij hoge temperaturen, ontwerpen die zich eenvoudig laten monteren en ook uitvoeringen in roestvaststaal.

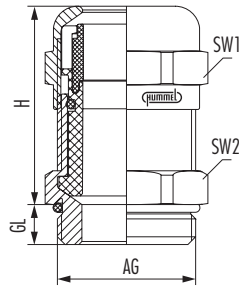
- // HSK-M-EMC-Ex: kabelwartels met zeer goede demping
- // HSK-M-EMC-D-Ex: snelle en eenvoudige montage, gecombineerd met maximale EMC-bescherming
- // HSK-M-PVDF-EMC-Ex: kabelwartel voor hoge temperaturen met EMC-demping en Ex-bescherming
- // HSK-INOX-EMC-Ex: kabelwartel van roestvaststaal
- // HSK-MZ-EMC-Ex: kabelwartel met hoge trektoelasting, EMC en Ex-bescherming

HUMMEL heeft een jarenlange ervaring met componenten voor explosiegevaarlijke omgevingen. Daarom bieden wij een geperfectioneerd assortiment Ex-producten in diverse materialen en uitvoeringen.



EMC-Ex e Kabelwartels

HSK-M-EMC-D-Ex (metrisch, PG)



| | |
|----------------------|--|
| Materiaal | Vernikkeld messing |
| Materiaal binnenhuis | Vernikkeld polyamide |
| Materiaal dichtring | NBR |
| Materiaal o-ring | NBR |
| Beschermingsklasse | IP 68 – 10 bar / IP 69 K |
| Ex-beschermingsgraad | II 2G Ex eb IIC Gb / II 1D Ex ta IIIC Da |
| Temperatuurbereik | -20°C tot +95°C / -60°C tot +95°C |

RoHS

EMV
EMC

// Lang aansluitschroefdraad op aanvraag

| AG | ∅* mm | GL mm | H mm | SW1/SW2 mm | ⊕ Nm | Item nr. -20°C tot +95°C | Item nr. -60°C tot +95°C |
|-----------|----------|----------|---------|---------------|---------|-----------------------------|-----------------------------|
| M16 x 1,5 | 5 – 10 | 6 | 29 | 20/20 | 11 | 1.636.1600.50 | 1.637.1600.50 |
| M16 x 1,5 | 5 – 10 | 10 | 29 | 20/20 | 11 | 1.636.1600.30 | 1.637.1600.30 |
| M20 x 1,5 | 10 – 14 | 6 | 31 | 24/24 | 13 | 1.636.2000.50 | 1.637.2000.50 |
| M20 x 1,5 | 10 – 14 | 10 | 31 | 24/24 | 13 | 1.636.2000.30 | 1.637.2000.30 |
| M25 x 1,5 | 13 – 18 | 7 | 38 | 30/30 | 15 | 1.636.2500.50 | 1.637.2500.50 |
| M25 x 1,5 | 13 – 18 | 12 | 38 | 30/30 | 15 | 1.636.2500.30 | 1.637.2500.30 |
| M32 x 1,5 | 18 – 25 | 8 | 43 | 40/40 | 17,5 | 1.636.3200.50 | 1.637.3200.50 |
| M32 x 1,5 | 18 – 25 | 12 | 43 | 40/40 | 17,5 | 1.636.3200.30 | 1.637.3200.30 |
| M40 x 1,5 | 24 – 32 | 8 | 51 | 50/50 | 25 | 1.636.4000.50 | 1.637.4000.50 |
| M40 x 1,5 | 24 – 32 | 15 | 51 | 50/50 | 25 | 1.636.4000.30 | 1.637.4000.30 |
| PG 11 | 5 – 10 | 6 | 29 | 20/20 | 11 | 1.636.1100.01 | 1.637.1100.01 |
| PG 13,5 | 7 – 12 | 6,5 | 31 | 22/22 | 12 | 1.636.1300.01 | 1.637.1300.01 |
| PG 16 | 10 – 14 | 6,5 | 32 | 24/24 | 13 | 1.636.1600.01 | 1.637.1600.01 |
| PG 21 | 13 – 18 | 7 | 38 | 30/30 | 15 | 1.636.2100.01 | 1.637.2100.01 |
| PG 29 | 18 – 25 | 8 | 43 | 40/40 | 17,5 | 1.636.2900.01 | 1.637.2900.01 |
| PG 36 | 24 – 32 | 8 | 48 | 50/50 | 25 | 1.636.3600.01 | 1.637.3600.01 |

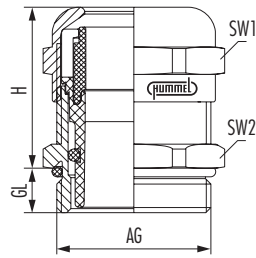


naar de productvideo



naar de montage-instructie






| | |
|----------------------|--|
| Materiaal | Vernikkeld messing |
| Materiaal binnenhuis | Polyamide VO volgens UL94 |
| Materiaal dichtring | NBR |
| Materiaal o-ring | NBR |
| Beschermingsklasse | IP 68 – 10 bar / IP 69 K |
| Ex-beschermingsgraad | II 2G Ex eb IIC Gb / II 1D Ex ta IIIC Da |
| NEMA type rating | 4 / 4X / 6 |
| Temperatuurbereik | -60°C tot +95°C / -20°C tot +95°C |

RoHS

EMV
EMC

// Lang aansluit Schroefdraad op aanvraag

| AG | ∅k mm | GL mm | H mm | SW1/SW2 mm |  Nm | Item nr. -20°C tot +95°C | Item nr. -60°C tot +95°C |
|-----------|----------|----------|---------|---------------|--|-----------------------------|-----------------------------|
| M12 x 1,5 | 2 – 5 | 6,5 | 19 | 14/14 | 4 | 1.616.1200.51 | 1.646.1200.51 |
| M12 x 1,5 | 3 – 6,5 | 6,5 | 19 | 14/14 | 4 | 1.616.1200.50 | 1.646.1200.50 |
| M16 x 1,5 | 3 – 7 | 6 | 22 | 20/20 | 5 | 1.616.1600.51 | 1.646.1600.51 |
| M16 x 1,5 | 5 – 10 | 6 | 22 | 20/20 | 5 | 1.616.1600.50 | 1.646.1600.50 |
| M20 x 1,5 | 7 – 12 | 6 | 23 | 24/24 | 10 | 1.616.2000.51 | 1.646.2000.51 |
| M20 x 1,5 | 10 – 14 | 6 | 23 | 24/24 | 10 | 1.616.2000.50 | 1.646.2000.50 |
| M25 x 1,5 | 10 – 16 | 7 | 24 | 30/30 | 12 | 1.616.2500.51 | 1.646.2500.51 |
| M25 x 1,5 | 14 – 18 | 7 | 24 | 30/30 | 12 | 1.616.2500.50 | 1.646.2500.50 |
| M32 x 1,5 | 13 – 20 | 8 | 31 | 40/40 | 15 | 1.616.3200.51 | 1.646.3200.51 |
| M32 x 1,5 | 20 – 25 | 8 | 31 | 40/40 | 15 | 1.616.3200.50 | 1.646.3200.50 |
| M40 x 1,5 | 20 – 26 | 8 | 37 | 50/50 | 15 | 1.616.4000.51 | 1.646.4000.51 |
| M40 x 1,5 | 22 – 32 | 8 | 37 | 50/50 | 15 | 1.616.4000.50 | 1.646.4000.50 |
| M50 x 1,5 | 25 – 31 | 9 | 37 | 57/57 | 24 | 1.616.5000.51 | 1.646.5000.51 |
| M50 x 1,5 | 32 – 38 | 9 | 37 | 57/57 | 24 | 1.616.5000.50 | 1.646.5000.50 |
| M63 x 1,5 | 29 – 35 | 10 | 38 | 64/68 | 30 | 1.616.6300.51 | 1.646.6300.51 |
| M63 x 1,5 | 37 – 44 | 10 | 38 | 64/68 | 30 | 1.616.6300.50 | 1.646.6300.50 |

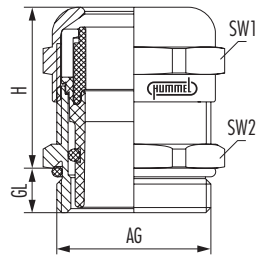


naar de productvideo

naar de montage-in-
structie

EMC-Ex e Kabelwartels

HSK-M-EMC-Ex (PG)



| | |
|----------------------|--|
| Materiaal | Vernikkeld messing |
| Materiaal binnenhuis | Polyamide VO volgens UL94 |
| Materiaal dichtring | NBR |
| Materiaal o-ring | NBR |
| Beschermingsklasse | IP 68 – 10 bar / IP 69 K |
| Ex-beschermingsgraad | II 2G Ex eb IIC Gb / II 1D Ex ta IIIC Da |
| NEMA type rating | 4 / 4X / 6 |
| Temperatuurbereik | -20°C tot +95°C / -60°C tot +95°C |

RoHS

EMV
EMC

// Lang aansluit Schroefdraad op aanvraag

| AG | ∅k mm | GL mm | H mm | SW1/SW2 mm | ⊕ Nm | Item nr. -20°C tot +95°C | Item nr. -60°C tot +95°C |
|---------|----------|----------|---------|---------------|---------|-----------------------------|-----------------------------|
| PG 7 | 2 – 5 | 5 | 19 | 14/14 | 4 | 1.616.0700.15 | 1.646.0700.15 |
| PG 7 | 3 – 6,5 | 5 | 19 | 14/14 | 4 | 1.616.0700.01 | 1.646.0700.01 |
| PG 9 | 2 – 6 | 6 | 21 | 17/17 | 6 | 1.616.0900.15 | 1.646.0900.15 |
| PG 9 | 4 – 8 | 6 | 21 | 17/17 | 6 | 1.616.0900.01 | 1.646.0900.01 |
| PG 11 | 3 – 7 | 6 | 22 | 20/20 | 5 | 1.616.1100.15 | 1.646.1100.15 |
| PG 11 | 5 – 10 | 6 | 22 | 20/20 | 5 | 1.616.1100.01 | 1.646.1100.01 |
| PG 13,5 | 5 – 9 | 6,5 | 24 | 22/22 | 8 | 1.616.1300.15 | 1.646.1300.15 |
| PG 13,5 | 6 – 12 | 6,5 | 24 | 22/22 | 8 | 1.616.1300.01 | 1.646.1300.01 |
| PG 16 | 7 – 12 | 6,5 | 23 | 24/24 | 10 | 1.616.1600.15 | 1.646.1600.15 |
| PG 16 | 10 – 14 | 6,5 | 23 | 24/24 | 10 | 1.616.1600.01 | 1.646.1600.01 |
| PG 21 | 10 – 16 | 7 | 24 | 30/30 | 12 | 1.616.2100.15 | 1.646.2100.15 |
| PG 21 | 14 – 18 | 7 | 24 | 30/30 | 12 | 1.616.2100.01 | 1.646.2100.01 |
| PG 29 | 13 – 20 | 8 | 29 | 40/40 | 15 | 1.616.2900.15 | 1.646.2900.15 |
| PG 29 | 20 – 25 | 8 | 29 | 40/40 | 15 | 1.616.2900.01 | 1.646.2900.01 |
| PG 36 | 20 – 26 | 8 | 35 | 50/50 | 15 | 1.616.3600.15 | 1.646.3600.15 |
| PG 36 | 22 – 32 | 8 | 35 | 50/50 | 15 | 1.616.3600.01 | 1.646.3600.01 |
| PG 42 | 25 – 31 | 9 | 37 | 57/57 | 24 | 1.616.4200.15 | 1.646.4200.15 |
| PG 42 | 32 – 38 | 9 | 37 | 57/57 | 24 | 1.616.4200.01 | 1.646.4200.01 |
| PG 48 | 29 – 35 | 10 | 38 | 64/64 | 30 | 1.616.4800.15 | 1.646.4800.15 |
| PG 48 | 37 – 44 | 10 | 38 | 64/64 | 30 | 1.616.4800.01 | 1.646.4800.01 |

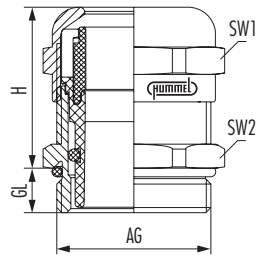


naar de productvideo



naar de montage-instructie





| | |
|----------------------|--|
| Materiaal | Vernikkeld messing |
| Materiaal binnenhuis | Polyamide VO volgens UL94 |
| Materiaal dichtring | NBR |
| Materiaal o-ring | NBR |
| Beschermingsklasse | IP 68 – 10 bar / IP 69 K |
| Ex-beschermingsgraad | II 2G Ex eb IIC Gb / II 1D Ex ta IIIC Da |
| NEMA type rating | 4 / 4X / 6 |
| Temperatuurbereik | -20°C tot +95°C / -60°C tot +95°C |

RoHS

EMV
EMC

// Lang aansluitschroefdraad op aanvraag

| AG | ∅ mm | GL mm | H mm | SW1/SW2 mm | ⊕ Nm | Item nr. -20°C tot +95°C | Item nr. -60°C tot +95°C |
|----------|---------|----------|---------|---------------|---------|-----------------------------|-----------------------------|
| NPT 3/8" | 2 – 6 | 15 | 21 | 17/19 | 6 | 1.616.3800.71 | 1.646.3800.71 |
| NPT 3/8" | 4 – 8 | 15 | 21 | 17/19 | 6 | 1.616.3800.70 | 1.646.3800.70 |
| NPT 1/2" | 5 – 9 | 13 | 24 | 22/24 | 8 | 1.616.1200.71 | 1.646.1200.71 |
| NPT 1/2" | 6 – 12 | 13 | 24 | 22/24 | 8 | 1.616.1200.70 | 1.646.1200.70 |
| NPT 3/4" | 10 – 16 | 13 | 25 | 30/30 | 12 | 1.616.3400.71 | 1.646.3400.71 |
| NPT 3/4" | 14 – 18 | 13 | 25 | 30/30 | 12 | 1.616.3400.70 | 1.646.3400.70 |

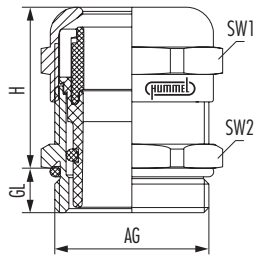


naar de productvideo

naar de montage-in-
structie

EMC-Ex e Kabelwartels

HSK-M-EMC-PVDF-Ex (PG, NPT)




| | |
|----------------------|--|
| Materiaal | Vernikkeld messing |
| Materiaal binnenhuis | PVDF |
| Materiaal dichtring | FKM |
| Materiaal o-ring | FKM |
| Beschermingsklasse | IP 68 – 10 bar / IP 69 K |
| Ex-beschermingsgraad | II 2G Ex eb IIC Gb / II 1D Ex ta IIIC Da |
| NEMA type rating | 4 / 4X / 6 |
| Temperatuurbereik | -20°C tot +130°C |

RoHS

EMV
EMC

// Lang aansluitschroefdraad op aanvraag

| AG | ∅k mm | GL mm | H mm | SW1/SW2 mm |  Nm | Item nr. |
|----------|----------|----------|---------|---------------|---|---------------|
| PG 7 | 2 – 5 | 5 | 19 | 14/14 | 4 | 1.666.0700.15 |
| PG 7 | 3 – 6,5 | 5 | 19 | 14/14 | 4 | 1.666.0700.01 |
| PG 9 | 2 – 6 | 6 | 21 | 17/17 | 6 | 1.666.0900.15 |
| PG 9 | 4 – 8 | 6 | 21 | 17/17 | 6 | 1.666.0900.01 |
| PG 11 | 3 – 7 | 6 | 22 | 20/20 | 5 | 1.666.1100.15 |
| PG 11 | 5 – 10 | 6 | 22 | 20/20 | 5 | 1.666.1100.01 |
| PG 13,5 | 5 – 9 | 6,5 | 24 | 22/22 | 8 | 1.666.1300.15 |
| PG 13,5 | 6 – 12 | 6,5 | 24 | 22/22 | 8 | 1.666.1300.01 |
| PG 16 | 7 – 12 | 6,5 | 23 | 24/24 | 10 | 1.666.1600.15 |
| PG 16 | 10 – 14 | 6,5 | 23 | 24/24 | 10 | 1.666.1600.01 |
| PG 21 | 10 – 16 | 7 | 24 | 30/30 | 12 | 1.666.2100.15 |
| PG 21 | 14 – 18 | 7 | 24 | 30/30 | 12 | 1.666.2100.01 |
| PG 29 | 13 – 20 | 8 | 29 | 40/40 | 15 | 1.666.2900.15 |
| PG 29 | 20 – 25 | 8 | 29 | 40/40 | 15 | 1.666.2900.01 |
| PG 36 | 20 – 26 | 8 | 35 | 50/50 | 15 | 1.666.3600.15 |
| PG 36 | 22 – 32 | 8 | 35 | 50/50 | 15 | 1.666.3600.01 |
| PG 42 | 25 – 31 | 8 | 35 | 50/50 | 24 | 1.666.4200.15 |
| PG 42 | 32 – 38 | 8 | 35 | 50/50 | 24 | 1.666.4200.01 |
| PG 48 | 29 – 35 | 8 | 35 | 50/50 | 30 | 1.666.4800.15 |
| PG 48 | 37 – 44 | 8 | 35 | 50/50 | 30 | 1.666.4800.01 |
| | | | | | | |
| NPT 3/8" | 2 – 6 | 15 | 21 | 17/19 | 6 | 1.666.3800.71 |
| NPT 3/8" | 4 – 8 | 15 | 21 | 17/19 | 6 | 1.666.3800.70 |
| NPT 1/2" | 5 – 9 | 13 | 24 | 22/24 | 8 | 1.666.1200.71 |
| NPT 1/2" | 6 – 12 | 13 | 24 | 22/24 | 8 | 1.666.1200.70 |
| NPT 3/4" | 10 – 16 | 13 | 25 | 30/30 | 12 | 1.666.3400.71 |
| NPT 3/4" | 14 – 18 | 13 | 25 | 30/30 | 12 | 1.666.3400.70 |

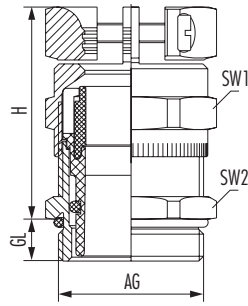


naar de productvideo



naar de montage-instructie





| | |
|----------------------|--|
| Materiaal | Vernikkeld messing |
| Materiaal binnenhuis | Polyamide VO volgens UL94 |
| Materiaal dichtring | NBR |
| Materiaal o-ring | NBR |
| Beschermingsklasse | IP 68 – 10 bar / IP 69 K |
| Ex-beschermingsgraad | II 2G Ex eb IIC Gb / II 1D Ex ta IIIC Da |
| NEMA type rating | 4 / 4X / 6 |
| Temperatuurbereik | -20°C tot +95°C / -60°C tot +95°C |

RoHS

EMV
EMC

// Lang aansluit Schroefdraad op aanvraag

| AG | ∅k mm | GL mm | H mm | SW1/SW2 mm | ⊕ Nm | Item nr. -20°C tot +95°C | Item nr. -60°C tot +95°C |
|-----------|----------|----------|---------|---------------|---------|-----------------------------|-----------------------------|
| M12 x 1,5 | 3 – 6,5 | 6,5 | 26 | 14/14 | 4 | 1.617.1200.50 | 1.647.1200.50 |
| M16 x 1,5 | 5 – 10 | 6 | 29 | 20/20 | 5 | 1.617.1600.50 | 1.647.1600.50 |
| M20 x 1,5 | 10 – 14 | 6 | 32 | 24/24 | 10 | 1.617.2000.50 | 1.647.2000.50 |
| M25 x 1,5 | 14 – 18 | 7 | 35 | 30/30 | 12 | 1.617.2500.50 | 1.647.2500.50 |
| M32 x 1,5 | 20 – 25 | 8 | 41 | 40/40 | 15 | 1.617.3200.50 | 1.647.3200.50 |
| M40 x 1,5 | 24 – 32 | 8 | 48 | 50/50 | 15 | 1.617.4000.50 | 1.647.4000.50 |
| M50 x 1,5 | 28 – 31 | 9 | 51 | 57/57 | 24 | 1.617.5000.51 | 1.647.5000.51 |
| M50 x 1,5 | 32 – 38 | 9 | 51 | 57/57 | 24 | 1.617.5000.50 | 1.647.5000.50 |
| M63 x 1,5 | 32 – 35 | 10 | 52 | 68/68 | 30 | 1.617.6300.51 | 1.647.6300.51 |
| M63 x 1,5 | 37 – 44 | 10 | 52 | 68/68 | 30 | 1.617.6300.50 | 1.647.6300.50 |
| PG 7 | 3 – 6,5 | 5 | 26 | 14/14 | 4 | 1.617.0700.01 | 1.647.0700.01 |
| PG 9 | 4 – 8 | 6 | 28 | 17/17 | 6 | 1.617.0900.01 | 1.647.0900.01 |
| PG 11 | 5 – 10 | 6 | 29 | 20/20 | 5 | 1.617.1100.01 | 1.647.1100.01 |
| PG 13,5 | 7 – 12 | 6,5 | 33 | 22/22 | 8 | 1.617.1300.01 | 1.647.1300.01 |
| PG 16 | 10 – 14 | 6,5 | 32 | 24/24 | 10 | 1.617.1600.01 | 1.647.1600.01 |
| PG 21 | 13 – 18 | 7 | 35 | 30/30 | 12 | 1.617.2100.01 | 1.647.2100.01 |
| PG 29 | 20 – 25 | 8 | 41 | 40/40 | 15 | 1.617.2900.01 | 1.647.2900.01 |
| PG 36 | 24 – 32 | 8 | 48 | 50/50 | 15 | 1.617.3600.01 | 1.647.3600.01 |
| PG 42 | 28 – 31 | 9 | 51 | 57/57 | 24 | 1.617.4200.15 | 1.647.4200.15 |
| PG 42 | 32 – 38 | 9 | 51 | 57/57 | 24 | 1.617.4200.01 | 1.647.4200.01 |
| PG 48 | 32 – 35 | 10 | 51 | 64/64 | 30 | 1.617.4800.15 | 1.647.4800.15 |
| PG 48 | 37 – 44 | 10 | 51 | 64/64 | 30 | 1.617.4800.01 | 1.647.4800.01 |
| NPT 3/8" | 4 – 8 | 15 | 27 | 17/19 | 6 | 1.617.3800.70 | 1.647.3800.70 |
| NPT 1/2" | 7 – 12 | 13 | 31 | 22/24 | 8 | 1.617.1200.70 | 1.647.1200.70 |
| NPT 3/4" | 13 – 18 | 13 | 36 | 30/30 | 12 | 1.617.3400.70 | 1.647.3400.70 |



naar de productvideo

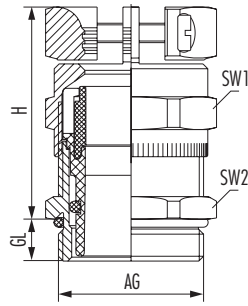


naar de montage-instructie



EMC-Ex e Kabelwartels

HSK-MZ-EMC-PVDF-Ex (PG, NPT)




| | |
|----------------------|--|
| Materiaal | Vernikkeld messing |
| Materiaal binnenhuis | PVDF |
| Materiaal dichtring | FKM |
| Materiaal o-ring | FKM |
| Beschermingsklasse | IP 68 – 10 bar / IP 69 K |
| Ex-beschermingsgraad | II 2G Ex eb IIC Gb / II 1D Ex ta IIIC Da |
| NEMA type rating | 4 / 4X / 6 |
| Temperatuurbereik | -20°C tot +130°C |

RoHS

EMV
EMC

// Lang aansluitschroefdraad op aanvraag

| AG | ∅k mm | GL mm | H mm | SW1/SW2 mm |  Nm | Item nr. |
|----------|----------|----------|---------|---------------|---|---------------|
| PG 7 | 3 – 6,5 | 5 | 26 | 14/14 | 4 | 1.667.0700.01 |
| PG 9 | 4 – 8 | 6 | 28 | 17/17 | 6 | 1.667.0900.01 |
| PG 11 | 5 – 10 | 6 | 29 | 20/20 | 5 | 1.667.1100.01 |
| PG 13,5 | 7 – 12 | 6,5 | 33 | 22/22 | 8 | 1.667.1300.01 |
| PG 16 | 10 – 14 | 6,5 | 32 | 24/24 | 10 | 1.667.1600.01 |
| PG 21 | 13 – 18 | 7 | 35 | 30/30 | 12 | 1.667.2100.01 |
| PG 29 | 20 – 25 | 8 | 41 | 40/40 | 15 | 1.667.2900.01 |
| PG 36 | 24 – 32 | 8 | 48 | 50/50 | 15 | 1.667.3600.01 |
| PG 42 | 28 – 31 | 9 | 51 | 57/57 | 24 | 1.667.4200.15 |
| PG 42 | 32 – 38 | 9 | 51 | 57/57 | 24 | 1.667.4200.01 |
| PG 48 | 32 – 35 | 10 | 51 | 64/64 | 24 | 1.667.4800.15 |
| PG 48 | 37 – 44 | 10 | 51 | 64/64 | 30 | 1.667.4800.01 |
| NPT 3/8" | 4 – 8 | 15 | 27 | 17/19 | 6 | 1.667.3800.70 |
| NPT 1/2" | 7 – 12 | 13 | 31 | 22/24 | 8 | 1.667.1200.70 |
| NPT 3/4" | 13 – 18 | 13 | 36 | 30/30 | 12 | 1.667.3400.70 |

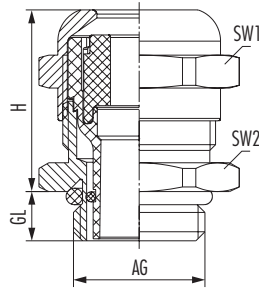


naar de productvideo



naar de montage-instructie






| | |
|----------------------|--|
| Materiaal | INOX 1.4305 |
| Materiaal binnenhuis | Polyamide VO volgens UL94 |
| Materiaal dichtring | NBR |
| Materiaal o-ring | NBR |
| Beschermingsklasse | IP 68 – 10 bar / IP 69 K |
| Ex-beschermingsgraad | II 2G Ex eb IIC Gb / II 1D Ex ta IIIC Da |
| NEMA type rating | 4 / 4X / 6 |
| Temperatuurbereik | -60°C tot +95°C |

RoHS

EMV
EMC

// Lang aansluitschroefdraad op aanvraag

| AG | ∅k mm | GL mm | H mm | SW1/SW2 mm |  Nm | Item nr. |
|-----------|----------|----------|---------|---------------|---|---------------|
| M12 x 1,5 | 2 – 5 | 6,5 | 19 | 14/14 | 4 | 1.673.1200.51 |
| M12 x 1,5 | 3 – 6,5 | 6,5 | 19 | 14/14 | 4 | 1.673.1200.50 |
| M16 x 1,5 | 3 – 7 | 6 | 21 | 22/22 | 5 | 1.673.1600.51 |
| M16 x 1,5 | 5 – 10 | 6 | 21 | 22/22 | 5 | 1.673.1600.50 |
| M20 x 1,5 | 7 – 12 | 6 | 23 | 24/24 | 10 | 1.673.2000.51 |
| M20 x 1,5 | 10 – 14 | 6 | 23 | 24/24 | 10 | 1.673.2000.50 |
| M25 x 1,5 | 9 – 16 | 7 | 26 | 30/30 | 12 | 1.673.2500.51 |
| M25 x 1,5 | 13 – 18 | 7 | 26 | 30/30 | 12 | 1.673.2500.50 |
| M32 x 1,5 | 13 – 20 | 8 | 31 | 41/41 | 15 | 1.673.3200.51 |
| M32 x 1,5 | 18 – 25 | 8 | 31 | 41/41 | 15 | 1.673.3200.50 |
| M40 x 1,5 | 20 – 26 | 8 | 37 | 50/50 | 15 | 1.673.4000.51 |
| M40 x 1,5 | 22 – 32 | 8 | 37 | 50/50 | 15 | 1.673.4000.50 |
| PG 7 | 2 – 5 | 5 | 19 | 14/14 | 4 | 1.673.0700.15 |
| PG 7 | 3 – 6,5 | 5 | 19 | 14/14 | 4 | 1.673.0700.01 |
| PG 9 | 2 – 6 | 6 | 21 | 17/17 | 6 | 1.673.0900.15 |
| PG 9 | 4 – 8 | 6 | 21 | 17/17 | 6 | 1.673.0900.01 |
| PG 11 | 3 – 7 | 6 | 22 | 22/22 | 5 | 1.673.1100.15 |
| PG 11 | 5 – 10 | 6 | 22 | 22/22 | 5 | 1.673.1100.01 |
| PG 13,5 | 5 – 9 | 6,5 | 24 | 22/22 | 8 | 1.673.1300.15 |
| PG 13,5 | 6 – 12 | 6,5 | 24 | 22/22 | 8 | 1.673.1300.01 |
| PG 16 | 7 – 12 | 6,5 | 23 | 24/24 | 10 | 1.673.1600.15 |
| PG 16 | 10 – 14 | 6,5 | 23 | 24/24 | 10 | 1.673.1600.01 |
| PG 21 | 9 – 16 | 7 | 24 | 30/30 | 12 | 1.673.2100.15 |
| PG 21 | 13 – 18 | 7 | 24 | 30/30 | 12 | 1.673.2100.01 |
| PG 29 | 13 – 20 | 8 | 29 | 41/41 | 15 | 1.673.2900.15 |
| PG 29 | 18 – 25 | 8 | 29 | 41/41 | 15 | 1.673.2900.01 |
| PG 36 | 20 – 26 | 8 | 35 | 50/50 | 15 | 1.673.3600.15 |
| PG 36 | 22 – 32 | 8 | 35 | 50/50 | 15 | 1.673.3600.01 |



naar de productvideo

naar de montage-in-
structie

GESCHIEDENIS

70 jaar HUMMEL: Dit is de geschiedenis over hoe een klein ambachtsbedrijf zich in de jaren na de oorlog ontwikkelde tot een internationaal succesvolle familieonderneming met technologieën en producten voor de industrie van morgen.

1948

Anton Hummel richt de Anton Hummel Metallwarenfabrik op in Altsimonswald in het Zwarte Woud. Hier worden metalen draaiende onderdelen geproduceerd voor producten voor dagelijks gebruik.

1951

Aanvang van de productie van kabelwartels. De ervaring met de productie van moeren en schroeven vormt de basis van de ontwikkeling van kabelwartels. Tot op de dag van vandaag is dit een van de meest succesvolle productsegmenten van HUMMEL.

1952

Verhuizing van Altsimonswald naar Waldkirch. Daar bouwt HUMMEL een hal, waarin productie, opslag en beheer zijn ondergebracht. Parallel begint de productie van ontluchtingsventielen voor radiatoren.

1970

Begin van de kunststofproductie in Waldkirch. Eerder werden onderdelen van de metaalverwerking verplaatst naar Kenzingen-Nordweil. Het draaibare ontluchtingsventiel werd gepatenteerd en in de jaren daarna miljoenen malen verkocht.

1972

Helmut Hummel wordt bedrijfsleider van Anton Hummel Metallwarenfabrik GmbH. De tweede generatie neemt de verantwoording voor de opbloeiende familieonderneming.

1994

HUMMEL bouwt in Denzlingen een logistiek centrum voor de sector elektrotechniek. Dat is het startschot voor nog veel meer bouwfasen op de nieuwe locatie. Parallel werden kabelwartels voor potentieel explosieveilige omgevingen op de markt gebracht.

1999

Met de oprichting van HUMMEL China werd er een begin gemaakt met internationalisering. Daarna volgden vestigingen in Italië, Brazilië en Rusland alsook distributiekantoren in Zweden en Engeland. In het hoofdkantoor werd ondertussen begonnen met de ontwikkeling van ronde connectoren.

2008

De maatschappelijke zetel wordt verplaatst van Waldkirch naar Denzlingen. Eerder is een nieuw administratief gebouw opgericht, een volautomatisch hogestellingenmagazijn gebouwd en de productiehallen uitgebreid met gereedschaps- en matrijzenbouw alsook spuitgieten.

2013

Holger Hummel wordt voorzitter van het bestuur van HUMMEL AG. Daarmee komt de traditionele onderneming onder de leiding van de derde generatie.

2018

HUMMEL viert het 70-jarige firmajubileum, noteert een nieuw omzetrecord met 71,5 miljoen euro, heeft zo'n 600 medewerkers in dienst en is met vestigingen, distributiekantoren en een groot partnernetwerk wereldwijd aanwezig.

EX-TOEBEHOREN

Kabelwartels voor de explosiegevaarlijke omgeving vereisen ook toebehoren voor de explosiegevaarlijke omgeving. HUMMEL biedt een breed assortiment toebehoren dat speciaal hiervoor is ontwikkeld. Deze toebehoren voldoen aan alle eisen aan de Ex-omgeving en beschikken over de noodzakelijke certificeringen en toelatingen.

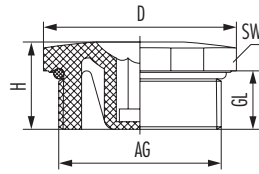
- // Toebehoren van kunststof, messing en roestvaststaal
- // Sluitingen met Ex-toelatingen
- // Reduceringen in veel verschillende grootten

De toebehoren zijn verkrijgbaar in verschillende materialen, grootten en met verschillende schroefdraadtypen.



Ex-Toebehoren

Sluiting V-Ex (metrisch, PG)



| | |
|----------------------|---|
| Materiaal | Polyamide, glasvezelversterkt |
| Materiaal o-ring | NBR |
| Beschermingsklasse | IP 68 – 10 bar / IP 69 K |
| Ex-beschermingsgraad | II 1D Ex ta IIIC Da / II 2G Ex e IIC Gb |
| Temperatuurbereik | -20°C tot +90°C |
| Kleur | zwart |
| RAL | 9005 |

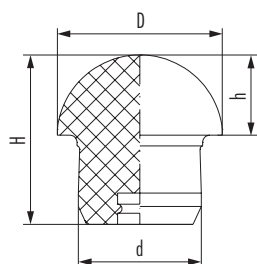
RoHS

| AG | D mm | GL mm | H mm | SW mm | ⊙ | Item nr. |
|-----------|---------|----------|---------|----------|---|---------------|
| M12 x 1,5 | 16,5 | 8,5 | 13 | 15 | 6 | 1.297.1201.50 |
| M16 x 1,5 | 20,5 | 8,5 | 13 | 19 | 8 | 1.297.1601.50 |
| M20 x 1,5 | 25,5 | 9 | 14,5 | 24 | 8 | 1.297.2001.50 |
| M25 x 1,5 | 30,5 | 10,5 | 16 | 28 | 8 | 1.297.2501.50 |
| M32 x 1,5 | 38 | 11,5 | 17,5 | 36 | 8 | 1.297.3201.50 |
| M40 x 1,5 | 48 | 11,5 | 18 | 46 | 8 | 1.297.4001.50 |
| M50 x 1,5 | 60 | 13,5 | 20 | 55 | 8 | 1.297.5001.50 |
| M63 x 1,5 | 75 | 14,5 | 21 | 70 | 8 | 1.297.6301.50 |
| PG 7 | 16,5 | 8,5 | 13 | 15 | 6 | 1.297.0701.11 |
| PG 9 | 20,5 | 8,5 | 13 | 19 | 8 | 1.297.0901.11 |
| PG 11 | 25,5 | 9 | 14,5 | 24 | 8 | 1.297.1101.11 |
| PG 13,5 | 25,5 | 9 | 14,5 | 24 | 8 | 1.297.1301.11 |
| PG 16 | 30,5 | 10,5 | 16 | 28 | 8 | 1.297.1601.11 |
| PG 21 | 38 | 11,5 | 17,5 | 36 | 8 | 1.297.2101.11 |
| PG 29 | 48 | 11,5 | 18 | 46 | 8 | 1.297.2901.11 |
| PG 36 | 60 | 13,5 | 20 | 55 | 8 | 1.297.3601.11 |
| PG 42 | 65 | 13,5 | 20 | 60 | 8 | 1.297.4201.11 |
| PG 48 | 75 | 14,5 | 21 | 70 | 8 | 1.297.4801.11 |



naar de montage-instructie





| | |
|----------------------|---|
| Materiaal | Elastomeer |
| Ex-beschermingsgraad | II 1D Ex ta IIIC Da / II 2G Ex e IIC Gb |
| Temperatuurbereik | -40°C tot +95°C |
| Kleur | zwart |
| RAL | 9005 |

RoHS

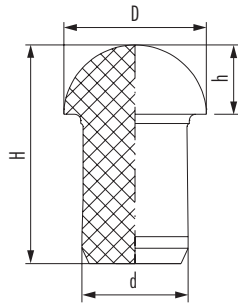
| Geschikt voor AG | Geschikt voor AG2 | Geschikt voor AG3 | D mm | d mm | H mm | h mm | Item nr. |
|------------------|-------------------|---------------------|---------|---------|---------|---------|---------------|
| PG 7 | M12 x 1,5 | | 8,5 | 6,3 | 11,5 | 4,5 | 1.296.0701.11 |
| PG 9 | M16 x 1,5 | NPT 3/8" | 11 | 7,8 | 13,5 | 5,5 | 1.296.0901.11 |
| PG 11 | M16 x 1,5 | | 13,5 | 9,8 | 14,5 | 5,5 | 1.296.1101.11 |
| PG 13,5 | M20 x 1,5 | NPT 1/2" | 16 | 11,8 | 18 | 8 | 1.296.1301.11 |
| PG 16 | M20 x 1,5 | NPT 1/2" / 16 | 18,5 | 13,8 | 19 | 9 | 1.296.1601.11 |
| PG 21 | M25 x 1,5 | NPT 3/4" | 22 | 17,8 | 22 | 11 | 1.296.2101.11 |
| PG 29 | M32 x 1,5 | NPT 1" / NPT 1 1/4" | 29 | 25 | 25 | 10 | 1.296.2901.11 |
| PG 36 | M40 x 1,5 | NPT 1 1/2" | 38 | 32 | 28 | 11 | 1.296.3601.11 |
| PG 42 | M50 x 1,5 | | 43 | 38 | 30 | 12 | 1.296.4201.11 |
| PG 48 | M63 x 1,5 | | 49 | 44 | 30 | 12 | 1.296.4801.11 |



naar de montage-in-
structie



Sluiting HSK-V-Ex (MZ-variant)



| | |
|----------------------|---|
| Materiaal | Elastomeer |
| Ex-beschermingsgraad | II 1D Ex ta IIIC Da / II 2G Ex e IIC Gb |
| Temperatuurbereik | -40°C tot +95°C |
| Kleur | zwart |
| RAL | 9005 |

RoHS

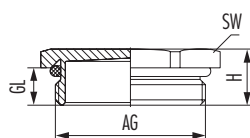
// Deze plug past in alle HSK-wartels met extra trekantlasting (dubbele beugel)

| Geschikt voor AG | Geschikt voor AG2 | Geschikt voor AG3 | D mm | d mm | H mm | h mm | Item nr. |
|------------------|-------------------|---------------------|---------|---------|---------|---------|---------------|
| PG 7 | M12 x 1,5 | | 8,5 | 6,3 | 18 | 4,5 | 1.296.0701.61 |
| PG 9 | M16 x 1,5 | NPT 3/8" | 11 | 7,8 | 20,5 | 5,5 | 1.296.0901.61 |
| PG 11 | M16 x 1,5 | | 13,5 | 9,8 | 22 | 5,5 | 1.296.1101.61 |
| PG 13,5 | M20 x 1,5 | NPT 1/2" | 16 | 11,8 | 26,5 | 8 | 1.296.1301.61 |
| PG 16 | M20 x 1,5 | NPT 1/2" / 16 | 18,5 | 13,8 | 28,8 | 9 | 1.296.1601.61 |
| PG 21 | M25 x 1,5 | NPT 3/4" | 22 | 17,8 | 32 | 11 | 1.296.2101.61 |
| PG 29 | M32 x 1,5 | NPT 1" / NPT 1 1/4" | 29 | 25 | 35,5 | 10 | 1.296.2901.61 |
| PG 36 | M40 x 1,5 | NPT 1 1/2" | 38 | 32 | 39 | 11 | 1.296.3601.61 |



naar de montage-instructie





| | |
|----------------------|---|
| Materiaal | Vernikkeld messing |
| Materiaal o-ring | NBR |
| Beschermingsklasse | IP 68 – 10 bar / IP 69 K |
| Ex-beschermingsgraad | II 1D Ex ta IIIC Da / II 2G Ex e IIC Gb |
| Temperatuurbereik | -20°C tot +95°C |

RoHS

| AG | GL mm | H mm | SW mm | Item nr. |
|-----------|----------|---------|----------|---------------|
| M12 x 1,5 | 6,5 | 9,5 | 14 | 1.197.1200.50 |
| M16 x 1,5 | 6 | 9 | 19 | 1.197.1600.50 |
| M20 x 1,5 | 6 | 9,5 | 22 | 1.197.2000.50 |
| M25 x 1,5 | 7 | 10,5 | 30 | 1.197.2500.50 |
| M32 x 1,5 | 8 | 12,5 | 41 | 1.197.3200.50 |
| M40 x 1,5 | 8 | 13 | 46 | 1.197.4000.50 |
| M50 x 1,5 | 9 | 15 | 55 | 1.197.5000.50 |
| M63 x 1,5 | 10 | 16,5 | 70 | 1.197.6300.50 |
| PG 7 | 5 | 8 | 14 | 1.197.0700.01 |
| PG 9 | 6 | 9 | 17 | 1.197.0900.01 |
| PG 11 | 6 | 9,5 | 20 | 1.197.1100.01 |
| PG 13,5 | 6,5 | 10 | 22 | 1.197.1300.01 |
| PG 16 | 6,5 | 10 | 24 | 1.197.1600.01 |
| PG 21 | 7 | 10,5 | 30 | 1.197.2100.01 |
| PG 29 | 8 | 12,5 | 41 | 1.197.2900.01 |
| PG 36 | 8 | 13 | 50 | 1.197.3600.01 |
| PG 42 | 9 | 15 | 58 | 1.197.4200.01 |
| PG 48 | 10 | 16,5 | 65 | 1.197.4800.01 |

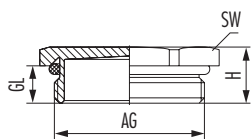


naar de montage-instructie



Ex-Toebehoren

Sluiting V-Ms-FKM-Ex (metrisch, PG)



| | |
|----------------------|---|
| Materiaal | Vernikkeld messing |
| Materiaal o-ring | FKM |
| Beschermingsklasse | IP 68 – 10 bar / IP 69 K |
| Ex-beschermingsgraad | II 1D Ex ta IIIC Da / II 2G Ex e IIC Gb |
| Temperatuurbereik | -20°C tot +180°C |

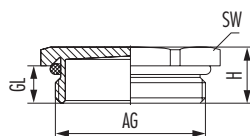
RoHS

| AG | GL mm | H mm | SW mm | Item nr. |
|-----------|----------|---------|----------|---------------|
| M12 x 1,5 | 6,5 | 9,5 | 14 | 1.198.1200.50 |
| M16 x 1,5 | 6 | 9 | 19 | 1.198.1600.50 |
| M20 x 1,5 | 6 | 9,5 | 22 | 1.198.2000.50 |
| M25 x 1,5 | 7 | 10,5 | 30 | 1.198.2500.50 |
| M32 x 1,5 | 8 | 12,5 | 41 | 1.198.3200.50 |
| M40 x 1,5 | 8 | 13 | 46 | 1.198.4000.50 |
| M50 x 1,5 | 9 | 15 | 55 | 1.198.5000.50 |
| M63 x 1,5 | 10 | 16,5 | 70 | 1.198.6300.50 |
| PG 7 | 5 | 8 | 14 | 1.198.0700.01 |
| PG 9 | 6 | 9 | 17 | 1.198.0900.01 |
| PG 11 | 6 | 9,5 | 20 | 1.198.1100.01 |
| PG 13,5 | 6,5 | 10 | 22 | 1.198.1300.01 |
| PG 16 | 6,5 | 10 | 24 | 1.198.1600.01 |
| PG 21 | 7 | 10,5 | 30 | 1.198.2100.01 |
| PG 29 | 8 | 12,5 | 41 | 1.198.2900.01 |
| PG 36 | 8 | 13 | 50 | 1.198.3600.01 |
| PG 42 | 9 | 15 | 58 | 1.198.4200.01 |
| PG 48 | 10 | 16,5 | 65 | 1.198.4800.01 |



naar de montage-instructie





| | |
|-----------------------------|---|
| Materiaal | Vernikkeld messing |
| Materiaal o-ring | VMQ (Silicone) |
| Beschermingsklasse | IP 68 – 10 bar / IP 69 K |
| Ex-beschermingsgraad | II 1D Ex ta IIIC Da / II 2G Ex e IIC Gb |
| Temperatuurbereik | -60°C tot +180°C |

RoHS

| AG | GL mm | H mm | SW mm | Item nr. |
|-----------|----------|---------|----------|---------------|
| M12 x 1,5 | 6,5 | 9,5 | 14 | 1.199.1200.50 |
| M16 x 1,5 | 6 | 9 | 19 | 1.199.1600.50 |
| M20 x 1,5 | 6 | 9,5 | 22 | 1.199.2000.50 |
| M25 x 1,5 | 7 | 10,5 | 30 | 1.199.2500.50 |
| M32 x 1,5 | 8 | 12,5 | 41 | 1.199.3200.50 |
| M40 x 1,5 | 8 | 13 | 46 | 1.199.4000.50 |
| M50 x 1,5 | 9 | 15 | 55 | 1.199.5000.50 |
| M63 x 1,5 | 10 | 16,5 | 70 | 1.199.6300.50 |
| PG 7 | 5 | 8 | 14 | 1.199.0700.01 |
| PG 9 | 6 | 9 | 17 | 1.199.0900.01 |
| PG 11 | 6 | 9,5 | 20 | 1.199.1100.01 |
| PG 13,5 | 6,5 | 10 | 22 | 1.199.1300.01 |
| PG 16 | 6,5 | 10 | 24 | 1.199.1600.01 |
| PG 21 | 7 | 10,5 | 30 | 1.199.2100.01 |
| PG 29 | 8 | 12,5 | 41 | 1.199.2900.01 |
| PG 36 | 8 | 13 | 50 | 1.199.3600.01 |
| PG 42 | 9 | 15 | 58 | 1.199.4200.01 |
| PG 48 | 10 | 16,5 | 65 | 1.199.4800.01 |

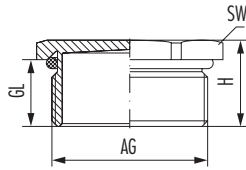


naar de montage-instructie



Ex-Toebehoren

Sluiting V-Ms-Ex d (metrisch)



| | |
|----------------------|---|
| Materiaal | Vernikkeld messing |
| Materiaal o-ring | NBR |
| Beschermingsklasse | IP 68 – 10 bar / IP 69 K |
| Ex-beschermingsgraad | II 2G Ex db eb IIC Gb / II 1D Ex ta IIIC Da |
| Temperatuurbereik | -20°C tot +95°C |

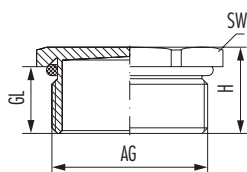
RoHS

| AG | GL mm | H mm | SW mm | Item nr. |
|-----------|----------|---------|----------|---------------|
| M12 x 1,5 | 16 | 21 | 14 | 1.875.1200.50 |
| M16 x 1,5 | 16 | 20 | 19 | 1.875.1600.50 |
| M20 x 1,5 | 16 | 19,5 | 22 | 1.875.2000.50 |
| M25 x 1,5 | 16 | 19,5 | 30 | 1.875.2500.50 |
| M32 x 1,5 | 16 | 20,5 | 41 | 1.875.3200.50 |
| M40 x 1,5 | 16 | 21 | 46 | 1.875.4000.50 |
| M50 x 1,5 | 16 | 22 | 55 | 1.875.5000.50 |
| M63 x 1,5 | 16 | 22,5 | 70 | 1.875.6300.50 |



naar de montage-instructie





| | |
|-----------------------------|---|
| Materiaal | Vernikkeld messing |
| Materiaal o-ring | FKM |
| Beschermingsklasse | IP 68 – 10 bar / IP 69 K |
| Ex-beschermingsgraad | II 2G Ex db eb IIC Gb / II 1D Ex ta IIIC Da |
| Temperatuurbereik | -20°C tot +180°C |

RoHS

| AG | GL mm | H mm | SW mm | Item nr. |
|-----------|----------|---------|----------|---------------|
| M12 x 1,5 | 16 | 21 | 14 | 1.876.1200.50 |
| M16 x 1,5 | 16 | 20 | 19 | 1.876.1600.50 |
| M20 x 1,5 | 16 | 19,5 | 22 | 1.876.2000.50 |
| M25 x 1,5 | 16 | 19,5 | 30 | 1.876.2500.50 |
| M32 x 1,5 | 16 | 20,5 | 41 | 1.876.3200.50 |
| M40 x 1,5 | 16 | 21 | 46 | 1.876.4000.50 |
| M50 x 1,5 | 16 | 22 | 55 | 1.876.5000.50 |
| M63 x 1,5 | 16 | 22,5 | 70 | 1.876.6300.50 |

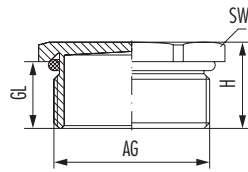


naar de montage-instructie



Ex-Toebehoren

Sluiting V-Ms-VMQ-Ex d (metrisch)



| | |
|-----------------------------|---|
| Materiaal | Vernikkeld messing |
| Materiaal o-ring | VMQ (Silicone) |
| Beschermingsklasse | IP 68 – 10 bar / IP 69 K |
| Ex-beschermingsgraad | II 2G Ex db eb IIC Gb / II 1D Ex ta IIIC Da |
| Temperatuurbereik | -60°C tot +180°C |

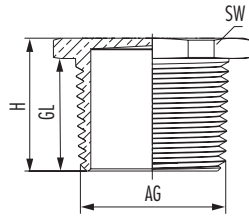
RoHS

| AG | GL mm | H mm | SW mm | Item nr. |
|-----------|----------|---------|----------|---------------|
| M12 x 1,5 | 16 | 21 | 14 | 1.877.1200.50 |
| M16 x 1,5 | 16 | 20 | 19 | 1.877.1600.50 |
| M20 x 1,5 | 16 | 19,5 | 22 | 1.877.2000.50 |
| M25 x 1,5 | 16 | 19,5 | 30 | 1.877.2500.50 |
| M32 x 1,5 | 16 | 20,5 | 41 | 1.877.3200.50 |
| M40 x 1,5 | 16 | 21 | 46 | 1.877.4000.50 |
| M50 x 1,5 | 16 | 22 | 55 | 1.877.5000.50 |
| M63 x 1,5 | 16 | 22,5 | 70 | 1.877.6300.50 |



naar de montage-instructie





| | |
|-----------------------------|---|
| Materiaal | Vernikkeld messing |
| Beschermingsklasse | IP 68 – 10 bar / IP 69 K |
| Ex-beschermingsgraad | II 2G Ex db eb IIC Gb / II 1D Ex ta IIIC Da |

RoHS

| AG | GL mm | H mm | SW mm | Item nr. |
|------------|----------|---------|----------|---------------|
| NPT 3/8" | 16 | 20 | 16 | 1.877.3800.70 |
| NPT 1/2" | 20 | 23,5 | 24 | 1.877.1200.70 |
| NPT 3/4" | 20,5 | 24 | 30 | 1.877.3400.70 |
| NPT 1" | 25 | 29,5 | 41 | 1.877.1000.70 |
| NPT 1 1/4" | 26 | 31 | 46 | 1.877.5400.70 |
| NPT 1 1/2" | 26,5 | 32,5 | 55 | 1.877.6400.70 |

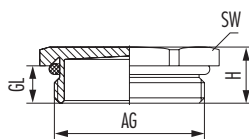


naar de montage-instructie



Ex-Toebehoren

Sluiting V-INOX-Ex (metrisch, PG)



| | |
|----------------------|---|
| Materiaal | INOX 1.4305 |
| Materiaal o-ring | NBR |
| Beschermingsklasse | IP 68 – 10 bar / IP 69 K |
| Ex-beschermingsgraad | II 1D Ex ta IIIC Da / II 2G Ex e IIC Gb |
| Temperatuurbereik | -20°C tot +95°C |

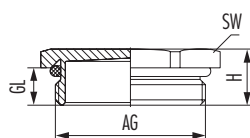
RoHS

| AG | GL mm | H mm | SW mm | Item nr. |
|-----------|----------|---------|----------|---------------|
| M12 x 1,5 | 6,5 | 9,5 | 14 | 1.192.1200.50 |
| M16 x 1,5 | 6 | 9 | 19 | 1.192.1600.50 |
| M20 x 1,5 | 6 | 9,5 | 22 | 1.192.2000.50 |
| M25 x 1,5 | 7 | 10,5 | 30 | 1.192.2500.50 |
| M32 x 1,5 | 8 | 12,5 | 41 | 1.192.3200.50 |
| M40 x 1,5 | 8 | 13 | 46 | 1.192.4000.50 |
| M50 x 1,5 | 9 | 15 | 55 | 1.192.5000.50 |
| M63 x 1,5 | 10 | 16,5 | 70 | 1.192.6300.50 |
| PG 7 | 5 | 8 | 14 | 1.192.0700.01 |
| PG 9 | 6 | 9 | 17 | 1.192.0900.01 |
| PG 11 | 6 | 9,5 | 20 | 1.192.1100.01 |
| PG 13,5 | 6,5 | 10 | 22 | 1.192.1300.01 |
| PG 16 | 6,5 | 10 | 24 | 1.192.1600.01 |
| PG 21 | 7 | 10,5 | 30 | 1.192.2100.01 |
| PG 29 | 8 | 12,5 | 41 | 1.192.2900.01 |
| PG 36 | 8 | 13 | 50 | 1.192.3600.01 |
| PG 42 | 9 | 15 | 58 | 1.192.4200.01 |
| PG 48 | 10 | 16,5 | 65 | 1.192.4800.01 |



naar de montage-instructie





| | |
|----------------------|---|
| Materiaal | INOX 1.4305 |
| Materiaal o-ring | FKM |
| Beschermingsklasse | IP 68 – 10 bar / IP 69 K |
| Ex-beschermingsgraad | II 1D Ex ta IIIC Da / II 2G Ex e IIC Gb |
| Temperatuurbereik | -20°C tot +180°C |

RoHS

| AG | GL mm | H mm | SW mm | Item nr. |
|-----------|----------|---------|----------|---------------|
| M12 x 1,5 | 6,5 | 9,5 | 14 | 1.193.1200.50 |
| M16 x 1,5 | 6 | 9 | 19 | 1.193.1600.50 |
| M20 x 1,5 | 6 | 9,5 | 22 | 1.193.2000.50 |
| M25 x 1,5 | 7 | 10,5 | 30 | 1.193.2500.50 |
| M32 x 1,5 | 8 | 12,5 | 41 | 1.193.3200.50 |
| M40 x 1,5 | 8 | 13 | 46 | 1.193.4000.50 |
| M50 x 1,5 | 9 | 15 | 55 | 1.193.5000.50 |
| M63 x 1,5 | 10 | 16,5 | 70 | 1.193.6300.50 |
| PG 7 | 5 | 8 | 14 | 1.193.0700.01 |
| PG 9 | 6 | 9 | 17 | 1.193.0900.01 |
| PG 11 | 6 | 9,5 | 20 | 1.193.1100.01 |
| PG 13,5 | 6,5 | 10 | 22 | 1.193.1300.01 |
| PG 16 | 6,5 | 10 | 24 | 1.193.1600.01 |
| PG 21 | 7 | 10,5 | 30 | 1.193.2100.01 |
| PG 29 | 8 | 12,5 | 41 | 1.193.2900.01 |
| PG 36 | 8 | 13 | 50 | 1.193.3600.01 |
| PG 42 | 9 | 15 | 85 | 1.193.4200.01 |
| PG 48 | 10 | 16,5 | 65 | 1.193.4800.01 |

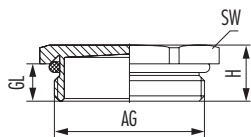


naar de montage-instructie



Ex-Toebehoren

Sluiting V-INOX-VMQ-Ex (metrisch, PG)



| | |
|----------------------|---|
| Materiaal | INOX 1.4305 |
| Materiaal o-ring | VMQ (Silicone) |
| Beschermingsklasse | IP 68 – 10 bar / IP 69 K |
| Ex-beschermingsgraad | II 1D Ex ta IIIC Da / II 2G Ex e IIC Gb |
| Temperatuurbereik | -60°C tot +180°C |

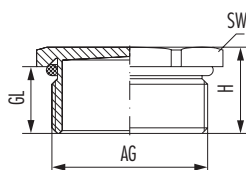
RoHS

| AG | GL mm | H mm | SW mm | Item nr. |
|-----------|----------|---------|----------|---------------|
| M12 x 1,5 | 6,5 | 9,5 | 14 | 1.194.1200.50 |
| M16 x 1,5 | 6 | 9 | 19 | 1.194.1600.50 |
| M20 x 1,5 | 6 | 9,5 | 22 | 1.194.2000.50 |
| M25 x 1,5 | 7 | 10,5 | 30 | 1.194.2500.50 |
| M32 x 1,5 | 8 | 12,5 | 41 | 1.194.3200.50 |
| M40 x 1,5 | 8 | 13 | 46 | 1.194.4000.50 |
| M50 x 1,5 | 9 | 15 | 55 | 1.194.5000.50 |
| M63 x 1,5 | 10 | 16,5 | 70 | 1.194.6300.50 |
| PG 7 | 5 | 8 | 14 | 1.194.0700.01 |
| PG 9 | 6 | 9 | 17 | 1.194.0900.01 |
| PG 11 | 6 | 9,5 | 20 | 1.194.1100.01 |
| PG 13,5 | 6,5 | 10 | 22 | 1.194.1300.01 |
| PG 16 | 6,5 | 10 | 24 | 1.194.1600.01 |
| PG 21 | 7 | 10,5 | 30 | 1.194.2100.01 |
| PG 29 | 8 | 12,5 | 41 | 1.194.2900.01 |
| PG 36 | 8 | 13 | 50 | 1.194.3600.01 |
| PG 42 | 9 | 15 | 58 | 1.194.4200.01 |
| PG 48 | 10 | 16,5 | 65 | 1.194.4800.01 |



naar de montage-instructie





| | |
|----------------------|---|
| Materiaal | INOX 1.4404 |
| Materiaal o-ring | NBR |
| Beschermingsklasse | IP 68 – 10 bar / IP 69 K |
| Ex-beschermingsgraad | II 2G Ex db eb IIC Gb / II 1D Ex ta IIIC Da |
| Temperatuurbereik | -20°C tot +95°C |

RoHS

| AG | GL mm | H mm | SW mm | Item nr. |
|-----------|----------|---------|----------|---------------|
| M12 x 1,5 | 16 | 19 | 14 | 1.895.1200.50 |
| M16 x 1,5 | 16 | 19 | 19 | 1.895.1600.50 |
| M20 x 1,5 | 16 | 19,5 | 22 | 1.895.2000.50 |
| M25 x 1,5 | 16 | 19,5 | 30 | 1.895.2500.50 |
| M32 x 1,5 | 16 | 20,5 | 41 | 1.895.3200.50 |
| M40 x 1,5 | 16 | 21 | 46 | 1.895.4000.50 |
| M50 x 1,5 | 16 | 22 | 55 | 1.895.5000.50 |
| M63 x 1,5 | 16 | 22,5 | 70 | 1.895.6300.50 |

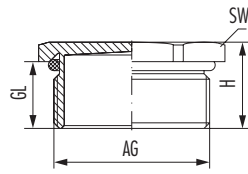


naar de montage-instructie



Ex-Toebehoren

Sluiting V-INOX-FKM-Ex d (metrisch)



| | |
|----------------------|---|
| Materiaal | INOX 1.4404 |
| Materiaal o-ring | FKM |
| Beschermingsklasse | IP 68 – 10 bar / IP 69 K |
| Ex-beschermingsgraad | II 2G Ex db eb IIC Gb / II 1D Ex ta IIIC Da |
| Temperatuurbereik | -20°C tot +180°C |

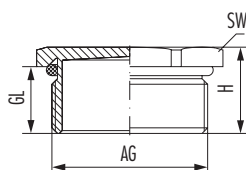
RoHS

| AG | GL mm | H mm | SW mm | Item nr. |
|-----------|----------|---------|----------|---------------|
| M12 x 1,5 | 16 | 19 | 14 | 1.896.1200.50 |
| M16 x 1,5 | 16 | 19 | 19 | 1.896.1600.50 |
| M20 x 1,5 | 16 | 19,5 | 22 | 1.896.2000.50 |
| M25 x 1,5 | 16 | 19,5 | 30 | 1.896.2500.50 |
| M32 x 1,5 | 16 | 20,5 | 41 | 1.896.3200.50 |
| M40 x 1,5 | 16 | 21 | 46 | 1.896.4000.50 |
| M50 x 1,5 | 16 | 22 | 55 | 1.896.5000.50 |
| M63 x 1,5 | 16 | 22,5 | 70 | 1.896.6300.50 |



naar de montage-instructie





| | |
|-----------------------------|---|
| Materiaal | INOX 1.4404 |
| Materiaal o-ring | VMQ (Silicone) |
| Beschermingsklasse | IP 68 – 10 bar / IP 69 K |
| Ex-beschermingsgraad | II 2G Ex db eb IIC Gb / II 1D Ex ta IIIC Da |
| Temperatuurbereik | -60°C tot +180°C |

RoHS

| AG | GL mm | H mm | SW mm | Item nr. |
|-----------|----------|---------|----------|---------------|
| M12 x 1,5 | 16 | 19 | 14 | 1.897.1200.50 |
| M16 x 1,5 | 16 | 19 | 19 | 1.897.1600.50 |
| M20 x 1,5 | 16 | 19,5 | 22 | 1.897.2000.50 |
| M25 x 1,5 | 16 | 19,5 | 30 | 1.897.2500.50 |
| M32 x 1,5 | 16 | 20,5 | 41 | 1.897.3200.50 |
| M40 x 1,5 | 16 | 21 | 46 | 1.897.4000.50 |
| M50 x 1,5 | 16 | 22 | 55 | 1.897.5000.50 |
| M63 x 1,5 | 16 | 22,5 | 70 | 1.897.6300.50 |

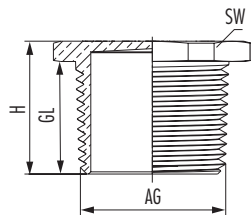


naar de montage-instructie



Ex-Toebehoren

Sluiting V-INOX-Ex d (NPT)



| | |
|-----------------------------|---|
| Materiaal | INOX 1.4404 |
| Beschermingsklasse | IP 68 – 10 bar / IP 69 K |
| Ex-beschermingsgraad | II 2G Ex db eb IIC Gb / II 1D Ex ta IIIC Da |

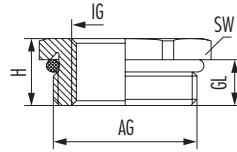
RoHS

| AG | GL mm | H mm | SW mm | Item nr. |
|------------|----------|---------|----------|---------------|
| NPT 3/8" | 16 | 20 | 16 | 1.897.3800.70 |
| NPT 1/2" | 20 | 23,5 | 24 | 1.897.1200.70 |
| NPT 3/4" | 20,5 | 24 | 30 | 1.897.3400.70 |
| NPT 1" | 25 | 29,5 | 41 | 1.897.1000.70 |
| NPT 1 1/4" | 26 | 31 | 46 | 1.897.5400.70 |
| NPT 1 1/2" | 26,5 | 32,5 | 55 | 1.897.6400.70 |



naar de montage-instructie





| | |
|----------------------|--|
| Materiaal | Vernikkeld messing |
| Materiaal o-ring | NBR |
| Beschermingsklasse | IP 68 – 10 bar / IP 69 K |
| Ex-beschermingsgraad | II 2G Ex eb IIC Gb / II 1D Ex ta IIIC Da |
| Temperatuurbereik | -20°C tot +95°C |

RoHS

| AG | IG | GL mm | H mm | SW mm | Item nr. |
|-----------|-----------|----------|---------|----------|---------------|
| M16 x 1,5 | M12 x 1,5 | 5 | 8 | 17 | 1.078.1612.50 |
| M20 x 1,5 | M12 x 1,5 | 6 | 9 | 22 | 1.078.2012.50 |
| M20 x 1,5 | M16 x 1,5 | 6 | 9 | 22 | 1.078.2016.50 |
| M25 x 1,5 | M16 x 1,5 | 7 | 10 | 29 | 1.078.2516.50 |
| M25 x 1,5 | M20 x 1,5 | 7 | 10 | 29 | 1.078.2520.50 |
| M32 x 1,5 | M16 x 1,5 | 8 | 11 | 34 | 1.078.3216.50 |
| M32 x 1,5 | M20 x 1,5 | 8 | 11 | 34 | 1.078.3220.50 |
| M32 x 1,5 | M25 x 1,5 | 8 | 11 | 34 | 1.078.3225.50 |
| M40 x 1,5 | M20 x 1,5 | 8 | 12 | 43 | 1.078.4020.50 |
| M40 x 1,5 | M25 x 1,5 | 8 | 12 | 43 | 1.078.4025.50 |
| M40 x 1,5 | M32 x 1,5 | 8 | 12 | 43 | 1.078.4032.50 |
| M50 x 1,5 | M25 x 1,5 | 9 | 13 | 55 | 1.078.5025.50 |
| M50 x 1,5 | M32 x 1,5 | 9 | 13 | 55 | 1.078.5032.50 |
| M50 x 1,5 | M40 x 1,5 | 9 | 13 | 55 | 1.078.5040.50 |
| M63 x 1,5 | M32 x 1,5 | 10 | 14 | 65 | 1.078.6332.50 |
| M63 x 1,5 | M40 x 1,5 | 10 | 14 | 65 | 1.078.6340.50 |
| M63 x 1,5 | M50 x 1,5 | 10 | 14 | 65 | 1.078.6350.50 |
| PG 9 | PG 7 | 6 | 8,8 | 17 | 1.078.0907.01 |
| PG 11 | PG 7 | 6 | 9 | 20 | 1.078.1107.01 |
| PG 11 | PG 9 | 6 | 9 | 20 | 1.078.1109.01 |
| PG 13,5 | PG 9 | 6,5 | 9,5 | 22 | 1.078.1309.01 |
| PG 16 | PG 9 | 6,5 | 9,5 | 24 | 1.078.1609.01 |
| PG 16 | PG 11 | 6,5 | 9,5 | 24 | 1.078.1611.01 |
| PG 16 | PG 13,5 | 6,5 | 9,5 | 24 | 1.078.1613.01 |
| PG 21 | PG 11 | 7 | 10,3 | 30 | 1.078.2111.01 |
| PG 21 | PG 13,5 | 7 | 10,3 | 30 | 1.078.2113.01 |
| PG 21 | PG 16 | 7 | 10,3 | 30 | 1.078.2116.01 |
| PG 29 | PG 16 | 8 | 11,5 | 40 | 1.078.2916.01 |
| PG 29 | PG 21 | 8 | 11,5 | 40 | 1.078.2921.01 |
| PG 36 | PG 21 | 9 | 12,5 | 50 | 1.078.3621.01 |
| PG 36 | PG 29 | 9 | 12,5 | 50 | 1.078.3629.01 |
| PG 42 | PG 29 | 10 | 13,5 | 57 | 1.078.4229.01 |
| PG 42 | PG 36 | 10 | 13,5 | 57 | 1.078.4236.01 |
| PG 48 | PG 36 | 10 | 13,5 | 64 | 1.078.4836.01 |
| PG 48 | PG 42 | 10 | 13,5 | 64 | 1.078.4842.01 |

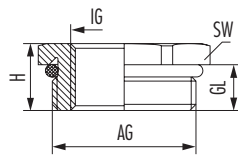


naar de montage-instructie



Ex-Toebehoren

Reduceren RSD-Ms-VMQ-Ex (metrisch, PG)



| | |
|-----------------------------|--|
| Materiaal | Vernikkeld messing |
| Materiaal o-ring | VMQ (Silicone) |
| Beschermingsklasse | IP 68 – 10 bar / IP 69 K |
| Ex-beschermingsgraad | II 2G Ex eb IIC Gb / II 1D Ex ta IIIC Da |
| Temperatuurbereik | -60°C tot +180°C |

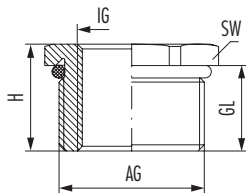
RoHS

| AG | IG | GL mm | H mm | SW mm | Item nr. |
|-----------|-----------|----------|---------|----------|---------------|
| M16 x 1,5 | M12 x 1,5 | 5 | 8 | 17 | 1.079.1612.50 |
| M20 x 1,5 | M12 x 1,5 | 6 | 9 | 22 | 1.079.2012.50 |
| M20 x 1,5 | M16 x 1,5 | 6 | 9 | 22 | 1.079.2016.50 |
| M25 x 1,5 | M16 x 1,5 | 7 | 10 | 29 | 1.079.2516.50 |
| M25 x 1,5 | M20 x 1,5 | 7 | 10 | 29 | 1.079.2520.50 |
| M32 x 1,5 | M16 x 1,5 | 8 | 11 | 34 | 1.079.3216.50 |
| M32 x 1,5 | M20 x 1,5 | 8 | 11 | 34 | 1.079.3220.50 |
| M32 x 1,5 | M25 x 1,5 | 8 | 11 | 34 | 1.079.3225.50 |
| M40 x 1,5 | M20 x 1,5 | 8 | 12 | 43 | 1.079.4020.50 |
| M40 x 1,5 | M25 x 1,5 | 8 | 12 | 43 | 1.079.4025.50 |
| M40 x 1,5 | M32 x 1,5 | 8 | 12 | 43 | 1.079.4032.50 |
| M50 x 1,5 | M25 x 1,5 | 9 | 13 | 55 | 1.079.5025.50 |
| M50 x 1,5 | M32 x 1,5 | 9 | 13 | 55 | 1.079.5032.50 |
| M50 x 1,5 | M40 x 1,5 | 9 | 13 | 55 | 1.079.5040.50 |
| M63 x 1,5 | M32 x 1,5 | 10 | 14 | 65 | 1.079.6332.50 |
| M63 x 1,5 | M40 x 1,5 | 10 | 14 | 65 | 1.079.6340.50 |
| M63 x 1,5 | M50 x 1,5 | 10 | 14 | 65 | 1.079.6350.50 |
| PG 9 | PG 7 | 6 | 8,8 | 17 | 1.079.0907.01 |
| PG 11 | PG 7 | 6 | 9 | 20 | 1.079.1107.01 |
| PG 11 | PG 9 | 6 | 9 | 20 | 1.079.1109.01 |
| PG 13,5 | PG 9 | 6,5 | 9,5 | 22 | 1.079.1309.01 |
| PG 16 | PG 9 | 6,5 | 9,5 | 24 | 1.079.1609.01 |
| PG 16 | PG 11 | 6,5 | 9,5 | 24 | 1.079.1611.01 |
| PG 16 | PG 13,5 | 6,5 | 9,5 | 24 | 1.079.1613.01 |
| PG 21 | PG 11 | 7 | 10,3 | 30 | 1.079.2111.01 |
| PG 21 | PG 13,5 | 7 | 10,3 | 30 | 1.079.2113.01 |
| PG 21 | PG 16 | 7 | 10,3 | 30 | 1.079.2116.01 |
| PG 29 | PG 16 | 8 | 11,5 | 40 | 1.079.2916.01 |
| PG 29 | PG 21 | 8 | 11,5 | 40 | 1.079.2921.01 |
| PG 36 | PG 21 | 9 | 12,5 | 50 | 1.079.3621.01 |
| PG 36 | PG 29 | 9 | 12,5 | 50 | 1.079.3629.01 |
| PG 42 | PG 29 | 10 | 13,5 | 57 | 1.079.4229.01 |
| PG 42 | PG 36 | 10 | 13,5 | 57 | 1.079.4236.01 |
| PG 48 | PG 36 | 10 | 13,5 | 64 | 1.079.4836.01 |
| PG 48 | PG 42 | 10 | 13,5 | 64 | 1.079.4842.01 |



naar de montage-instructie





| | |
|----------------------|---|
| Materiaal | Vernikkeld messing |
| Materiaal o-ring | NBR |
| Beschermingsklasse | IP 68 – 10 bar / IP 69 K |
| Ex-beschermingsgraad | II 2G Ex db eb IIC Gb / II 1D Ex ta IIIC Da |
| Temperatuurbereik | -20°C tot +95°C |

RoHS

| AG | IG | GL mm | H mm | SW mm | Item nr. |
|-----------|-----------|----------|---------|----------|---------------|
| M16 x 1,5 | M12 x 1,5 | 16 | 19 | 19 | 1.878.1612.50 |
| M20 x 1,5 | M12 x 1,5 | 16 | 19,5 | 22 | 1.878.2012.50 |
| M20 x 1,5 | M16 x 1,5 | 16 | 19,5 | 22 | 1.878.2016.50 |
| M25 x 1,5 | M16 x 1,5 | 16 | 19,5 | 30 | 1.878.2516.50 |
| M25 x 1,5 | M20 x 1,5 | 16 | 19,5 | 30 | 1.878.2520.50 |
| M32 x 1,5 | M16 x 1,5 | 16 | 20,5 | 41 | 1.878.3216.50 |
| M32 x 1,5 | M20 x 1,5 | 16 | 20,5 | 41 | 1.878.3220.50 |
| M32 x 1,5 | M25 x 1,5 | 16 | 20,5 | 41 | 1.878.3225.50 |
| M40 x 1,5 | M20 x 1,5 | 16 | 21 | 46 | 1.878.4020.50 |
| M40 x 1,5 | M25 x 1,5 | 16 | 21 | 46 | 1.878.4025.50 |
| M40 x 1,5 | M32 x 1,5 | 16 | 21 | 46 | 1.878.4032.50 |
| M50 x 1,5 | M25 x 1,5 | 16 | 21 | 55 | 1.878.5025.50 |
| M50 x 1,5 | M32 x 1,5 | 16 | 21 | 55 | 1.878.5032.50 |

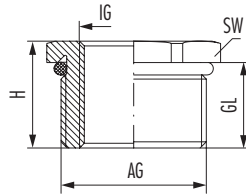


naar de montage-instructie



Ex-Toebehoren

Reduceren RSD-MS-VMQ-Ex d (metrisch)



| | |
|----------------------|---|
| Materiaal | Vernikkeld messing |
| Materiaal o-ring | VMQ (Silicone) |
| Beschermingsklasse | IP 68 – 10 bar / IP 69 K |
| Ex-beschermingsgraad | II 2G Ex db eb IIC Gb / II 1D Ex ta IIIC Da |
| Temperatuurbereik | -60°C tot +180°C |

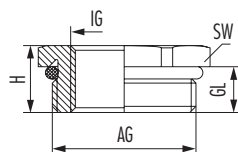
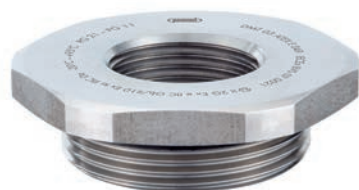
RoHS

| AG | IG | GL mm | H mm | SW mm | Item nr. |
|-----------|-----------|----------|---------|----------|---------------|
| M16 x 1,5 | M12 x 1,5 | 16 | 19 | 19 | 1.879.1612.50 |
| M20 x 1,5 | M12 x 1,5 | 16 | 19,5 | 22 | 1.879.2012.50 |
| M20 x 1,5 | M16 x 1,5 | 16 | 19,5 | 22 | 1.879.2016.50 |
| M25 x 1,5 | M16 x 1,5 | 16 | 19,5 | 30 | 1.879.2516.50 |
| M25 x 1,5 | M20 x 1,5 | 16 | 19,5 | 30 | 1.879.2520.50 |
| M32 x 1,5 | M16 x 1,5 | 16 | 20,5 | 41 | 1.879.3216.50 |
| M32 x 1,5 | M20 x 1,5 | 16 | 20,5 | 41 | 1.879.3220.50 |
| M32 x 1,5 | M25 x 1,5 | 16 | 20,5 | 41 | 1.879.3225.50 |
| M40 x 1,5 | M20 x 1,5 | 16 | 21 | 46 | 1.879.4020.50 |
| M40 x 1,5 | M25 x 1,5 | 16 | 21 | 46 | 1.879.4025.50 |
| M40 x 1,5 | M32 x 1,5 | 16 | 21 | 46 | 1.879.4032.50 |
| M50 x 1,5 | M25 x 1,5 | 16 | 21 | 55 | 1.879.5025.50 |
| M50 x 1,5 | M32 x 1,5 | 16 | 21 | 55 | 1.879.5032.50 |



naar de montage-instructie





| | |
|-----------------------------|---|
| Materiaal | INOX 1.4305 |
| Materiaal o-ring | NBR |
| Beschermingsklasse | IP 68 – 10 bar / IP 69 K |
| Ex-beschermingsgraad | II 1D Ex ta IIIC Da / II 2G Ex e IIC Gb |
| Temperatuurbereik | -20°C tot +95°C |

RoHS

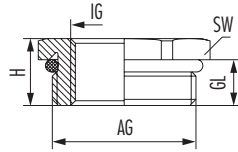
| AG | IG | GL mm | H mm | SW mm | Item nr. |
|-----------|-----------|----------|---------|----------|---------------|
| M16 x 1,5 | M12 x 1,5 | 5 | 15 | 19 | 1.098.1612.50 |
| M20 x 1,5 | M12 x 1,5 | 6 | 15,5 | 22 | 1.098.2012.50 |
| M20 x 1,5 | M16 x 1,5 | 6 | 15,5 | 22 | 1.098.2016.50 |
| M25 x 1,5 | M16 x 1,5 | 7 | 15,5 | 30 | 1.098.2516.50 |
| M25 x 1,5 | M20 x 1,5 | 7 | 15,5 | 30 | 1.098.2520.50 |
| M32 x 1,5 | M16 x 1,5 | 8 | 16,5 | 41 | 1.098.3216.50 |
| M32 x 1,5 | M20 x 1,5 | 8 | 12,5 | 41 | 1.098.3220.50 |
| M32 x 1,5 | M25 x 1,5 | 8 | 12,5 | 41 | 1.098.3225.50 |
| M40 x 1,5 | M20 x 1,5 | 8 | 17 | 46 | 1.098.4020.50 |
| M40 x 1,5 | M25 x 1,5 | 8 | 17 | 46 | 1.098.4025.50 |
| M40 x 1,5 | M32 x 1,5 | 8 | 17 | 46 | 1.098.4032.50 |
| M50 x 1,5 | M25 x 1,5 | 9 | 13,5 | 55 | 1.098.5025.50 |
| M50 x 1,5 | M32 x 1,5 | 9 | 13,5 | 55 | 1.098.5032.50 |
| M50 x 1,5 | M40 x 1,5 | 9 | 13,5 | 55 | 1.098.5040.50 |
| M63 x 1,5 | M32 x 1,5 | 10 | 16,5 | 65 | 1.098.6332.50 |
| M63 x 1,5 | M40 x 1,5 | 10 | 16,5 | 65 | 1.098.6340.50 |
| M63 x 1,5 | M50 x 1,5 | 10 | 16,5 | 65 | 1.098.6350.50 |
| PG 9 | PG 7 | 6 | 8,8 | 17 | 1.098.0907.01 |
| PG 11 | PG 7 | 6 | 9 | 20 | 1.098.1107.01 |
| PG 11 | PG 9 | 6 | 9 | 20 | 1.098.1109.01 |
| PG 13,5 | PG 9 | 6,5 | 9,5 | 22 | 1.098.1309.01 |
| PG 13,5 | PG 11 | 6,5 | 9,5 | 22 | 1.098.1311.01 |
| PG 16 | PG 9 | 6,5 | 9,5 | 24 | 1.098.1609.01 |
| PG 16 | PG 11 | 6,5 | 9,5 | 24 | 1.098.1611.01 |
| PG 16 | PG 13,5 | 6,5 | 9,5 | 24 | 1.098.1613.01 |
| PG 21 | PG 11 | 7 | 10,3 | 30 | 1.098.2111.01 |
| PG 21 | PG 13,5 | 7 | 10,3 | 30 | 1.098.2113.01 |
| PG 21 | PG 16 | 7 | 10,3 | 30 | 1.098.2116.01 |
| PG 29 | PG 16 | 8 | 11,5 | 40 | 1.098.2916.01 |
| PG 29 | PG 21 | 8 | 11,5 | 40 | 1.098.2921.01 |
| PG 36 | PG 21 | 9 | 12,5 | 50 | 1.098.3621.01 |
| PG 36 | PG 29 | 9 | 12,5 | 50 | 1.098.3629.01 |
| PG 42 | PG 29 | 10 | 13,5 | 57 | 1.098.4229.01 |
| PG 42 | PG 36 | 10 | 13,5 | 57 | 1.098.4236.01 |
| PG 48 | PG 36 | 10 | 13,5 | 64 | 1.098.4836.01 |
| PG 48 | PG 42 | 10 | 13,5 | 64 | 1.098.4842.01 |



naar de montage-instructie



Reduceren RSD-INOX-VMQ-Ex (metrisch, PG)



| | |
|-----------------------------|---|
| Materiaal | INOX 1.4305 |
| Materiaal o-ring | VMQ (Silicone) |
| Beschermingsklasse | IP 68 – 10 bar / IP 69 K |
| Ex-beschermingsgraad | II 1D Ex ta IIIC Da / II 2G Ex e IIC Gb |
| Temperatuurbereik | -60°C tot +180°C |

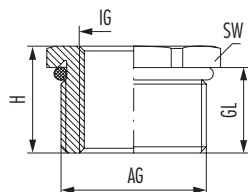
RoHS

| AG | IG | GL mm | H mm | SW mm | Item nr. |
|-----------|-----------|----------|---------|----------|---------------|
| M16 x 1,5 | M12 x 1,5 | 5 | 9 | 19 | 1.099.1612.50 |
| M20 x 1,5 | M12 x 1,5 | 6 | 9,5 | 22 | 1.099.2012.50 |
| M20 x 1,5 | M16 x 1,5 | 6 | 9,5 | 22 | 1.099.2016.50 |
| M25 x 1,5 | M16 x 1,5 | 7 | 10,5 | 30 | 1.099.2516.50 |
| M25 x 1,5 | M20 x 1,5 | 7 | 10,5 | 30 | 1.099.2520.50 |
| M32 x 1,5 | M16 x 1,5 | 8 | 12,5 | 41 | 1.099.3216.50 |
| M32 x 1,5 | M20 x 1,5 | 8 | 12,5 | 41 | 1.099.3220.50 |
| M32 x 1,5 | M25 x 1,5 | 8 | 12,5 | 41 | 1.099.3225.50 |
| M40 x 1,5 | M20 x 1,5 | 8 | 13 | 46 | 1.099.4020.50 |
| M40 x 1,5 | M25 x 1,5 | 8 | 13 | 46 | 1.099.4025.50 |
| M40 x 1,5 | M32 x 1,5 | 8 | 13 | 46 | 1.099.4032.50 |
| M50 x 1,5 | M25 x 1,5 | 9 | 13,5 | 55 | 1.099.5025.50 |
| M50 x 1,5 | M32 x 1,5 | 9 | 13,5 | 55 | 1.099.5032.50 |
| M50 x 1,5 | M40 x 1,5 | 9 | 13,5 | 55 | 1.099.5040.50 |
| M63 x 1,5 | M32 x 1,5 | 10 | 16,5 | 65 | 1.099.6332.50 |
| M63 x 1,5 | M40 x 1,5 | 10 | 16,5 | 65 | 1.099.6340.50 |
| M63 x 1,5 | M50 x 1,5 | 10 | 16,5 | 65 | 1.099.6350.50 |
| PG 9 | PG 7 | 6 | 8,8 | 17 | 1.099.0907.01 |
| PG 11 | PG 7 | 6 | 9 | 20 | 1.099.1107.01 |
| PG 11 | PG 9 | 6 | 9 | 20 | 1.099.1109.01 |
| PG 13,5 | PG 9 | 6,5 | 9,5 | 22 | 1.099.1309.01 |
| PG 13,5 | PG 11 | 6,5 | 9,5 | 22 | 1.099.1311.01 |
| PG 16 | PG 9 | 6,5 | 9,5 | 24 | 1.099.1609.01 |
| PG 16 | PG 11 | 6,5 | 9,5 | 24 | 1.099.1611.01 |
| PG 16 | PG 13,5 | 6,5 | 9,5 | 24 | 1.099.1613.01 |
| PG 21 | PG 11 | 7 | 10,3 | 30 | 1.099.2111.01 |
| PG 21 | PG 13,5 | 7 | 10,3 | 30 | 1.099.2113.01 |
| PG 21 | PG 16 | 7 | 10,3 | 30 | 1.099.2116.01 |
| PG 29 | PG 16 | 8 | 11,5 | 40 | 1.099.2916.01 |
| PG 29 | PG 21 | 8 | 11,5 | 40 | 1.099.2921.01 |
| PG 36 | PG 21 | 9 | 12,5 | 50 | 1.099.3621.01 |
| PG 36 | PG 29 | 9 | 12,5 | 50 | 1.099.3629.01 |
| PG 42 | PG 29 | 10 | 13,5 | 57 | 1.099.4229.01 |
| PG 42 | PG 36 | 10 | 13,5 | 57 | 1.099.4236.01 |
| PG 48 | PG 36 | 10 | 13,5 | 64 | 1.099.4836.01 |
| PG 48 | PG 42 | 10 | 13,5 | 64 | 1.099.4842.01 |



naar de montage-instructie





| | |
|----------------------|---|
| Materiaal | INOX 1.4404 |
| Materiaal o-ring | NBR |
| Beschermingsklasse | IP 68 – 10 bar / IP 69 K |
| Ex-beschermingsgraad | II 2G Ex db eb IIC Gb / II 1D Ex ta IIIC Da |
| Temperatuurbereik | -20°C tot +95°C |

RoHS

| AG | IG | GL mm | H mm | SW mm | Item nr. |
|-----------|-----------|----------|---------|----------|---------------|
| M16 x 1,5 | M12 x 1,5 | 16 | 19 | 19 | 1.898.1612.50 |
| M20 x 1,5 | M12 x 1,5 | 16 | 19,5 | 22 | 1.898.2012.50 |
| M20 x 1,5 | M16 x 1,5 | 16 | 19,5 | 22 | 1.898.2016.50 |
| M25 x 1,5 | M16 x 1,5 | 16 | 19,5 | 30 | 1.898.2516.50 |
| M25 x 1,5 | M20 x 1,5 | 16 | 19,5 | 30 | 1.898.2520.50 |
| M32 x 1,5 | M16 x 1,5 | 16 | 20,5 | 41 | 1.898.3216.50 |
| M32 x 1,5 | M20 x 1,5 | 16 | 20,5 | 41 | 1.898.3220.50 |
| M32 x 1,5 | M25 x 1,5 | 16 | 20,5 | 41 | 1.898.3225.50 |
| M40 x 1,5 | M20 x 1,5 | 16 | 21 | 46 | 1.898.4020.50 |
| M40 x 1,5 | M25 x 1,5 | 16 | 21 | 46 | 1.898.4025.50 |
| M40 x 1,5 | M32 x 1,5 | 16 | 21 | 46 | 1.898.4032.50 |

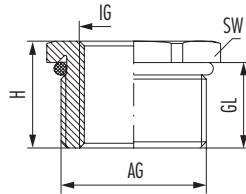


naar de montage-instructie



Ex-Toebehoren

Reduceren RSD-INOX-VMQ-Ex d (metrisch)



| | |
|----------------------|---|
| Materiaal | INOX 1.4404 |
| Materiaal o-ring | VMQ (Silicone) |
| Beschermingsklasse | IP 68 – 10 bar / IP 69 K |
| Ex-beschermingsgraad | II 2G Ex db eb IIC Gb / II 1D Ex ta IIIC Da |
| Temperatuurbereik | -60°C tot +180°C |

RoHS

| AG | IG | GL mm | H mm | SW mm | Item nr. |
|-----------|-----------|----------|---------|----------|---------------|
| M16 x 1,5 | M12 x 1,5 | 16 | 19 | 19 | 1.899.1612.50 |
| M20 x 1,5 | M12 x 1,5 | 16 | 19,5 | 22 | 1.899.2012.50 |
| M20 x 1,5 | M16 x 1,5 | 16 | 19,5 | 22 | 1.899.2016.50 |
| M25 x 1,5 | M16 x 1,5 | 16 | 19,5 | 30 | 1.899.2516.50 |
| M25 x 1,5 | M20 x 1,5 | 16 | 19,5 | 30 | 1.899.2520.50 |
| M32 x 1,5 | M16 x 1,5 | 16 | 20,5 | 41 | 1.899.3216.50 |
| M32 x 1,5 | M20 x 1,5 | 16 | 20,5 | 41 | 1.899.3220.50 |
| M32 x 1,5 | M25 x 1,5 | 16 | 20,5 | 41 | 1.899.3225.50 |
| M40 x 1,5 | M20 x 1,5 | 16 | 21 | 46 | 1.899.4020.50 |
| M40 x 1,5 | M25 x 1,5 | 16 | 21 | 46 | 1.899.4025.50 |
| M40 x 1,5 | M32 x 1,5 | 16 | 21 | 46 | 1.899.4032.50 |



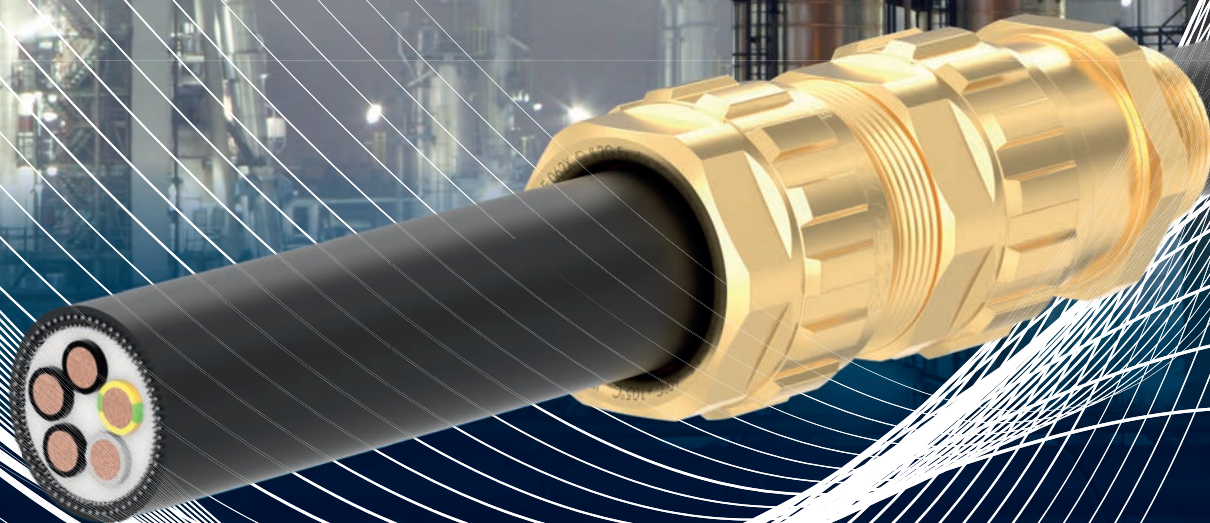
naar de montage-instructie



EXIOS KABELWARTELS VOOR „HAZARDOUS AREAS“

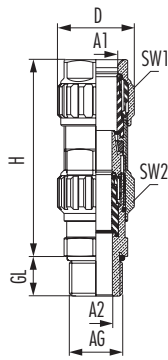
Kabelwartels voor alle populaire schroefdraden, gebruikt in elektrische apparatuur in explosieve omgevingen in de groepen I, II en III. De Ex d, Ex e en/of Ex ta gecertificeerde kabelwartels zijn ontwikkeld voor alle explosieve omgevingen waarin hoge eisen worden gesteld aan betrouwbaarheid, trekcontlasting en dichtheid, zoals scheepvaart, offshore, gastransportinstallaties, raffinaderijen en chemische industrie.

- // De innovatieve HUMMEL high-end kabelwartel voor gearmeerde kabels in hazardous areas met certificering volgens de nieuwste IECEx- en ATEX-normen, voor gebruik in Ex e-, Ex d- en Ex ta-omgevingen
- // High-end kabelwartel met extra trekcontlasting en zero torsion op armering en aders. Voor gearmeerde kabels in hazardous areas met certificering volgens de nieuwste IECEx- en ATEX-normen, voor gebruik in Ex e-, Ex d- en Ex ta-omgevingen
- // High-end kabelwartel voor gearmeerde kabels in hazardous areas met certificering volgens de nieuwste IECEx- en ATEX-normen. Voor gebruik in Ex e-, Ex d- en Ex ta-omgevingen
- // Voor niet-gearmeerde kabels in Ex e en Ex d omgevingen.



EXIOS Kabelwartels voor „Hazardous Areas“

EXIOS Standard Messing (metrisch, NPT)



| | |
|----------------------|--|
| Materiaal | Messing |
| Materiaal binnenhuis | Polyamide 6 |
| Materiaal dichtring | VMQ (Silicone) |
| Materiaal o-ring | VMQ (Silicone) |
| Armering | Metaal, gevlochten of niet gevlochten |
| Beschermingsklasse | IP 68 – 5 bar / IP 67 / IP 66 |
| Ex-beschermingsgraad | II 1D Ex ta IIIC Da / Class I Div 2 Groups A,B,C,D / Class II Div 1 Groups E,F,G |
| Temperatuurbereik | -60°C tot +105°C |

RoHS

| AG | Maat | D mm | A1 mm | A2 mm | H mm | GL mm | SW1/SW2 mm | ⊕ Nm | K1 mm | K2 mm | K3 mm | Item nr. |
|------------|------|------|-------------|-------------|-------|-------|------------|------|---------|------------|-----------|---------------|
| M16 x 1,5 | 20-1 | 27 | 6 – 12 | 3 – 8,1 | 69,5 | 16 | 22/22 | 8 | 0 – 0,7 | 0,7 – 1,25 | | 1.605.1600.50 |
| M20 x 1,5 | 20-1 | 27 | 6 – 12 | 3 – 8,1 | 69,5 | 16 | 22/22 | 8 | 0 – 0,7 | 0,7 – 1,25 | | 1.605.2000.50 |
| M20 x 1,5 | 20-2 | 29 | 9 – 16 | 6 – 12 | 74,3 | 16 | 24/24 | 8 | 0 – 0,7 | 0,7 – 1,25 | | 1.605.2000.51 |
| M20 x 1,5 | 20-3 | 35 | 12,5 – 20,5 | 9 – 14 | 80,5 | 16 | 30/30 | 12 | 0 – 0,7 | 0,7 – 1,4 | | 1.605.2000.52 |
| M25 x 1,5 | 20-3 | 35 | 12,5 – 20,5 | 9 – 14 | 80,5 | 16 | 30/30 | 12 | 0 – 0,7 | 0,7 – 1,4 | | 1.605.2500.51 |
| M25 x 1,5 | 25 | 42 | 16,9 – 26 | 12,5 – 20,5 | 91 | 16 | 36/36 | 18 | 0 – 0,7 | 0,9 – 1,6 | 0,7 – 1,4 | 1.605.2500.50 |
| M32 x 1,5 | 32 | 52 | 22 – 33 | 16,9 – 26 | 96 | 16 | 46/46 | 30 | 0 – 0,7 | 1,3 – 2 | 0,7 – 1,4 | 1.605.3200.50 |
| M40 x 1,5 | 40 | 64 | 28 – 41 | 22 – 33 | 107 | 16 | 55/55 | 50 | 0 – 0,7 | 1,3 – 2 | 0,7 – 1,4 | 1.605.4000.50 |
| M50 x 1,5 | 50 | 73 | 36 – 52,6 | 28,9 – 44,4 | 131,5 | 16 | 65/65 | 60 | 0 – 1 | 1,5 – 2,5 | 1 – 2 | 1.605.5000.50 |
| M63 x 1,5 | 63 | 90 | 46 – 65,3 | 39,9 – 56,3 | 144,5 | 16 | 80/80 | 65 | 0 – 1 | 1,5 – 2,5 | 1 – 2 | 1.605.6300.50 |
| M75 x 1,5 | 75 | 107 | 57 – 78 | 50,5 – 68,2 | 154 | 16 | 95/95 | 135 | 0 – 1 | 1,5 – 2,5 | 1 – 2 | 1.605.7500.50 |
| NPT 3/8" | 20-1 | 27 | 6 – 12 | 3 – 8,1 | 69,5 | 16 | 22/22 | 8 | 0 – 0,7 | 0,7 – 1,25 | | 1.605.3800.70 |
| NPT 1/2" | 20-2 | 29 | 9 – 16 | 6 – 12 | 74,3 | 20 | 24/24 | 8 | 0 – 0,7 | 0,7 – 1,25 | | 1.605.1200.70 |
| NPT 1/2" | 20-3 | 35 | 12,5 – 20,5 | 9 – 14 | 80,5 | 20 | 30/30 | 12 | 0 – 0,7 | 0,7 – 1,4 | | 1.605.1200.71 |
| NPT 3/4" | 25 | 42 | 16,9 – 26 | 12,5 – 20,5 | 91 | 20,5 | 36/36 | 18 | 0 – 0,7 | 0,9 – 1,6 | 0,7 – 1,4 | 1.605.3400.70 |
| NPT 1" | 32 | 52 | 22 – 33 | 16,9 – 26 | 96 | 25 | 46/46 | 30 | 0 – 0,7 | 1,3 – 2 | 0,7 – 1,4 | 1.605.1000.70 |
| NPT 1 1/4" | 40 | 64 | 28 – 41 | 22 – 33 | 107 | 26 | 55/55 | 50 | 0 – 0,7 | 1,3 – 2 | 0,7 – 1,4 | 1.605.5400.70 |
| NPT 1 1/2" | 40 | 64 | 28 – 41 | 22 – 33 | 107 | 26,5 | 55/55 | 50 | 0 – 0,7 | 1,3 – 2 | 0,7 – 1,4 | 1.605.6400.70 |
| NPT 2" | 50 | 73 | 36 – 52,6 | 28,9 – 44,4 | 131,5 | 27 | 65/65 | 60 | 0 – 1 | 1,5 – 2,5 | 1 – 2 | 1.605.2000.70 |
| NPT 2 1/2" | 63 | 90 | 46 – 65,3 | 39,9 – 56,3 | 144,5 | 40 | 80/80 | 65 | 0 – 1 | 1,5 – 2,5 | 1 – 2 | 1.605.5200.70 |
| NPT 3" | 75 | 107 | 57 – 78 | 50,5 – 68,2 | 154 | 41,5 | 95/95 | 135 | 0 – 1 | 1,5 – 2,5 | 1 – 2 | 1.605.3000.70 |



naar de productvideo

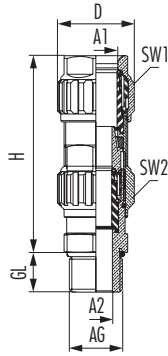


naar de montage-instructie



EXIOS Kabelwartels voor „Hazardous Areas“

EXIOS Standard Vernikkeld messing (metrisch, NPT)



| | |
|----------------------|--|
| Materiaal | Vernikkeld messing |
| Materiaal binnenhuis | Polyamide 6 |
| Materiaal dichtring | VMQ (Silicone) |
| Materiaal o-ring | VMQ (Silicone) |
| Armering | Metaal, gevlochten of niet gevlochten |
| Beschermingsklasse | IP 68 – 5 bar / IP 67 / IP 66 |
| Ex-beschermingsgraad | II 1D Ex ta IIIC Da / Class I Div 2 Groups A,B,C,D / Class II Div 1 Groups E,F,G |
| Temperatuurbereik | -60°C tot +105°C |

RoHS

| AG | Maat | D mm | A1 mm | A2 mm | H mm | GL mm | SW1/SW2 mm | ⊕ Nm | K1 mm | K2 mm | K3 mm | Item nr. |
|------------|------|------|-------------|-------------|-------|-------|------------|------|---------|------------|-----------|---------------|
| M16 x 1,5 | 20-1 | 27 | 6 – 12 | 3 – 8,1 | 69,5 | 16 | 22/22 | 8 | 0 – 0,7 | 0,7 – 1,25 | | 1.605.1603.50 |
| M20 x 1,5 | 20-1 | 27 | 6 – 12 | 3 – 8,1 | 69,5 | 16 | 22/22 | 8 | 0 – 0,7 | 0,7 – 1,25 | | 1.605.2003.50 |
| M20 x 1,5 | 20-2 | 29 | 9 – 16 | 6 – 12 | 74,3 | 16 | 24/24 | 8 | 0 – 0,7 | 0,7 – 1,25 | | 1.605.2003.51 |
| M20 x 1,5 | 20-3 | 35 | 12,5 – 20,5 | 9 – 14 | 80,5 | 16 | 30/30 | 12 | 0 – 0,7 | 0,9 – 1,6 | 0,7 – 1,4 | 1.605.2003.52 |
| M25 x 1,5 | 20-3 | 35 | 12,5 – 20,5 | 9 – 14 | 80,5 | 16 | 30/30 | 12 | 0 – 0,7 | 0,9 – 1,6 | 0,7 – 1,4 | 1.605.2503.51 |
| M25 x 1,5 | 25 | 42 | 16,9 – 26 | 12,5 – 20,5 | 91 | 16 | 36/36 | 18 | 0 – 1 | 1,5 – 2,5 | 1 – 2 | 1.605.2503.50 |
| M32 x 1,5 | 32 | 52 | 22 – 33 | 16,9 – 26 | 96 | 16 | 46/46 | 30 | 0 – 1 | 1,5 – 2,5 | 1 – 2 | 1.605.3203.50 |
| M40 x 1,5 | 40 | 64 | 28 – 41 | 22 – 33 | 107 | 16 | 55/55 | 50 | 0 – 0,7 | 1,3 – 2 | 0,7 – 1,4 | 1.605.4003.50 |
| M50 x 1,5 | 50 | 73 | 36 – 52,6 | 28,9 – 44,4 | 131,5 | 16 | 65/65 | 60 | 0 – 1 | 1,5 – 2,5 | 1 – 2 | 1.605.5003.50 |
| M63 x 1,5 | 63 | 90 | 46 – 65,3 | 39,9 – 56,3 | 144,5 | 16 | 80/80 | 65 | 0 – 1 | 1,5 – 2,5 | 1 – 2 | 1.605.6303.50 |
| M75 x 1,5 | 75 | 107 | 57 – 78 | 50,5 – 68,2 | 154 | 16 | 95/95 | 135 | 0 – 1 | 1,5 – 2,5 | 1 – 2 | 1.605.7503.50 |
| NPT 3/8" | 20-1 | 27 | 6 – 12 | 3 – 8,1 | 69,5 | 16 | 22/22 | 8 | 0 – 0,7 | 0,7 – 1,25 | | 1.605.3803.70 |
| NPT 1/2" | 20-2 | 29 | 9 – 16 | 6 – 12 | 74,3 | 20 | 24/24 | 8 | 0 – 0,7 | 0,7 – 1,25 | | 1.605.1203.70 |
| NPT 1/2" | 20-3 | 35 | 12,5 – 20,5 | 9 – 14 | 80,5 | 20 | 30/30 | 12 | 0 – 0,7 | 0,7 – 1,4 | | 1.605.1203.71 |
| NPT 3/4" | 25 | 42 | 16,9 – 26 | 12,5 – 20,5 | 91 | 20,5 | 36/36 | 18 | 0 – 0,7 | 1,3 – 2 | 0,7 – 1,4 | 1.605.3403.70 |
| NPT 1" | 32 | 52 | 22 – 33 | 16,9 – 26 | 96 | 25 | 46/46 | 30 | 0 – 0,7 | 1,3 – 2 | 0,7 – 1,4 | 1.605.1003.70 |
| NPT 1 1/4" | 40 | 64 | 28 – 41 | 22 – 33 | 107 | 26 | 55/55 | 50 | 0 – 0,7 | 1,3 – 2 | 0,7 – 1,4 | 1.605.5403.70 |
| NPT 1 1/2" | 40 | 64 | 28 – 41 | 22 – 33 | 107 | 26,5 | 55/55 | 50 | 0 – 0,7 | 1,3 – 2 | 0,7 – 1,4 | 1.605.6403.70 |
| NPT 2" | 50 | 73 | 36 – 52,6 | 28,9 – 44,4 | 131,5 | 27 | 65/65 | 60 | 0 – 0,7 | 0,7 – 1,4 | | 1.605.2003.70 |
| NPT 2 1/2" | 63 | 90 | 46 – 65,3 | 39,9 – 56,3 | 144,5 | 40 | 80/80 | 65 | 0 – 1 | 1,5 – 2,5 | 1 – 2 | 1.605.5203.70 |
| NPT 3" | 75 | 107 | 57 – 78 | 50,5 – 68,2 | 154 | 41,5 | 95/95 | 135 | 0 – 0,7 | 0,7 – 1,4 | | 1.605.3003.70 |



naar de productvideo

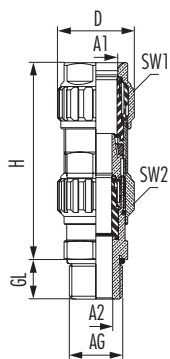


naar de montage-instructie



EXIOS Kabelwartels voor „Hazardous Areas“

EXIOS Standard INOX (metrisch, NPT)



| | |
|----------------------|--|
| Materiaal | INOX 1.4404 |
| Materiaal binnenhuis | Polyamide 6 |
| Materiaal dichtring | VMQ (Silicone) |
| Materiaal o-ring | VMQ (Silicone) |
| Armering | Metaal, gevlochten of niet gevlochten |
| Beschermingsklasse | IP 68 – 5 bar / IP 67 / IP 66 |
| Ex-beschermingsgraad | II 1D Ex ta IIIC Da / Class I Div 2 Groups A,B,C,D / Class II Div 1 Groups E,F,G |
| Temperatuurbereik | -60°C tot +105°C |

RoHS

| AG | Maat | D mm | A1 mm | A2 mm | H mm | GL mm | SW1/SW2 mm | ⊕ Nm | K1 mm | K2 mm | K3 mm | Item nr. |
|------------|------|------|-------------|-------------|-------|-------|------------|------|---------|------------|-----------|---------------|
| M16 x 1,5 | 20-1 | 27 | 6 – 12 | 3 – 8,1 | 69,5 | 16 | 22/22 | 8 | 0 – 0,7 | 0,7 – 1,25 | | 1.605.1602.50 |
| M20 x 1,5 | 20-1 | 27 | 6 – 12 | 3 – 8,1 | 69,5 | 16 | 22/22 | 8 | 0 – 0,7 | 0,7 – 1,25 | | 1.605.2002.50 |
| M20 x 1,5 | 20-2 | 29 | 9 – 16 | 6 – 12 | 74,3 | 16 | 24/24 | 8 | 0 – 0,7 | 0,7 – 1,25 | | 1.605.2002.51 |
| M20 x 1,5 | 20-3 | 35 | 12,5 – 20,5 | 9 – 14 | 80,5 | 16 | 30/30 | 12 | 0 – 0,7 | 0,9 – 1,6 | 0,7 – 1,4 | 1.605.2002.52 |
| M25 x 1,5 | 20-3 | 35 | 12,5 – 20,5 | 9 – 14 | 80,5 | 16 | 30/30 | 12 | 0 – 0,7 | 0,9 – 1,6 | 0,7 – 1,4 | 1.605.2502.51 |
| M25 x 1,5 | 25 | 42 | 16,9 – 26 | 12,5 – 20,5 | 91 | 16 | 36/36 | 18 | 0 – 1 | 1,5 – 2,5 | 1 – 2 | 1.605.2502.50 |
| M32 x 1,5 | 32 | 52 | 22 – 33 | 16,9 – 26 | 96 | 16 | 46/46 | 30 | 0 – 1 | 1,5 – 2,5 | 1 – 2 | 1.605.3202.50 |
| M40 x 1,5 | 40 | 64 | 28 – 41 | 22 – 33 | 107 | 16 | 55/55 | 50 | 0 – 0,7 | 1,3 – 2 | 0,7 – 1,4 | 1.605.4002.50 |
| M50 x 1,5 | 50 | 73 | 36 – 52,6 | 28,9 – 44,4 | 131,5 | 16 | 65/65 | 60 | 0 – 1 | 1,5 – 2,5 | 1 – 2 | 1.605.5002.50 |
| M63 x 1,5 | 63 | 90 | 46 – 65,3 | 39,9 – 56,3 | 144,5 | 16 | 80/80 | 65 | 0 – 1 | 1,5 – 2,5 | 1 – 2 | 1.605.6302.50 |
| M75 x 1,5 | 75 | 107 | 57 – 78 | 50,5 – 68,2 | 154 | 16 | 95/95 | 135 | 0 – 1 | 1,5 – 2,5 | 1 – 2 | 1.605.7502.50 |
| NPT 3/8" | 20-1 | 27 | 6 – 12 | 3 – 8,1 | 69,5 | 16 | 22/22 | 8 | 0 – 0,7 | 0,7 – 1,25 | | 1.605.3802.70 |
| NPT 1/2" | 20-2 | 29 | 9 – 16 | 6 – 12 | 74,3 | 20 | 24/24 | 8 | 0 – 0,7 | 0,7 – 1,25 | | 1.605.1202.70 |
| NPT 1/2" | 20-3 | 35 | 12,5 – 20,5 | 9 – 14 | 80,5 | 20 | 30/30 | 12 | 0 – 0,7 | 0,7 – 1,4 | | 1.605.1202.71 |
| NPT 3/4" | 25 | 42 | 16,9 – 26 | 12,5 – 20,5 | 91 | 20,5 | 36/36 | 18 | 0 – 0,7 | 1,3 – 2 | 0,7 – 1,4 | 1.605.3402.70 |
| NPT 1" | 32 | 52 | 22 – 33 | 16,9 – 26 | 96 | 25 | 46/46 | 30 | 0 – 0,7 | 1,3 – 2 | 0,7 – 1,4 | 1.605.1002.70 |
| NPT 1 1/4" | 40 | 64 | 28 – 41 | 22 – 33 | 107 | 26 | 55/55 | 50 | 0 – 0,7 | 1,3 – 2 | 0,7 – 1,4 | 1.605.5402.70 |
| NPT 1 1/2" | 40 | 64 | 28 – 41 | 22 – 33 | 107 | 26,5 | 55/55 | 50 | 0 – 0,7 | 1,3 – 2 | 0,7 – 1,4 | 1.605.6402.70 |
| NPT 2" | 50 | 73 | 36 – 52,6 | 28,9 – 44,4 | 131,5 | 27 | 65/65 | 60 | 0 – 0,7 | 0,7 – 1,4 | | 1.605.2002.70 |
| NPT 2 1/2" | 63 | 90 | 46 – 65,3 | 39,9 – 56,3 | 144,5 | 40 | 80/80 | 65 | 0 – 1 | 1,5 – 2,5 | 1 – 2 | 1.605.5202.70 |
| NPT 3" | 75 | 107 | 57 – 78 | 50,5 – 68,2 | 154 | 41,5 | 95/95 | 135 | 0 – 0,7 | 0,7 – 1,4 | | 1.605.3002.70 |

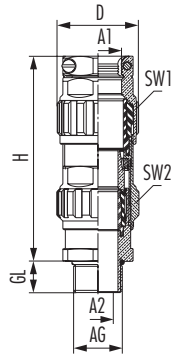


naar de productvideo



naar de montage-instructie





| | |
|----------------------|--|
| Materiaal | Messing |
| Materiaal binnenhuis | Polyamide 6 |
| Materiaal dichtring | VMQ (Silicone) |
| Materiaal o-ring | VMQ (Silicone) |
| Armering | Metaal, gevlochten of niet gevlochten |
| Beschermingsklasse | IP 68 – 5 bar / IP 67 / IP 66 |
| Ex-beschermingsgraad | II 1D Ex ta IIIC Da / Class I Div 2 Groups A,B,C,D / Class II Div 1 Groups E,F,G |
| Temperatuurbereik | -60°C tot +105°C |

RoHS

| AG | Maat | D mm | A1 mm | A2 mm | GL mm | H mm | SW1/SW2 mm | ⊕ Nm | K1 mm | K2 mm | K3 mm | Item nr. |
|------------|------|------|-------------|-------------|-------|-------|------------|------|---------|------------|-----------|---------------|
| M16 x 1,5 | 20-1 | 27 | 6 – 11 | 3 – 8,1 | 16 | 79 | 22/22 | 8 | 0 – 0,7 | 0,7 – 1,25 | | 1.6Z5.1600.50 |
| M20 x 1,5 | 20-1 | 27 | 6 – 11 | 3 – 8,1 | 16 | 79 | 22/22 | 8 | 0 – 0,7 | 0,7 – 1,25 | | 1.6Z5.2000.50 |
| M20 x 1,5 | 20-2 | 29 | 9 – 13 | 9 – 12 | 16 | 83,8 | 24/24 | 8 | 0 – 0,7 | 0,7 – 1,25 | | 1.6Z5.2000.51 |
| M20 x 1,5 | 20-3 | 35 | 12,5 – 17,5 | 9 – 14 | 16 | 91,5 | 30/30 | 12 | 0 – 0,7 | 0,7 – 1,4 | | 1.6Z5.2000.52 |
| M25 x 1,5 | 20-3 | 35 | 12,5 – 17,5 | 9 – 14 | 16 | 91,5 | 30/30 | 12 | 0 – 0,7 | 0,7 – 1,4 | | 1.6Z5.2500.51 |
| M25 x 1,5 | 25 | 42 | 16,9 – 24 | 12,5 – 20,5 | 16 | 105,7 | 36/36 | 18 | 0 – 0,7 | 0,9 – 1,6 | 0,7 – 1,4 | 1.6Z5.2500.50 |
| M32 x 1,5 | 32 | 52 | 22 – 32,5 | 16,9 – 26 | 16 | 107 | 46/46 | 30 | 0 – 0,7 | 1,3 – 2 | 0,7 – 1,4 | 1.6Z5.3200.50 |
| M40 x 1,5 | 40 | 64 | 28 – 39,5 | 22 – 33 | 16 | 120 | 55/55 | 50 | 0 – 0,7 | 1,3 – 2 | 0,7 – 1,4 | 1.6Z5.4000.50 |
| M50 x 1,5 | 50 | 73 | 36 – 49 | 28,9 – 44,4 | 16 | 144,5 | 65/65 | 60 | 0 – 1 | 1,5 – 2,5 | 1 – 2 | 1.6Z5.5000.50 |
| M63 x 1,5 | 63 | 90 | 46 – 64 | 39,9 – 56,3 | 16 | 157,5 | 80/80 | 65 | 0 – 1 | 1,5 – 2,5 | 1 – 2 | 1.6Z5.6300.50 |
| M75 x 1,5 | 75 | 107 | 57 – 78 | 50,5 – 68,2 | 16 | 167 | 95/95 | 135 | 0 – 1 | 1,5 – 2,5 | 1 – 2 | 1.6Z5.7500.50 |
| NPT 3/8" | 20-1 | 27 | 6 – 11 | 3 – 8,1 | 16 | 79 | 22/22 | 8 | 0 – 0,7 | 0,7 – 1,25 | | 1.6Z5.3800.70 |
| NPT 1/2" | 20-2 | 29 | 9 – 13 | 6 – 12 | 20 | 83,8 | 24/24 | 8 | 0 – 0,7 | 0,7 – 1,25 | | 1.6Z5.1200.70 |
| NPT 1/2" | 20-3 | 35 | 12,5 – 17,5 | 9 – 14 | 20 | 91,5 | 30/30 | 12 | 0 – 0,7 | 0,7 – 1,4 | | 1.6Z5.1200.71 |
| NPT 3/4" | 25 | 42 | 16,9 – 24 | 12,5 – 20,5 | 20,5 | 105,7 | 36/36 | 18 | 0 – 0,7 | 0,9 – 1,6 | 0,7 – 1,4 | 1.6Z5.3400.70 |
| NPT 1" | 32 | 52 | 22 – 32,5 | 16,9 – 26 | 25 | 107 | 46/46 | 30 | 0 – 0,7 | 1,3 – 2 | 0,7 – 1,4 | 1.6Z5.1000.70 |
| NPT 1 1/4" | 40 | 64 | 28 – 39,5 | 22 – 33 | 26 | 120 | 55/55 | 50 | 0 – 0,7 | 1,3 – 2 | 0,7 – 1,4 | 1.6Z5.5400.70 |
| NPT 1 1/2" | 40 | 64 | 28 – 39,5 | 22 – 33 | 26,5 | 120 | 55/55 | 50 | 0 – 0,7 | 1,3 – 2 | 0,7 – 1,4 | 1.6Z5.6400.70 |
| NPT 2" | 50 | 73 | 36 – 49 | 28,9 – 44,4 | 27 | 144,5 | 65/65 | 60 | 0 – 1 | 1,5 – 2,5 | 1 – 2 | 1.6Z5.2000.70 |
| NPT 2 1/2" | 63 | 90 | 46 – 64 | 39,9 – 56,3 | 40 | 157,5 | 80/80 | 65 | 0 – 1 | 1,5 – 2,5 | 1 – 2 | 1.6Z5.5200.70 |
| NPT 3" | 75 | 107 | 57 – 78 | 50,5 – 68,2 | 41,5 | 167 | 95/95 | 135 | 0 – 1 | 1,5 – 2,5 | 1 – 2 | 1.6Z5.3000.70 |

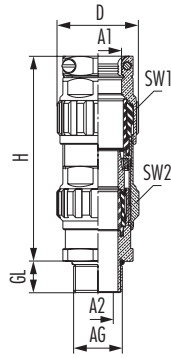


naar de montage-instructie



EXIOS Kabelwartels voor „Hazardous Areas“

EXIOS MZ Vernikkeld messing (metrisch, NPT)



| | |
|----------------------|--|
| Materiaal | Vernikkeld messing |
| Materiaal binnenhuis | Polyamide 6 |
| Materiaal dichtring | VMQ (Silicone) |
| Materiaal o-ring | VMQ (Silicone) |
| Armering | Metaal, gevlochten of niet gevlochten |
| Beschermingsklasse | IP 68 – 5 bar / IP 67 / IP 66 |
| Ex-beschermingsgraad | II 1D Ex ta IIIC Da / Class I Div 2 Groups A,B,C,D / Class II Div 1 Groups E,F,G |
| Temperatuurbereik | -60°C tot +105°C |

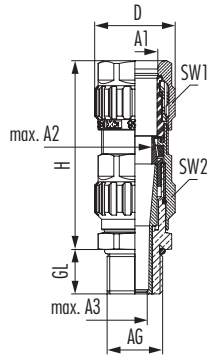
RoHS

| AG | Maat | D mm | A1 mm | A2 mm | GL mm | H mm | SW1/SW2 mm | ⊕ Nm | K1 mm | K2 mm | K3 mm | Item nr. |
|------------|------|---------|-------------|-------------|----------|---------|---------------|---------|----------|------------|-----------|---------------|
| M16 x 1,5 | 20-1 | 27 | 6 – 11 | 3 – 8,1 | 16 | 79 | 22/22 | 8 | 0 – 0,7 | 0,7 – 1,25 | | 1.625.1603.50 |
| M20 x 1,5 | 20-1 | 27 | 6 – 11 | 3 – 8,1 | 16 | 79 | 22/22 | 8 | 0 – 0,7 | 0,7 – 1,25 | | 1.625.2003.50 |
| M20 x 1,5 | 20-2 | 29 | 9 – 13 | 9 – 12 | 16 | 83,8 | 24/24 | 8 | 0 – 0,7 | 0,7 – 1,25 | | 1.625.2003.51 |
| M20 x 1,5 | 20-3 | 35 | 12,5 – 17,5 | 9 – 14 | 16 | 91,5 | 30/30 | 12 | 0 – 0,7 | 0,7 – 1,4 | | 1.625.2003.52 |
| M25 x 1,5 | 20-3 | 35 | 12,5 – 17,5 | 9 – 14 | 16 | 91,5 | 30/30 | 12 | 0 – 0,7 | 0,7 – 1,4 | | 1.625.2503.51 |
| M25 x 1,5 | 25 | 42 | 16,9 – 24 | 12,5 – 20,5 | 16 | 105,7 | 36/36 | 18 | 0 – 0,7 | 0,9 – 1,6 | 0,7 – 1,4 | 1.625.2503.50 |
| M32 x 1,5 | 32 | 52 | 22 – 32,5 | 16,9 – 26 | 16 | 107 | 46/46 | 30 | 0 – 0,7 | 1,3 – 2 | 0,7 – 1,4 | 1.625.3203.50 |
| M40 x 1,5 | 40 | 64 | 28 – 39,5 | 22 – 33 | 16 | 120 | 55/55 | 50 | 0 – 0,7 | 1,3 – 2 | 0,7 – 1,4 | 1.625.4003.50 |
| M50 x 1,5 | 50 | 73 | 36 – 49 | 28,9 – 44,4 | 16 | 144,5 | 65/65 | 60 | 0 – 1 | 1,5 – 2,5 | 1 – 2 | 1.625.5003.50 |
| M63 x 1,5 | 63 | 90 | 46 – 64 | 39,9 – 56,3 | 16 | 157,5 | 80/80 | 65 | 0 – 1 | 1,5 – 2,5 | 1 – 2 | 1.625.6303.50 |
| M75 x 1,5 | 75 | 107 | 57 – 78 | 50,5 – 68,2 | 16 | 167 | 95/95 | 135 | 0 – 1 | 1,5 – 2,5 | 1 – 2 | 1.625.7503.50 |
| NPT 3/8" | 20-1 | 27 | 6 – 11 | 3 – 8,1 | 16 | 79 | 22/22 | 8 | 0 – 0,7 | 0,7 – 1,25 | | 1.625.3803.70 |
| NPT 1/2" | 20-2 | 29 | 9 – 13 | 6 – 12 | 20 | 83,8 | 24/24 | 8 | 0 – 0,7 | 0,7 – 1,25 | | 1.625.1203.70 |
| NPT 1/2" | 20-3 | 35 | 12,5 – 17,5 | 9 – 14 | 20 | 91,5 | 30/30 | 12 | 0 – 0,7 | 0,7 – 1,4 | | 1.625.1203.71 |
| NPT 3/4" | 25 | 42 | 16,9 – 24 | 12,5 – 20,5 | 20,5 | 105,7 | 36/36 | 18 | 0 – 0,7 | 0,9 – 1,6 | 0,7 – 1,4 | 1.625.3403.70 |
| NPT 1" | 32 | 52 | 22 – 32,5 | 16,9 – 26 | 25 | 107 | 46/46 | 30 | 0 – 0,7 | 1,3 – 2 | 0,7 – 1,4 | 1.625.1003.70 |
| NPT 1 1/4" | 40 | 64 | 28 – 39,5 | 22 – 33 | 26 | 120 | 55/55 | 50 | 0 – 0,7 | 1,3 – 2 | 0,7 – 1,4 | 1.625.5403.70 |
| NPT 1 1/2" | 40 | 64 | 28 – 39,5 | 22 – 33 | 26,5 | 120 | 55/55 | 50 | 0 – 0,7 | 1,3 – 2 | 0,7 – 1,4 | 1.625.6403.70 |
| NPT 2" | 50 | 73 | 36 – 49 | 28,9 – 44,4 | 27 | 144,5 | 65/65 | 60 | 0 – 1 | 1,5 – 2,5 | 1 – 2 | 1.625.2003.70 |
| NPT 2 1/2" | 63 | 90 | 46 – 64 | 39,9 – 56,3 | 40 | 157,5 | 80/80 | 65 | 0 – 1 | 1,5 – 2,5 | 1 – 2 | 1.625.5203.70 |
| NPT 3" | 75 | 107 | 57 – 78 | 50,5 – 68,2 | 41,5 | 167 | 95/95 | 135 | 0 – 1 | 1,5 – 2,5 | 1 – 2 | 1.625.3003.70 |



naar de montage-instructie





| | |
|----------------------|--|
| Materiaal | Messing |
| Materiaal binnenhuis | Polyamide 6 |
| Materiaal dichtring | VMQ (Silicone) |
| Materiaal o-ring | VMQ (Silicone) |
| Armering | Metaal, gevlochten of niet gevlochten |
| Compound | Epoxy tweecomponentenknepasta |
| Beschermingsklasse | IP 68 – 5 bar / IP 67 / IP 66 |
| Ex-beschermingsgraad | I M2 Ex ta IIIC Da / Class I Div 2 Groups A,B,C,D / Class II Div 1 Groups E,F,G / I M2 Ex de / I Mb IIC Gb |
| Temperatuurbereik | -60°C tot +85°C |

RoHS

| AG | Maat | D mm | A1 mm | max. A2 mm | max. A3 mm | GL mm | H mm | SW1/SW2 mm | ⊕ Nm | max. No. cores | K1 mm | K2 mm | Item nr. |
|------------|------|---------|-------------|---------------|---------------|----------|---------|---------------|---------|-------------------|----------|------------|---------------|
| M16 x 1,5 | 20-1 | 27 | 6 – 12 | 8,2 | 7,9 | 16 | 64 | 22/22 | 8 | 8 | 0 – 0,7 | 0,7 – 1,25 | 1.606.1600.50 |
| M20 x 1,5 | 20-1 | 27 | 6 – 12 | 8,2 | 7,9 | 16 | 64 | 22/22 | 8 | 8 | 0 – 0,7 | 0,7 – 1,25 | 1.606.2000.50 |
| M20 x 1,5 | 20-2 | 29 | 9 – 16 | 12 | 8,8 | 16 | 68 | 24/24 | 12 | 10 | 0 – 0,7 | 0,7 – 1,25 | 1.606.2000.51 |
| M20 x 1,5 | 20-3 | 35 | 12,5 – 20,5 | 14 | 11,5 | 16 | 73 | 30/30 | 12 | 15 | 0 – 0,7 | 0,7 – 1,4 | 1.606.2000.52 |
| M25 x 1,5 | 20-3 | 35 | 12,5 – 20,5 | 14 | 11,5 | 16 | 73 | 30/30 | 12 | 15 | 0 – 0,7 | 0,7 – 1,4 | 1.606.2500.51 |
| M25 x 1,5 | 25 | 42 | 16,9 – 26 | 20 | 16,4 | 16 | 81,3 | 36/36 | 18 | 25 | 0 – 0,7 | 0,9 – 1,6 | 1.606.2500.50 |
| M32 x 1,5 | 32 | 52 | 22 – 33 | 26 | 21,4 | 16 | 85,5 | 46/46 | 30 | 45 | 0 – 0,7 | 1,3 – 2 | 1.606.3200.50 |
| M40 x 1,5 | 40 | 64 | 28 – 41 | 33,2 | 27,6 | 16 | 94,4 | 55/55 | 50 | 70 | 0 – 0,7 | 1,3 – 2 | 1.606.4000.50 |
| M50 x 1,5 | 50 | 73 | 36 – 52,6 | 44,2 | 37,5 | 16 | 116,3 | 65/65 | 60 | 85 | 0 – 1 | 1,5 – 2,5 | 1.606.5000.50 |
| M63 x 1,5 | 63 | 90 | 46 – 65,3 | 56,2 | 47,3 | 16 | 127,6 | 80/80 | 65 | 120 | 0 – 1 | 1,5 – 2,5 | 1.606.6300.50 |
| M75 x 1,5 | 75 | 107 | 57 – 78 | 68,2 | 58,0 | 16 | 136,5 | 95/95 | 135 | 150 | 0 – 1 | 1,5 – 2,5 | 1.606.7500.50 |
| NPT 3/8" | 20-1 | 27 | 6 – 12 | 8,2 | 7,9 | 16 | 64 | 22/22 | 8 | 8 | 0 – 0,7 | 0,7 – 1,25 | 1.606.3800.70 |
| NPT 1/2" | 20-2 | 29 | 9 – 16 | 12 | 8,8 | 20 | 68 | 24/24 | 12 | 10 | 0 – 0,7 | 0,7 – 1,25 | 1.606.1200.70 |
| NPT 1/2" | 20-3 | 35 | 12,5 – 20,5 | 14 | 11,5 | 20 | 73 | 30/30 | 12 | 15 | 0 – 0,7 | 0,7 – 1,4 | 1.606.1200.71 |
| NPT 3/4" | 25 | 42 | 16,9 – 26 | 20 | 16,4 | 20,5 | 81,3 | 36/36 | 18 | 25 | 0 – 0,7 | 0,9 – 1,6 | 1.606.3400.70 |
| NPT 1" | 32 | 52 | 22 – 32,5 | 26 | 21,4 | 25 | 85,5 | 46/46 | 30 | 45 | 0 – 0,7 | 1,3 – 2 | 1.606.1000.70 |
| NPT 1 1/4" | 40 | 64 | 28 – 41 | 33,2 | 27,6 | 26 | 94,4 | 55/55 | 50 | 70 | 0 – 0,7 | 1,3 – 2 | 1.606.5400.70 |
| NPT 1 1/2" | 40 | 64 | 28 – 41 | 33,2 | 27,6 | 26,5 | 94,4 | 55/55 | 50 | 70 | 0 – 0,7 | 1,3 – 2 | 1.606.6400.70 |
| NPT 2" | 50 | 73 | 36 – 52,6 | 44,2 | 37,5 | 27 | 116,3 | 65/65 | 60 | 85 | 0 – 1 | 1,5 – 2,5 | 1.606.2000.70 |
| NPT 2 1/2" | 63 | 90 | 46 – 65,3 | 56,2 | 47,3 | 40 | 127,6 | 80/80 | 65 | 120 | 0 – 1 | 1,5 – 2,5 | 1.606.5200.70 |
| NPT 3" | 75 | 107 | 57 – 78 | 68,2 | 58,0 | 41,5 | 136,5 | 95/95 | 135 | 150 | 0 – 1 | 1,5 – 2,5 | 1.606.3000.70 |



naar de productvideo

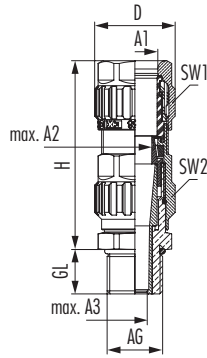


naar de montage-instructie



EXIOS Kabelwartels voor „Hazardous Areas“

EXIOS Barrier Vernikkeld messing (metrisch, NPT)



| | |
|----------------------|--|
| Materiaal | Vernikkeld messing |
| Materiaal binnenhuis | Polyamide 6 |
| Materiaal dichtring | VMQ (Silicone) |
| Materiaal o-ring | VMQ (Silicone) |
| Armering | Metaal, gevlochten of niet gevlochten |
| Compound | Epoxy tweecomponentenknepasta |
| Beschermingsklasse | IP 68 – 5 bar / IP 67 / IP 66 |
| Ex-beschermingsgraad | I M2 Ex ta IIIC Da / Class I Div 2 Groups A,B,C,D / Class II Div 1 Groups E,F,G / I M2 Ex de / I Mb IIC Gb |
| Temperatuurbereik | -60°C tot +85°C |

RoHS

| AG | Maat | D mm | A1 mm | max. A2 mm | max. A3 mm | GL mm | H mm | SW1/SW2 mm | ⊕ Nm | max. No. cores | K1 mm | K2 mm | Item nr. |
|------------|------|---------|-------------|---------------|---------------|----------|---------|---------------|---------|-------------------|----------|------------|---------------|
| M16 x 1,5 | 20-1 | 27 | 6 – 12 | 8,2 | 7,9 | 16 | 64 | 22/22 | 8 | 8 | 0 – 0,7 | 0,7 – 1,25 | 1.606.1603.50 |
| M20 x 1,5 | 20-1 | 27 | 6 – 12 | 8,2 | 7,9 | 16 | 64 | 22/22 | 8 | 8 | 0 – 0,7 | 0,7 – 1,25 | 1.606.2003.50 |
| M20 x 1,5 | 20-2 | 29 | 9 – 16 | 12 | 8,8 | 16 | 68 | 24/24 | 12 | 10 | 0 – 0,7 | 0,7 – 1,25 | 1.606.2003.51 |
| M20 x 1,5 | 20-3 | 35 | 12,5 – 20,5 | 14 | 11,5 | 16 | 73 | 30/30 | 12 | 15 | 0 – 0,7 | 0,7 – 1,4 | 1.606.2003.52 |
| M25 x 1,5 | 20-3 | 35 | 12,5 – 20,5 | 14 | 11,5 | 16 | 73 | 30/30 | 12 | 15 | 0 – 0,7 | 0,7 – 1,4 | 1.606.2503.51 |
| M25 x 1,5 | 25 | 42 | 16,9 – 26 | 20 | 16,4 | 16 | 81,3 | 36/36 | 18 | 25 | 0 – 0,7 | 0,9 – 1,6 | 1.606.2503.50 |
| M32 x 1,5 | 32 | 52 | 22 – 33 | 26 | 21,4 | 16 | 85,5 | 46/46 | 30 | 45 | 0 – 0,7 | 1,3 – 2 | 1.606.3203.50 |
| M40 x 1,5 | 40 | 64 | 28 – 41 | 33,2 | 27,6 | 16 | 94,4 | 55/55 | 50 | 70 | 0 – 0,7 | 1,3 – 2 | 1.606.4003.50 |
| M50 x 1,5 | 50 | 73 | 36 – 52,6 | 44,2 | 37,5 | 16 | 116,3 | 65/65 | 60 | 85 | 0 – 1 | 1,5 – 2,5 | 1.606.5003.50 |
| M63 x 1,5 | 63 | 90 | 46 – 65,3 | 56,2 | 47,3 | 16 | 127,6 | 80/80 | 65 | 120 | 0 – 1 | 1,5 – 2,5 | 1.606.6303.50 |
| M75 x 1,5 | 75 | 107 | 57 – 78 | 68,2 | 58,0 | 16 | 136,5 | 95/95 | 135 | 150 | 0 – 1 | 1,5 – 2,5 | 1.606.7503.50 |
| NPT 3/8" | 20-1 | 27 | 6 – 12 | 8,2 | 7,9 | 16 | 64 | 22/22 | 8 | 8 | 0 – 0,7 | 0,7 – 1,25 | 1.606.3803.70 |
| NPT 1/2" | 20-2 | 29 | 9 – 16 | 12 | 8,8 | 20 | 68 | 24/24 | 12 | 10 | 0 – 0,7 | 0,7 – 1,25 | 1.606.1203.70 |
| NPT 1/2" | 20-3 | 35 | 12,5 – 20,5 | 14 | 11,5 | 20 | 73 | 30/30 | 12 | 15 | 0 – 0,7 | 0,7 – 1,4 | 1.606.1203.71 |
| NPT 3/4" | 25 | 42 | 16,9 – 26 | 20 | 16,4 | 20,5 | 81,3 | 36/36 | 18 | 25 | 0 – 0,7 | 0,9 – 1,6 | 1.606.3403.70 |
| NPT 1" | 32 | 52 | 22 – 32,5 | 26 | 21,4 | 25 | 85,5 | 46/46 | 30 | 45 | 0 – 0,7 | 1,3 – 2 | 1.606.1003.70 |
| NPT 1 1/4" | 40 | 64 | 28 – 41 | 33,2 | 27,6 | 26 | 94,4 | 55/55 | 50 | 70 | 0 – 0,7 | 1,3 – 2 | 1.606.5403.70 |
| NPT 1 1/2" | 40 | 64 | 28 – 41 | 33,2 | 27,6 | 26,5 | 94,4 | 55/55 | 50 | 70 | 0 – 0,7 | 1,3 – 2 | 1.606.6403.70 |
| NPT 2" | 50 | 73 | 36 – 52,6 | 44,2 | 37,5 | 27 | 116,3 | 65/65 | 60 | 85 | 0 – 1 | 1,5 – 2,5 | 1.606.2003.70 |
| NPT 2 1/2" | 63 | 90 | 46 – 65,3 | 56,2 | 47,3 | 40 | 127,6 | 80/80 | 65 | 120 | 0 – 1 | 1,5 – 2,5 | 1.606.5203.70 |
| NPT 3" | 75 | 107 | 57 – 78 | 68,2 | 58,0 | 41,5 | 136,5 | 95/95 | 135 | 150 | 0 – 1 | 1,5 – 2,5 | 1.606.3003.70 |



naar de productvideo

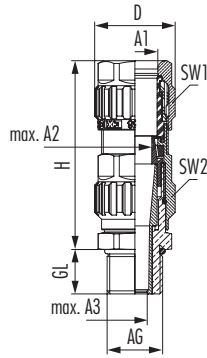


naar de montage-instructie



EXIOS Kabelwartels voor „Hazardous Areas“

EXIOS Barrier INOX (metrisch, NPT)



| | |
|----------------------|--|
| Materiaal | INOX 1.4404 |
| Materiaal binnenhuis | Polyamide 6 |
| Materiaal dichtring | VMQ (Silicone) |
| Materiaal o-ring | VMQ (Silicone) |
| Armering | Metaal, gevlochten of niet gevlochten |
| Compound | Epoxy tweecomponentenknepasta |
| Beschermingsklasse | IP 68 – 5 bar / IP 67 / IP 66 |
| Ex-beschermingsgraad | I M2 Ex ta IIIC Da / Class I Div 2 Groups A,B,C,D / Class II Div 1 Groups E,F,G / I M2 Ex de / I Mb IIC Gb |
| Temperatuurbereik | -60°C tot +85°C |

RoHS

| AG | Maat | D mm | A1 mm | max. A2 mm | max. A3 mm | GL mm | H mm | SW1/SW2 mm | ⊕ Nm | max. No. cores | K1 mm | K2 mm | Item nr. |
|------------|------|---------|-------------|---------------|---------------|----------|---------|---------------|---------|-------------------|----------|------------|---------------|
| M16 x 1,5 | 20-1 | 27 | 6 – 12 | 8,2 | 7,9 | 16 | 68,5 | 22/22 | 8 | 8 | 0 – 0,7 | 0,7 – 1,25 | 1.606.1602.50 |
| M20 x 1,5 | 20-1 | 27 | 6 – 12 | 8,2 | 7,9 | 16 | 68,5 | 22/22 | 8 | 8 | 0 – 0,7 | 0,7 – 1,25 | 1.606.2002.50 |
| M20 x 1,5 | 20-2 | 29 | 9 – 16 | 12 | 8,8 | 16 | 74,3 | 24/24 | 12 | 10 | 0 – 0,7 | 0,7 – 1,25 | 1.606.2002.51 |
| M20 x 1,5 | 20-3 | 35 | 12,5 – 20,5 | 14 | 11,5 | 16 | 80,5 | 30/30 | 12 | 15 | 0 – 0,7 | 0,7 – 1,4 | 1.606.2002.52 |
| M25 x 1,5 | 20-3 | 35 | 12,5 – 20,5 | 14 | 11,5 | 16 | 80,5 | 30/30 | 12 | 15 | 0 – 0,7 | 0,7 – 1,4 | 1.606.2502.51 |
| M25 x 1,5 | 25 | 42 | 17 – 26 | 20 | 16,4 | 16 | 91 | 36/36 | 18 | 25 | 0 – 0,7 | 0,9 – 1,6 | 1.606.2502.50 |
| M32 x 1,5 | 32 | 52 | 22 – 33 | 26 | 21,4 | 16 | 96 | 46/46 | 30 | 45 | 0 – 0,7 | 1,3 – 2 | 1.606.3202.50 |
| M40 x 1,5 | 40 | 64 | 28 – 41 | 33,2 | 27,6 | 16 | 107 | 55/55 | 50 | 70 | 0 – 0,7 | 1,3 – 2 | 1.606.4002.50 |
| M50 x 1,5 | 50 | 73 | 36 – 52,6 | 44,2 | 37,5 | 16 | 131,5 | 65/65 | 60 | 85 | 0 – 1 | 1,5 – 2,5 | 1.606.5002.50 |
| M63 x 1,5 | 63 | 90 | 46 – 66 | 56,2 | 47,3 | 16 | 144,5 | 80/80 | 65 | 120 | 0 – 1 | 1,5 – 2,5 | 1.606.6302.50 |
| M75 x 1,5 | 75 | 107 | 58 – 78 | 68,2 | 58 | 16 | 154 | 95/95 | 135 | 150 | 0 – 1 | 1,5 – 2,5 | 1.606.7502.50 |
| NPT 3/8" | 20-1 | 27 | 6 – 12 | 8,2 | 7,9 | 16 | 64 | 22/22 | 8 | 8 | 0 – 0,7 | 0,7 – 1,25 | 1.606.3802.70 |
| NPT 1/2" | 20-2 | 29 | 9 – 16 | 12 | 8,8 | 16 | 68 | 24/24 | 12 | 10 | 0 – 0,7 | 0,7 – 1,25 | 1.606.1202.70 |
| NPT 1/2" | 20-3 | 35 | 12,5 – 20,5 | 14 | 11,5 | 16 | 73 | 30/30 | 12 | 15 | 0 – 0,7 | 0,7 – 1,4 | 1.606.1202.71 |
| NPT 3/4" | 25 | 42 | 17 – 26 | 20 | 16,4 | 16 | 81,3 | 36/36 | 18 | 25 | 0 – 0,7 | 0,9 – 1,6 | 1.606.3402.70 |
| NPT 1" | 32 | 52 | 22 – 33 | 26 | 21,4 | 16 | 85,5 | 46/46 | 30 | 45 | 0 – 0,7 | 1,3 – 2 | 1.606.1002.70 |
| NPT 1 1/4" | 40 | 64 | 28 – 41 | 33,2 | 27,6 | 16 | 94,4 | 55/55 | 50 | 70 | 0 – 0,7 | 1,3 – 2 | 1.606.5402.70 |
| NPT 1 1/2" | 40 | 64 | 28 – 41 | 33,2 | 27,6 | 16 | 94,4 | 55/55 | 50 | 70 | 0 – 0,7 | 1,3 – 2 | 1.606.6402.70 |
| NPT 2" | 50 | 73 | 36 – 52,6 | 44,2 | 37,5 | 16 | 116,3 | 65/65 | 60 | 85 | 0 – 1 | 1,5 – 2,5 | 1.606.2002.70 |
| NPT 2 1/2" | 63 | 90 | 46 – 66 | 56,2 | 47,3 | 16 | 127,6 | 80/80 | 65 | 120 | 0 – 1 | 1,5 – 2,5 | 1.606.5202.70 |
| NPT 3" | 75 | 107 | 58 – 78 | 68,2 | 58 | 16 | 136,5 | 95/95 | 135 | 150 | 0 – 1 | 1,5 – 2,5 | 1.606.3002.70 |



naar de productvideo

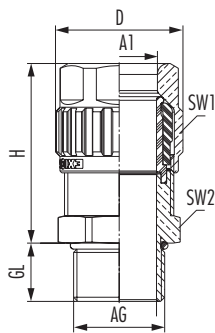


naar de montage-instructie



EXIOS Kabelwartels voor „Hazardous Areas“

EXIOS A2F Messing (metrisch, NPT)



| | |
|----------------------|---|
| Materiaal | Messing |
| Materiaal binnenhuis | Polyamide 6 |
| Materiaal dichtring | VMQ (Silicone) |
| Materiaal o-ring | VMQ (Silicone) |
| Beschermingsklasse | IP 66 / IP 67 / IP 68 – 5 bar |
| Ex-beschermingsgraad | II 2G Ex db eb IIC Gb / II 1D Ex ta IIC Da / Class I Div 2 Groups A,B,C,D / Class II Div 1 Groups E,F,G |
| Temperatuurbereik | -60°C tot +105°C |

RoHS

| AG | Maat | D mm | A1 mm | GL mm | H mm | SW1/SW2 mm | ⌀ Nm | Item nr. |
|------------|------|---------|-------------|----------|---------|---------------|---------|---------------|
| M16 x 1,5 | 20-1 | 27 | 6 – 12 | 16 | 35,6 | 22/22 | 8 | 1.608.1600.50 |
| M20 x 1,5 | 20-1 | 27 | 6 – 12 | 16 | 35,6 | 22/22 | 8 | 1.608.2000.50 |
| M20 x 1,5 | 20-2 | 29 | 9 – 16 | 16 | 39,7 | 24/24 | 8 | 1.608.2000.51 |
| M25 x 1,5 | 20-3 | 35 | 12,5 – 20,5 | 16 | 47,5 | 30/30 | 12 | 1.608.2500.50 |
| M32 x 1,5 | 25 | 42 | 16,9 – 26 | 16 | 47,8 | 36/36 | 18 | 1.608.3200.50 |
| M40 x 1,5 | 32 | 52 | 22 – 33 | 16 | 51,1 | 46/46 | 30 | 1.608.4000.50 |
| M50 x 1,5 | 40 | 64 | 28 – 41 | 16 | 56,8 | 55/55 | 50 | 1.608.5000.50 |
| M63 x 1,5 | 50 | 73 | 40 – 52,6 | 16 | 65,4 | 65/65 | 60 | 1.608.6300.50 |
| M75 x 1,5 | 63 | 90 | 51 – 65,3 | 16 | 70,3 | 80/80 | 65 | 1.608.7500.50 |
| M90 x 2,0 | 75 | 107 | 62 – 78 | 20 | 76,2 | 95/95 | 135 | 1.608.9000.50 |
| NPT 3/8" | 20-1 | 27 | 6 – 12 | 16 | 35,6 | 22/22 | 8 | 1.608.3800.70 |
| NPT 1/2" | 20-1 | 29 | 6 – 12 | 20 | 39,7 | 24/24 | 8 | 1.608.1200.70 |
| NPT 1/2" | 20-2 | 27 | 9 – 16 | 20 | 35,6 | 22/24 | 8 | 1.608.1200.71 |
| NPT 3/4" | 20-3 | 35 | 12,5 – 20,5 | 20,5 | 47,5 | 30/30 | 12 | 1.608.3400.70 |
| NPT 1" | 25 | 42 | 16,9 – 26 | 25 | 47,8 | 36/36 | 18 | 1.608.1000.70 |
| NPT 1 1/4" | 32 | 52 | 22 – 33 | 26 | 51,1 | 46/46 | 30 | 1.608.5400.70 |
| NPT 1 1/2" | 40 | 64 | 28 – 41 | 26,5 | 56,8 | 55/55 | 50 | 1.608.6400.70 |
| NPT 2" | 50 | 73 | 40 – 52,6 | 27 | 65,4 | 65/65 | 60 | 1.608.2000.70 |
| NPT 2 1/2" | 63 | 90 | 51 – 61 | 40 | 70,3 | 80/80 | 65 | 1.608.5200.70 |
| NPT 3" | 75 | 107 | 62 – 78 | 41,5 | 76,2 | 95/95 | 135 | 1.608.3000.70 |



naar de productvideo

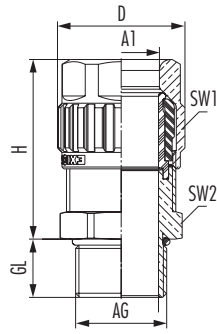


naar de montage-instructie



EXIOS Kabelwartels voor „Hazardous Areas“

EXIOS A2F Vernikkeld messing (metrisch, NPT)



| | |
|----------------------|---|
| Materiaal | Vernikkeld messing |
| Materiaal binnenhuis | Polyamide 6 |
| Materiaal dichtring | VMQ (Silicone) |
| Materiaal o-ring | VMQ (Silicone) |
| Beschermingsklasse | IP 66 / IP 67 / IP 68 – 5 bar |
| Ex-beschermingsgraad | II 2G Ex db eb IIC Gb / II 1D Ex ta IIC Da / Class I Div 2 Groups A,B,C,D / Class II Div 1 Groups E,F,G |
| Temperatuurbereik | -60°C tot +105°C |

RoHS

| AG | Maat | D mm | A1 mm | GL mm | H mm | SW1/SW2 mm | Nm | Item nr. |
|------------|------|---------|-------------|----------|---------|---------------|-----|---------------|
| M16 x 1,5 | 20-1 | 27 | 6 – 12 | 16 | 35,6 | 22/22 | 8 | 1.608.1603.50 |
| M20 x 1,5 | 20-1 | 27 | 6 – 12 | 16 | 35,6 | 22/22 | 8 | 1.608.2003.50 |
| M20 x 1,5 | 20-2 | 29 | 9 – 16 | 16 | 39,7 | 24/24 | 8 | 1.608.2003.51 |
| M25 x 1,5 | 20-3 | 35 | 12,5 – 20,5 | 16 | 47,5 | 30/30 | 12 | 1.608.2503.50 |
| M32 x 1,5 | 25 | 42 | 16,9 – 26 | 16 | 47,8 | 36/36 | 18 | 1.608.3203.50 |
| M40 x 1,5 | 32 | 52 | 22 – 33 | 16 | 51,1 | 46/46 | 30 | 1.608.4003.50 |
| M50 x 1,5 | 40 | 64 | 28 – 41 | 16 | 56,8 | 55/55 | 50 | 1.608.5003.50 |
| M63 x 1,5 | 50 | 73 | 40 – 52,6 | 16 | 65,4 | 65/65 | 60 | 1.608.6303.50 |
| M75 x 1,5 | 63 | 90 | 51 – 65,3 | 16 | 70,3 | 80/80 | 65 | 1.608.7503.50 |
| M90 x 2,0 | 75 | 107 | 62 – 78 | 20 | 76,2 | 95/95 | 135 | 1.608.9003.50 |
| NPT 3/8" | 20-1 | 27 | 6 – 12 | 16 | 35,6 | 22/22 | 8 | 1.608.3803.70 |
| NPT 1/2" | 20-1 | 29 | 6 – 12 | 20 | 39,7 | 24/24 | 8 | 1.608.1203.70 |
| NPT 1/2" | 20-2 | 27 | 9 – 16 | 20 | 35,6 | 22/24 | 8 | 1.608.1203.71 |
| NPT 3/4" | 20-3 | 35 | 12,5 – 20,5 | 20,5 | 47,5 | 30/30 | 12 | 1.608.3403.70 |
| NPT 1" | 25 | 42 | 16,9 – 26 | 25 | 47,8 | 36/36 | 18 | 1.608.1003.70 |
| NPT 1 1/4" | 32 | 52 | 22 – 33 | 26 | 51,1 | 46/46 | 30 | 1.608.5403.70 |
| NPT 1 1/2" | 40 | 64 | 28 – 41 | 26,5 | 56,8 | 55/55 | 50 | 1.608.6403.70 |
| NPT 2" | 50 | 73 | 40 – 52,6 | 27 | 65,4 | 65/65 | 60 | 1.608.2003.70 |
| NPT 2 1/2" | 63 | 90 | 51 – 61 | 40 | 70,3 | 80/80 | 65 | 1.608.5203.70 |
| NPT 3" | 75 | 107 | 62 – 78 | 41,5 | 76,2 | 95/95 | 135 | 1.608.3003.70 |



naar de productvideo

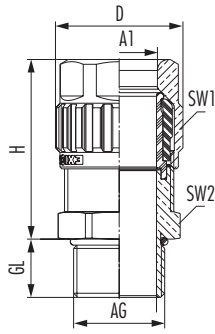


naar de montage-instructie



EXIOS Kabelwartels voor „Hazardous Areas“

EXIOS A2F INOX (metrisch, NPT)



| | |
|----------------------|---|
| Materiaal | INOX 1.4404 |
| Materiaal binnenhuis | Polyamide 6 |
| Materiaal dichtring | VMQ (Silicone) |
| Materiaal o-ring | VMQ (Silicone) |
| Beschermingsklasse | IP 66 / IP 67 / IP 68 – 5 bar |
| Ex-beschermingsgraad | II 2G Ex db eb IIC Gb / II 1D Ex ta IIC Da / Class I Div 2 Groups A,B,C,D / Class II Div 1 Groups E,F,G |
| Temperatuurbereik | -60°C tot +105°C |

RoHS

| AG | Maat | D mm | A1 mm | GL mm | H mm | SW1/SW2 mm | Nm | Item nr. |
|------------|------|---------|-------------|----------|---------|---------------|-----|---------------|
| M16 x 1,5 | 20-1 | 27 | 6 – 12 | 16 | 35,6 | 22/22 | 8 | 1.608.1602.50 |
| M20 x 1,5 | 20-1 | 27 | 6 – 12 | 16 | 35,6 | 22/22 | 8 | 1.608.2002.50 |
| M20 x 1,5 | 20-2 | 29 | 9 – 16 | 16 | 39,7 | 24/24 | 8 | 1.608.2002.51 |
| M25 x 1,5 | 20-3 | 35 | 12,5 – 20,5 | 16 | 47,5 | 30/30 | 12 | 1.608.2502.50 |
| M32 x 1,5 | 25 | 42 | 16,9 – 26 | 16 | 47,8 | 36/36 | 18 | 1.608.3202.50 |
| M40 x 1,5 | 32 | 52 | 22 – 33 | 16 | 51,1 | 46/46 | 30 | 1.608.4002.50 |
| M50 x 1,5 | 40 | 64 | 28 – 41 | 16 | 56,8 | 55/55 | 50 | 1.608.5002.50 |
| M63 x 1,5 | 50 | 73 | 40 – 52,6 | 16 | 65,4 | 65/65 | 60 | 1.608.6302.50 |
| M75 x 1,5 | 63 | 90 | 51 – 65,3 | 16 | 72 | 80/80 | 65 | 1.608.7502.50 |
| M90 x 1,5 | 75 | 107 | 62 – 78 | 20 | 76,2 | 95/95 | 135 | 1.608.9002.50 |
| NPT 3/8" | 20-1 | 27 | 6 – 12 | 16 | 35,6 | 22/22 | 8 | 1.608.3802.70 |
| NPT 1/2" | 20-1 | 29 | 6 – 12 | 20 | 39,7 | 24/24 | 8 | 1.608.1202.70 |
| NPT 1/2" | 20-2 | 27 | 9 – 16 | 20 | 35,6 | 22/22 | 8 | 1.608.1202.71 |
| NPT 3/4" | 20-3 | 35 | 12,5 – 20,5 | 20,5 | 47,5 | 30/30 | 12 | 1.608.3402.70 |
| NPT 1" | 25 | 42 | 16,9 – 26 | 25 | 47,8 | 36/36 | 18 | 1.608.1002.70 |
| NPT 1 1/4" | 32 | 52 | 22 – 33 | 26 | 51,1 | 46/46 | 30 | 1.608.5402.70 |
| NPT 1 1/2" | 40 | 64 | 28 – 41 | 26,5 | 56,8 | 55/55 | 50 | 1.608.6402.70 |
| NPT 2" | 50 | 73 | 40 – 52,6 | 27 | 65,4 | 65/65 | 60 | 1.608.2002.70 |
| NPT 2 1/2" | 63 | 90 | 51 – 61 | 40 | 70,3 | 80/80 | 65 | 1.608.5202.70 |
| NPT 3" | 75 | 107 | 62 – 78 | 41,5 | 76,2 | 95/95 | 135 | 1.608.3002.70 |

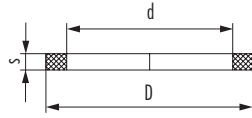


naar de productvideo



naar de montage-instructie





| | |
|------------------|-------------------------------|
| Materiaal | Kunststof, glasvezelversterkt |
|------------------|-------------------------------|

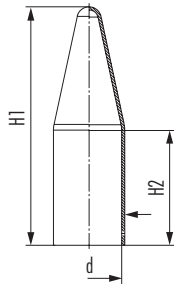
RoHS

| | |
|--------------------------|------------------|
| Temperatuurbereik | -60°C tot +105°C |
|--------------------------|------------------|

| Geschikt voor AG | D mm | d mm | s mm | Item nr. |
|------------------|---------|---------|---------|---------------|
| M16 x 1,5 | 24 | 16,1 | 1,5 | 1.326.1600.50 |
| M20 x 1,5 | 28,5 | 20,5 | 1,5 | 1.326.2000.50 |
| M25 x 1,5 | 36,5 | 25,5 | 1,6 | 1.326.2500.50 |
| M32 x 1,5 | 42,5 | 32,5 | 1,6 | 1.326.3200.50 |
| M40 x 1,5 | 51,5 | 40 | 1,5 | 1.326.4000.50 |
| M50 x 1,5 | 61,5 | 51 | 1,6 | 1.326.5000.50 |
| M63 x 1,5 | 76 | 63,5 | 1,6 | 1.326.6300.50 |
| M75 x 1,5 | 87,5 | 75,5 | 1,8 | 1.326.7500.50 |
| NPT 3/8" | 25,5 | 17,5 | 1,5 | 1.326.3800.70 |
| NPT 1/2" | 30 | 22 | 1,5 | 1.326.1200.70 |
| NPT 3/4" | 33,5 | 26,5 | 1,5 | 1.326.3400.70 |
| NPT 1" | 42,5 | 34 | 1,6 | 1.326.1000.70 |
| NPT 1 1/4" | 52 | 42,5 | 1,6 | 1.326.5400.70 |
| NPT 1 1/2" | 58,7 | 50 | 1,5 | 1.326.6400.70 |
| NPT 2" | 69,5 | 60,8 | 1,6 | 1.326.2000.70 |
| NPT 2 1/2" | 83 | 73,8 | 1,5 | 1.326.5200.70 |
| NPT 3" | 115,5 | 91,5 | 1,8 | 1.326.3000.70 |

EXIOS Kabelwartels voor „Hazardous Areas“

Afdekkap



Materiaal

PVC

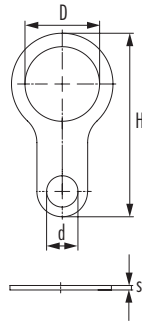
RoHS

| Passend bij maat | d mm | H1 mm | H2 mm | Item nr. |
|------------------|---------|----------|----------|---------------|
| 20-1 | 26 | 115 | 60 | 1.802.2000.50 |
| 20-2 | 28 | 125 | 70 | 1.802.2000.51 |
| 20-3 | 34 | 130 | 65 | 1.802.2000.52 |
| 25 | 42 | 160 | 90 | 1.802.2500.50 |
| 32 | 51 | 165 | 95 | 1.802.3200.50 |
| 40 | 63 | 200 | 110 | 1.802.4000.50 |
| 50 | 72 | 210 | 115 | 1.802.5000.50 |
| 63 | 88 | 245 | 140 | 1.802.6300.50 |
| 75 | 108 | 245 | 140 | 1.802.7500.50 |

Materiaal

Messing

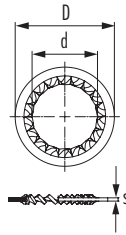
RoHS



| Geschikt voor AG | D mm | d mm | s mm | H mm | Item nr. |
|------------------|---------|---------|---------|---------|---------------|
| M16 x 1,5 | 16,2 | 6,7 | 1,5 | 49 | 1.022.1600.50 |
| M20 x 1,5 | 21 | 7 | 1,5 | 54 | 1.022.2000.50 |
| M25 x 1,5 | 25,5 | 10,5 | 1,5 | 61,5 | 1.022.2500.50 |
| M32 x 1,5 | 32,5 | 12,2 | 1,5 | 73 | 1.022.3200.50 |
| M40 x 1,5 | 40,5 | 13,5 | 1,5 | 86,5 | 1.022.4000.50 |
| M50 x 1,5 | 51 | 13,5 | 1,5 | 112 | 1.022.5000.50 |
| M63 x 1,5 | 64 | 13,5 | 1,5 | 126 | 1.022.6300.50 |
| M75 x 1,5 | 76,2 | 13,5 | 1,5 | 138 | 1.022.7500.50 |
| NPT 3/8" | 17,5 | 7 | 1,5 | 53,8 | 1.022.3800.70 |
| NPT 1/2" | 21,5 | 7 | 1,5 | 53,5 | 1.022.1200.70 |
| NPT 3/4" | 26,7 | 10,5 | 1,5 | 61,5 | 1.022.3400.70 |
| NPT 1" | 34,5 | 12,2 | 1,5 | 73 | 1.022.1000.70 |
| NPT 1 1/4" | 43,5 | 13,5 | 1,5 | 86,5 | 1.022.5400.70 |
| NPT 1 1/2" | 51 | 13,5 | 1,5 | 112 | 1.022.6400.70 |
| NPT 2" | 61,2 | 13,5 | 1,5 | 126 | 1.022.2000.70 |
| NPT 2 1/2" | 76,2 | 13,5 | 1,5 | 138 | 1.022.5200.70 |

EXIOS Kabelwartels voor „Hazardous Areas“

Tandveerring



Materiaal

Edelstaal

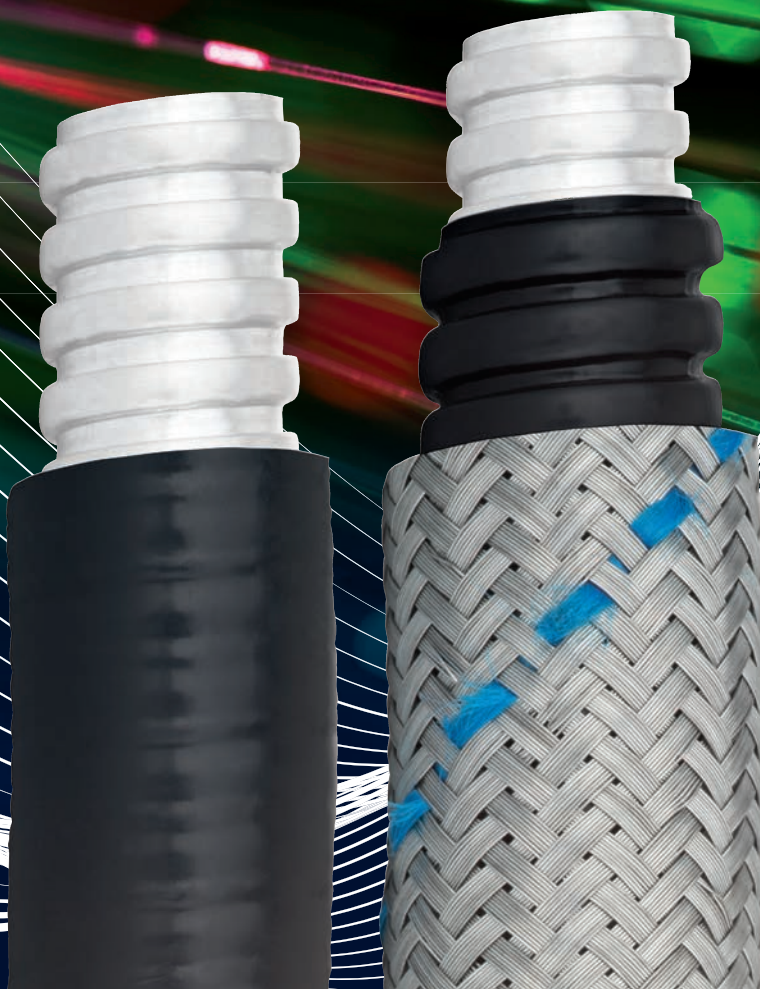
RoHS

| Geschikt voor AG | D mm | d mm | s mm | Item nr. |
|------------------|---------|---------|---------|---------------|
| M16 x 1,5 | 26,5 | 17 | 1,5 | 1.329.1600.50 |
| M20 x 1,5 | 33,5 | 21,5 | 1,5 | 1.329.2000.50 |
| M25 x 1,5 | 39 | 26 | 1,5 | 1.329.2500.50 |
| M32 x 1,5 | 48 | 30,5 | 1,5 | 1.329.3200.50 |
| M40 x 1,5 | 59,5 | 40,5 | 1,5 | 1.329.4000.50 |
| M50 x 1,5 | 71 | 51,5 | 1,5 | 1.329.5000.50 |
| M63 x 1,5 | 87 | 64 | 1,5 | 1.329.6300.50 |
| M75 x 1,5 | 102,5 | 76,5 | 1,5 | 1.329.7500.50 |
| NPT 3/8" | 30 | 19,5 | 1,5 | 1.329.3800.70 |
| NPT 1/2" | 39 | 23,5 | 1,5 | 1.329.1200.70 |
| NPT 3/4" | 42 | 29,5 | 1,5 | 1.329.3400.70 |
| NPT 1" | 49,5 | 35 | 1,5 | 1.329.1000.70 |
| NPT 1 1/4" | 59,5 | 44 | 1,5 | 1.329.5400.70 |
| NPT 1 1/2" | 71 | 51,5 | 1,5 | 1.329.6400.70 |
| NPT 2" | 86,6 | 61,5 | 1,5 | 1.329.2000.70 |
| NPT 2 1/2" | 102,5 | 76,5 | 1,5 | 1.329.5200.70 |

KABELBESCHERMINGSSYSTEMEN

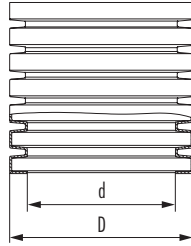
Betrouwbare bescherming voor kabels: Kabels en dataleidingen worden in de industrie enorm belast. Hitte en kou, trek- en drukbelasting alsook slijtage en beschadigingen van de leidingen kunnen leiden tot defecten en productie-uitval. De kabelbeschermingsslangen van HUMMEL daarentegen bieden betrouwbare bescherming. De kunststof reeks uit polyamide en de metalen beschermingsslangen bieden de passende oplossing voor elk gebruik. Dankzij een grote keuze aan fittingen kunnen planners en constructeurs eenvoudig het goede antwoord vinden op elke vereiste.

- // Polyamide slang – de flexibele kabelsling uit polyamide
- // Polyamide fitting – fittingen voor polyamide kabelbeschermingsslangen, die elke montagesituatie aan kunnen
- // Metalen slang – sterke, gegolfde slang uit verzinkt staal
- // Metalen fitting – ideaal voor alle metalen beschermingsslangen
- // Metalen slang Pro – meerlaagse variant voor sterke belastingen
- // Metalen fitting Pro – fittingen voor metalen slangen in bijzonder robuuste toepassingen



Kabelbeschermingssystemen

Polyamide slang



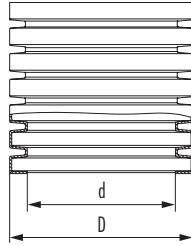
| | |
|-------------------|------------------|
| Materiaal | Polyamide |
| Temperatuurbereik | -40°C tot +120°C |
| Kleur | grijs / zwart |
| RAL | 7031 / 9005 |

RoHS

// Ruw materiaal volgens UL94



| Maat DN | d mm | D mm | R mm | Item nr. grijs | Item nr. zwart |
|---------|---------|---------|---------|-------------------|-------------------|
| 6 | 6,5 | 10 | 15 | 1.510.0600.14 | 1.510.0601.14 |
| 10 | 10 | 13 | 25 | 1.510.0900.14 | 1.510.0901.14 |
| 12 | 12 | 15,8 | 35 | 1.510.1100.14 | 1.510.1101.14 |
| 14 | 14,2 | 18,4 | 35 | 1.510.1300.14 | 1.510.1301.14 |
| 17 | 16,5 | 21,2 | 40 | 1.510.1600.14 | 1.510.1601.14 |
| 23 | 23 | 28,4 | 45 | 1.510.2100.14 | 1.510.2101.14 |
| 29 | 29 | 34,5 | 55 | 1.510.2900.14 | 1.510.2901.14 |
| 37 | 36 | 42,5 | 65 | 1.510.3600.14 | 1.510.3601.14 |
| 50 | 48 | 54,5 | 80 | 1.510.4800.14 | 1.510.4801.14 |



| | |
|--------------------------|------------------|
| Materiaal | Polyamide |
| Temperatuurbereik | -40°C tot +120°C |
| Kleur | grijs / zwart |
| RAL | 7031 / 9005 |

RoHS

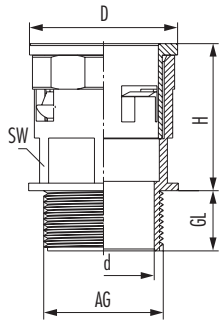
// Ruw materiaal volgens UL94



| Maat DN | d mm | D mm | R mm | Item nr. grijs | Item nr. zwart |
|---------|---------|---------|---------|-------------------|-------------------|
| 6 | 6,5 | 10 | 15 | 1.527.0600.00 | 1.527.0601.00 |
| 10 | 10 | 13 | 25 | 1.527.0900.00 | 1.527.0901.00 |
| 12 | 12 | 15,8 | 35 | 1.527.1100.00 | 1.527.1101.00 |
| 14 | 14,2 | 18,4 | 35 | 1.527.1300.00 | 1.527.1301.00 |
| 17 | 16,5 | 21,2 | 40 | 1.527.1600.00 | 1.527.1601.00 |
| 23 | 23 | 28,4 | 45 | 1.527.2100.00 | 1.527.2101.00 |
| 29 | 29 | 34,5 | 55 | 1.527.2900.00 | 1.527.2901.00 |
| 37 | 36 | 42,5 | 65 | 1.527.3600.00 | 1.527.3601.00 |
| 50 | 48 | 54,5 | 80 | 1.527.4800.00 | 1.527.4801.00 |

Kabelbeschermingsystemen

Polyamide fitting (metrisch, PG)



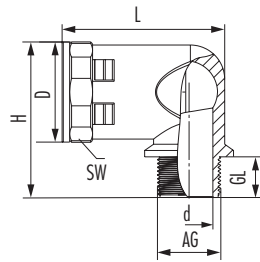
| | |
|---------------------------|-----------------|
| Materiaal | Polyamide |
| Beschermingsklasse | IP 55 |
| Temperatuurbereik | -30°C tot +80°C |
| Kleur | zwart/grijs |
| RAL | 9005/7031 |

RoHS

- // Ruw materiaal volgens UL94
- // Optie: Contraoer
- // Eenvoudige demontage zonder gereedschap



| AG | d mm | D mm | GL mm | H mm | SW mm | Passend bij polyamide-slang DN | Item nr. grijs | Item nr. zwart |
|---------|---------|---------|----------|---------|----------|--------------------------------------|-------------------|-------------------|
| M12 | 6,9 | 18,7 | 11 | 26 | 15 | 6 | 1.533.1200.50 | 1.533.1201.50 |
| M16 | 10,9 | 21,7 | 11 | 26 | 18 | 10 | 1.533.1600.51 | 1.533.1601.51 |
| M16 | 10,9 | 26 | 11 | 26,5 | 20 | 12 | 1.533.1600.50 | 1.533.1601.50 |
| M20 | 14,7 | 28 | 11 | 31 | 23 | 14 | 1.533.2000.51 | 1.533.2001.51 |
| M20 | 15,2 | 32 | 13 | 33 | 27 | 17 | 1.533.2000.50 | 1.533.2001.50 |
| M25 | 18,7 | 39,5 | 16 | 39 | 34 | 23 | 1.533.2500.50 | 1.533.2501.50 |
| M32 | 25,7 | 46,5 | 16 | 43 | 40 | 29 | 1.533.3200.50 | 1.533.3201.50 |
| M40 | 32,7 | 55,5 | 16 | 45,5 | 50 | 37 | 1.533.4000.50 | 1.533.4001.50 |
| M50 | 51,4 | 67,5 | 16 | 47,5 | 62 | 50 | 1.533.5000.50 | 1.533.5001.50 |
| PG 7 | 6,9 | 18,7 | 11 | 26 | 15 | 6 | 1.533.0700.14 | 1.533.0701.14 |
| PG 9 | 10,3 | 21,7 | 11 | 26 | 18 | 10 | 1.533.0900.14 | 1.533.0901.14 |
| PG 11 | 13,3 | 26 | 11 | 26,5 | 20 | 12 | 1.533.1100.14 | 1.533.1101.14 |
| PG 13,5 | 15,3 | 28 | 11 | 31 | 23 | 14 | 1.533.1300.14 | 1.533.1301.14 |
| PG 16 | 16,6 | 32 | 13 | 33 | 27 | 17 | 1.533.1600.14 | 1.533.1601.14 |
| PG 21 | 22,3 | 39,5 | 16 | 39 | 34 | 23 | 1.533.2100.14 | 1.533.2101.14 |
| PG 29 | 31,7 | 46,5 | 16 | 43 | 40 | 29 | 1.533.2900.14 | 1.533.2901.14 |
| PG 36 | 40,5 | 55,5 | 16 | 45,5 | 50 | 37 | 1.533.3600.14 | 1.533.3601.14 |
| PG 48 | 51,7 | 67,5 | 16 | 47,5 | 62 | 50 | 1.533.4800.14 | 1.533.4801.14 |



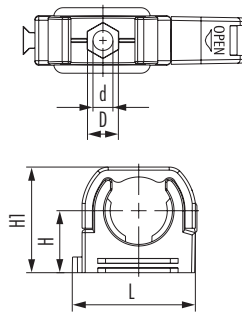
| | |
|---------------------------|-----------------|
| Materiaal | Polyamide |
| Beschermingsklasse | IP 55 |
| Temperatuurbereik | -30°C tot +70°C |
| Kleur | grijs / zwart |
| RAL | 7031 / 9005 |

RoHS

- // Ruw materiaal volgens UL94
- // Optie: Contraoer
- // Eenvoudige demontage zonder gereedschap

| AG | d mm | D mm | GL mm | H mm | L mm | Passend bij polyamide-slang DN | Item nr. grijs | Item nr. zwart |
|---------|---------|---------|----------|---------|---------|--------------------------------------|-------------------|-------------------|
| M12 | 8,2 | 18,7 | 11 | 36,3 | 35,7 | 6 | 1.535.1200.50 | 1.535.1201.50 |
| M16 | 10,8 | 21,7 | 11 | 37,3 | 38,5 | 10 | 1.535.1600.51 | 1.535.1601.51 |
| M16 | 10,9 | 26 | 11 | 41 | 43,8 | 12 | 1.535.1600.50 | 1.535.1601.50 |
| M20 | 14,7 | 28 | 11 | 44 | 46 | 14 | 1.535.2000.51 | 1.535.2001.51 |
| M20 | 15,2 | 32 | 13 | 51,5 | 51 | 17 | 1.535.2000.50 | 1.535.2001.50 |
| M25 | 18,7 | 39,5 | 16 | 61,2 | 64,3 | 23 | 1.535.2500.50 | 1.535.2501.50 |
| PG 7 | 8,2 | 18,7 | 11 | 36,3 | 35,7 | 6 | 1.535.0700.14 | 1.535.0701.14 |
| PG 9 | 10,3 | 21,7 | 11 | 37,3 | 38,5 | 10 | 1.535.0900.14 | 1.535.0901.14 |
| PG 11 | 13,3 | 26 | 11 | 41 | 43,8 | 12 | 1.535.1100.14 | 1.535.1101.14 |
| PG 13,5 | 15,3 | 28 | 11 | 44 | 46 | 14 | 1.535.1300.14 | 1.535.1301.14 |
| PG 16 | 16,6 | 32 | 13 | 51,5 | 51 | 17 | 1.535.1600.14 | 1.535.1601.14 |
| PG 21 | 22,4 | 39,5 | 16 | 61,2 | 64,3 | 23 | 1.535.2100.14 | 1.535.2101.14 |

Polyamide fitting clip

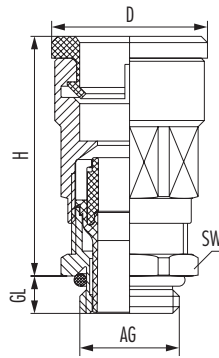


| | |
|--------------------------|-----------------|
| Materiaal | Polyamide |
| Temperatuurbereik | -30°C tot +80°C |
| Kleur | zwart |
| RAL | 9005 |

RoHS

// Ruw materiaal volgens UL94

| Maat DN | d mm | D mm | H mm | H1 mm | L mm | Passend bij polyamide-slang DN | Item nr. |
|---------|---------|---------|---------|----------|---------|-----------------------------------|---------------|
| 10 | 5 | 7 | 15,75 | 27,5 | 28,7 | 10 | 1.534.0901.00 |
| 12 | 5,3 | 8,3 | 13,1 | 24 | 29,8 | 12 | 1.534.1101.00 |
| 14 | 5,3 | 8,5 | 17,75 | 29,3 | 35,2 | 14 | 1.534.1401.00 |
| 17 | 5,3 | 8,5 | 19,75 | 33,2 | 40,2 | 17 | 1.534.1601.00 |
| 23 | 5,3 | 8,7 | 23,5 | 40,5 | 52,6 | 23 | 1.534.2101.00 |
| 29 | 6,5 | 11 | 27 | 48 | 60,7 | 29 | 1.534.2901.00 |
| 37 | 6,5 | 11 | 30,4 | 57 | 69 | 37 | 1.534.3601.00 |
| 50 | 6,5 | 11 | 37,9 | 71 | 87 | 50 | 1.534.4801.00 |

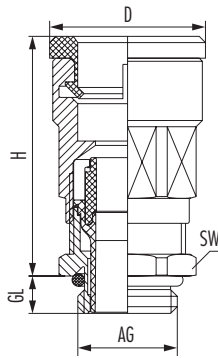


| | |
|-----------------------------|--------------------------|
| Materiaal | Vernikkeld messing |
| Materiaal binnenhuis | Polyamide |
| Materiaal dichtring | NBR |
| Beschermingsklasse | IP 68 – 10 bar / IP 69 K |
| Temperatuurbereik | -40°C tot +100°C |

RoHS

- // 2-in-1 gegolfde slang met geïntegreerde kabelwartel
- // Eenvoudige demontage zonder gereedschap

| AG | ∅* mm | D mm | GL mm | H mm | SW mm | Passend bij polyamide-slang DN | Item nr. |
|-----|----------|---------|----------|---------|----------|-----------------------------------|---------------|
| M16 | 3 – 7 | 23 | 6 | 36 | 20 | 10 | 1.547.1610.51 |
| M16 | 5 – 10 | 23 | 6 | 36 | 20 | 10 | 1.547.1610.50 |
| M20 | 7 – 12 | 25 | 6 | 39,5 | 24 | 12 | 1.547.2012.51 |
| M20 | 7 – 12 | 29 | 6 | 40,5 | 28 | 14 | 1.547.2014.51 |
| M20 | 10 – 14 | 25 | 6 | 39,5 | 24 | 12 | 1.547.2012.50 |
| M20 | 10 – 14 | 29 | 6 | 40,5 | 28 | 14 | 1.547.2014.50 |
| M25 | 9 – 16 | 30 | 7 | 44,5 | 30 | 17 | 1.547.2517.51 |
| M25 | 13 – 18 | 30 | 7 | 44,5 | 30 | 17 | 1.547.2517.50 |
| M32 | 13 – 20 | 39 | 8 | 50,5 | 40 | 23 | 1.547.3223.51 |
| M32 | 18 – 24 | 39 | 8 | 50,5 | 40 | 23 | 1.547.3223.50 |
| M40 | 20 – 26 | 45 | 8 | 56,5 | 50 | 29 | 1.547.4029.51 |
| M40 | 22 – 31 | 45 | 8 | 56,5 | 50 | 29 | 1.547.4029.50 |
| M50 | 25 – 31 | 52 | 9 | 57,5 | 57 | 37 | 1.547.5037.51 |
| M50 | 32 – 36 | 52 | 9 | 57,5 | 57 | 37 | 1.547.5037.50 |
| M63 | 29 – 35 | 52 | 10 | 60,5 | 68 | 50 | 1.547.6350.51 |
| M63 | 37 – 44 | 52 | 10 | 60,5 | 68 | 50 | 1.547.6350.50 |

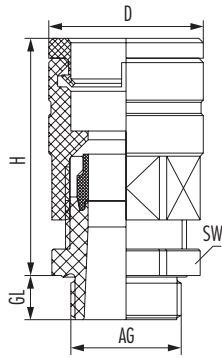


| | |
|-----------------------------|--------------------------|
| Materiaal | Vernikkeld messing |
| Materiaal binnenhuis | Polyamide |
| Materiaal dichtring | NBR |
| Beschermingsklasse | IP 68 – 10 bar / IP 69 K |
| Temperatuurbereik | -40°C tot +100°C |

RoHS

- // 2-in-1 gegolfde slang met geïntegreerde kabelwartel
- // Eenvoudige demontage zonder gereedschap

| AG | ∅k mm | D mm | GL mm | H mm | SW mm | Passend bij polyamide-slang DN | Item nr. |
|----------|----------|---------|----------|---------|----------|-----------------------------------|---------------|
| PG 11 | 3 – 7 | 23 | 6 | 36 | 50 | 10 | 1.548.1110.15 |
| PG 11 | 5 – 10 | 23 | 6 | 36 | 20 | 10 | 1.548.1110.01 |
| PG 13,5 | 5 – 9 | 25 | 6,5 | 39,5 | 24 | 12 | 1.548.1312.15 |
| PG 13,5 | 6 – 12 | 25 | 6,5 | 39,5 | 24 | 12 | 1.548.1312.01 |
| PG 16 | 7 – 12 | 29 | 6,5 | 40,5 | 28 | 14 | 1.548.1614.15 |
| PG 16 | 10 – 14 | 29 | 6,5 | 40,5 | 28 | 14 | 1.548.1614.01 |
| PG 21 | 9 – 16 | 30 | 7 | 44,5 | 30 | 17 | 1.548.2117.15 |
| PG 21 | 13 – 16 | 30 | 7 | 44,5 | 30 | 17 | 1.548.2117.01 |
| PG 29 | 13 – 20 | 39 | 8 | 50,5 | 40 | 23 | 1.548.2923.15 |
| PG 29 | 18 – 24 | 39 | 8 | 50,5 | 40 | 23 | 1.548.2923.01 |
| PG 36 | 20 – 26 | 45 | 8 | 56,5 | 50 | 29 | 1.548.3629.15 |
| PG 36 | 22 – 28 | 45 | 8 | 56,5 | 50 | 29 | 1.548.3629.01 |
| PG 42 | 25 – 31 | 52 | 9 | 57,5 | 57 | 37 | 1.548.4237.15 |
| PG 42 | 32 – 36 | 52 | 9 | 57,5 | 57 | 37 | 1.548.4237.01 |
| PG 48 | 29 – 35 | 52 | 10 | 60,5 | 64 | 50 | 1.548.4850.15 |
| PG 48 | 37 – 44 | 52 | 10 | 60,5 | 64 | 50 | 1.548.4850.01 |
| | | | | | | | |
| NPT 1/2" | 7 – 12 | 29 | 13 | 40,5 | 28 | 14 | 1.547.1214.71 |
| NPT 1/2" | 10 – 14 | 29 | 13 | 40,5 | 28 | 14 | 1.547.1214.70 |
| NPT 3/4" | 9 – 16 | 30 | 13 | 44,5 | 30 | 17 | 1.547.3417.71 |
| NPT 3/4" | 13 – 18 | 30 | 13 | 44,5 | 30 | 17 | 1.547.3417.70 |
| NPT 1" | 13 – 20 | 39 | 19 | 50,5 | 40 | 23 | 1.547.1023.71 |
| NPT 1" | 18 – 24 | 39 | 19 | 50,5 | 40 | 23 | 1.547.1023.70 |



| | |
|----------------------------|--------------------------|
| Materiaal | Polyamide |
| Materiaal dichtring | NBR |
| Beschermingsklasse | IP 68 – 10 bar / IP 69 K |
| Temperatuurbereik | -40°C tot +100°C |
| Kleur | zwart |
| RAL | 9005 |

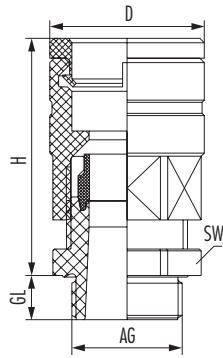
RoHS

- // 2-in-1 gegolfde slang met geïntegreerde kabelwartel
- // Eenvoudige demontage zonder gereedschap

| AG | ∅* mm | D mm | GL mm | H mm | SW mm | Passend bij polyamide-slang DN | Item nr. |
|-----|----------|---------|----------|---------|----------|-----------------------------------|---------------|
| M16 | 3 – 7 | 23 | 8 | 40 | 22 | 10 | 1.542.1610.51 |
| M16 | 5 – 10 | 23 | 8 | 40 | 22 | 10 | 1.542.1610.50 |
| M20 | 5 – 9 | 25 | 10 | 44 | 24 | 12 | 1.542.2012.51 |
| M20 | 6 – 12 | 25 | 10 | 44 | 24 | 12 | 1.542.2012.50 |
| M20 | 7 – 12 | 29 | 10 | 46 | 27 | 14 | 1.542.2014.51 |
| M20 | 10 – 14 | 29 | 10 | 46 | 27 | 14 | 1.542.2014.50 |
| M25 | 9 – 16 | 30 | 11 | 50 | 33 | 17 | 1.542.2517.51 |
| M25 | 13 – 18 | 30 | 11 | 50 | 33 | 17 | 1.542.2517.50 |
| M32 | 13 – 20 | 39 | 11 | 60 | 42 | 23 | 1.542.3223.51 |
| M32 | 18 – 24 | 39 | 11 | 60 | 42 | 23 | 1.542.3223.50 |
| M40 | 20 – 26 | 45 | 13 | 69 | 53 | 29 | 1.542.4029.51 |
| M40 | 22 – 31 | 45 | 13 | 69 | 53 | 29 | 1.542.4029.50 |
| M50 | 25 – 31 | 52 | 13 | 74 | 60 | 37 | 1.542.5037.51 |
| M50 | 32 – 36 | 52 | 13 | 74 | 60 | 37 | 1.542.5037.50 |
| M63 | 29 – 35 | 52 | 14 | 79 | 68 | 50 | 1.542.6350.51 |
| M63 | 37 – 44 | 52 | 14 | 79 | 68 | 50 | 1.542.6350.50 |

Kabelbeschermingsystemen

Polyamide fitting Duo-PA (PG, NPT)

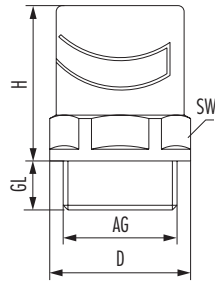


| | |
|---------------------|--------------------------|
| Materiaal | Polyamide |
| Materiaal dichtring | NBR |
| Beschermingsklasse | IP 68 – 10 bar / IP 69 K |
| Temperatuurbereik | -40°C tot +100°C |
| Kleur | zwart |
| RAL | 9005 |

RoHS

- // 2-in-1 gegolfde slang met geïntegreerde kabelwartel
- // Eenvoudige demontage zonder gereedschap

| AG | ∅ mm | D mm | GL mm | H mm | SW mm | Passend bij polyamide-slang DN | Item nr. |
|------------|---------|------|-------|------|-------|--------------------------------|---------------|
| PG 11 | 3 – 7 | 23 | 8 | 40 | 22 | 10 | 1.543.1110.15 |
| PG 11 | 5 – 10 | 23 | 8 | 40 | 22 | 10 | 1.543.1110.14 |
| PG 13,5 | 5 – 9 | 25 | 9 | 44 | 24 | 12 | 1.543.1312.15 |
| PG 13,5 | 6 – 12 | 25 | 9 | 44 | 24 | 12 | 1.543.1312.14 |
| PG 16 | 7 – 12 | 29 | 10 | 47 | 27 | 14 | 1.543.1614.15 |
| PG 16 | 10 – 14 | 29 | 10 | 47 | 27 | 14 | 1.543.1614.14 |
| PG 21 | 9 – 16 | 30 | 11 | 50 | 33 | 17 | 1.543.2117.15 |
| PG 21 | 13 – 16 | 30 | 11 | 50 | 33 | 17 | 1.543.2117.14 |
| PG 29 | 13 – 20 | 39 | 11 | 60 | 42 | 23 | 1.543.2923.15 |
| PG 29 | 18 – 24 | 39 | 11 | 60 | 42 | 23 | 1.543.2923.14 |
| PG 36 | 20 – 26 | 45 | 13 | 69 | 53 | 29 | 1.543.3629.15 |
| PG 36 | 22 – 31 | 45 | 13 | 69 | 53 | 29 | 1.543.3629.14 |
| PG 42 | 25 – 31 | 52 | 13 | 74 | 60 | 37 | 1.543.4237.15 |
| PG 42 | 32 – 36 | 52 | 13 | 74 | 60 | 37 | 1.543.4237.14 |
| PG 48 | 29 – 35 | 52 | 14 | 79 | 68 | 50 | 1.543.6350.15 |
| PG 48 | 37 – 44 | 52 | 14 | 79 | 68 | 50 | 1.543.6350.14 |
| NPT 1/2" | 7 – 12 | 29 | 13 | 46 | 27 | 14 | 1.542.1214.71 |
| NPT 1/2" | 10 – 14 | 29 | 13 | 46 | 27 | 14 | 1.542.1214.70 |
| NPT 3/4" | 9 – 16 | 30 | 14 | 50 | 33 | 17 | 1.542.3417.71 |
| NPT 3/4" | 13 – 18 | 30 | 14 | 50 | 33 | 17 | 1.542.3417.70 |
| NPT 1" | 13 – 20 | 39 | 19 | 60 | 42 | 23 | 1.542.1023.71 |
| NPT 1" | 18 – 24 | 39 | 19 | 60 | 42 | 23 | 1.542.1023.70 |
| NPT 1 1/2" | 22 – 31 | 45 | 20 | 69 | 53 | 29 | 1.542.6429.70 |



| | |
|---------------------------|---|
| Materiaal | Polyamide |
| Beschermingsklasse | IP 54 / IP 65 met starre slangbevestiging en O-ring op aansluitschroefdraad |
| Temperatuurbereik | -20°C tot +80°C |
| Kleur | grijs / zwart |
| RAL | 7031 / 9005 |

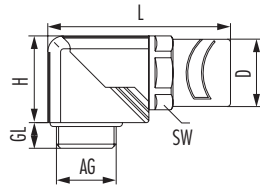
RoHS

// Bescherming tegen onbedoeld openen, kan alleen met schroevendraaier worden gedemonteerd

| AG | D mm | GL mm | H mm | SW mm | Passend bij polyamide-slang DN | Item nr. grijs | Item nr. zwart |
|-----------|---------|----------|---------|----------|-----------------------------------|-------------------|-------------------|
| M16 x 1,5 | 20 | 8 | 23 | 17 | 10 | 1.511.1600.50 | 1.511.1601.50 |
| M20 x 1,5 | 26,5 | 9 | 28 | 24 | 14 | 1.511.2000.50 | 1.511.2001.50 |
| M25 x 1,5 | 38,5 | 11 | 32 | 35 | 23 | 1.511.2500.50 | 1.511.2501.50 |
| M32 x 1,5 | 46 | 11 | 35 | 42 | 29 | 1.511.3200.50 | 1.511.3201.50 |
| PG 9 | 19 | 8 | 23 | 17 | 10 | 1.511.0900.14 | 1.511.0901.14 |
| PG 11 | 23 | 8 | 25 | 21 | 12 | 1.511.1100.14 | 1.511.1101.14 |
| PG 13,5 | 26,5 | 9 | 28 | 24 | 14 | 1.511.1300.14 | 1.511.1301.14 |
| PG 16 | 30 | 10 | 29 | 27 | 17 | 1.511.1600.14 | 1.511.1601.14 |
| PG 21 | 38,5 | 11 | 32 | 35 | 23 | 1.511.2100.14 | 1.511.2101.14 |
| PG 29 | 46 | 11 | 35 | 42 | 29 | 1.511.2900.14 | 1.511.2901.14 |
| PG 36 | 54,5 | 13 | 41 | 50 | 37 | 1.511.3600.14 | 1.511.3601.14 |
| PG 48 | 70 | 14 | 46 | 64 | 50 | 1.511.4800.14 | 1.511.4801.14 |
| NPT 3/8" | 19 | 15 | 23 | 17 | 10 | 1.511.3800.70 | 1.511.3801.70 |
| NPT 1/2" | 30 | 13 | 29 | 27 | 17 | 1.511.1216.70 | 1.511.1217.70 |
| NPT 3/4" | 38,5 | 13 | 32 | 35 | 23 | 1.511.3400.70 | 1.511.3401.70 |
| NPT 1" | 46 | 15 | 35 | 42 | 29 | 1.511.1000.70 | 1.511.1001.70 |

Kabelbeschermingssystemen

Polyamide fitting W (metrisch, PG, NPT)

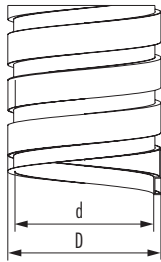


| | |
|---------------------------|---|
| Materiaal | Polyamide |
| Beschermingsklasse | IP 54 / IP 65 met starre slangbevestiging en O-ring op aansluitschroefdraad / IP 65 met starre slangbevestiging |
| Temperatuurbereik | -20°C tot +80°C |
| Kleur | zwart |
| RAL | 9005 |

RoHS

// Bescherming tegen onbedoeld openen, kan alleen met schroevendraaier worden gedemonteerd

| AG | D mm | GL mm | H mm | L mm | SW mm | Passend bij polyamide-slang DN | Item nr. |
|-----------|---------|----------|---------|---------|----------|-----------------------------------|---------------|
| M16 x 1,5 | 20 | 8 | 23 | 43 | 19 | 10 | 1.513.1601.50 |
| M20 x 1,5 | 26,5 | 9 | 30,5 | 52 | 24 | 14 | 1.513.2001.50 |
| M25 x 1,5 | 38,5 | 11 | 40 | 70 | 33 | 23 | 1.513.2501.50 |
| M32 x 1,5 | 46 | 11 | 51,5 | 83 | 42 | 29 | 1.513.3201.50 |
| PG 9 | 19 | 8 | 23 | 43 | 19 | 10 | 1.513.0901.14 |
| PG 11 | 23 | 8 | 27 | 48 | 22 | 12 | 1.513.1101.14 |
| PG 13,5 | 26,5 | 9 | 30,5 | 52 | 24 | 14 | 1.513.1301.14 |
| PG 16 | 30 | 10 | 32,5 | 56 | 27 | 17 | 1.513.1601.14 |
| PG 21 | 38,5 | 11 | 40 | 70 | 33 | 23 | 1.513.2101.14 |
| PG 29 | 46 | 11 | 51,5 | 83 | 42 | 29 | 1.513.2901.14 |
| NPT 3/8" | 19 | 15 | 23 | 43 | 19 | 10 | 1.513.3801.70 |
| NPT 1/2" | 30 | 13 | 32,5 | 56 | 27 | 17 | 1.513.1217.70 |
| NPT 3/4" | 38,5 | 13 | 40 | 70 | 33 | 23 | 1.513.3401.70 |
| NPT 1" | 46 | 15 | 51,5 | 83 | 42 | 29 | 1.513.1001.70 |



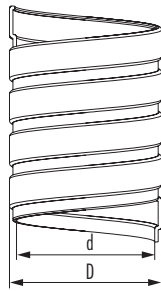
| | |
|---------------------------|-------------------|
| Materiaal | Staal verzinkt |
| Beschermingsklasse | IP 40 |
| Temperatuurbereik | -100°C tot +300°C |

RoHS

| Maat DN | d mm | D mm | \overleftarrow{R} mm | Item nr. |
|---------|---------|---------|---------------------------|---------------|
| 7 | 7,5 | 10,5 | 25 | 1.560.0760.00 |
| 9 | 9 | 12 | 30 | 1.560.0960.00 |
| 11 | 11 | 14 | 30 | 1.560.1160.00 |
| 14 | 14 | 17 | 40 | 1.560.1460.00 |
| 16 | 16 | 19 | 45 | 1.560.1660.00 |
| 21 | 21 | 24 | 55 | 1.560.2160.00 |
| 26 | 26 | 30 | 55 | 1.560.2660.00 |
| 37 | 37 | 41 | 80 | 1.560.3760.00 |
| 40 | 40 | 44 | 80 | 1.560.4060.00 |
| 51 | 51 | 55 | 90 | 1.560.5160.00 |

Kabelbeschermingssystemen

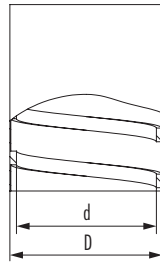
Metalen slang B



| | |
|--------------------|----------------------|
| Materiaal | PVC / Staak verzinkt |
| Beschermingsklasse | IP 65 |
| Temperatuurbereik | -15°C tot +70°C |

RoHS

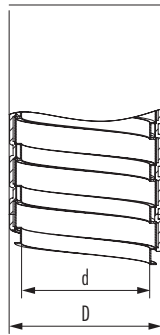
| Maat DN | d mm | D mm | \overleftarrow{R} mm | Item nr. |
|---------|---------|---------|---------------------------|---------------|
| 7 | 7,5 | 11,5 | 25 | 1.561.0761.00 |
| 9 | 9 | 13 | 30 | 1.561.0961.00 |
| 11 | 11 | 15 | 30 | 1.561.1161.00 |
| 14 | 14 | 18 | 40 | 1.561.1461.00 |
| 16 | 16 | 20 | 45 | 1.561.1661.00 |
| 21 | 21 | 25 | 55 | 1.561.2161.00 |
| 26 | 26 | 31 | 55 | 1.561.2661.00 |
| 37 | 37 | 42 | 80 | 1.561.3761.00 |
| 40 | 40 | 45 | 80 | 1.561.4061.00 |
| 51 | 51 | 56 | 90 | 1.561.5161.00 |



| | |
|--------------------|----------------------|
| Materiaal | PVC / Staak verzinkt |
| Beschermingsklasse | IP 66 |
| Temperatuurbereik | -20°C tot +105°C |

RoHS

| Maat DN | d mm | D mm | R mm | Item nr. |
|---------|---------|---------|---------|---------------|
| 10 | 10,3 | 16 | 40 | 1.562.1061.00 |
| 12 | 12,3 | 18 | 45 | 1.562.1261.00 |
| 16 | 15,5 | 21 | 65 | 1.562.1661.00 |
| 21 | 20,9 | 26,5 | 100 | 1.562.2161.00 |
| 26 | 26,5 | 33,3 | 135 | 1.562.2761.00 |
| 35 | 35 | 42 | 175 | 1.562.3561.00 |
| 40 | 40 | 48,2 | 230 | 1.562.4061.00 |
| 51 | 51,5 | 60 | 280 | 1.562.5161.00 |



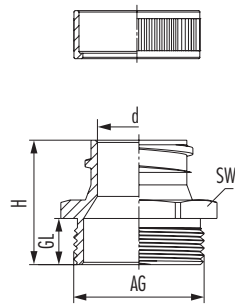
| | |
|--------------------|----------------------|
| Materiaal | PVC / Staak verzinkt |
| Beschermingsklasse | IP 65 |
| Temperatuurbereik | -15°C tot +70°C |

RoHS

| Maat DN | d mm | D mm | R mm | Item nr. |
|---------|---------|---------|---------|---------------|
| 9 | 9 | 15 | 30 | 1.564.0960.00 |
| 11 | 11 | 17 | 35 | 1.564.1160.00 |
| 13 | 13 | 18,5 | 40 | 1.564.1360.00 |
| 16 | 16 | 22 | 45 | 1.564.1660.00 |
| 21 | 21 | 27 | 55 | 1.564.2160.00 |
| 26 | 26 | 33 | 70 | 1.564.2660.00 |
| 35 | 35 | 42 | 80 | 1.564.3560.00 |
| 40 | 40 | 47 | 90 | 1.564.4060.00 |
| 51 | 51 | 58 | 90 | 1.564.5160.00 |

Kabelbeschermingssystemen

Metalen fitting (metrisch, PG, NPT)



Materiaal Vernikkeld messing

Beschermingsklasse IP 54

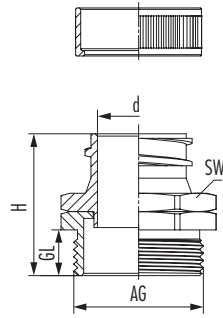
Temperatuurbereik -20°C tot +80°C

RoHS

// Strakke slangbevestiging

// Optie: Contraoer

| AG | d mm | GL mm | H mm | SW mm | Passend bij metaal-slang DN | Item nr. |
|------------|---------|----------|---------|----------|--------------------------------|---------------|
| M12 | 6 | 8 | 24 | 15 | 7 | 1.570.1260.50 |
| M16 | 7 | 8 | 24 | 20 | 9 | 1.570.1660.51 |
| M16 | 9 | 10 | 26 | 20 | 11 | 1.570.1660.50 |
| M20 | 12 | 10 | 26 | 22 | 14 | 1.570.2060.51 |
| M20 | 14 | 10 | 26 | 22 | 16 | 1.570.2060.50 |
| M25 | 18 | 10 | 27 | 28 | 21 | 1.570.2560.50 |
| M32 | 23 | 12 | 31 | 35 | 26 | 1.570.3260.50 |
| M40 | 33,5 | 14 | 36 | 45 | 37 | 1.570.4060.50 |
| M50 | 37 | 14 | 36 | 55 | 40 | 1.570.5060.50 |
| M63 | 46 | 14 | 36 | 65 | 51 | 1.570.6360.50 |
| PG 7 | 6 | 8 | 24 | 15 | 7 | 1.570.0760.14 |
| PG 9 | 7 | 8 | 24 | 17 | 9 | 1.570.0960.14 |
| PG 11 | 9 | 10 | 26 | 20 | 11 | 1.570.1160.14 |
| PG 13,5 | 12 | 10 | 26 | 22 | 14 | 1.570.1360.14 |
| PG 16 | 14 | 10 | 26 | 24 | 16 | 1.570.1660.14 |
| PG 21 | 18 | 10 | 27 | 30 | 21 | 1.570.2160.14 |
| PG 29 | 23 | 12 | 31 | 40 | 26 | 1.570.2960.14 |
| PG 36 | 33,5 | 14 | 36 | 50 | 37 | 1.570.3660.14 |
| PG 42 | 37 | 14 | 36 | 60 | 40 | 1.570.4260.14 |
| PG 48 | 46 | 14 | 36 | 65 | 51 | 1.570.4860.14 |
| NPT 1/4" | 6 | 10 | 26 | 15 | 7 | 1.570.1460.70 |
| NPT 3/8" | 7 | 11,5 | 27,5 | 20 | 9 | 1.570.3860.71 |
| NPT 3/8" | 9 | 11,5 | 27,5 | 20 | 11 | 1.570.3860.70 |
| NPT 1/2" | 12 | 13 | 29 | 22 | 14 | 1.570.1260.71 |
| NPT 1/2" | 14 | 13 | 29 | 22 | 16 | 1.570.1260.70 |
| NPT 3/4" | 18 | 15 | 32 | 28 | 21 | 1.570.3460.70 |
| NPT 1" | 23 | 16 | 38 | 45 | 37 | 1.570.1060.70 |
| NPT 1 1/4" | 33,5 | 18 | 40 | 55 | 40 | 1.570.5460.70 |
| NPT 1 1/2" | 37,5 | 20 | 42 | 65 | 51 | 1.570.6460.70 |
| NPT 2" | 20 | 15 | 34 | 35 | 26 | 1.570.2060.70 |



Materiaal Vernikkeld messing

Beschermingsklasse IP 54

Temperatuurbereik -20°C tot +80°C

RoHS

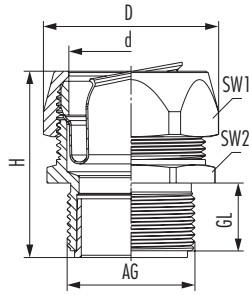
// Draaibare slangbevestiging

// Optie: Contraemoer

| AG | d mm | GL mm | H mm | SW mm | Passend bij metaal-slang DN | Item nr. |
|------------|---------|----------|---------|----------|--------------------------------|---------------|
| M12 | 6 | 8 | 27 | 15 | 7 | 1.571.1260.50 |
| M16 | 7 | 8 | 27 | 20 | 9 | 1.571.1660.51 |
| M16 | 9 | 10 | 29 | 20 | 11 | 1.571.1660.50 |
| M20 | 12 | 10 | 29 | 22 | 14 | 1.571.2060.51 |
| M20 | 14 | 10 | 29 | 22 | 16 | 1.571.2060.50 |
| M25 | 18 | 10 | 31 | 28 | 21 | 1.571.2560.50 |
| M32 | 23 | 12 | 35 | 35 | 26 | 1.571.3260.50 |
| M40 | 33,5 | 14 | 41 | 45 | 37 | 1.571.4060.50 |
| M50 | 37 | 14 | 41 | 55 | 40 | 1.571.5060.50 |
| M63 | 46 | 14 | 41 | 65 | 51 | 1.571.6360.50 |
| PG 7 | 6 | 8 | 27 | 15 | 7 | 1.571.0760.14 |
| PG 9 | 7 | 8 | 27 | 17 | 9 | 1.571.0960.14 |
| PG 11 | 9 | 10 | 29 | 20 | 11 | 1.571.1160.14 |
| PG 13,5 | 12 | 10 | 29 | 22 | 14 | 1.571.1360.14 |
| PG 16 | 14 | 10 | 29 | 24 | 16 | 1.571.1660.14 |
| PG 21 | 18 | 10 | 31 | 30 | 21 | 1.571.2160.14 |
| PG 29 | 23 | 12 | 35 | 40 | 26 | 1.571.2960.14 |
| PG 36 | 33,5 | 14 | 41 | 50 | 37 | 1.571.3660.14 |
| PG 42 | 37 | 14 | 41 | 60 | 40 | 1.571.4260.14 |
| PG 48 | 46 | 14 | 41 | 65 | 51 | 1.571.4860.14 |
| NPT 1/4" | 6 | 10 | 26 | 15 | 7 | 1.571.1460.70 |
| NPT 3/8" | 7 | 11,5 | 27,5 | 20 | 9 | 1.571.3860.71 |
| NPT 3/8" | 9 | 11,5 | 27,5 | 20 | 11 | 1.571.3860.70 |
| NPT 1/2" | 12 | 13 | 29 | 22 | 14 | 1.571.1260.71 |
| NPT 1/2" | 14 | 13 | 29 | 22 | 16 | 1.571.1260.70 |
| NPT 3/4" | 18 | 15 | 32 | 28 | 21 | 1.571.3460.70 |
| NPT 1" | 23 | 15 | 34 | 35 | 26 | 1.571.1060.70 |
| NPT 1 1/4" | 33,5 | 16 | 38 | 45 | 37 | 1.571.5460.70 |
| NPT 1 1/2" | 37 | 18 | 40 | 55 | 40 | 1.571.6460.70 |
| NPT 2" | 46 | 20 | 42 | 65 | 51 | 1.571.2060.70 |

Kabelbeschermingssystemen

Metalen fitting pro (metrisch, PG, NPT)

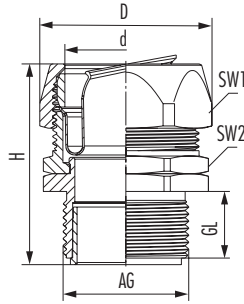


| | |
|---------------------------|--------------------|
| Materiaal | Vernikkeld messing |
| Beschermingsklasse | IP 67 |
| Temperatuurbereik | -20°C tot +80°C |

RoHS

- // Strakke slangbevestiging
- // Optie: Contraoer

| AG | d mm | D mm | GL mm | H mm | SW1/SW2 mm | Passend bij me- taal-slang Pro A DN | Passend bij me- taal-slang Pro B C DN | Item nr. |
|------------|---------|---------|----------|---------|---------------|--|--|---------------|
| M12 | 16,5 | 24,5 | 10 | 31 | 20/22 | 09 | 10 | 1.572.1260.50 |
| M16 | 19 | 29,2 | 10 | 35 | 20/22 | 11 | 12 | 1.572.1660.51 |
| M16 | 22 | 32,6 | 11,5 | 39 | 24/26 | 12 | 13 | 1.572.1660.50 |
| M20 | 22 | 32,6 | 13 | 38,7 | 27/29 | 16 | | 1.572.2060.50 |
| M25 | 27,5 | 38,8 | 15 | 41 | 33/35 | 21 | | 1.572.2560.50 |
| M32 | 34,5 | 50 | 15 | 49 | 43/45 | 26 | 27 | 1.572.3260.50 |
| M40 | 43,5 | 60 | 16 | 51 | 52/54 | 35 | | 1.572.4060.50 |
| M50 | 49,5 | 69,3 | 18 | 61 | 60/63 | 40 | | 1.572.5060.50 |
| M63 | 62 | 85 | 20 | 73 | 74/77 | 51 | | 1.572.6360.50 |
| PG 7 | 16,5 | 24,5 | 10 | 31 | 20/22 | 09 | 10 | 1.572.0760.14 |
| PG 9 | 16,5 | 24,5 | 10 | 31 | 20/22 | 11 | 12 | 1.572.0960.14 |
| PG 11 | 19 | 29,2 | 11,5 | 35 | 24/26 | 12 | 13 | 1.572.1160.14 |
| PG 13,5 | 22 | 32,6 | 13 | 39 | 27/29 | 16 | | 1.572.1360.14 |
| PG 16 | 22 | 32,6 | 13 | 38,7 | 27/29 | 16 | | 1.572.1660.14 |
| PG 21 | 27,5 | 38,8 | 15 | 41 | 33/35 | 21 | | 1.572.2160.14 |
| PG 29 | 34,5 | 50 | 15 | 49 | 43/45 | 26 | 27 | 1.572.2960.14 |
| PG 36 | 43,5 | 60 | 16 | 51 | 52/54 | 35 | | 1.572.3660.14 |
| PG 42 | 49,5 | 69,3 | 18 | 61 | 60/63 | 40 | | 1.572.4260.14 |
| PG 48 | 62 | 85 | 20 | 73 | 74/77 | 51 | | 1.572.4860.14 |
| NPT 1/4" | 62 | 85 | 20 | 73 | 74/77 | 51 | | 1.572.2060.70 |
| NPT 3/8" | 49,5 | 69,3 | 18 | 61 | 60/63 | 40 | | 1.572.6460.70 |
| NPT 1/2" | 43,5 | 60 | 16 | 51 | 52/54 | 35 | | 1.572.5460.70 |
| NPT 3/4" | 34,5 | 50 | 15 | 49 | 43/45 | 26 | 27 | 1.572.1060.70 |
| NPT 1" | 27,5 | 38,8 | 15 | 41 | 33/35 | 21 | | 1.572.3460.70 |
| NPT 1 1/4" | 22 | 32,6 | 13 | 38,7 | 27/29 | 16 | | 1.572.1260.70 |
| NPT 1 1/2" | 19 | 29,2 | 11,5 | 35 | 20/22 | 12 | 13 | 1.572.3860.70 |
| NPT 2" | 16,5 | 24,5 | 10 | 31 | 20/22 | 10 | 11 | 1.572.1460.70 |



Materiaal Vernikkeld messing

Beschermingsklasse IP 67

Temperatuurbereik -20°C tot +80°C

RoHS

// Draaibare slangbevestiging

// Optie: Contraoer

| AG | d mm | D mm | GL mm | H mm | SW1/SW2 mm | Passend bij me- taal-slang Pro A DN | Passend bij me- taal-slang Pro B C DN | Item nr. |
|------------|---------|---------|----------|---------|---------------|--|--|---------------|
| M12 | 16,5 | 24,5 | 10 | 34 | 20/22 | 09 | 10 | 1.573.1260.50 |
| M16 | 19 | 29,2 | 10 | 35 | 20/22 | 11 | 12 | 1.573.1660.51 |
| M16 | 22 | 32,6 | 11,5 | 37 | 24/26 | 12 | 13 | 1.573.1660.50 |
| M20 | 22 | 32,6 | 13 | 41 | 27/29 | 16 | | 1.573.2060.50 |
| M25 | 27,5 | 38,8 | 15 | 44 | 33/35 | 21 | | 1.573.2560.50 |
| M32 | 34,5 | 50 | 15 | 51 | 43/45 | 26 | 27 | 1.573.3260.50 |
| M40 | 43,5 | 60 | 16 | 54 | 52/54 | 35 | | 1.573.4060.50 |
| M50 | 49,5 | 69,3 | 18 | 64 | 60/63 | 40 | | 1.573.5060.50 |
| M63 | 62 | 85 | 20 | | 74/77 | 51 | | 1.573.6360.50 |
| PG 7 | 16,5 | 24,5 | 10 | 34 | 20/22 | 09 | 10 | 1.573.0760.14 |
| PG 9 | 16,5 | 24,5 | 10 | 34 | 20/22 | 11 | 12 | 1.573.0960.14 |
| PG 11 | 19 | 29,2 | 11,5 | 35 | 24/26 | 12 | 13 | 1.573.1160.14 |
| PG 13,5 | 22 | 32,6 | 13 | 37 | 27/29 | 16 | | 1.573.1360.14 |
| PG 16 | 22 | 32,6 | 13 | 41 | 27/29 | 16 | | 1.573.1660.14 |
| PG 21 | 27,5 | 38,8 | 15 | 44 | 33/35 | 21 | | 1.573.2160.14 |
| PG 29 | 34,5 | 50 | 15 | 51 | 43/45 | 26 | 27 | 1.573.2960.14 |
| PG 36 | 43,5 | 60 | 16 | 54 | 52/54 | 35 | | 1.573.3660.14 |
| PG 42 | 49,5 | 69,3 | 18 | 64 | 60/63 | 40 | | 1.573.4260.14 |
| PG 48 | 62 | 85 | 20 | 76 | 74/77 | 51 | | 1.573.4860.14 |
| NPT 1/4" | 16,5 | 24,5 | 10 | 35 | 20/22 | 10 | 11 | 1.573.1460.70 |
| NPT 3/8" | 19 | 29,2 | 11,5 | 37 | 20/22 | 12 | 13 | 1.573.3860.70 |
| NPT 1/2" | 22 | 32,6 | 13 | 41 | 27/29 | 16 | | 1.573.1260.70 |
| NPT 3/4" | 27,5 | 38,8 | 15 | 44 | 33/35 | 21 | | 1.573.3460.70 |
| NPT 1" | 34,5 | 50 | 15 | 51 | 43/45 | 26 | 27 | 1.573.1060.70 |
| NPT 1 1/4" | 43,5 | 60 | 16 | 54 | 52/54 | 35 | | 1.573.5460.70 |
| NPT 1 1/2" | 49,5 | 69,3 | 18 | 64 | 60/63 | 40 | | 1.573.6460.70 |
| NPT 2" | 62 | 85 | 20 | 76 | 74/77 | 51 | | 1.573.2060.70 |

Kabelbeschermingsystemen

Metalen fitting clip

Materiaal

Metaal

RoHS



| Maat DN | Passend bij metaal-slang DN | Passend bij metaal-slang Pro A DN | Passend bij metaal-slang Pro B C DN | Item nr. |
|---------|-----------------------------|-----------------------------------|-------------------------------------|---------------|
| 7 | 7 | | | 1.574.0760.00 |
| 9 | 9 | | | 1.574.0960.00 |
| 11 | 11 | | | 1.574.1160.00 |
| 14 | 11 | | | 1.574.1460.00 |
| 16 | 16 | 16 | 16 | 1.574.1660.00 |
| 21 | 21 | 21 | 21 | 1.574.2160.00 |
| 26/27 | | 27 | 26 | 1.574.2660.00 |
| 35 | 35 | 35 | 35 | 1.574.3560.00 |
| 51 | 51 | | | 1.574.5160.00 |

| Item nr. | Omschrijving | Pagina | Item nr. | Omschrijving | Pagina | Item nr. | Omschrijving | Pagina |
|----------|---|--------|----------|---|--------|----------|--|--------|
| 1.022. | Aardingsclip | 207 | 1.590. | HSK-KE (PG) | 25 | 1.573. | Metalen fitting pro S (metrisch, PG, NPT) | 229 |
| 1.802. | Afdekkap | 206 | 1.591. | HSK-KR (PG) | 26 | 1.571. | Metalen fitting S (metrisch, PG, NPT) | 227 |
| 1.282. | Afdichtdop met schroefdraad WN (metrisch) | 99 | 1.609. | HSK-M (metrisch/-lang) | 29 | 1.560. | Metalen slang A | 221 |
| 1.250. | Blinddop zonder schroefdraad DS | 98 | 1.609. | HSK-M (NPT) | 31 | 1.561. | Metalen slang B | 222 |
| 1.167. | Contraoer GM-EMC (metrisch, PG) | 87 | 1.609. | HSK-M (PG/-lang) | 30 | 1.562. | Metalen slang Pro A | 223 |
| 1.262. | Contraoer GM-FS (metrisch, PG, NPT) | 84 | 1.610. | HSK-M Ex (metrisch lang) | 138 | 1.563. | Metalen slang Pro B | 224 |
| 1.161. | Contraoer GM-INOX (metrisch, PG) | 88 | 1.610. | HSK-M Ex (metrisch) | 137 | 1.564. | Metalen slang Pro C | 225 |
| 1.161. | Contraoer GM-Ms (metrisch, PG, G) | 86 | 1.691. | HSK-M-EMC (metrisch/-lang) | 58 | 1.607. | METRICA-M-EMC-E (metrisch) | 57 |
| 1.263. | Contraoer voor ontluuchtingsplug GM-KS (metrisch) | 85 | 1.691. | HSK-M-EMC (NPT) | 60 | 1.321. | O-ringen | 123 |
| 1.326. | Dichtringen | 205 | 1.691. | HSK-M-EMC (PG/-lang) | 59 | 1.213. | Ontluuchtingsplug KS (metrisch) | 126 |
| 1.325. | Dichtringen gemaakt van polyethyleen | 124 | 1.631. | HSK-M-EMC-D (metrisch/-lang) | 55 | 1.312. | Opklapbare snapknie KF-G type A (metrisch, PG) | 117 |
| 1.325. | Dichtringen gemaakt van vezelcomposiet-materiaal | 125 | 1.631. | HSK-M-EMC-D (PG, NPT) | 56 | 1.312. | Opklapbare snapknie KF-G type B (metrisch, PG) | 118 |
| 1.202. | DIN 46320 Kunststoffen (PG) | 78 | 1.636. | HSK-M-EMC-D-Ex (metrisch, PG) | 158 | 1.533. | Polyamide fitting (metrisch, PG) | 212 |
| 1.101. | DIN 46320 Metaal (PG) | 79 | 1.646. | HSK-M-EMC-Ex (metrisch) | 159 | 1.535. | Polyamide fitting 90 (metrisch, PG) | 213 |
| 1.680. | DIN 46320 SE (PG) | 81 | 1.616. | HSK-M-EMC-Ex (NPT) | 161 | 1.534. | Polyamide fitting clip | 214 |
| 1.105. | DIN 46320 Z (metrisch, PG) | 80 | 1.616. | HSK-M-EMC-Ex (PG) | 160 | 1.547. | Polyamide fitting Duo-Ms (metrisch) | 215 |
| 1.681. | DIN 46320 ZSE (PG) | 82 | 1.666. | HSK-M-EMC-PVDF-Ex (PG, NPT) | 162 | 1.548. | Polyamide fitting Duo-Ms (PG, NPT) | 216 |
| 1.608. | EXIOS A2F INOX (metrisch, NPT) | 204 | 1.610. | HSK-M-Ex (NPT) | 141 | 1.542. | Polyamide fitting Duo-PA (metrisch) | 217 |
| 1.608. | EXIOS A2F Messing (metrisch, NPT) | 202 | 1.610. | HSK-M-Ex (PG lang) | 140 | 1.543. | Polyamide fitting Duo-PA (PG, NPT) | 218 |
| 1.608. | EXIOS A2F Vernikkeld messing (metrisch, NPT) | 203 | 1.610. | HSK-M-Ex (PG) | 139 | 1.511. | Polyamide fitting N (metrisch, PG, NPT) | 219 |
| 1.606. | EXIOS Barrier INOX (metrisch, NPT) | 201 | 1.622. | HSK-M-Ex d (metrisch) | 151 | 1.513. | Polyamide fitting W (metrisch, PG, NPT) | 220 |
| 1.606. | EXIOS Barrier Messing (metrisch, NPT) | 199 | 1.688. | HSK-M-Flaka (metrisch, PG, NPT) | 36 | 1.510. | Polyamide slang | 210 |
| 1.606. | EXIOS Barrier Vernikkeld messing (metrisch, NPT) | 200 | 1.689. | HSK-M-Flaka-Ex (metrisch, PG, NPT) | 146 | 1.527. | Polyamide slang Slit | 211 |
| 1.675. | EXIOS MZ Messing (metrisch, NPT) | 197 | 1.623. | HSK-M-Flex (metrisch/-lang, PG/-lang) | 37 | 1.272. | Reduceren R-FS type A (metrisch) | 100 |
| 1.675. | EXIOS MZ Vernikkeld messing (metrisch, NPT) | 198 | 1.623. | HSK-M-Flex (NPT) | 38 | 1.272. | Reduceren R-FS type B (PG) | 101 |
| 1.605. | EXIOS Standard INOX (metrisch, NPT) | 196 | 1.624. | HSK-M-Flex-EMC (metrisch/-lang, PG/-lang) | 62 | 1.236. | Reduceren R-FS type C (PG) | 102 |
| 1.605. | EXIOS Standard Messing (metrisch, NPT) | 194 | 1.624. | HSK-M-Flex-EMC (NPT) | 63 | 1.071. | Reduceren R-H (metrisch, PG) | 106 |
| 1.605. | EXIOS Standard Vernikkeld messing (metrisch, NPT) | 195 | 1.697. | HSK-M-Multi (metrisch, PG, NPT) | 35 | 1.273. | Reduceren R-M-PA type A (metrisch, PG) | 103 |
| 1.675. | HSK-INOX (metrisch) | 47 | 1.687. | HSK-M-Multi-Ex (metrisch, PG, NPT) | 145 | 1.273. | Reduceren R-M-PA type B (metrisch, PG) | 104 |
| 1.675. | HSK-INOX (PG, NPT) | 48 | 1.699. | HSK-M-PVDF (metrisch/-lang) | 32 | 1.273. | Reduceren R-M-PA type C (metrisch, PG) | 105 |
| 1.693. | HSK-INOX-EMC (metrisch, PG) | 67 | 1.699. | HSK-M-PVDF (NPT) | 34 | 1.039. | Reduceren RE-Ms (metrisch, PG) | 108 |
| 1.673. | HSK-INOX-EMC-Ex (metrisch, PG) | 165 | 1.699. | HSK-M-PVDF (PG/-lang) | 33 | 1.171. | Reduceren RE-Ms (metrisch, PG, NPT) | 109 |
| 1.612. | HSK-INOX-Ex (metrisch, PG) | 149 | 1.698. | HSK-M-PVDF-EMC (metrisch, PG) | 61 | 1.094. | Reduceren RS-INOX (metrisch, PG) | 110 |
| 1.632. | HSK-INOX-Ex d (metrisch, NPT) | 155 | 1.660. | HSK-M-PVDF-EMC (metrisch/-lang) | 142 | 1.097. | Reduceren RSD-INOX (metrisch, PG) | 111 |
| 1.740. | HSK-INOX-HD (metrisch) | 74 | 1.660. | HSK-M-PVDF-Ex (NPT) | 144 | 1.098. | Reduceren RSD-INOX-Ex (metrisch, PG) | 189 |
| 1.740. | HSK-INOX-HD-Pro (metrisch) | 75 | 1.660. | HSK-M-PVDF-Ex (PG/-lang) | 143 | 1.898. | Reduceren RSD-INOX-Ex d (metrisch) | 191 |
| 1.676. | HSK-INOX-PVDF (metrisch) | 49 | 1.634. | HSK-M-PVDF-Ex d (metrisch, NPT) | 153 | 1.099. | Reduceren RSD-INOX-VMQ-Ex (metrisch, PG) | 190 |
| 1.676. | HSK-INOX-PVDF (PG) | 50 | 1.309. | HSK-M-W (metrisch, PG) | 39 | 1.899. | Reduceren RSD-INOX-VMQ-Ex d (metrisch) | 192 |
| 1.662. | HSK-INOX-PVDF-Ex (metrisch, PG) | 150 | 1.106. | HSK-Mini (metrisch/-lang) | 44 | 1.077. | Reduceren RSD-Ms (metrisch, PG) | 107 |
| 1.633. | HSK-INOX-PVDF-Ex d (metrisch, NPT) | 156 | 1.106. | HSK-Mini (metrisch/-lang, PG) | 43 | 1.078. | Reduceren RSD-Ms-Ex (metrisch, PG) | 185 |
| 1.209. | HSK-K (metrisch) | 11 | 1.119. | HSK-Mini EMC (metrisch) | 66 | 1.878. | Reduceren RSD-Ms-Ex d (metrisch) | 187 |
| 1.209. | HSK-K (metrisch-lang) | 12 | 1.129. | HSK-Mini-INOX (metrisch) | 45 | 1.079. | Reduceren RSD-Ms-VMQ-Ex (metrisch, PG) | 186 |
| 1.209. | HSK-K (NPT) | 15 | 1.690. | HSK-MZ (metrisch/-lang, PG/-lang) | 40 | 1.879. | Reduceren RSD-Ms-VMQ-Ex d (metrisch) | 188 |
| 1.209. | HSK-K (PG) | 13 | 1.690. | HSK-MZ (NPT) | 41 | 1.280. | Sluïting HSK-V | 92 |
| 1.209. | HSK-K (PG-lang) | 14 | 1.692. | HSK-MZ-EMC (metrisch/-lang, PG/-lang) | 64 | 1.296. | Sluïting HSK-V-Ex | 169 |
| 1.292. | HSK-K-Ex-Active (metrisch/-lang) | 132 | 1.692. | HSK-MZ-EMC (NPT) | 65 | 1.296. | Sluïting HSK-V-Ex (MZ-variant) | 170 |
| 1.292. | HSK-K-Ex-Active (NPT) | 133 | 1.617. | HSK-MZ-EMC-Ex (metrisch, PG, NPT) | 163 | 1.297. | Sluïting V-Ex (metrisch, PG) | 168 |
| 1.587. | HSK-K-Flaka (metrisch, PG, NPT) | 17 | 1.667. | HSK-MZ-EMC-PVDF-Ex (PG, NPT) | 164 | 1.152. | Sluïting V-INOX metrisch (metrisch, PG) | 97 |
| 1.582. | HSK-K-Flaka-Ex-Active (metrisch, NPT) | 135 | 1.611. | HSK-MZ-Ex (metrisch, PG, NPT) | 147 | 1.192. | Sluïting V-INOX-Ex (metrisch, PG) | 178 |
| 1.293. | HSK-K-Flex (metrisch/-lang, PG/-lang) | 20 | 1.628. | HSK-MZ-Ex d (metrisch, NPT) | 154 | 1.895. | Sluïting V-INOX-Ex d (metrisch) | 181 |
| 1.293. | HSK-K-Flex (NPT) | 21 | 1.669. | HSK-MZ-PVDF (metrisch, PG, NPT) | 42 | 1.897. | Sluïting V-INOX-Ex d (NPT) | 184 |
| 1.597. | HSK-K-Multi (metrisch, PG, NPT) | 16 | 1.661. | HSK-MZ-PVDF-Ex (metrisch, PG, NPT) | 148 | 1.193. | Sluïting V-INOX-FKM-Ex (metrisch, PG) | 179 |
| 1.581. | HSK-K-Multi-Ex-Active (metrisch, NPT) | 134 | 1.313. | HSK-W (metrisch, PG, NPT) | 22 | 1.896. | Sluïting V-INOX-FKM-Ex d (metrisch) | 182 |
| 1.215. | HSK-K-MZ-Ex (metrisch, PG) | 136 | 1.317. | HSK-W draaibaar (PG) | 23 | 1.194. | Sluïting V-INOX-VMQ-Ex (metrisch, PG) | 180 |
| 1.299. | HSK-K-PVDF (metrisch, NPT) | 18 | 1.314. | HSK-W-Flex (metrisch, PG, NPT) | 24 | 1.897. | Sluïting V-INOX-VMQ-Ex d (metrisch) | 183 |
| 1.299. | HSK-K-PVDF (PG) | 19 | 1.106. | HSK-XL (metrisch, G) | 46 | 1.197. | Sluïting V-Ms-Ex (metrisch, PG) | 171 |
| | | | 1.089. | Invoer van meerdere kabels HSK-ME | 121 | 1.875. | Sluïting V-Ms-Ex d (metrisch) | 174 |
| | | | 1.091. | Invoer van platte kabels HSK-Flaka | 122 | 1.877. | Sluïting V-Ms-Ex d (NPT) | 177 |
| | | | 1.570. | Metalen fitting (metrisch, PG, NPT) | 226 | 1.198. | Sluïting V-Ms-FKM-Ex (metrisch, PG) | 172 |
| | | | 1.574. | Metalen fitting clip | 230 | 1.876. | Sluïting V-Ms-FKM-Ex d (metrisch) | 175 |
| | | | 1.572. | Metalen fitting pro (metrisch, PG, NPT) | 228 | | | |

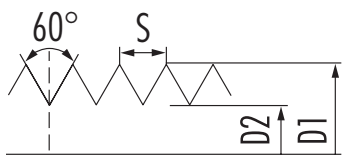
| Item nr. | Omschrijving | Pagina |
|----------|---|--------|
| 1.199. | Sluiting V-Ms-VMQ-Ex (metrisch, PG) | 173 |
| 1.877. | Sluiting V-Ms-VMQ-Ex d (metrisch) | 176 |
| 1.251. | Sluiting V-N-FS (metrisch, PG) | 89 |
| 1.052. | Sluiting V-N-Ms (metrisch, PG) | 93 |
| 1.052. | Sluiting V-N-Ms-SD (metrisch, PG) | 94 |
| 1.255. | Sluiting V-NE (metrisch, PG) | 90 |
| 1.155. | Sluiting V-NE-Ms (metrisch, PG) | 95,96 |
| 1.256. | Sluiting V-NE-SD (metrisch, PG) | 91 |
| 1.315. | Snapknie (metrisch, PG, NPT) | 116 |
| 1.329. | Tandveerring | 208 |
| 1.143. | Trekontlasting KLE metrisch (metrisch, PG) | 127 |
| 1.752. | VariaPro FKM (metrisch) | 73 |
| 1.750. | VariaPro Rail (metrisch) | 71 |
| 1.751. | VariaPro Temp (metrisch) | 72 |
| 1.239. | Verloop (vergroten) E-M-PA type A (metrisch, PG) | 112 |
| 1.239. | Verloop (vergroten) E-M-PA type C (metrisch, PG) | 113 |
| 1.033. | Verloop (vergroten) E-Ms (metrisch, PG) | 115 |
| 1.233. | Verloop (vergroten) K-FS (PG) | 114 |
| 1.306. | Voetstuk FW-T (PG) | 119 |
| 1.306. | Voetstuk FW-ZN (metrisch, PG) | 120 |
| 1.106. | WADI-A-FKM (metrisch, PG) | 51 |

| Item nr. | Omschrijving | Pagina | Item nr. | Omschrijving | Pagina | Item nr. | Omschrijving | Pagina |
|----------|--|--------|----------|--|--------|----------|--|--------|
| 1.022. | Aardingsclip | 207 | 1.297. | Sluiting V-Ex (metrisch, PG) | 168 | 1.640. | HSK-M Ex (metrisch) | 137 |
| 1.033. | Verloop (vergroten) E-Ms (metrisch, PG) | 115 | 1.299. | HSK-K-PVDF (metrisch, NPT) | 18 | 1.641. | HSK-MZ-Ex (metrisch, PG, NPT) | 147 |
| 1.039. | Reduceren RE-Ms (metrisch, PG) | 108 | 1.306. | Voetstuk FW-T (PG) | 119 | 1.642. | HSK-INOX-Ex (metrisch, PG) | 149 |
| 1.052. | Sluiting V-N-Ms (metrisch, PG) | 93 | 1.309. | HSK-M-W (metrisch, PG) | 39 | 1.646. | HSK-M-EMC-Ex (metrisch) | 159 |
| 1.071. | Reduceren R-H (metrisch, PG) | 106 | 1.312. | Opklapbare snapknie KF-G type A (metrisch, PG) | 117 | 1.647. | HSK-MZ-EMC-Ex (metrisch, PG, NPT) | 163 |
| 1.076. | Reduceren R-H (metrisch, PG) | 106 | 1.313. | HSK-W (metrisch, PG, NPT) | 22 | 1.660. | HSK-M-PVDF-Ex (metrisch/-lang) | 142 |
| 1.077. | Reduceren RSD-Ms (metrisch, PG) | 107 | 1.314. | HSK-W-Flex (metrisch, PG, NPT) | 24 | 1.661. | HSK-MZ-Ex (metrisch, PG, NPT) | 147 |
| 1.078. | Reduceren RSD-Ms-Ex (metrisch, PG) | 185 | 1.315. | Snapknie (metrisch, PG, NPT) | 116 | 1.662. | HSK-INOX-PVDF-Ex (metrisch, PG) | 150 |
| 1.079. | Reduceren RSD-Ms-VMQ-Ex (metrisch, PG) | 186 | 1.316. | Snapknie (metrisch, PG, NPT) | 116 | 1.666. | HSK-M-EMC-PVDF-Ex (PG, NPT) | 162 |
| 1.089. | Invoer van meerdere kabels HSK-ME | 121 | 1.317. | Snapknie (metrisch, PG, NPT) | 116 | 1.667. | HSK-MZ-EMC-PVDF-Ex (PG, NPT) | 164 |
| 1.091. | Invoer van platte kabels HSK-Flaka | 122 | 1.317. | HSK-W draaibaar (PG) | 23 | 1.669. | HSK-MZ-PVDF (metrisch, PG, NPT) | 42 |
| 1.094. | Reduceren RS-INOX (metrisch, PG) | 110 | 1.321. | O-ringen | 123 | 1.673. | HSK-INOX-EMC-Ex (metrisch, PG) | 165 |
| 1.097. | Reduceren RSD-INOX (metrisch, PG) | 111 | 1.325. | Dichtringen gemaakt van polyethyleen | 124 | 1.675. | HSK-INOX (metrisch) | 47 |
| 1.098. | Reduceren RSD-INOX-Ex (metrisch, PG) | 189 | 1.326. | Dichtringen | 205 | 1.676. | HSK-INOX-PVDF (metrisch) | 49 |
| 1.099. | Reduceren RSD-INOX-VMQ-Ex (metrisch, PG) | 190 | 1.329. | Tandveerring | 208 | 1.680. | DIN 46320 SE (PG) | 81 |
| 1.101. | DIN 46320 Metaal (PG) | 79 | 1.510. | Polyamide slang | 210 | 1.681. | DIN 46320 ZSE (PG) | 82 |
| 1.105. | DIN 46320 Z (metrisch, PG) | 80 | 1.511. | Polyamide fitting N (metrisch, PG, NPT) | 219 | 1.687. | HSK-M-Multi-Ex (metrisch, PG, NPT) | 145 |
| 1.106. | HSK-Mini (metrisch/-lang, PG) | 43 | 1.513. | Polyamide fitting W (metrisch, PG, NPT) | 220 | 1.688. | HSK-M-Flaka (metrisch, PG, NPT) | 36 |
| 1.112. | HSK-Mini (metrisch/-lang, PG) | 43 | 1.527. | Polyamide slang Slit | 211 | 1.689. | HSK-M-Flaka-Ex (metrisch, PG, NPT) | 146 |
| 1.119. | HSK-Mini EMC (metrisch) | 66 | 1.533. | Polyamide fitting (metrisch, PG) | 212 | 1.690. | HSK-MZ (metrisch/-lang, PG/-lang) | 40 |
| 1.129. | HSK-Mini-INOX (metrisch) | 45 | 1.534. | Polyamide fitting clip | 214 | 1.691. | HSK-M-EMC (metrisch/-lang) | 58 |
| 1.143. | Trekontlasting KLE metrisch (metrisch, PG) | 127 | 1.535. | Polyamide fitting 90 (metrisch, PG) | 213 | 1.692. | HSK-MZ-EMC (metrisch/-lang, PG/-lang) | 64 |
| 1.152. | Sluiting V-INOX metrisch (metrisch, PG) | 97 | 1.542. | Polyamide fitting Duo-PA (metrisch) | 217 | 1.693. | HSK-INOX-EMC (metrisch, PG) | 67 |
| 1.153. | Sluiting V-INOX metrisch (metrisch, PG) | 97 | 1.543. | Polyamide fitting Duo-PA (PG, NPT) | 218 | 1.695. | HSK-INOX (metrisch) | 47 |
| 1.154. | Sluiting V-INOX metrisch (metrisch, PG) | 97 | 1.547. | Polyamide fitting Duo-Ms (metrisch) | 215 | 1.696. | HSK-INOX-PVDF (metrisch) | 49 |
| 1.155. | Sluiting V-NE-Ms (metrisch, PG) | 95,96 | 1.548. | Polyamide fitting Duo-Ms (PG, NPT) | 216 | 1.697. | HSK-M-Multi (metrisch, PG, NPT) | 35 |
| 1.156. | Sluiting V-NE-Ms (metrisch, PG) | 95,96 | 1.560. | Metalen slang A | 221 | 1.698. | HSK-M-PVDF-EMC (metrisch, PG) | 61 |
| 1.157. | Sluiting V-NE-Ms (metrisch, PG) | 95,96 | 1.561. | Metalen slang B | 222 | 1.699. | HSK-M-PVDF (metrisch/-lang) | 32 |
| 1.161. | Contraoer GM-Ms (metrisch, PG, G) | 86 | 1.562. | Metalen slang Pro A | 223 | 1.625. | EXIOS MZ Messing (metrisch, NPT) | 197 |
| 1.167. | Contraoer GM-EMC (metrisch, PG) | 87 | 1.563. | Metalen slang Pro B | 224 | 1.740. | HSK-INOX-HD (metrisch) | 74 |
| 1.171. | Reduceren RE-Ms (metrisch, PG, NPT) | 109 | 1.564. | Metalen slang Pro C | 225 | 1.750. | VariaPro Rail (metrisch) | 71 |
| 1.192. | Sluiting V-INOX-Ex (metrisch, PG) | 178 | 1.570. | Metalen fitting (metrisch, PG, NPT) | 226 | 1.751. | VariaPro Temp (metrisch) | 72 |
| 1.193. | Sluiting V-INOX-FKM-Ex (metrisch, PG) | 179 | 1.571. | Metalen fitting S (metrisch, PG, NPT) | 227 | 1.752. | VariaPro FKM (metrisch) | 73 |
| 1.194. | Sluiting V-INOX-VMQ-Ex (metrisch, PG) | 180 | 1.572. | Metalen fitting pro (metrisch, PG, NPT) | 228 | 1.802. | Afdekkap | 206 |
| 1.197. | Sluiting V-Ms-Ex (metrisch, PG) | 171 | 1.573. | Metalen fitting pro S (metrisch, PG, NPT) | 229 | 1.875. | Sluiting V-Ms-Ex d (metrisch) | 174 |
| 1.198. | Sluiting V-Ms-FKM-Ex (metrisch, PG) | 172 | 1.574. | Metalen fitting clip | 230 | 1.876. | Sluiting V-Ms-FKM-Ex d (metrisch) | 175 |
| 1.199. | Sluiting V-Ms-VMQ-Ex (metrisch, PG) | 173 | 1.581. | HSK-K-Multi-Ex-Active (metrisch, NPT) | 134 | 1.877. | Sluiting V-Ms-VMQ-Ex d (metrisch) | 176 |
| 1.202. | DIN 46320 Kunststoffen (PG) | 78 | 1.582. | HSK-K-Flaka-Ex-Active (metrisch, NPT) | 135 | 1.878. | Reduceren RSD-Ms-Ex d (metrisch) | 187 |
| 1.209. | HSK-K (metrisch) | 11 | 1.587. | HSK-K-Flaka (metrisch, PG, NPT) | 17 | 1.879. | Reduceren RSD-Ms-VMQ-Ex d (metrisch) | 188 |
| 1.213. | Ontluchtingsplug KS (metrisch) | 126 | 1.590. | HSK-KE (PG) | 25 | 1.895. | Sluiting V-INOX-Ex d (metrisch) | 181 |
| 1.215. | HSK-K-MZ-Ex (metrisch, PG) | 136 | 1.591. | HSK-KR (PG) | 26 | 1.896. | Sluiting V-INOX-FKM-Ex d (metrisch) | 182 |
| 1.219. | HSK-K (metrisch) | 11 | 1.597. | HSK-K-Multi (metrisch, PG, NPT) | 16 | 1.897. | Sluiting V-INOX-VMQ-Ex d (metrisch) | 183 |
| 1.233. | Verloop (vergroten) K-FS (PG) | 114 | 1.605. | EXIOS Standard Messing (metrisch, NPT) | 194 | 1.898. | Reduceren RSD-INOX-Ex d (metrisch) | 191 |
| 1.236. | Reduceren R-FS type C (PG) | 102 | 1.606. | EXIOS Barrier Messing (metrisch, NPT) | 199 | 1.899. | Reduceren RSD-INOX-VMQ-Ex d (metrisch) | 192 |
| 1.239. | Verloop (vergroten) E-M-PA type A (metrisch, PG) | 112 | 1.607. | METRICA-M-EMC-E (metrisch) | 57 | | | |
| 1.250. | Blinddop zonder schroefdraad DS | 98 | 1.608. | EXIOS A2F Messing (metrisch, NPT) | 202 | | | |
| 1.251. | Sluiting V-N-FS (metrisch, PG) | 89 | 1.609. | HSK-M (metrisch/-lang) | 29 | | | |
| 1.255. | Sluiting V-NE (metrisch, PG) | 90 | 1.610. | HSK-M Ex (metrisch) | 137 | | | |
| 1.256. | Sluiting V-NE-SD (metrisch, PG) | 91 | 1.611. | HSK-MZ-Ex (metrisch, PG, NPT) | 147 | | | |
| 1.262. | Contraoer GM-FS (metrisch, PG, NPT) | 84 | 1.612. | HSK-INOX-Ex (metrisch, PG) | 149 | | | |
| 1.263. | Contraoer voor ontluchtingsplug GM-KS (metrisch) | 85 | 1.616. | HSK-M-EMC-Ex (metrisch) | 159 | | | |
| 1.272. | Reduceren R-FS type A (metrisch) | 100 | 1.617. | HSK-MZ-EMC-Ex (metrisch, PG, NPT) | 163 | | | |
| 1.273. | Reduceren R-M-PA type A (metrisch, PG) | 103 | 1.622. | HSK-M-Ex d (metrisch) | 151 | | | |
| 1.280. | Sluiting HSK-V | 92 | 1.623. | HSK-M-Flex (metrisch/-lang, PG/-lang) | 37 | | | |
| 1.282. | Afdichtdop met schroefdraad WN (metrisch) | 99 | 1.624. | HSK-M-Flex-EMC (metrisch/-lang, PG/-lang) | 62 | | | |
| 1.292. | HSK-K-Ex-Active (metrisch/-lang) | 132 | 1.628. | HSK-MZ-Ex d (metrisch, NPT) | 154 | | | |
| 1.293. | HSK-K-Flex (metrisch/-lang, PG/-lang) | 20 | 1.631. | HSK-M-EMC-D (metrisch/-lang) | 55 | | | |
| 1.294. | HSK-K-Flex (metrisch/-lang, PG/-lang) | 20 | 1.632. | HSK-INOX-Ex d (metrisch, NPT) | 155 | | | |
| 1.296. | Sluiting HSK-V-Ex | 169 | 1.633. | HSK-INOX-PVDF-Ex d (metrisch, NPT) | 156 | | | |
| | | | 1.634. | HSK-M-PVDF-Ex d (metrisch, NPT) | 153 | | | |
| | | | 1.636. | HSK-M-EMC-D-Ex (metrisch, PG) | 158 | | | |
| | | | 1.637. | HSK-M-EMC-D-Ex (metrisch, PG) | 158 | | | |

TECHNISCHE GEGEVENS

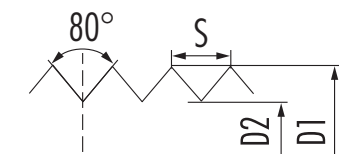
Schroefdraadmaten

Metrische ISO-schroefdraadmaten



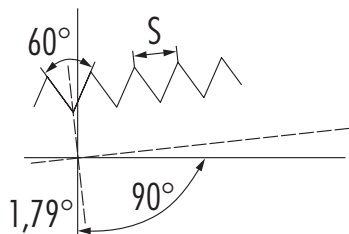
| Maat | Spoed (S) mm | Buitendiameter (D1) mm | Binnendiameter(D2) mm | Dorlopende boring mm |
|------------|--------------|------------------------|-----------------------|----------------------|
| M 12 x 1,5 | 1,5 | 12 | 10,38 | 12,2 |
| M 16 x 1,5 | 1,5 | 16 | 14,38 | 16,2 |
| M 20 x 1,5 | 1,5 | 20 | 18,38 | 20,2 |
| M 25 x 1,5 | 1,5 | 25 | 23,38 | 25,2 |
| M 32 x 1,5 | 1,5 | 32 | 30,38 | 32,2 |
| M 40 x 1,5 | 1,5 | 40 | 38,38 | 40,2 |
| M 50 x 1,5 | 1,5 | 50 | 48,38 | 50,2 |
| M 63 x 1,5 | 1,5 | 63 | 61,38 | 63,2 |

PG-schroefdraadmaten



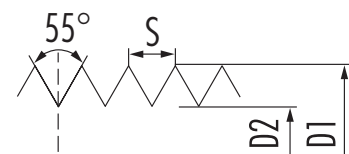
| Maat | Spoed (S) mm | Buitendiameter (D1) mm | Binnendiameter(D2) mm | Dorlopende boring mm |
|---------|--------------|------------------------|-----------------------|----------------------|
| PG 7 | 1,270 | 12,5 | 11,28 | 12,7 |
| PG 9 | 1,410 | 15,2 | 13,86 | 15,4 |
| PG 11 | 1,410 | 18,6 | 17,26 | 18,8 |
| PG 13,5 | 1,410 | 20,4 | 19,06 | 20,7 |
| PG 16 | 1,410 | 22,5 | 21,16 | 22,8 |
| PG 21 | 1,588 | 28,3 | 26,78 | 28,6 |
| PG 29 | 1,588 | 37,0 | 35,48 | 37,4 |
| PG 36 | 1,588 | 47,0 | 45,48 | 47,5 |
| PG 42 | 1,588 | 54,0 | 52,48 | 54,5 |
| PG 48 | 1,588 | 59,3 | 57,78 | 59,8 |

NPT-schroefdraadmaten



| Maat | Spoed (S) mm | Buitendiameter (D1) mm | Aantal gangen mm |
|------------|--------------|------------------------|------------------|
| NPT 1/4" | 1,411 | 13,716 | 18 |
| NPT 3/8" | 1,411 | 17,145 | 18 |
| NPT 1/2" | 1,814 | 21,336 | 14 |
| NPT 3/4" | 1,814 | 26,67 | 14 |
| NPT 1" | 2,208 | 33,4 | 11 1/2 |
| NPT 1 1/4" | 2,208 | 42,164 | 11 1/2 |
| NPT 1 1/2" | 2,208 | 48,26 | 11 1/2 |
| NPT 2" | 2,208 | 60,325 | 11 1/2 |
| NPT 2 1/2" | 3,175 | 73,025 | 8 |
| NPT 3" | 3,175 | 88,9 | 8 |
| NPT 3 1/2" | 3,175 | 101,6 | 8 |

Gasschroefdraadmaten



| Maat | Spoed (S) mm | Buitendiameter (D1) mm | Binnendiameter(D2) mm | Dorlopende boring mm |
|---------|--------------|------------------------|-----------------------|----------------------|
| G 1/4" | 1,337 | 13,157 | 11,445 | 13,4 |
| G 3/8" | 1,337 | 16,662 | 14,950 | 17,0 |
| G 1/2" | 1,814 | 20,995 | 18,631 | 21,3 |
| G 5/8" | 1,814 | 26,441 | 24,117 | 26,8 |
| G1" | 2,309 | 33,249 | 30,291 | 33,7 |
| G1 1/4" | 2,309 | 41,910 | 38,952 | 42,4 |
| G1 1/2" | 2,309 | 47,803 | 44,845 | 48,3 |
| G2" | 2,309 | 59,614 | 56,656 | 60,2 |
| G2 1/2" | 2,309 | 75,184 | 72,226 | 75,7 |
| G3" | 2,309 | 87,884 | 84,926 | 88,5 |
| G3 1/2" | 2,309 | 100,330 | 97,372 | 101,0 |
| G4" | 2,309 | 113,030 | 110,072 | 114,0 |

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